**3GPP TSG-SA3 Meeting #104e** ***S3-212735***

**e-meeting, 16 - 27 August 2021**

**Source: Ericsson**

**Title: Change request to living document: Key hierarchy**

**Document for: Approval**

**Agenda Item: 4.17**

# 1 Decision/action requested

***Approve this contribution to be included in the eNPN draft CR for TS 33.501***

# 2 References

[1] -

# 3 Rationale

This document describes the normative text for clause I.2.2.2 "Credentials holder using AAA server for primary authentication" in the eNPN draft CR for TS 33.501.

# 4 Detailed proposal

\*\*\* BEGINNING OF CHANGES \*\*\*

### I.2.3.2 Credentials holder using AAA server for primary authentication

When running primary authentication towards an external Credentials holder using AAA server for authentication as specified in clause I.2.2.3 the derivation of KAUSF is based on the EAP-method credentials in the UE and AAA-S and shall be done as shown in Figure I.2.3.2-1.

EAP method credentials

EAP

authentication

MSK

K

AUSF

**Figure I.2.3.2-1: KAUSF derivation for primary authentication towards an external Credentials holder using AAA server**

KAUSF shall be derived by the AUSF and UE from the MSK derived during the EAP authentication as specified in clause I.2.2.3.1.

All of figures 6.2.1-1, 6.2.2.1-1 and 6.2.2.2.2-1 from the KAUSF downwards are used without modification. Similarly, text relating to the key hierarchy, key derivation and key distribution in clauses 6.2.1, 6.2.2.1 and 6.2.2.2 for keys derived from KAUSF (e.g. KSEAF, KAMF, KgNB etc) apply without modification.

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