**3GPP TSG-SA5 Meeting #132e S5-204248**

**e-meeting 17th 28th August 2020**

**Source: Huawei**

**Title: Add Subscription to Management Data Analytics Reports**

**Document for: Approval**

**Agenda Item: 6.6.3**

# 1 Decision/action requested

***The group is asked to approve the proposal.***

# 2 References

[1] 3GPP TR 28.809 v0.4.0: “Study on enhancement of Management Data Analytics (MDA)”

[2] 3GPP TS 28.550: “Management and orchestration; Performance assurance”

[3] 3GPP TS 23.288: “Architecture enhancements for 5G System (5GS) to support network data analytics services”

# 3 Rationale

This contribution describes a general method to manage subscriptions to MDA reports.

TS 28.550 [2] clause 5.1.5 describes subscription-based usecases, but no requirements or solutions are described.

It is proposed to use a subscribe-notify style which is similar to the style used by NWDAF, refer to 23.288 [3] clause 6.1.1.

# 4 Detailed proposal

This contribution proposes to make the following changes in [1].

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| **1st Change** |

### 6.99.x Subscription to Management Data Analytics Reports

#### 6.99.x.1 Use case

MDA may provide several management data analysis reports. Multiple users may wish to receive each of these reports.

The user submits a request to MDAS to subscribe to an MDA report. This request may include a filter to specify which subset of management data should be analysed. MDA activates the data collection if it is not already active.

For all reports, MDA collects data, analyses the data, and generates an analysis report.

MDA sends notifications to relevant subscribers when a new or updated analysis report is available. The notification may contain the analytics report, or the notification may contain a link to a location where the report may be retrieved.

The user may send a request to MDAS to unsubscribe from an MDA report. If no subscribers remain for an MDA report, MDA may decide to deactivate data collection for this report.

#### 6.99.x.2 Potential requirements

**REQ-MDA\_SUB-1** The MDAS producer should have a capability to allow an MDAS consumer to subscribe to an analytics report. The subscription request should optionally allow the MDAS consumer to filter the scope of data in the analytics report.

**REQ-MDA\_SUB-2** The MDAS producer should have a capability to provide the analytics report to the relevant subscribers.

**REQ-MDA\_SUB-3** The MDAS producer should have a capability to allow an MDAS consumer to unsubscribe to an analytics report.

#### 6.99.x.3 Possible solutions

Figure 6.99.x.3-1 shows a possible solution.

MDAS Consumer

MDAS Producer

1. MDAS\_AnalyticsSubscription\_Subscribe/
MDAS\_AnalyticsSubscription\_Unsubscribe

2. MDAS\_AnalyticsSubscription\_Notify

Figure 6.99.x.3-1: Network management data analytics subscribe/unsubscribe

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| **End of changes** |