**3GPP TSG-SA5 Meeting #138-e *S5-214119rev1***

**e-meeting, 23 - 31 August 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **28.550** | **CR** | **0066** | **rev** | **1** | **Current version:** | **16.7.0** |  |
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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 |  | Core Network | **X** |

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| ***Title:*** | Add use case to management capability for tenant | | | | | | | | | |
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| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eMEMTANE | | | | |  | ***Date:*** | | | 2021-08-13 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***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)* | |
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| ***Reason for change:*** | | The NRM IOC may be introduced to support management capabilities for vertical enterprise use (e.g., tenant). It is necessary to describe the use case and requirement(s) for this new management capability for tenant. | | | | | | | | |
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| ***Summary of change:*** | | The proposed changes in this CR are to support a management object for tenant that is capable to expose the performance KPI of network slice to tenant, that is represented the MOI provided by 3GPP management system.  The statement to provide performance monitoring and alarm notification are to be desribed in the UC. | | | | | | | | |
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| ***Consequences if not approved:*** | | The use case of tenant capability and NRM IOC for tenant is not included in specification. | | | | | | | | |
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| ***Clauses affected:*** | | 5.1.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 ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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| **First modification** |

### 5.1.x MnS of performance monitoring provided to tenant

| Use case stage | Evolution/Specification | <<Uses>> Related use |
| --- | --- | --- |
| **Goal** | Enable MnS of performance monitoring for vertical enterprise (tenant) to obtain the available performance KPI of network slice. |  |
| **Actors and Roles** | MnS producer of performance monitoring for network  MnS Consumer of performance monitoring |  |
| **Telecom resources** | Performance management service producer  Exposure governance that is capable to provide performance management service to tenant |  |
| **Assumptions** | The vertical enterprise (tenant) as MnS consumer is authorized to consume performance management service of network slice.  The performance measurements and related performance KPIs are generated by 3GPP management system regarding particular S-NSSAI, or network slice instance ID. For example, the number of simutanous PDU sessions per S-NSSAI is provided to this authorized MnS consumer via exposure governance.  The vertical MnS consumer is capable to consume the PM MnS as the exposure governance is capable to provide the MnS for this tenant. |  |
| **Pre-conditions** | The exposure governance is capable to provide MnS for tenant, as the MOI of tenant is available.  The MnS consumer, as tenant in this context, is authorized to consume performance management service. |  |
| **Begins when** | The MnS consumer wants to obtain available performance KPIs regarding consumed network slice(s). |  |
| **Step 1 (M)** | The MnS consumer informs exposure governance that it wishes to receive performance KPIs for specific network slice(s).  The exposure governance checks credential of MnS consumer and authorization of the MnS consumer for PM MnS. |  |
| **Step 2 (M)** | The management function (e.g., the exposure governance) is capable to provide the requested performanc KPIs of network slice, or need to obtain performance KPIs of network slice via PM MnS to other management functions. |  |
| **Step 3 (O)** | The management function requests PM MnS to other management function(s) to obtain performance KPIs of network slice. |  |
| **Step 4 (M)** | Management functions generate or receive performance KPI of network slice, and provide performance KPI of network slice to exposure governance. |  |
| **Step 5 (M)** | PM MnS provides performance KPIs to MnS consumer. |  |
| **Ends when** | All the steps identified above are successfully completed. |  |
| **Exceptions** | One of the mandatory steps fails. |  |
| **Post-conditions** | The vertical MnS consumer is authroized has obtained the performance KPIs via PM MnS. |  |
| **Traceability** | **REQ-PM\_NSI-FUN-1** |  |

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| **End of modification** |