3GPP TSG SA WG5 Meeting 136-e TDoc S5-212295

electronic meeting, online, 1 - 9 March 2021

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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:*** | Remove use cases clause 5.1.3 and 5.1.4 | | | | | | | | | |
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| ***Source to WG:*** | S5 | | | | | | | | | |
| ***Source to TSG:*** | Ericsson LM, Deutsche Telekom AG, Huawei | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | COSLA | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***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)* | |
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| ***Reason for change:*** | | Some use cases and requirements where not addressed in Rel-16 | | | | | | | | |
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| ***Summary of change:*** | | The clause in 5.1.3 for “Obtaining resource requirements for a communication service” has been removed  The clause in 5.1.4 for “Interaction with core network for service assurance” has been removed | | | | | | | | |
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| ***Consequences if not approved:*** | | Stage 2 and 3 are not aligned with the use cases and requirements | | | | | | | | |
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| ***Clauses affected:*** | | 5.1.3 (voided), 5.1.4 (voided) | | | | | | | | |
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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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| **First change** |

# 5 Business level use cases and requirements

## 5.1 Use cases

### 5.1.1 Communication service assurance

The CSP wants to meet the CSC expectations on automation as well as internal goals on CAPEX and OPEX efficiency.

The CSP has access to capabilities, procedures and tools that can address both CAPEX and OPEX in the provisioning and management of communication services to their customers (CSC). The CSC expects the CSP to offer a variety of communication services including business critical communication services that allow the CSC (e.g. Enterprise) to run their applications in a predictable manner [2]. Hence automation of the on-boarding of the CSC application, which will use communication services provided by the CSP, on a 5GS, is a requirement to meet the following needs:

- reduce the complexity for a CSC application to be on-boarded on a 5GS;

- improve the network performance over time, based on predicting communication service behaviour;

- reduce the cost ownership through automation.

During the operation of the communication service the CSP provides assurance of service quality expectation and CSP meets the CSC expectations on automation as well as internal goals on CAPEX and OPEX efficiency.

**REQ-CSA\_CSA-FUN-01** The CSP shall be able to provide a statement of CS requirements to a 5GS and receive capability information about these from the 5GS.

**REQ-CSA\_CSA-FUN-02** The 5GS shall have the capabilities to monitor, and report to CSP the fulfilment of committed CS requirements and actions taken to adjust for deviations.

**REQ-CSA\_CSA-FUN-03** The 5GS shall have the capabilities to monitor and report to CSP actions taken to adjust deviations on committed CS requirements.

**REQ-CSA\_CSA-FUN-04** The 5GS shall have the capability to provide in-operation assurance of service quality expectation.

**REQ-CSA\_CSA-FUN-05** The 5GS shall have the capability to ensure the service quality requirements during the service operations.

### 5.1.2 Communication service assurance for shared resources

A CSP network where at least one eMBB service is operating, providing services to end-users. A CSC requests from the CSP Order Care a new eMBB service (or any other communication service) for business-critical application(s), submitting an initial proposed communication service SLA. The management system assists CSP Order Care with analysis of the proposed SLA and, when SLA is committed, works together with NF's to ensure communication service SLA goals and optimal use of resources for previous as well as the new communication service(s).

In this scenario, it is assumed that the SLA's for the two communication services will allow for them to share resources, for example RAN and TN resources.

The management systems CS-Assurance service receives the request from Order Care and using a MDAS CS preparation assistance service, explores and evaluates communication service realisation and impact on other communication services, if any.

Once the Order Care has committed to an SLA with a CSC, the management system activates the communication service.

As the communication service operates, a management service for communication service assurance, CSA, continuously monitors the SLA fulfilment using MDAS, PM assurance services [3] including and core network NwDAF QoE analytics service, if available.

Based on goals for SLA fulfilment, or other KPIs, the CSA service may initiate an action when SLA goals are not met, be that over- or under fulfilment. The CSA service may use an MDAS to assist in selecting proper action and how to best execute the action.

The CSA service triggers the action by using provisioning service [4] towards RAN, transport and core network and monitors the effect of the change.

REQ-CSIA\_CON-01: The 3GPP management system shall have the capability providing a management service for assisting in assessing (evaluating) a proposed SLA for a requested communication service.

REQ-CSIA\_CON-02: The 3GPP management system shall have the capability providing a management service for assisting in asserting an agreed SLA for a requested communication service.

REQ-CSIA\_CON-03: The 3GPP management system shall have the capability to process 5GS data and provide analytics services to its consumers.

### 5.1.3 Void

### 5.1.4 Void

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| **End of changes** |