3GPP TSG SA WG5 Meeting 136-e S5-212302rev1

electronic meeting, online, 1 - 9 March 2021

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | 28.536 | **CR** | **0023** | **rev** | 0 | **Current version:** | **16.2.1** |  |
|  | | | | | | | | |
| *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 |  | Core Network |  |

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| ***Title:*** | Rel 16 Add explanation of entities in closed loop | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Lenovo, Motorola Mobility | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | COSLA | | | | |  | ***Date:*** | | | 2021-03-03 |
|  |  | | | |  | |  | | |  |
| ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | *“Entities participating in loop” is a vague term in TS28.536 that has never been explained.* | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add short paragraph explaining what the entitiy refers to. | | | | | | | | |
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| ***Consequences if not approved:*** | | The procedure will remain difficult to understand. | | | | | | | | |
|  | |  | | | | | | | | |
| ***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:*** | |  | | | | | | | | |

### 4.1.3 Procedures

#### 4.1.3.1 SLS Assurance Procedure



Figure 4.1.3.1.1 SLS assurance procedure

For the purpose of the procedure shown in Figure 4.1.3.1.1 “entities participating in the loop” refers to any entity in the 3GPP management system responsible for the functioning of an ACCL to ensure the AssuranceControlLoopGoal required by an AssuranceControlLoop\_Consumer.

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 of TS 29.520 [11] 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].