3GPP TSG SA WG5 Meeting 134-e **S5-206277**r1

**electronic meeting, online, 16th - 25th November 2020**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **28.535** | **CR** | 020 | **rev** | **0** | **Current version:** | **16.1.0** |  |
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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 |  | Core Network |  |

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| ***Title:*** | Rel17 CR 28.535 Add use case for temporarily disabling NWDAF | | | | | | | | | |
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| ***Source to WG:*** | Lenovo, Motorola Mobility, | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
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| ***Work item code:*** | eCOSLA | | | | |  | ***Date:*** | | | 2020-11-06 |
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| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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)* | |
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| ***Reason for change:*** | | Closed loops may configure changes that influence the CP or DP operation. However, the NWDAF in CP will continue to issue insights based on data collected over the network with the older configuration. In some cases therefore the insights issued by the NWDAF based on data collected prior to the new configuration maybe incorrect. Hence the closed loops in the OAM should issue a notification to invalidate insights generated by the NWDAF based on this data. | | | | | | | | |
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| ***Summary of change:*** | | Add new use case and requirements to enable disabling NWDAF insights. | | | | | | | | |
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| ***Consequences if not approved:*** | | 6.1.X(new), 6.2 | | | | | | | | |
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| ***Clauses affected:*** | |  | | | | | | | | |
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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 ... | | |
|  | |  | | | | | | | | |
| ***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 Coordination with NWDAF

The goal of this use case is to provide a means to coordinate the assurance closed loop actions in the management plane as well and the automation functionality in the control plane. An ACCL may make changes that affect the control or data plane in the 3GPP network. An instance of the NWDAF in the CP may continue providing insights based on data gathered by the OAM prior to such configuration. Such recommendation in the CP may now be inaccurate as the data they rely on doesn’t correspond to the new network configurations. An ACL in the 3GPP management system should therefore provide a notification to the appropriate NWDAF instances to invalidate particular analytics functionality (such as providing insights) based on data (KPI collection) prior to executing a new configuration.

The NWDAF collects data from the 3GPP management system. Based on a period of data collection it may perform certain analytics functionality such as issue certain insights to other NFs in the control plane (CP). Other NFs in the CP may take actions in the network based on such insights. ACCLs in the management plane may, however, independently execute changes to the control or user planes. In such a case the previous data (collected KPIs) used by the NWDAF no longer reflect the current state of the network and should not be used for analytics. The ACL should therefore be able to issue a notification to the appropriate NWDAF or NFs to invalidate all analytics functionality generated based on such data.

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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 be able to enable or diable certain analytics functionality performed by the NWDAF associated to certain collected KPIs.

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| **End of modifications** |