**3GPP TSG-SA5 Rapporteur call 143e**

**9 June 2022**

**Source: Huawei**

**Title: Discussion on MDA gaps**

**Document for: Information**

# 1 Decision/action requested

***For discussion***

# 2 References

[1] 3GPP TR 28.104 V1.2.0 Management and orchestration; Management Data Analytics (MDA)

# 3 Introduction

Before moving forward with Release-18, this document discusses possible gaps in the Release-17 specification for Management Data Analytics [1].

# 4 Issue 1 – Very abstract use cases

In clause 7 of [1], all of the use cases refer to a generic “MDAS consumer” without describing anything more about this consumer. This makes it impossible to determine if the analytics output is actually useful for the consumer.

In general, there are 3 possible types of MDAS consumers:

* Another MDAS producer (for example cross-domain MDAS consuming CN-domain MDAS and RAN-domain MDAS)
* Decision module of a management closed loop
* Other management functions

Each type of consumer may have different requirements on the analytics output. For example, another MDAS producer will need to receive structured data but will not care about recommendations. A decision module will expect to receive recommendations, and may not need detailed analytics data. Other management functions may have unique requirements.

**Proposal**: For Release-18, more realistic high-level use cases should be studied. Some suggestions:

* Aggregation of network slice subnet analytics (domain level) to network slice analytics (cross-domain level)
* Aggregation of energy-related analytics from domain level to cross-domain level
* Example of how MDAS is used in closed-loop management at domain level
* Example of how MDAS is used in closed-loop management at cross-domain level

# 5 Issue 2 – Analytics per network slice subnet

Clause 8 of [1] describes the following analytics for the following use cases:

* Network slice throughput analysis
* Network slice traffic prediction
* Network slice load analysis

The analytics outputs are provided per network slice. However, it is not clear how these types of output can be provided by MDAS at RAN domain level and MDAS at CN domain level. At the domain level, only information at slice subnet level is available. It may be necessary to add analytics reports at slice subnet level.

As a specific example, clause 7.2.2.2.2 of [1] states “*Network slice throughput analysis can be for a specific domain or for cross-domain. The two levels of MDAS producers worked in a coordinated way to assure the throughput performance*”, but this does not seem to be possible to achieve with the agreed solution.

**Proposal**: For Release-18, more study is needed on how cross-domain MDAS producers and domain-specific MDAS producers work in a coordinated way.