**3GPP TSG-SA3 Meeting #102e *S3-210185***

**e-meeting, 18 – 29 January 2021**

**Source: CATT**

**Title: Remove EN in Solution #6 in TR 33.839**

**Document for: Approval**

**Agenda Item: 5.8**

# 1 Decision/action requested

***It is proposed to remove the EN in Solution #6. SA3 is kindly requested to approve this contribution.***

# 2 References

[1] 3GPP TR 33.839, v0.3.0

# 3 Rationale

In the current solution#6, there is an EN on whether the secondary authentication is performed. This pCR proposes to remove the EN.

In the edge computing scenario, for the current Solution #6, secondary authentication will be a prerequisite for the server and the UE to supporting.

So this pCR proposes to remove the EN.

# 4 Detailed proposal

\*\*\*\*\*\* FIRST OF CHANGE \*\*\*\*\*\*\*\*\*

### 6.6.2 Solution details



Figure 6.6.2-1 Authentication and Authorization between the EEC and the EES

For this solution implement, there is a prerequisite: both the UE and the ECS shall support the secondary authentication.

The procedure assumes that the Edge Data Network is deployed by the ECSP. Both the ECS and the EES stores the mapping between the EEC ID and GPSI for each EEC. The ECS will store the allowed EES list and the subscription expiration time.

Editor’s Note: It is ffs whether the ECS and the EES can obtain a mapping between the EEC ID and GPSI for each EEC.

1. The UE registers in the operator network and perform the primary authentication procedure.

2. When the UE trigger the edge service it sends the PDU session establishment request to the AMF to setup the PDU session for the services provided by Edge Data Network.

3-4. The steps 3, 4 are the same as steps 5a-5b in clause 11.1.2 of TS 33.501[7]. The secondary authentication procedure is required to perform if the SMF check the UE has not been authenticated and authorized by the ECS. The ECS is the authentication server of the Edge Data Network.

6. This step is the same as steps 8-15 in clause 11.1.2 of TS 33.501[7].

7. After the successful completion of the authentication procedure, the ECS sends EAP Success message to the SMF including the address information of Edge Enabler Server and the GPSI.

8. The SMF sends a Namf\_Communication\_N1N2MessageTransfer to the AMF with the received information.

9. The AMF forwards NAS SM PDU Session Establishment Response message along with EAP Success, the address information of suitable Edge Enabler Server and the GPSI to the UE/EEC.

10. The EEC sends Edge Enabler Client registration request to the EES.

11. The EES should verify the mapping between the EEC ID and GPSI. Then the EES requests to validate the authorization of the EEC from the ECS with the EEC ID. The ECS will check whether the EEC has been authorized to access to the EES for edge computing service with GPSI corresponding to the EEC ID.

12. If the EEC is authorized, the ECS responses to the EES with the service authorization response message.

13. After successful service authorization verification, the EES sends Edge Enabler Client registration response to the EEC.

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