3GPP TSG SA WG5 Meeting 140-e S5-216377

electronic meeting, online, 15- 24 November 2021

**Source: Nokia**

**Title: Add MDA Request and Control**

**Document for: Approval**

**Agenda Item: 6.4.18**

# 1 Decision/action requested

This contribution is for approval.

# 2 References

[1] TR 28.809 Management and orchestration; Study on enhancement of Management Data Analytics (MDA)

# 3 Rationale

This contribution introduces an MDA reporting control description, use case and requirements that enables the MDA MnS consumer to request analytics indicating certain reporting control attributes to the MDA MnS producer.

This MDA reporting control can be applicable to all analytics use cases described in [1], which request an MDA report.

# 4 Detailed proposal

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| **1st Modified Section** |

### 7.3.1 MDA Request and Control

#### 7.3.1.1 Description

The MDA request and control allow any authorized MDA MnS consumer to request management data analytics.

#### 7.3.1.2 Use Case

The MDA MnS conusmer can request the MDA MnS producer to provide MDA output for a specified type of analytics, i.e., MDA type, which corresponds to a MDA use case. The MDA MnS conusmer may introduce control attributes related to the MDA output with respect to the geographic location (i.e., area scope) and/or the target objects, e.g., managed elements, time schedule for obtaining a MDA output, time conditions related to the preparation of MDA output, and potential filter conditions to be met before a MDA output is made available, e.g. load or delay threshold crossing related to a target object. The geographical location indicates an area of interest for obtaining MDA output and target objects include affected objects or objects of interest for obtaining MDA output.

The MDA MnS conusmer may control the MDA output attributes related to, e.g., time schedule, geographical location, tagert objects, etc., and has the capability to modify them at any point in time. The MDA MnS conusmer can request the MDA MnS preoducer to generate a MDA output that contains numeric output results, e.g. average, Cumulative Distribution Function (CDF), nomal distribution, etc., recommendation options, e.g. potential handover target cells, or root case analysis, e.g. alarm prediciton.

The MDA MnS consumer can be informed with an acknowledgment if the request was successful. If the request was not successful the consumer is informed about potential errors indicating the reasons. The MDA MnS consumer can also deactivate the MDA reporting control request once it is no longer needed.

#### 7.3.1.3 Requirements for Requesting MDA

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| **Requirement label** | **Description** | **Related use case(s)** |
| **REQ-MDA-CONT-1** | The MDA MnS producer shall have capability to allow any authorized MDA MnS consumer to request MDA output, while indicating its selection on the MDA type. | **All use cases** |
| **REQ-MDA-CONT-2** | The MDA MnS producer shall have the capability to allow any authorized MDA MnS consumer to request MDA output, while indicating its selection on the reporting time schedule. | **All use cases** |
| **REQ-MDA-CONT-3** | The MDA MnS producer shall have the capability to allow any authorized MDA MnS consumer to request MDA output, while indicating its selection on geographic location and/or the target objects if applicable. | **All use cases** |
| **REQ-MDA-CONT-4** | The MDA MnS producer shall have the capability to allow any authorized MDA MnS consumer to request MDA output, while indicating its selection on the time schedule related to MDA results. | **All use cases** |
| **REQ-MDA-CONT-5** | The MDA MnS producer shall havethe capability to allow any authorized MDA MnS consumer to modify the attributes related to the requested MDA output. | **All use cases** |
| **REQ-MDA-CONT-6** | The MDA MnS producer shall have the capability to allow any authorized MDA MnS consumer to specify filter conditions on target obejcts based on threshold crossing for MDA output when this is applicable. | **All use cases** |

Editor Note: If applicable is for FFS.

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| **End of Modified Sections** |