**3GPP TSG-SA5 Meeting #134e *S5-206183***

**e-meeting 16th - 25th November 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **28.536** | **CR** | **0014** | **rev** | **-** | **Current version:** | **16.1.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **x** | Core Network | **x** |

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| ***Title:*** | Update SLS Assurance Procedure | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | COSLA | | | | |  | ***Date:*** | | | 2020-11-2 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) Rel-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
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| ***Reason for change:*** | | The AssuranceControlLoop\_consumer may use assurance fulfilment (including QoE fulfilment) information to modify ServiceProfile or SliceProflie to update the AssuranceControlLoopGoal if its QoE fulfilment is not satisfied. | | | | | | | | |
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| ***Summary of change:*** | | AsuranceControlLoop\_consumer may update the ServiceProfile or SliceProflie if its QoE fulfilment is not satisfied. | | | | | | | | |
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| ***Consequences if not approved:*** | | The scenario of “QoE fulfilment is not satisfied” could not be covered by the procudure | | | | | | | | |
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| ***Clauses affected:*** | | 4.1.3.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **x** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **x** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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| **1st of changes** |

#### 4.1.3.1 SLS Assurance Procedure

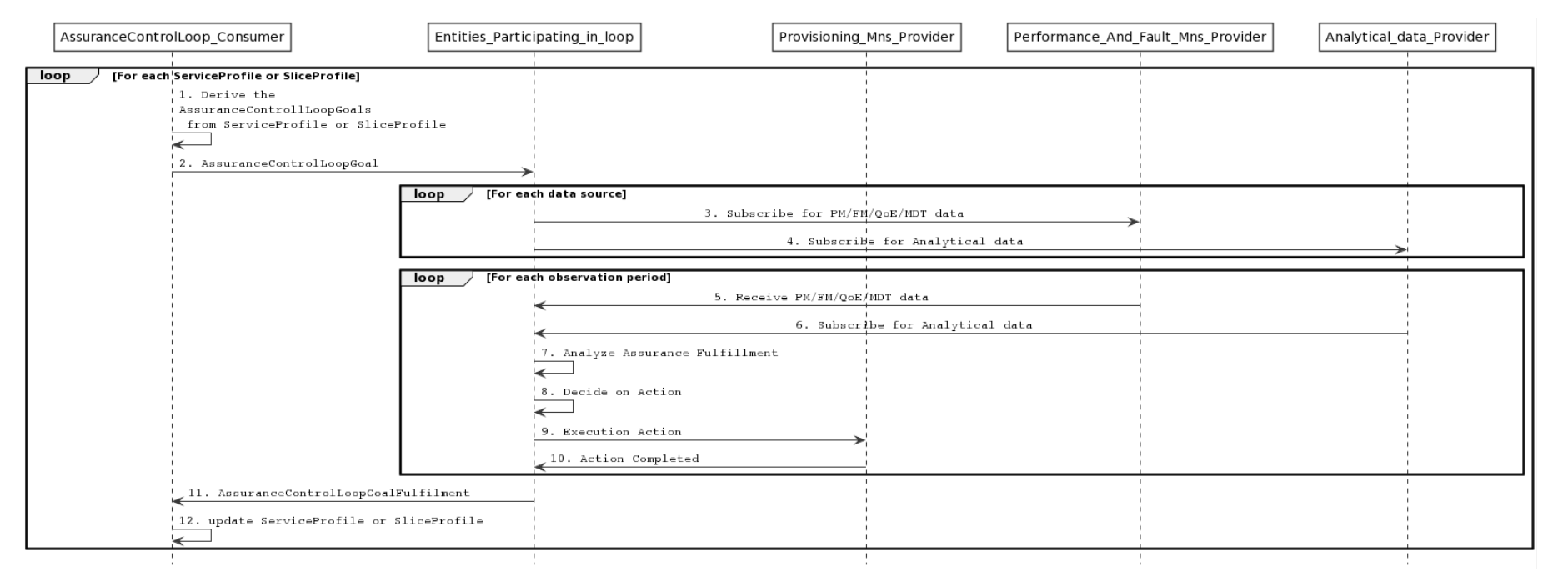


Figure 4.1.3.1.1 SLS assurance procedure

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 of TS 28.532 [7].

NOTE 1: 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.

3. 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 of TS 28.550 [3].

4. 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.

5. 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 of TS 28.550 [3].

6. 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 of TS 29.520 [11] is used.

7. Entities\_Participating\_in\_loop assesses if the AssuranceControlLoopGoal has been fulfilled.

8. Entities\_Participating\_in\_loop assesses if and which action to take in case the AssuranceControlLoopGoal has not been fulfilled.

9. As per the mitigation action (e.g., scale out) resources are changed, the generic provisioning management service as defined in clause 11.1 of TS 28.532 [7] is utilized for the same.

10. Action completed.

NOTE 2: The Entities\_Participating\_in\_loop continues to monitor and analyse the performance and perform the adjustment until the attribute(s) of SliceProfile is assured.

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

12. AssuranceControlLoop\_consumer may update ServiceProfile or SliceProflie based on QoE fulfilment information.

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| **end of changes** |