**3GPP TSG-SA3 Meeting #114-e *S3-240073-r2***

**Electronic meeting, online, -**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** | **0176** | **rev** | **2** | **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 |  | Core Network |  |

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| ***Title:***  | Updates to Section 4.3.6.3 of TS 33.117 for clarification |
|  |  |
| ***Source to WG:*** | IIT Bombay |
| ***Source to TSG:*** | SA3 |
|  |  |
| ***Work item code:*** | SCAS\_5G\_Ph3 |  | ***Date:*** | 2024-1-24 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***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 canbe 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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | Basic corrections to align TS 33.117 to address the feedback from GSMA NESAS group (S3-234423). |
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| ***Summary of change:*** | Few changes and additions to ensure test case has more clarification in pre-conditions and execution steps based on inputs from GSMA NESAS group. The proposed changes to be incorporated into ongoing development of Release 18 versions. |
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| ***Consequences if not approved:*** | Unclear text in test case. |
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| ***Clauses affected:*** | 4.3.6.3 |
|  |  |
|  | **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:*** |  |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of 1st Change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

4.3.6.3 Unique key values in Information Elements(IEs)

*Requirement Name*: Validation of the unique key values in IEs.

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

*Requirement Description*: "For data structures where values are accessible using names (sometimes referred to as keys), e.g. a JSON object, the name shall be unique. The occurrence of the same name (or key) twice within such a structure shall be an error and the message shall be rejected”.

*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 shall have a tester machine with network product under test. A tester machine shall be capable for sending HTTP requests with keys (valid and duplicate) in message IE payload to test the network product under test. Rest of the network and network products may be simulated.

**Execution Steps**

1) The test equipment sends HTTP requests with duplicate keys in message IE payload to the network product under test.

2) The test equipment sends valid requests to network product under test

**Expected Results:**

1) Network product under tests responses with an error message

2) Network product under test still responses normally to valid requests

**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 1st Change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*