3GPP TSG SA WG5 Meeting 140-e S5-216368

electronic meeting, online, 15- 24 November 2021

**Source: Nokia**

**Title: Add obtaining MDA output**

**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 that enables the MDA MnS consumer to receive analytics.

This MDA Reporting can be applicable to all analytics use cases described in [1].

# 4 Detailed proposal

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| **1st Modified Section** |

### 7.3.2 Obaining MDA Output

#### 7.3.2.1 Description

Following a successful MDA request any authorized MDA MnS consumer can obtain management data analytics from the corresponding MDA MnS producer. The MDA MnS consumer can control the MDA output by modifying the attributes related to the MDA request at any point in time.

#### 7.3.2.2 Use Case

The MDA MnS conusmer can obtain MDA output when the conditions indicated in the MDA request are met. A MDA output can contain one or more MDA results, which may be: (i) numeric, e.g., average, Cumulative Distribution Function (CDF), etc., (ii) recommendation options, e.g., potential handover target cells, or (iii) root case analysis, e.g., alarm prediciton. These results may be related to one or more MDA types, which corresponds to MDA use cases, and can also contain information regarding the time schedule or the validity time of the provided MDA output.

MDA MnS consumers can request and obtain different MDA output results, which shall contain the MDA context, i.e., the conditions under which an MDA result was prepared, e.g., network conditions. The MDA MnS conusmer may also obtain information regarding the geographic location and/or the target objects, e.g., managed elements, related to the provided MDA result – from the corresponding element.

The MDA MnS conusmer may obtain MDA output results either by pulling or pushing mechanisms. Any MDA output may be obtained once it is prepared or when specified filter conditions are met, i.e., threshold crossing (e.g., network load suprass a predefined threshold) or upon a predefined time schedule.

#### 7.3.2.3 Requirements for Requesting MDA

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| **Requirement label** | **Description** | **Related use case(s)** |
| **REQ-MDA\_REP-1** | The MDA MnS producer shall have a capability allowing MDA MnS consumers to obtain analytics from the MnS producer. | **All use cases** |
| **REQ-MDA\_REP-2** | The MDA MnS producer shall have a capability allowing MDA MnS consumers to indicate if produced anaylics shall be pushed to the MDA MnS consumer or whether the MDA MnS consumer pulls the data. | **All use cases** |
| **REQ-MDA\_REP-3** | The MDA MnS producer shall allow any authorized MDA MnS consumer to obtain the geographic location and/or the target objects related to the MDA output if applicable. | **All use cases** |
| **REQ-MDA\_REP-4** | The MDA MnS producer shall allow any authorized MDA MnS consumer to obtain time schedule information related to the MDA output. | **All use cases** |

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| **End of Modified Sections** |