**3GPP TSG-SA5 Meeting #142e S5-222482rev1**

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

**Source: NEC, Intel**

**Title: pCR draft TS28.104, clarifications on MDA Types**

**Document for: Approval**

**Agenda Item: 6.6.5**

# 1 Decision/action requested

***For approval***

# 2 References

[1] 3GPP TS 28.104, v1.0.0; "Management and orchestration ; Management Data Analytics (MDA)".

# 3 Rationale

MDA type and capability terms can be a source of confusion for external readers of the specification. Current text in clause “8.2.1 MDA Types” definitions need further clarifications. Furthermore, the text needs to be aligned with clause 7.3.1.2.

This proposal attempts to add the required clarifications and also add clear definition of the relevant terms.

# 4 Detailed proposal

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| **1st modification** |

3.1 Terms

For the purposes of the present document, the terms given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

MDA Type: type of analytics corresponding to specific MDA capability.

MDA capability: analytics capability corresponding to analytics of a set of analytics input data to provide analytics output data.

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| **2nd modification** |

7.3.2.2 Use case

The MDA MnS consumer can obtain MDA output when the conditions indicated in the MDA request are met. An MDA output can contain one or more MDA results, which may be: (i) numeric, e.g., average, etc., (ii) recommendation options, e.g., potential handover target cells, or (iii) root case analysis, e.g., alarm prediction. These results may be related to one or more MDA types, which corresponds to MDA capabilities, 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 consumer 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 consumer may obtain MDA output results either by pulling or pushing mechanisms. Any MDA output may be obtained once it is prepared or when the specified MDA request and control conditions are met.

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| **3rd modification** |

8.1.1 MDA Types

The output of MDA can be related to a particular capability as described in section 7, where an MDA type can indicate a specific MDA capability corresponding to a predefined use case.

The MDA capabilities may also support analytics of a set of data or analytics for certain PMs, KPIs, trace data, QoE or other type of data. Analytics related to the set of data relies on multiple raw, or already processed input data enabling an MDA MnS producer to provide more complex MDA output. Analytics related to certain set of data including PMs, KPIs, trace or QoE data may rely on these specific categories of data.

MDA MnS consumers may request output for MDA types related to analytics of a set of data or analytics for certain PMs, KPIs, trace or QoE data.

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| **End of modification** |