**3GPP TSG-SA5 Meeting #141-e *S5-221427***

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

**Source: Ericsson**

**Title: Input to potential solutions in clause 7.1**

**Document for: Approval**

**Agenda Item: 6.5.2**

# 1 Decision/action requested

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

# 2 References

[1] 3GPP TR 32.160: "Management and orchestration; Management service template".

# 3 Rationale

Clause 7.1 describes potential solutions for network management capability exposure. However there are questions regarding which use case is addressed by this solution and if SA5 has to provide the solution. Therefore it is proposed to add an Editor’s note to state the solution is FFS. Furthermore some updates are proposed to improve readability.

# 4 Detailed proposal

***1st 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 28.532: "Management and orchestration; Generic management services"

***2nd Change***

# 7 Potential solutions for network management capability exposure

### 7.1 Solution for “exposed MnS support to discovery systems”

The steps of the solution are as follows:

1. An MnS consumer configures, using the generic provisioning service see TS 28.532 [x], the details of the external discovery service location and other supporting information (e.g. authentication and authorization). Furthermore, the details on which parts of which MnS (component A) IOCs and which instances of the corresponding MOI (component B) and corresponding data (component C) can be registered with the discovery service/system. As an example, the operator may want to register the ability to provision (Management object A) a particular slice type (SST) at a certain coverage area (coverageArea item 6.3.3 TS 28.541) with some additional details (example: supported latency or maxNumberofUEs or delayTolerance) to an external discovery service or system.
2. In addition to the information of what is externally registered, information relating to the address of the exposed MnS is provided. This could be default information based on the operator in the external discovery system or in case of a trusted discovery the address of the actual exposed management service.
3. The 3GPP Management System registers the exposed management component A, B and C as configured in step 1 an external discovery service/system not specified by SA5.
4. If any of the exposure details change (e.g. the same slice type can now be supported in a new coverageArea) the registration to the external discovery system, not specified by SA5, can be updated.

***End of changes***