**3GPP TSG-SA3 Meeting #114e ad-hoc *S3-240068-r1***

**Electronic meeting, online, 22 - 26 January 2024**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** | **1** | **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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Growing content shall not influence system functions | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | \_5G\_Ph3 | | | | |  | ***Date:*** | | | 2024-01-15 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Correction to text to remove subjectivity. “sufficient” is not defined. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Correction to text. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Unclear test specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.2.4.1.1.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\*\*\* 1st CHANGE \*\*\*

4.2.4.1.1.1 Handling of growing content

*Requirement Name*: Handling of growing content.

*Requirement Reference*: In accordance with industry best practice

*Requirement Description*:

Growing or dynamic content (e.g. log files, uploads) shall not influence system functions. A file system that reaches its maximum capacity shall not stop a system from operating properly. Therefore, countermeasures shall be taken such as usage of dedicated filesystems, separated from main system functions, or quotas, or at least a file system monitoring to ensure that this scenario is avoided.

*Threat References*: TR 33.926 [4]

*Test Case*:

**Test Name: TC\_HANDLING\_OF\_GROWING\_CONTENT**

**Purpose:**

To verify that the growing or dynamic content does not influence system functions.

**Procedure and execution steps:**

**Pre-Conditions:**

1. Growing or dynamic content sources like e.g. log files and their paths are documented.

2. Measures that are taken to protect system functions from growing or dynamic content that can exhaust file system capacity are documented.

3. All logging capabilities that are not enabled by default are enabled manually as per the documentation instructions.

**Execution Steps**

1. Tester checks that the sources that are susceptible to being exhausted have been documented and measures aimed to counteract this are described.

2. Tester enables monitoring of the system operation.

3. Tester initiates traffic that causes increase of log files and monitors the system behaviour until the log file either reaches its quota or until file system is exhausted.

4. In case file uploading is allowed (e.g. via SFTP) the tester initiates file uploading and tries to exhaust the file system.

**Expected Results:**

1. It is verified that system operation is not influenced by growing or dynamic content at any case.

**Expected format of evidence:**

System monitoring data (e.g. Alarms, logs, CPU utilization, etc.).

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