**3GPP TSG-SA3 Meeting #114e *ad-hoc S3-240037-r1***

Electronic meeting, online, 22 - 26 January 2024

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.117** | **CR** | **0152** | **rev** | **1** | **Current version:** | **18.2.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Update to the clause 4.2.3.2.4 - Protecting data and information in transfer | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | SCAS | | | | |  | ***Date:*** | | | 2023-12-09 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | In the pre-conditions for test case TC\_PROTECT\_DATA\_INFO\_TRANSFER\_1 it is mentioned as follows:  “For TLS/DTLS, the tester shall base the tests on the profile defined by 3GPP in TS 33.310 [9] and TS 33.210 [15]. For IKE and IPsec, the tester shall base the tests on the profile defined by 3GPP in TS 33.210 [15]. For protocols, for which 3GPP did not define a security profile, e.g. SSH, the tester shall base the tests on a widely recognised and publicly available security profile.”  According to NESAS the term “Widely recognised” is a subjective term. As these security profiles are not defined by 3GPP we can leave it upto the tester which security profile to be used to perform the test case. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | To clarify further the following changes can be done:  “For TLS/DTLS, the tester shall base the tests on the profile defined by 3GPP in TS 33.310 [9] and TS 33.210 [15]. For IKE and IPsec, the tester shall base the tests on the profile defined by 3GPP in TS 33.210 [15]. For protocols, for which 3GPP did not define a security profile, e.g. SSH, the tester shall base the tests on a publicly available security profile.” | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Unclear test cases in TS 33.117. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.2.3.2.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 Change \*\*\*\*\*\*\*\*\*\*\*\*\*

4.2.3.2.4 Protecting data and information in transfer

*Requirement Name*: Protecting data and information in transfer

Requirement Reference: In accordance with industry best practice

*Requirement Description*:

- Usage of cryptographically protected network protocols is required.

- The transmission of data with a need of protection shall use industry standard network protocols with sufficient security measures and industry accepted algorithms. In particular, a protocol version without known vulnerabilities or a secure alternative shall be used.

*Threat References: TR 33.926 [4]Test case*:

**Test Name:** TC\_PROTECT\_DATA\_INFO\_TRANSFER\_1

**Purpose:**

Verify the mechanisms implemented to protect data and information in transfer to and from the Network Product's O&M interface.

NOTE: The test is limited to the O&M interface although the requirement does not have this limitation because the protection of standardised interfaces will be covered by regular interoperability testing and the proprietary use of HTTPS is covered in clause 4.2.5.1.

**Procedure and execution steps:**

**Pre-Conditions:**

Network product documentation containing information about supported O&M protocols is provided by the vendor,

A peer implementing the security protocol configured by the vendor (e.g SSH client supporting SSHv2 or HTTPS client) shall be available.

Network product documentation stating which security protocols for protection of data in transit are implemented and which profiles in TS 33.310 [9] and TS 33.210 [15] are applicable is provided by the vendor

For TLS/DTLS, the tester shall base the tests on the profile defined by 3GPP in TS 33.310 [9] and TS 33.210 [15]. For IKE and IPsec, the tester shall base the tests on the profile defined by 3GPP in TS 33.210 [15]. For protocols, for which 3GPP did not define a security profile, e.g. SSH, the tester shall base the tests on a publicly available security profile.

**Execution Steps**

1. The tester shall check that compliance with the selected security profile can be inferred from detailed provisions in the product documentation.

2. The tester shall check that the default security parameters are the same as those stated in the product documentation.

3. The tester shall establish a secure connection between the network product and the peer and verify that all protocol versions and combinations of cryptographic algorithms that are mandated by the security profile are supported by the network product and the network product does not use the deprecated or unsecure protocol versions and algorithms.

4. The tester shall try to establish a secure connection between the network product and the peer and verify that this is not possible when the peer only offers a feature, including protocol version and combination of cryptographic algorithms, that is forbidden by the security profile.

**Expected Results:**

The traffic is properly protected, and insecure options are not accepted by the Network Product.

**Expected format of evidence:**

Provide evidence of the check of the product documentation in plain text. Save the logs and the communication flow in a .pcap file.

\*\*\*\*\*\*\*\*\*\*\*\*\* End of Change \*\*\*\*\*\*\*\*\*\*\*\*\*