**3GPP TSG-SA3 Meeting #115 *S3-240831***

Athens, Greece, 26th February - 1st March 2024

**Title: LS on Reply LS to CT4 on** **clarification on home network triggered re-authentication**

**Response to: LS <C4-235577> on clarification on home network triggered re-authentication**

**Release: Rel-18**

**Work Item: HN\_Auth**

**Source: Huawei to be SA3**

**To: CT4**

**Cc:**

**Contact person: He Li**

**LIHE2@huawei.com**

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

**Attachments:** None

# 1 Overall description

SA3 would like thanks to CT4 for the questions. Please find the answer in below.

**Question1:** Should the above user cases be considered as valid failure cases?

**Answer1:**

From an SA3 perspective, the AMF will respond either with an acknowledgement message or a failure message.

The acknowledgement message is to tell the UDM that the AMF is currently handling or will initiate the primary authentication. The response message is used to tell the UDM that the AMF will not initiate the primary authentication based on the request.

With respect to the specific Questions asked by the incoming LS, below are the provided responses.

From SA3 perspective, case 2 shall be treated as failure case, the (source) AMF informs the UDM that there is an ongoing HO/Mobility registration.

Case 3 is not clear to SA3. In any case for cases 1, 3 and 4, the AMF receiving the authentication notification message sends acknowledgement response message to the UDM.

For case 5 it is up to the AMF local implementation whether to acknowledge the request (e.g. AMF may have planned paging of UE) or send an error back to UDM to trigger the UDM to take immediate action as already specified in 33.501, 6.1.5 (e.g. try AMF of another access.

**Question2**: Does SA3 see any need of differentiated handling in the UDM in each failure case? Or, what’s the expected UDM behaviour from the SA3 point of view?

**Answer2:** From SA3 perspective, when UDM requests to authenticate the UE, it means a situation that can only be addressed by authenticating the UE. The UDM handles the cases of the acknowledgement and the failure according to the existing specification in 33.501, 6.1.5. Currently, SA3 does not see there is any difference in handling the different failure cases in the existing specification. If CT4 sees the need, please take the above principle into account.

# 2 Actions

**To CT4**

**ACTION:** Please take the above information into account.

# 3 Dates of next TSG SA WG 3 meetings

SA3#115AdHoc-e 15 - 19 April 2024 Electronic meeting

SA3#116 20 - 24 May 2024 Jeju (South Korea)

SA3#117 19 - 23 August 2024 Maastricht (Netherlands)