**3GPP TSG-SA3 Meeting #115 *S3-240899-r1***

Athens, Greece, 26 Feb - 01 March 2024 (revision of S3-240291)

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **33.501** | **CR** | 1899 | **rev** |  | **Current version:** | **18.4.0** |  |
|  |
| *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)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME | **x** | Radio Access Network |  | Core Network | **x** |

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| ***Title:***  | Resolution of EN concerning the content of AN-parameters. |
|  |  |
| ***Source to WG:*** | **Nokia, Nokia Shanghai Bell, Ericsson, Huawei, HiSilicon, ZTE**  |
| ***Source to TSG:*** | S3 |
|  |  |
| ***Work item code:*** | eNPN\_Ph2 |  | ***Date:*** | 2023-01-21 |
|  |  |  |  |  |
| ***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 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)* |
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| ***Reason for change:*** | The change specifies how the random number is sent in the AN-parameters.  |
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| ***Summary of change:*** | EN removed and specified how the random number is transfer |
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| ***Consequences if not approved:*** | Unclear how the random number is transferred to the TNGF. |
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| ***Clauses affected:*** | Annex I.10.3.1 |
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|  | **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 CHANGES \*\*\*\***

### I.10.3.1 Trusted non-3GPP access support in SNPN without CH

Procedures for trusted non-3GPP access authentication are described in clause 7A.2.1. For SNPN the procedures are re-used with the following modifications:

Steps 0-4 are performed as described in clause 7A.2.1.

In step 5, the SUCI can be an onboarding SUCI.

Further in step 5, the SUCI carried in AN parameter and NAS-PDU can be of type anonymous SUCI if the construction of SUCI as described in clause 6.12 cannot be used and if the employed EAP method supports SUPI privacy. If anonymous SUCI is used, the UE shall include a 64-bit random number as part of the “username” in the anonymous SUCI which is used as UE identity element in the AN parameters. The random number generation should follow the recommendations given in SP 800-90A [110] or equivalent. If the UE provides a SUCI already stored in the TNGF, the UE will be rejected.

Step 6-7 is performed as described in clause 7A.2.1.

In step 8 of clause 7A.2.1, in case the AUSF receives an onboarding indication, the AUSF shall perform steps 6-10 and 14-17 as described in Annex I.2.2.2.

In the selection of UE authentication method in step 8 of clause 7A.2.1, 5G AKA, EAP-AKA’, or any other key-generating EAP authentication method apply. When the "username" part of the SUPI is "anonymous" or omitted, the UDM may select an authentication method based on the "realm" part of the SUPI or on the UDM local policy.

In case the AUSF received an anonymous SUCI in step 7 (but no onboarding indication was received) the AUSF shall perform steps 11-13 of Annex I.2.2.2 after a successful authentication to inform the UDM of the actual SUPI. In case anonymous SUCI and onboarding indication was received in step 7, steps 11-13 of Annex I.2.2.2 can be skipped.

Steps 9-19 are performed as described in clause 7A.2.1.

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