3GPP TSG SA WG 3 Meeting SA3#104e S3-213170-r1

Electronic meeting, Online, 16 - 27 August 2021

**Title:** [Draft] LS on Home Network triggered re-authentication

**Release:** Release-17

**Work Item:** TEI17

**Source:** SA3

**To:** CT4

**Cc:** -

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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 been discussing to specify a procedure, which allows the home network (particularly UDM and/or AUSF) to trigger re-authentication procedure, whenever the home network needs to refresh the key KAUSF. SA3 has identified certain scenarios (like, refresh of AKMA Key (KAKMA/KAF), SoR/UPU Count wrap-around, long living KAUSF) that requires refresh of the key KAUSF.

Key KAUSF that is shared between the UE and the home network, is refreshed when primary authentication procedure is performed successfully. It is SA3 understanding that, while the UE can refresh the key KAUSF by sending the ngKSI with value "111" to the AMF, but the UDM/AUSF doesn't have a procedure of triggering re-authentication of the UE to refresh KAUSF.

SA3 is aware of the application error *(REAUTHENTICATION\_REQUIRED)* specified in TS 29.503, where the error response returned by the UDM services to the AMF indicates that the UE needs to be re-authenticated. SA3 understanding is that this application error is provided in response to a request from the AMF and it is not provided by the UDM without a request from the AMF.

SA3 would like to ask CT4:

1) Is it possible for the UDM to send the application error *(REAUTHENTICATION\_REQUIRED)* to the AMF without a request from the AMF.

2) Whether CT4 has already specified any procedure that allows the home network (particularly UDM and/or AUSF) to trigger re-authentication procedure.

# 2 Actions

**To CT4**

**ACTION:** SA3 kindly asks CT4:

**Q1**. Is it possible for the UDM to send the application error (REAUTHENTICATION\_REQUIRED) to the AMF without a request from the AMF.

**Q2**. To inform whether CT4 has already specified any procedure that allows the home network (particularly UDM and/or AUSF) to trigger re-authentication.

# 3 Dates of next TSG SA WG 3 meetings

Please see the SA3 link from the 3GPP calendar page at <https://portal.3gpp.org/Home.aspx?tbid=386&SubTB=386#/>