**3GPP TSG-SA5 Rapporteur call *S5-22xxxx***

**e-meeting, 16 March 2022**

**Source: Nokia, Nokia Shanghai Bell, Huawei, MATRIXX Software**

**Title: Analytics Charging MDAS support**

**Document for: Discussion**

**Agenda Item: NCHF**

# 1 Decision/action requested

**Extend the support for MDAS**

# 2 References

[1] 3GPP TS 28.201: "Charging management; Network slice performance and analytics charging in the 5G System (5GS); Stage 2"

# 3 Rationale

Extend the support for MDAS.

See proposed changes to TS 28.201 [1].

# 4 Detailed proposal

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| **First change** |

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TS 32.240: "Telecommunication management; Charging management; Charging architecture and principles".

[2] - [14] Void

[15] 3GPP TS 32.255: "Telecommunication management; Charging management; 5G data connectivity domain charging; Stage 2".

[16] - [49] Void.

[50] 3GPP TS 32.290: "Telecommunication management; Charging management; 5G system; Services, operations and procedures of charging using Service Based Interface (SBI)".

[51] 3GPP TS 32.291: "Telecommunication management; Charging management; 5G system; Charging service, stage 3".

[52] - [54] Void.

[55] 3GPP TS 32.295: "Telecommunication management; Charging management; Charging Data Record (CDR) transfer".

[56] 3GPP TS 32.297: "Telecommunication management; Charging management; Charging Data Record (CDR) file format and transfer".

[57] 3GPP TS 32.298: "Telecommunication management; Charging management; Charging Data Record (CDR) parameter description".

[58] - [99] Void.

[100] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[101] - [149] Void.

[150] 3GPP TS 23.288: "Architecture enhancements for 5G System (5GS) to support network data analytics services".

[151] - [174] Void.

[175] 3GPP TS 28.104: " Management and orchestration; Management Data Analytics (MDA)"

[176] - [199] Void.

[200] 3GPP TS 28.202: "Charging management; Network slice management charging in the 5G System (5GS); Stage 2".

[201] - [249] Void.

[250] 3GPP TS 28.533: "Management and orchestration; Architecture framework".

[251] 3GPP TS 28.532: "Management and orchestration; Generic management services".

[252] - [270] Void.

[271] 3GPP TS 28.554: "Management and orchestration; 5G end to end Key Performance Indicators (KPI)".

[272] - [299] Void.

[300] 3GPP TS 29.510: "5G System; Network function repository services; Stage 3".

[301] - [400] Void.

[401] - [499] Void.

[500] GSMA NG.116: "Generic Network Slice Template".

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| **Last change** |

### 4.1.1 Network slice charging architecture

The architecture for network slice charging follows common architecture and concepts specified in TS 32.240 [1].

The network slice charging shall support charging of network slice management specified in TS 28.202 [200] and performance and analytics based charging in the present document.

The NWDAF is part of the architecture specified in TS 23.501 [2] and the figure 4.1.1-1 shows the Network Data Analytics Exposure architecture specified in TS 23.288 [150].



Figure 4.1.1-1: Network Data Analytics Exposure architecture

The figure 4.1.1-2 shows the management service which offers management capabilities, specified in TS 28.533 [250] clause 4.



Figure 4.1.1-2: Management Service

The figure 4.1.1-3 shows that Management Data Analytics Services as specified in TS 28.104 [175], may play roles of a MDAS MnS producer, MDAS MnS consumer, MnS consumer, and NWDAF consumer.

Graphical user interface, diagram, website

Description automatically generated

Figure 4.1.1-3: Management Data Analytics functional overview and service framework

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| **End of changes** |