3GPP TSG-SA3 Meeting #103-Bis-e S3-21xxxx

e-meeting, 17th - 28th May 2021

**Title:** **[DRAFT] LS on Secondary authentication during Edge Data Network change**

**Release: Rel-17**

**Work Item: Study on Security Aspects of Enhancement of Support for Edge Computing in 5GC (FS\_eEDGE\_Sec)**

**Source: SA3**

**To:** **SA2**

**Cc: CT1, CT3**

**Contact person: Bo Zhang**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

**Attachments:** none

# 1 Overall description

SA3 has discussed the secondary authentication for Edge Data Network (EDN) change scenarios in the Key issue #10 of TR 33.839, and has the concerns on the seamless change from the security point of view

Q1: For the Distributed anchor point and Multiple sessions models, a new PDU session will be established for the Target EDN with the same edge computing service. Whether the new secondary authentication between UE and target EDN will impact the seamless change required by SA2? SA3 would like to avoid the new secondary authentication if the secondary authentication is already performed between UE and the original EDN.

Q2: For the Session breakout scenario, it is proposed the SMF decides whether to initiate the secondary authentication with the local EDN, or not. Otherwise, any PDU session would consume the services from the local EDN by adding a new Anchor point without authorization. SA3 would like to know whether the new secondary authentication between UE and local EDN will impact the seamless change required by SA2.

Q3: If the answer to Q2 is no impact, SA3 has another enhancement on the session breakout case. Existing procedures already allow re-authentication during the lifetime of a PDU session. However, SA3 does not describe the case that a new secondary authentication may be performed when a new Anchor point is added. Hence SA3 has discussed the following solution: The SMF triggers secondary authentication (not re-authentication) at the addition of the new Anchor Point, during the lifetime of the PDU session. This solution has minimal impact on SMF behaviour and does not seem to have impact on UE behaviour. SA3 would like to know whether SA2 agrees with the proposed solution.

# 2 Actions

**To SA2**

**ACTION:**  SA3 kindly asks SA2 to answer the above 3 questions, and intends to perform the necessary changes to specifications under SA2's remit.

# 3 Dates of next TSG SA WG 3 meetings

SA3#103Bis-e 5 - 9 July 2021 Electronic meeting (TBC)

SA3#104-e 16 - 27 August 2021 Electronic meeting