**3GPP TSG-SA5 Meeting #133e S5-205053**

**e-meeting 12th 21st October 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **28.536** | **CR** | **0008** | **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 references to other specifications | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI16 | | | | |  | ***Date:*** | | | 2020-10-02 |
|  |  | | | |  | |  | | |  |
| ***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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The specification contains some invalid references. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add the missing references. | | | | | | | | |
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| ***Consequences if not approved:*** | | Incomplete specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.1.2.1.1, 4.1.2.3.2.1, 4.1.3.1, B.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 Change** |

##### 4.1.2.1.1 Imported information entities and local labels

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| Label reference | Local label |
| TS 28.622 [5], IOC, Top | Top |
| TS 28.622 [5], IOC, SubNetwork | SubNetwork |
| TS 28.622 [5], ProxyClass, ManagedEntity | ManagedEntity |
| TS 28.541 [6], dataType, ServiceProfile | ServiceProfile |
| TS 28.541 [6], dataType, SliceProfile | SliceProfile |

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| **2nd Change** |

4.1.2.3.2.1 Definition

This class represents the status of the controlLoopGoal at the end of an observationPeriod. The status can be reported as actual status and predicted status. Data that is monitored by an assuranceControlLoop and includes measurements [12] and KPI's [13] and predictions that are applicable to the assuranceControlLoopGoals.

An assuranceGoalStatus holds the value of the observation and where applicable the value of a prediction. Depending on the AssuranceGoal the type of the AssuranceGoalStatusObserved and AssuranceGoalStatusPredicted can be different for different AssuranceGoalStatus MOIs.

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| **3rd Change** |

#### 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 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].

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| **4th Change** |

# B.1 General

This annex contains the OpenAPI definition of the COSLA NRM in YAML format.

The Information Service (IS) of the COSLA NRM is defined in clause 4.

Mapping rules to produce the OpenAPI definition based on the IS are defined in TS 32.160 [10].

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| **End of changes** |