**3GPP TSG-SA5 Meeting #132e *S5-204357rev1***

**e-meeting 17th 28th August 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **28.535** | **CR** |  | **rev** |  | **Current version:** | **16.0.0** |  |
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| *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:*** | Add use case for limiting actions of an assurance loop | | | | | | | | | |
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| ***Source to WG:*** | Lenovo, Motorola Mobility | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eCOSLA | | | | |  | ***Date:*** | | | 7 Aug 2020 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | |  |
|  | *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:*** | | Operators must be offered various capabilities to manage the closed loops running in the operator environment. One such capability is the ability to disable or limit the set of action a closed loop can execute. | | | | | | | | |
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| ***Summary of change:*** | | Add new use case and requirement to disable execution of as set of actions of a closed loop | | | | | | | | |
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| ***Consequences if not approved:*** | | The capability of an operator to disable and coordinate actions across a closed loop across vendors may not be available. | | | | | | | | |
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| ***Clauses affected:*** | | 6.1.X(new), 6.2 | | | | | | | | |
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|  | | **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 XXX | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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| **1st Modified Section** |

# 6 Specification level use cases and requirements

## 6.1 Use cases

## 6.1.x Disabling subset of actions of an assurance loop

The goal of this use case is to provide the consumer of an assurance loop the ability to disable certain actions the assurance loop can execute. This renders the assurance loop unable of taking those actions.

Assurance loops manage a specific assurance goal related to a communication service SLS may execute various actions in the deployed operator network. There may be cases in which two or more assurance loops can execute the same or related set of actions on a managed entity. These assurance loops therefore may have the capability to cause a conflict in the functioning of the said managed entity. A coordinating entity (authorized common consumer of the two CL), for example, another closed loop or operator, should be able to configure the closed loops in a way that such occurrences are minimized. To coordinate the execution of multiple such assurance loops in the system the common authorized consumer of the assurance loop limits the set of actions of one of the assurance loops to avoid possible conflicts between the two or more assurance loops. For example: The consumer of an assurance loop may limit the assurance loop on executing actions that configure scaling an NF.

The 3GPP management system provides the ability to limit actions that an assurance loop can take. The assurance loop then notifies the assurance loop consumer in case there is a need to execute the disabled actions.

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| **2nd Modified Section** |

## 6.2 Requirements

**REQ-CSA-CON-01** The 3GPP management system shall have the capability to take actions for a set of communication services serving certain group of UEs based on the target SLS.

**REQ-CSA-CON-02** The 3GPP management system shall have the capability to collect service experience information.

**REQ-CSA-CON-03** The 3GPP management system shall have the capability to analyse the performance information related to the set of communication services serving certain group of UEs.

**REQ-CSA-CON-04** The 3GPP management system shall have the capability to modify the configuration parameters related to the set of communication services serving certain group of UEs.

**REQ-CSA-CON-05** The 3GPP management system shall have the capability to collect NSI related data from one or more 5GC NF(s).

NOTE 1: An example for NSI related data may be QoE data.

**REQ-CSA-CON-06** The 3GPP management system shall have the capability to derive which communication service is associated to the QoE data from the collected NSI related QoE data.

**REQ-CSA-CON-07** The 3GPP management system shall have the capability to ascertain SLS breach.

**REQ-CSA-CON-08** The 3GPP management system shall have the capability to perform the root cause analysis (e.g., identifying the underlying reason) for an SLS breach.

**REQ-CSA-CON-09** The 3GPP management system shall have the capability to take corrective actions against the root cause identified.

**REQ-CSA-CON-10** The 3GPP management system shall have the capability to translate communicate service requirements to cross domain SLS goal and single domain SLS goal.

**REQ-CSA-CON-11** The 3GPP management system shall have the capability to collect single domain SLS analysis as input to cross domain SLS analysis.

**REQ-CSA-CON-12** The 3GPP management system shall have the capability to allow its authorized consumer to control the SLS assurance (e.g. specify the SLS to be assured, enable/disable, specify the assurance time and update the SLS assurance requirements).

**REQ-CSA-CON-13** The 3GPP management system shall have the capability to allow its authorized consumer to obtain the SLS assurance progress information and fulfil information.

NOTE 2: The management system refers to the producer of management service for SLS assurance.

**REQ-CSA-CON-X** The 3GPP management system shall have the capability to allow its authorized consumer to disable a set of actions executable by an assurance loop.

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| **End of modifications** |