3GPP TSG SA WG5 Meeting 142-e S5-222479

**e-meeting, 4 -12 April 2022**

**Source: Nokia**

**Title: Editorial, enhancements and modifications on MDA overview**

**Document for: Approval**

**Agenda Item: 6.6.5**

# 1 Decision/action requested

This contribution is for approval.

# 2 References

[x] TR 28.809 Study on enhancement of management data analytics

# 3 Rationale

This contribution introduces certain editorial corrections. It also provides some enhancements and modifications in the text proposing to include KPIs as input as discussed in [x], delete the statement related to the interaction with AFs since the management system is not capable to support this and add the root cause analysis as a potential MDA output as certain use cases in [x] support this.

# 4 Detailed proposal

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| **1st Modified Section** |

# 4 Concepts and overview

## 4.1 Overview

Management Data Analytics (MDA), as a key enabler of automation and intelligence, is considered a foundational capability for mobile networks and services management and orchestration.

The MDA provides a capability of processing and analysing data related to network and service events and status including e.g., performance measurements, KPIs, Trace/MDT/RLF/RCEF reports, QoE reports, alarms, configuration data, network analytics data, and service experience data from AFs, etc. to provide analytics, i.e., statistics or predictions,, root cause analysis issues, and may also include recommendations to enable necessary actions for network and service operations. The MDA output is provided by the MDAS (Management Data analytics Service) producer to the corresponding consumer that requested the analytics.

The MDA can identify ongoing issues impacting the performance of the network and services, and help to identify in advance potential issues that may cause future failure and/or performance degradation. The MDA can also assist to predict the network and service demand to enable the timely resource provisioning and deployments, which would allow fast time-to-market network and service deployments.

Management Data Analytics Service (MDAS), the services exposed by the MDA, can be consumed by various consumers, for instance MnFs (i.e., MnS producers/consumers for network and service management), NFs (e.g., NWDAF), SON functions, network and service optimization tools/functions, SLS assurance functions, human operators, and AFs, etc.

NOTE: Throughout this specification the terms, MDAS and MDA MnS are equivalent and may be used interchangeably.

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| **End of Modified Section** |