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

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

**Source: Samsung, Huawei**

**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"

# 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 SLS goals from the ServiceProfile.
2. AssuranceControlLoop\_consumer provides the attribute(s) of ServiceProfile to CrossDomain\_Entities\_ Participating\_in\_ loop by utilizing the provision management services defined in as defined in clause 11.1.1.3, TS 28.532[7].
3. CrossDomain\_Entities\_ Participating\_in\_ loop provides the attribute(s) of SliceProfile to Domain\_Entities\_ Participating\_in\_ loop by utilizing the provision management services defined in as defined in clause 11.1.1.3, TS 28.532[7].
4. Domain\_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].
5. Domain\_Entities\_ Participating\_in\_ loop, optionally, subscribes the related analytical data from NWDAF, Nnwdaf\_EventsSubscription Service as defined in clause 4.2, TS 29.520[y] is used.
6. Domain\_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].
7. Domain\_Entities\_ Participating\_in\_ loop, optionally, collects the related analytical data from NWDAF, Nnwdaf\_EventsSubscription Service as defined in clause 4.2, TS 29.520[y] is used.
8. Domain\_Entities\_ Participating\_in\_ loop analyse if the AssuranceControlLoopGoal has been fulfilled.
9. Domain\_Entities\_ Participating\_in\_ loop assesses if and which action to take in case the AssuranceControlLoopGoal has not been fulfilled.
10. 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.
11. Action completed

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

1. CrossDomain\_Entities\_ Participating\_in\_ loop receives the confirmation of assurance fulfilment from Domain\_Entities\_ Participating\_in\_ loop by utilizing the provision management services defined in as defined in clause 11.1.1.3, TS 28.532[7].
2. AssuranceControlLoop\_consumer receives the confirmation of assurance fulfilment from CrossDomain\_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** |