**3GPP TSG-SA3 Meeting #103-e *draft\_S3-211510-r1***

e-meeting, 17 - 28 May 2021

**Title: Draft LS on Security risk evaluation of using long term key for another key derivation than AKA**

**Response to:**

**Release: Rel-17**

**Work Item: FS\_Auth\_Enh**

**Source:** **SA3**

**To: ETSI SAGE**

**Contact person: Ranga Dhanasekaran**

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

**Attachments:** none

# 1 Overall description

*SA3 has an ongoing study 3GPP TR 33.845 on potential authentication enhancements due to threats reported recently.*

*Solution #2.8 in clause 6.2.8 of 3GPP TR 33.845 suggests to use K during KSUCI derivation to derive a new key, which resulted within SA3 in discussion whether this imposes a security risk.*

*SA3 would like to request ETSI SAGE whether there is a security risk to derive a new key from the long-term key for any new purposes different from the ones already specified for AKA procedure and, in particular, in the context of solution #2.8.*

# 2 Actions

**To ETSI SAGE**

**ACTION:** SA3 asks ETSI SAGE to provide a response whether there is a security risk to derive a new key from the long-term key K.

# 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