**3GPP TSG-SA3 Meeting #110Ad-Hoc-e *draft\_S3-231778-r1***

**Electronic meeting, Online, 17 - 21 April 2023**

**Title: [**Draft] **LS on ProSe Secondary Authentication**

**Response to:**

**Release: Rel-18**

**Work Item: PROSESA**

**Source: Interdigital to be SA3**

**To: SA2**

**Cc: CT1**

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**Attachments:** draftCR (not agreed)

# 1 Overall description

SA3 is discussing the support of ProSe Secondary Authentication.

SA3 has progressed the work for the support of ProSe Secondary Authentication as per the attached Draft CR.

Per **[S3-222462](https://www.3gpp.org/ftp/TSG_SA/WG3_Security/TSGS3_108e-AdHoc/Docs/S3-222462.zip)/****[S2-2207838](https://www.3gpp.org/ftp/tsg_sa/WG2_Arch/TSGS2_152E_Electronic_2022-08/Docs/S2-2207838.zip" \t "_blank)**, SA3 understands that the support of ProSe Secondary Authentication has implication to the 5GS architecture and procedures and collaboration with SA2 is required, and therefore would like to get feedback on the attached draft CR(s) (not agreed yet).

Are there any architectural or procedural aspects that SA2 would like to comment on the draft CR?

SA3 also has the following questions to SA2 in Q1-Q5 below:

Q1. Is it required that a DNN dedicated for UE-to-Network Relay service i.e. associated a RSC shall be configured in the subscription data of a 5G ProSe capable UE when acting as a Remote UE?

Q2a. If the answer to Q1 is yes, is it possible that the dedicated DNN can be used by the UE for both direct network connectivity when acting as a regular UE and L3 UE-to-network relay connectivity when acting as a Remote UE?

Q2b. If the answer to Q1 is yes, what is the architecture assumption on the DN deployment (e.g. DN-AAA address configured in the subscription data) for the relay traffic in case the Remote UE and the Relay UE are from different PLMNs?

Q2c. If the answer to Q1 is no, is there a need to perform specific DN level authorization for the L3 UE-to-network relay connectivity for the 5G ProSe capable UE when acting as a Remote UE?

Q3, The draft CR assumes the Relay UE is configured with information to trigger a secondary authentication for a Remote UE. And after a successful PC5 security establishment the Relay UE sends a Direct Communication Accept message to the remote UE with an indication that the Remote UE shall not send any traffic over L3 UE-to-network relay connectivity until further notification from the relay UE. Is SA2 fine with such approach or are there any architectural or procedural aspects which SA2 would like to comment on?

Q4a, The draft CR assumes the Remote UE report procedure is used by the relay UE to trigger SMF to initiate a secondary authentication of the Remote UE. Is SA2 fine with such an approach or are there any architectural or procedural aspects which SA2 would like to comment on?

Q4b, The existing Remote UE report procedure allows a relay UE to include several Remote User IDs in the Remote UE report message. Is it possible that the Relay UE can trigger SMF to initiate a secondary authentication for one specific UE if multiple Remote User IDs are included in the same Remote UE report message?

Q5a, If yes to Q2c, does the SMF use the same session established with DN-AAA for the secondary authentication of the Relay UE, or whether the SMF should establish a new session with DN-AAA for each Remote UE that is subject to DN level authorization?

Q5b, If the SMF should establish a new session for each Remote UE that is subject to DN level authorization with DN-AAA, how would the interactions between SMF and DN-AAA be like for each remote UE, e.g. regarding UE IP address/MAC notifications, DN authorization information from DN-AAA?

# 2 Actions

**To SA2:**

**ACTION:** SA3 kindly asks SA2 to provide feedback on the draft CR and answer the questions Q1-Q5 above.

# 3 Dates of next TSG SA WG 3 meetings

SA3#111 22 - 26 May 2023 Berlin, DE

SA3#112 14 - 18 August 2023 Göteborg, SE