3GPP TSG SA WG5 Meeting 139-e S5-215275

electronic meeting, online, 11- 20 October 2021

**Source: Nokia**

**Title: Add MDA Reporting**

**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** |

## X.Y MDA Reporting

### X.Y.1 Description

The MDA reporting allows any authorized MDA MnS consumer to receive a MDA report.

### X.Y.2 Use Case

The MDA MnS conusmer can receive a MDA report when the reporting conditions indicated in the MDA reporting control request are met. A MDA report contains one or more MDA results, which can be numeric, e.g., average, Cumulative Distribution Function (CDF), etc., recommendation options, e.g., potential handover cells, or root case analysis, e.g., alarm prediciton. These results may be related to one or moreMDA types, which corresponds to MDA use cases.

The MDA MnS conusmer can get informed regarding the time schedule or the validity time of the provided MDA results. The MDA MnS conusmer may obtain information regarding the geographic location and/or the target objects, e.g., managed elements, related to the provided MDA result. Any MDA report may be provided once it is prepared or when specified filter conditions are met, e.g., threshold crossing, and then provided to the corresponding MDA MnS consumer.

### X.Y.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 computed by the MnS producer. | **All use cases** |
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| **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 provide a MDA report that contains one or more analytics outputs, related to one or more MDA types, i.e. MDA capability. | **All use cases** |
| **REQ-MDA\_REP-4** | The MDA MnS producer shall provide a MDA report to any authorized MDA MnS consumer, while indicating the MDA types, i.e. MDA capability. | **All use cases** |
| **REQ-MDA\_REP-5** | 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 result. | **All use cases** |
| **REQ-MDA\_REP-6** | The MDA MnS producer shall allow any authorized MDA MnS consumer to obtain time schedule information related to the MDA results. | **All use cases** |
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| **End of Modified Sections** |