**3GPP TSG-SA3 Meeting #114-e *S3-240074-r4***

**Electronic meeting, online, -**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **0177** | **rev** | **4** | **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 4.3.6.4 of TS 33.117 for clarification | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | IIT Bombay | | | | | | | | | |
| ***Source to TSG:*** | SA3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | SCAS\_5G\_Ph3 | | | | |  | ***Date:*** | | | 2024-1-25 |
|  |  | | | |  | |  | | |  |
| ***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 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-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:*** | | 4.3.6.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

4.3.6.4 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 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 1: 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 so that the tester is able to send HTTP requests with “out of bound IEs” towards the network product under test. Rest of the network may be simulated.

NOTE 2: IEs having invalid format and/or not in the defined range of values can be considered as out of bound IEs.

**Execution Steps**

1) The test equipment sends HTTP 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 1st Change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*