**3GPP TSG-SA5 Meeting #141-e *S5-221222***

**e-meeting, 17 - 24 January 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **28.533** | **CR** | **0099** | **rev** | **-** | **Current version:** | **17.1.0** |  |
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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 tenant solution description | | | | | | | | | |
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| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eMEMTANE | | | | |  | ***Date:*** | | | 2022-01-06 |
|  |  | | | |  | |  | | |  |
| ***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 support of multiple tenant environment in 3GPP management system was discussed. When a tenant is to create communication services that are associated to multiple network slice instance.  The performance measurement and fault alarms can be associated with S-NSSAI in 3GPP management system. The 3GPP management system is capable to report performance monitoring and alarm notification according to S-NSSAI.  However, the creation/modifications of network slice instance is based on the service requirements from network slice consumer (NSC). The mantaince of those information of NSC, this tenant related performance and alarm notifications would beneficial to maintan the network slice, and related network functions.  The tenant related information is proposed to be supported in 3GPP management system.  There are different options to associate the corresponding network slice for this tenant: enhance NRM with a tenant IOC associated to S-NSSAIs in OSS level or in BSS level. This document proposes to add description of tenant management in 3GPP management system. | | | | | | | | |
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| ***Summary of change:*** | | Add description of tenant management in TS 28.533. | | | | | | | | |
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| ***Consequences if not approved:*** | | The solution of tenant management is missing in 3GPP specification. | | | | | | | | |
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| ***Clauses affected:*** | | 4.8 | | | | | | | | |
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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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| **1st Change** |

## 4.8 Management capability support in multiple tenant environment

In 3GPP management sytem, tenant represents a group of MnS consumers associated with the management capabilities they are allowed to access and consume. The 3GPP management system provides multi-tenancy support, by associating different tenants with different sets of management capabilities. Every tenant may be authorized to access and consume those MnSs that the operator makes available to this tenant based on SLA.

Tenant information (e.g., a NSC) is created and maintained in BSS layer. The 3GPP management system may be provided and maintain the tenant information by enhanced NRM with a tenant IOC in OSS level or in BSS level . If provided, the 3GPP management system can maintain for reason of network slice management, and provide performance montoring related to this tenant to authorised MnS consumer.

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| **End of Change** |