**3GPP TSG-SA3 Meeting #123 Draft S3-253017**

Goteborg, Sweden, 25 – 29 August 2025

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
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|  | **926** | **CR** |  | **rev** |  | **Current version:** |  |  |
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| *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 |  |

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| ***Title:***  | Introducing the threat to AMF which was approved but not implemented in 33.926 |
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| ***Source to WG:*** | Huawei, HiSilicon, CAICT |
| ***Source to TSG:*** | S3 |
|  |  |
| ***Work item code:*** | SCAS\_5GA |  | ***Date:*** | 2025-08-18 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-20 |
|  | *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:*** | A new threat ‘Failure to deregister UE after NSSAA revocation’ was approved by SA3, as shown in S3-212380, but not implemented in the published 33.926. This CR is to re-propose this threat. |
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| ***Summary of change:*** | Introducing the threat to AMF which was approved but not implemented. |
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| ***Consequences if not approved:*** | Low quality of SCAS documents. |
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| ***Clauses affected:*** | K.2.10 |
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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 ...  |
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| ***Other comments:*** | This threat is referred by S3-253032, please make sure the clause number are synchronized. |
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| ***This CR's revision history:*** |  |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* START of CHANGES\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## K.2.10 Threats related to session establishment procedure

### K.2.10.1 Incorrect validation of S-NSSAIs

- *Threat name*: Incorrect Validation of S-NSSAIs.

- *Threat category*: Elevation of Privilege.

- *Threat Description*: After the successful network slice-specific authentication and authorization, there will be an Allowed NSSAI list both in UE and AMF. Then, the UE will initiate the PDU session establishment request with the requested S-NSSAIs included. If the AMF does not verify whether the received S-NSSAIs is within the Allowed NSSAI list stored at the AMF, an attacker can still include the rejected S-NSSAIs in the request and access the slice after it fails the NSSAA procedure.

*- Threatened Asset:* Mobility management data, sufficient processing capacity.

### K.2.10.2 Failure to deregister UE after NSSAA revocation

- *Threat name:* Failure to deregister UE after NSSAA revocation.

- *Threat Category:* Resource misuse.

- *Threat Description:* AAA Server can initiate slice specific authorization revocation for a S-NSSAI, and after the revocation the AMF will remove the S-NSSAI from the Allowed NSSAI list. In the case where no S-NSSAI is left in Allowed NSSAI for an access after the revocation, and no Default NSSAI can be provided to the UE in the Allowed NSSAI or a previous NSSAA failed for the Default NSSAI over this access, if AMF fails to deregister the UE from the network, the UE will have unauthorized use of network slice.

- *Threatened Asset:* Sufficient Processing Capacity.\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* END of CHANGES\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*