**3GPP TSG SA WG5 Meeting #139e S5-215396**

**Online, , 11 Oct 2021- 20 Oct 2021**

**Source: Ericsson**

**Title: InputToDraftCR 28.537 Define Solution for Data Discovery**

**Document for: Approval**

**Agenda Item: 6.4.8**

# 1 Decision/action requested

***The group is asked to discuss and approve the proposals.***

# 2 References

None

# 3 Rationale

While an authorized MnS consumers can discover what types of MnS services are available in the system with Service discovery mechanism (MnsRegistry IOC), there is no simple way to discover what data can be retrieved by consuming of these Management Services. In fact, what data can be retrieved still needs to be either preconfigured at design-time or can be learnt at run-time which can be time and resource consuming task and might still not be accurate after all.

This document proposes a mechanism which will allow MnS consumers to discover what data can be produced by the system.

# 4 Detailed proposal

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| **First modification** |

## 6.X Disovery of management data

### 6.X.1 Description

Discovery of management data mechanism allows MnS consumers to discover what management data can be produced by the 3GPP management system without direct involvement of those MnS services producing the data, which can be time and resource consuming process.

For this mechanism to work MnS producers as entities producing data, need to register what data they can produce by adding a corresponding record in the 3GPP management system.

Note: The term "management data produced by 3GPP management system" relates to

* 5G performance measurements as defined by TS 28.552 [4]
* 5G end to end key performance indicators as defined by TS 28.554 [5], and
* Trace/MDT data as defined by TS 32.422 [6].

### 6.X.2 Use Cases

#### 6.X.2.1 Discover management data by MnS Consumer

| Use case stage | Evolution/Specification | <<Uses>>Related use |
| --- | --- | --- |
| **Goal**  | Discover what management data can be retrieved from a 3GPP management system and which MnS Producers needs to be invoked in to retrieve the data |  |
| **Actors and Roles** | Network operator. |  |
| **Telecom resources** | A data discovery MnS service consumer.A data discovery MnS service producer. |  |
| **Assumptions** | An authorized MnS service consumer can consume data discovery MnS service.  |  |
| **Pre-conditions** | There are MnS producer(s) which have registered their capabilities to produce data as data-set records created in 3GPP Management system. |  |
| **Begins when**  | Network operator wishes to add a new MnS consumer to the 3GPP management system. The MnS consumer needs to find out if data it needs to run its use cases, are available in the system and which MnS(s) need to be invoked to retrieve such data. |  |
| **Step 1 (M)** | Network operator adds the new MnS consumer to the 3GPP management system. |  |
| **Step 2 (M)** | Network operator activates a new MnS consumer. |  |
| **Step 3 (M)** | New MnS consumer sends a request to data discovery MnS service producer to retrieve the information on data the 3GPP management system can produce. The MnS consumer can also specify a filter to narrow-down a scope of the request. The following can be specified as a filter: MnS type, Data type |  |
| **Step 4 (M)** | Data discovery MnS service producer replies back to the MnS consumer with an information on the data as requested by MnS Consumer represented as a list of data-set records. |  |
| **Ends when**  | All the steps identified above are successfully completed. |  |
| **Exceptions** | One of the mandatory steps fails. |  |
| **Post-conditions** | Data discovery MnS service consumer has an information about the data which can be produced by 3GPP management system. |  |
| **Traceability**  | REQ-DMSDIS-CON-2 |  |

### 6.X.3. Requirements

REQ-DMSDIS-CON-1: The 3GPP management system shall enable an authorized data producer to register what management data can be produced by itself. (Check reqs. methodology)

REQ-DMSDIS-FUN-1: The 3GPP management system shall enable an authorized data consumer to discover what management data can be produced by 3GPP management system.

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| **End of modifications** |