**3GPP TSG-SA3 Meeting #108-e *S3-221754***

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| *CR-Form-v12.2* |
| **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)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  | New test case to cover the AAnF provisioning |
|  |  |
| ***Source to WG:*** | Keysight Technologies |
| ***Source to TSG:*** | S3 |
|  |  |
| ***Work item code:*** | \_Ph2 |  | ***Date:*** | 2022-08-12 |
|  |  |  |  |  |
| ***Category:*** |  |  | ***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 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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | New SCAS test case for AUSF |
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| ***Summary of change:*** | Added new test case to cover the provision of Key material to AAnF from the AUSF. The requirement is defined in TS 33.535 |
|  |  |
| ***Consequences if not approved:*** | Requirement not covered in the TS |
|  |  |
| ***Clauses affected:*** | 4.2.2, 4.2.2.X |
|  |  |
|  | **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 Security functional requirements on the AUSF deriving from 3GPP specifications and related test cases

The general approach in TS 33.117 [3] clause 4.2.2.1 and all the requirements and test cases in TS 33.117 [3] clause 4.2.2.2 related to SBA/SBI aspect apply to the AUSF network product class.

#### 4.2.2.X AKMA security material provision

*Requirement Name*: AKMA security material provision

*Requirement Reference:* TS 33.535 [X], clause 4.2.4

*Requirement Description*: "AUSF provides the SUPI and AKMA key material (A-KID,KAKMA) of the UE to the AAnF." as specified in TS 33.535 [X], clause 4.2.4

*Threat References*: TBD

*Test Case*:

**Test Name: TC\_AKMA\_SEC\_MATERIAL\_PROVISION**

**Purpose:**

Verify that the AUSF provides the SUPI and the AKMA key material of the UE to the AAnF.

**Pre-Conditions:**

Test environment with AUSF under test connected with AAnF.

AUSF is configured to work with AAnF.

AAnF and other elements not under test in the network could be simulated (AMF, gNB, UE, …).

**Execution Steps**

1) The tester triggers the UE attachment to the network.

2) AUSF receives the UE authentication information using Nausf\_Auth\_UEAuthentication request from AMF.

3) AUSF provides the SUPI and the AKMA material received in the step 2) to the AAnF using the Naanf\_AKMA\_RegisterAnchorkey.

**Expected Results:**

The AUSF provides the SUPI and AKMA material (A-KID and KAKMA) to the AAnF

**Expected format of evidence:**

Evidence suitable for the interface, e.g., Screenshot containing the operational results or network traffic.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*