**3GPP TSG-SA5 Meeting #141-e *S5-221259rev1***

**e-meeting, 17 -26 January 2022**

**Source: AsiaInfo, Alibaba Group**

**Title: pCR TR 28.824 Add procedure for exposed MnS registration**

**Document for: Approval**

**Agenda Item: 6.5.2**

# Decision/action requested

***In this box give a very clear / short /concise statement of what is wanted.***

# 2 References

[1] 3GPP TR 28.824: " Study on network slice management capability exposure " V0.4.0

# 3 Rationale

This contribution proposes to add procedure for exposed MnS registration and clarify the relation to EMGF and external discovery system.

# 4 Detailed proposal

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| **First change** |

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] TM Forum TMF622 Product Order API REST Specification

[3] TM Forum TMF641 Service Ordering API

[4] TM Forum TMF652 Resource Order Management API

[5] 3GPP TS 28.531: "Management and orchestration; Concepts, use cases and requirements"

[6] 3GPP TS 28.202: "Charging management; Network slice management charging in the 5G System (5GS); Stage 2"

[7] 3GPP TR23.700-99 “Study on Network Slice Capability Exposure for Application Layer Enablement (NSCALE)”

[8] 3GPP TS23.434 “Service Enabler Architecture Layer for Verticals (SEAL); Functional architecture and information flows.”

[9] 3GPP TS 28.541: "Management and orchestration; 5G Network Resource Model (NRM); Stage 2 and stage 3"

[X] 3GPP TS 28.622: "Management and orchestration; Generic Network Resource Model (NRM); Integration Reference Point (IRP); Information Service (IS)"

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| **Second change** |

### 5.8.2 Potential solutions

#### 5.8.2.1 Potential solution #1: MnS discovery service for exposure

To enable communication between eMnS consumers and eMnS producers, eMnS consumers need a mechanism to discover eMnS producers that are available in the 3GPP management system, this is called MnS discovery service.

When the operator decides to expose a management service (eMnS), the operator must decide which MnS(s) should be exposed, which internal MnS operations should be abstracted/filtered, and which internal MnS data should be abstracted/filtered. As part of this decision, the operator may use the MnS Discovery Service to collect information. The operator exposes the MnS and registers it with the eMnS discovery service, this may be done using an EGMF. The eMnS discovery service consumer sends a request to appropriate discovery service (e.g. eMnS discovery service producer) to obtain the eMnS data.

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The detailed procedure for MnS discovery service obtains MnS data for exposure is shown below:



Figure 5.8.2.1.1 Procedure for eMnS service register

The MnS producer can register its MnS to the eMnS producer (e.g. EGMF) in the following two different ways:

a) The EGMF may use the MnS discovery service to collect information.

NOTE: The MnS data defined in MnS discovery service may be extended.

b) The operator may use the appropriate MnS (e.g. provisioning service, register) to configure the exposed MnS services data.

3) The operator decides which MnS(s) should be exposed and configers exposed MnS data.

4) The EGMF registers or configures the exposed MnS data with the MnS discovery producer providing discovery for the exposed MnS.

5) The NSC can obtain exposed MnS data from the MnS discovery service producer either via BSS or directly.

### 5.8.3 Conclusion

The following issues are identified in clause 5.8:

- The network resource model specified in TS 28.622 [X] may be updated to support exposed MnS data.

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| **End of changes** |