**3GPP TSG-SA5 Meeting #141-e *S5-221738d1***

e-meeting, 17 -26 January 2022 (revision of S5-221223)

**S Source: SA WG5**

**Title: Revised work item on management of the enhanced tenant concept**

**Document for: Approval**

**Agenda Item: 6.4.7**

3GPP™ Work Item Description

Information on Work Items can be found at <http://www.3gpp.org/Work-Items>
See also the [3GPP Working Procedures](http://www.3gpp.org/specifications-groups/working-procedures), article 39 and the TSG Working Methods in [3GPP TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm)

# Title: Management of the enhanced tenant concept

## Acronym: eMEMTANE

## Unique identifier: 880026

Potential target Release: Rel-17

# 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Affects: | UICC apps | ME | AN | CN | Others (specify) |
| Yes |  |  | X | X |  |
| No | X | X |  |  |  |
| Don't know |  |  |  |  |  |

# 2 Classification of the Work Item and linked work items

## 2.1 Primary classification

### This work item is a Feature

|  |  |
| --- | --- |
| X | Feature |
|  | Building Block |
|  | *Work Task* |
|  | Study Item |

## 2.2 Parent Work Item

|  |
| --- |
| Parent Work / Study Items  |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
|  |  |  |  |

### 2.3 Other related Work Items and dependencies

|  |
| --- |
| Other related Work /Study Items (if any) |
| Unique ID | Title | Nature of relationship |
| 850031 | Enhancement of 3GPP management system for multiple tenant environment support | Work item in release 16 |
| 810022 | Study on tenancy concept in 5G networks and network slicing management | Study item (TR 28.804) in release 16. |

**Dependency on non-3GPP (draft) specification:** None

# 3 Justification

The study on tenancy concept in TR 28.804 concludes the tenant (e.g., enterprise) may be supported by management capabilities. Without further specification development and discussion in OAM, the management system only provides the performance monitoring based on some measurements per S-NSSAI. The motivation for this work item is that management system is able to provide more management capabilities (e.g., provisioning services) besides supported measurement report and some alarms to tenant based on current specifications.

The work item on MEMTANE for release 16 is proposed to specify normative part as following:

* Conceptual descriptions for management enhancement in multiple tenant environment in TS 28.533;
* Specify tenant information;
* Other potential requirements and potential changes for management services.

However, the provisioning service is not applicable to the management enhancements in release 16.

Furthermore, the practical requirement for enterprise consumer would be desired to request management capability for more visibility of service status besides the monitoring report and alarm notification. The intention of this work is to improve tenancy support in MnS to support further integration with BSS. For example, the functional requirements (e.g. isolation level, serving nodes information, service status, allowed maximum number of simultaneous PDU sessions related to equivalence parameters in ServiceProfile etc) is interesting for tenant user in sight of a self-management portal.

In general, this work item proposes to investigate the requirements and potential solutions in management system on management supports for means of tenant use in release 17.

# 4 Objective

This work item is proposed to specify possible enhancements for 5G network and network slice management and orchestration as following:

* Potential use case, conceptual description and requirements for management service in multiple tenant environment.
* Potential solutions (e.g. NRM IOC) to support the new use case and requirements in release 17.

# 5 Expected Output and Time scale

|  |
| --- |
| New specifications {One line per specification. Create/delete lines as needed} |
| Type  | TS/TR number | Title | For info at TSG#  | For approval at TSG# | Rapporteur |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

{Note 1: Only TSs may contain normative provisions. Study Items shall create or impact only TRs.
"Internal TR" is intended for 3GPP internal use only whereas "External TR" may be transposed by OPs.}

{Note 2: The first listed Rapporteur is the specification primary Rapporteur. Secondary Rapporteur(s) are possible for particular aspect(s) of the TS/TR. In this case, their responsibility has to be provided as "Remarks".}

|  |
| --- |
| Impacted existing TS/TR {One line per specification. Create/delete lines as needed} |
| TS/TR No. | Description of change  | Target completion plenary# | Remarks |
| TS 28.531 | Descriptions on provisioning service in multiple tenant environment. | TSG#95DEC 2021 |  |
| TS 28.532 | Descriptions on requirements, related MOI and operations for generic MnS in multiple tenant environment. | TSG#95DEC 2021 |  |
| TS 28.533 | Conceptual description management enhancement in multiple tenant environment. | TSG#95DEC 2021 |  |
| TS 28.541 | Possible changes to NRM IOCs. | TSG#95DEC 2021 |  |

# 6 Work item Rapporteur(s)

Zhu, Lei, Huawei, lei.zhu@huawei.com

# 7 Work item leadership

SA5

# 8 Aspects that involve other WGs

None

# 9 Supporting Individual Members

{At least 4 supporting Individual Members are needed. There is an expectation that these companies will provide resources to progress the work. Note that having 4 supporting companies is a necessary but not sufficient condition: the usual TSG approval process by consensus is needed for the WID approval}

|  |
| --- |
| Supporting IM name |
| Huawei |
| HiSilicon |
| CMCC |
| China Unicom |
|  |
|  |