**3GPP TSG-SA5 Meeting #144-e *S5-224127***

e-meeting, 27 June-01 July 2022*Revision of S5-223318*

**Source: China Mobile, Huawei**

**Title: pCR 28.910 Add introduction on relevant SI/WI in 3GPP**

**Document for: Approval**

**Agenda Item: 6.7.1.1**

# 1 Decision/action requested

***The group is asked to discuss and approval.***

# 2 References

[1] 3GPP draft TR 28.910: "Management and orchestration; Study on enhancement of autonomous network levels v0.2.0".

# 3 Rationale

This contribution proposes to add introduction of autonomous network or network automation related study items and work items in 3GPP according to the editor’s note in clause 4 of TR 28.910.

# 4 Detailed proposal

It proposes to make the following changes to TR 28.910[1].

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| **1st 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 TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 28.310: "Management and orchestration; Energy efficiency of 5G"

[3] 3GPP TR 28.813: "Management and orchestration; Study on new aspects of Energy Efficiency (EE) for 5G"

[4] 3GPP TS 28.100: "Management and orchestration; Levels of autonomous network"

[5] 3GPP TS 28.312:" Management and orchestration; Intent driven management services for mobile networks"

[6] 3GPP TS 28.104: "Management and orchestration; Management Data Analytics"

[7] 3GPP TS 28.532: "Management and orchestration; Generic management services".

[8] 3GPP TS 28.541: "Management and orchestration; 5G Network Resource Model (NRM); Stage 2 and stage 3".

[9] 3GPP TS 28.622: "Telecommunication management; Generic Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS)".

[10] 3GPP TS 28.552: "Management and orchestration; 5G performance measurements".

[11] 3GPP TS 32.422: "Telecommunication management; Subscriber and equipment trace; Trace control and configuration management".

[12] 3GPP TS 28.313: "Management and orchestration; Self-Organizing Networks (SON) for 5G networks".

[X2] 3GPP TS 28.535: "Management and orchestration; Management services for communication service assurance; Requirements".

[X3] 3GPP TS 28.536: "Management and orchestration; Management services for communication service assurance; Stage 2 and stage 3".

[X4] 3GPP TS 28.105: "Management and orchestration; Artificial Intelligence / Machine Learning (AI/ML) management".

[X5] 3GPP TS 23.288: "Architecture enhancements for 5G System (5GS) to support network data analytics services".

[X8] 3GPP TS 28.531: "Management and orchestration ; Provisioning; "

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| **2nd Change** |

# 4 Introduction on relevant study items and work items in 3GPP

In 3GPP TS 28.100 [4], categorizations of the tasks in a workflow are specified in clause 4.3.4 including intent handling, awareness, analysis, decision and execution, and these task categories are used in the framework approach for evaluating autonomous network levels (ANL) in clause 5 of TS 28.100.

To enable intelligence and automation of network and service management and orchestration, or to enable network intelligence and automation in 5GC and RAN, Many features or services are introduced or being studied in corresponding study items and work items in 3GPP, such as self-organizing networks (SON) for 5G networks [12], management of trace/minimization of drive test (MDT) [11], management data analytics service (MDAS) [6], closed loop SLS assurance (COSLA) [X2], [X3], intent driven management service (IDMS) [5] , artificial intelligence / machine learning (AI/ML) management [X4], NWDAF [X5], etc. They are relevant to the task categories in the workflow specified in ANL. For example, TS 28.312 [5] is relevant to task category of intent handling. TS 32.422 [11] is relevant to task category of awareness. TS 28.104 [6], TS 23.288 [X5] and TR 37.817[X7] are example of documents related to task category of analysis. TS 28.313 [12], TS 28.535 [X2] and TS 28.536 [X3] are relevant to task category of decision. And TS 28.531 [X8] is an example of execution tasks related document.

In addition, there are also some documents specifies features or services that can enable intelligence and automation in general regardless the specific task categories. For example, TS 28.105 [X4] specifies the AI/ML management capabilities and services for 5GS where AI/ML is used, which may relevant to Analysis, Decision and Intent handling. TS 28.532 [7] specifies the stage 2 and stage 3 of generic management services for mobile network including generic provisioning MnS, generic fault supervision MnS and performance assurance MnS, etc.

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| **End of Changes** |