**3GPP TSG-SA3 Meeting #104-e *S3-212723r1***

e-meeting, 16 - 27 August 2021

**Title: [draft] Reply LS for clarification on managing expired or multiple Protection Scheme and Home Network keys used for SUCI calculation.**

**Response to: LS S3-212429/C6-210180 on clarification on managing expired or multiple Protection Scheme and Home Network keys used for SUCI calculation. from CT6**

**Release:** **Rel-17**

**Work Item: TEI17**

**Source:** **NTT DOCOMO (to be SA3)**

**To:** **CT6**

**Cc:** **SA1**

**Contact person: Alf Zugenmaier, NTT DOCOMO**

**zugenmai@hm.edu**

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

# 1 Overall description

SA3 would like to thank CT6 for their LS S3-212429/C6-210180 on clarification on managing expired or multiple Protection Scheme and Home Network keys used for SUCI calculation.

*1) How 5GS network manages expired (or invalidated) Home network keys in such scenarios?*

SA3 would like to inform CT6 that there is no notion of expiry dates of Home network keys (unlike certificates, because the keys are raw keys). It is up to the Home network to decide when to invalidate or disable the Home network. The Home network may keep the keys for as long as required.

*i.e., is it expected for the expired key to continue to work till the OTA update is successful in future?*

Correct. The invalidated key is expected to continue to work until it is updated on the UICC, or until the network decides that subscriptions using the expired key may be terminated. Note that the Home network can configure Home network keys per subscriptions. So, some failed OTA does not prevent other USIMs from being updated.

*2) Is it possible for more than one Protection Schemes to be deployed & co-exist simultaneously on the UDM / network side for an user?*

SA3 would like to inform CT6 that co-existence of multiple protection schemes on the network side is possible.

# 2 Actions

**To CT6**

**ACTION:** SA3 kinldy requests CT6 to take the above into account.

# 3 Dates of next TSG SA WG 3 meetings

SA3#105 08 - 12 November 2021 Sophia Antipolis (not e-meeting according to 3GPP website – YEAH!)