**3GPP TSG-SA3 Meeting #104-e *S3-212459***

**e-meeting, 16 - 27 August 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **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 | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | Correction of message name in SMF | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Keysight Technologies | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | SCAS\_5G | | | | |  | ***Date:*** | | | 2021-07-16 |
|  |  | | | |  | |  | | |  |
| ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In the test case TC\_UP\_SECURITY\_POLICY\_SMF there is a wrong message name. The message *Nsmf\_PDUSession\_SMContextUpdate* does not exists. The correct name is *Nsmf\_PDUSession\_UpdateSMContext* | | | | | | | | |
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| ***Summary of change:*** | | Correction in a message name | | | | | | | | |
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| ***Consequences if not approved:*** | | Incorrect specification in the test case. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.2.2.1.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 Change \*\*\*

##### 4.2.2.1.3 Security functional requirements on the SMF checking UP security policy

*Requirement Name:* UP security policy check.

*Requirement Reference:* TS 33.501 [8], clause 6.6.1

*Requirement Description:*

"The SMF shall verify that the UE's UP security policy received from the target ng-eNB/gNB is the same as the UE's UP security policy that the SMF has locally stored. If there is a mismatch, the SMF shall send its locally stored UE's UP security policy of the corresponding PDU sessions to the target gNB. This UP security policy information, if included by the SMF, is delivered to the target ng-eNB/gNB in the Path-Switch Acknowledge message. The SMF shall log capabilities for this event and may take additional measures, such as raising an alarm. "

*Threat References:* TR 33.926 [4], clause J.2.2.4, Unchecked UP security policy.

**TEST CASE:**

**Test Name:** TC\_UP\_SECURITY\_POLICY \_SMF

**Purpose:**

Verify that the SMF checks the UP security policy that is sent by the ng-eNB/gNB during handover.

**Pre-Conditions:**

The SMF under test is preconfigured with a UE UP security policy.

**Execution**

1. The tester sends the Nsmf\_PDUSession\_UpdateSmContext Request message to the SMF under test. A UE UP security policy different than the one preconfigured at the SMF under test is included in the Request message.

2. The tester captures the Nsmf\_PDUSession\_UpdateSmContext Response message sent from the SMF under test.

**Expected Results:**

The preconfigured UE security policy is contained in the ‘n2SmInf’ IE in the captured Response message.

**Expected format of evidence:**

Files containing the triggered GTP messages (e.g. pcap trace).

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