**3GPP TSG-SA5 Meeting #131e *S5-203204***

**e-meeting 25 May- 04June 2020**

**Source: Samsung, Huawei, Ericsson**

**Title: Generic SLS Assurance Procedure**

**Document for: Approval**

**Agenda Item: 6.4.7**

# 1 Decision/action requested

***The group is asked to discuss and approve this document.***

# 2 References

[1] 3GPP TS 28.535: "Management and orchestration; Management Services for Communication Service Assurance, requirements"

[x] 3GPP TS 28.550: "Management and orchestration; Performance assurance"

# 3 Rationale

Use cases related with SLA assurance have been captured in TS 28.535[1], also the NRM related with assurance control loop are agreed in last meeting.

The contribution provides a generic SLS assurance procedure.

# 4 Detailed proposal

*It is proposed to add the following text to the draft TS.*

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| **1st Change Start** |

# 4 Communication service assurance service

## 4.1 Stage 2

Editor’s Note: the substructure is for FFS.

4.1.X Procedures

4.1.X.1 SLS Assurance Procedure



1. AssuranceControlLoop\_consumer derives AssuranceControlLoopGoal from the ServiceProfile or SliceProfile.
2. AssuranceControlLoop\_consumer provides the AssuranceControlLoopGoal to Entities\_Participating\_in\_loop by utilizing the provision management services defined in as defined in clause 11.1.1.3, TS 28.532[7].

Note: In case the Entities\_Participating\_in\_loop represents CrossDomain\_Entities\_Participating\_in\_loop, the AssuranceControlLoopGoal is the attribute(s) of the ServiceProfile. In case the Entities\_Participating\_in\_loop represents Domain\_Entities\_Participating\_in\_loop, the AssuranceControlLoopGoal is the attribute(s) of the SliceProfile.

1. Entities\_Participating\_in\_loop subscribes the related performance data (e.g., the packet delay related measurements), fault data, QoE data (e.g., buffer level) and MDT data from respective sources by utilizing the Operation establishStreamingConnection as defined in clause 6.2.1, TS 28.550[x].
2. Entities\_Participating\_in\_loop, optionally, subscribes the related analytical data from MDAS or network functions, e.g., NWDAF. In case of NWDAF as a provider, Nnwdaf\_EventsSubscription Service as defined in clause 4.2 is used.
3. Entities\_Participating\_in\_loop collects the related performance, fault, QoE and MDT data (e.g., the packet delay related measurements), fault data, QoE data (e.g., buffer level) and MDT data from respective sources by utilizing the Operation establishStreamingConnection as defined in clause 6.2.1, TS 28.550[x].
4. Entities\_Participating\_in\_loop, optionally, collects the related analytical data from MDAS or network functions, e.g., NWDAF. In case of NWDAF as a provider, Nnwdaf\_EventsSubscription Service as defined in clause 4.2, TS 29.520[y] is used.
5. Entities\_Participating\_in\_loop assesses if the AssuranceControlLoopGoal has been fulfilled.
6. Entities\_Participating\_in\_loop assesses if and which action to take in case the AssuranceControlLoopGoal has not been fulfilled.
7. As per the mitigation action (e.g., scale out) resources are changed, the generic provisioning management service as defined in clause 11.1, TS 28.532[x] is utilized for the same.
8. Action completed

Note: The Entities\_Participating\_in\_ loop continues to monitor and analyse the performance and perform the adjustment until the attribute(s) of SliceProfile is assured.

1. AssuranceControlLoop\_consumer receives the confirmation of assurance fulfilment from Entities\_Participating\_in\_loop by utilizing the provision management services defined in as defined in clause 11.1.1.3, TS 28.532[7].

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| **1st Change end** |