**3GPP TSG-SA3 Meeting #98e S3-200210**

**e-meeting, 2 – 6 March 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.117** | **CR** | **0057** | **rev** | **1** | **Current version:** | **16.3.0** |  |
|  | | | | | | | | |
| *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 |  | Core Network | **X** |

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| ***Title:*** | Clarification on the clause 4.3.6.4 according to TS 29.501 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, Hisilicon | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | SCAS\_5G | | | | |  | ***Date:*** | | | 2020-02-21 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | As suggested in the SECAM, functional test steps specified in clause 4.3.6.4 are not needed, that shall be removed. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Remove the functional test steps specified in clause 4.3.6.4 | | | | | | | | |
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| ***Consequences if not approved:*** | | Not align with the requirements defind in SECAM TS 33.916. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.3.6.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  |  | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\*\*\* BEGIN CHANGES \*\*\*

#### 4.3.6.4 The valid format and range of values for IEs

*Requirement Name*: Validation of the IEs limits.

*Requirement Reference:* 3GPP TS 29.501 Principles and Guidelines for Services Definition [13], clause 6.2

*Requirement Description*: "The valid format and range of values for each IE, when applicable, shall be defined unambiguously:

- For each message the number of leaf IEs shall not exceed 16000.

- The maximum size of the JSON body of any HTTP request/response shall not exceed 2 million bytes.

- The maximum nesting depth of leaves shall not exceed 32."

*Threat References*: TR 33.926 [4], clause 6.3.2.2, JSON Parser not Robust

*Test Case*:

NOTE: This requirement can also be verified as part of Robustness and Protocol fuzzing tests as defined in clause 4.4.4 Robustness and fuzz testing according to referenced requirements.

**Purpose:**

Verify that the API implementation fullfills the requirements as specified in 29.501[13], clause 6.2.

**Pre-Conditions:**

Test environment with network product under test. Rest of the network may be simulated.

**Execution Steps**

1) The test equipment sends requests with out of bounds IEs towards the network product under test.

**Expected Results:**

- Network product under tests responses with an error message.

**Expected format of evidence:**

A testing report provided by the testing agency which will consist of the following information:

- The used tool(s) name and version information,

- Settings and configurations used.

- The output log file of the chosen tool that displays the results (passed/failed).

- Test result (Passed or not).

- Log/evidence tracing possible crashes.

- Information of any input causing unspecified, undocumented, or unexpected behaviour.

\*\* END OF CHANGES \*\*\*