**3GPP TSG-SA3 Meeting #105e** ***S3-214024***

**e-meeting, 8 – 19 November 2021**

**Source: Ericsson**

**Title: Initial access using AAA**

**Document for: Approval**

**Agenda Item: 4.17**

# 1 Decision/action requested

***Approve this contribution to be included in the eNPN living document [1].***

# 2 References

[1] S3-213610, Security aspects of eNPN (living document)

# 3 Rationale

This document describes the procedures for initial access using primary authentication with mutual authentication between UE and DCS as concluded in SA3#104e-ad hoc.

# 4 Detailed proposal

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

# I.z Initial access for onboarding

The Default Credential Server, DCS, is used to perform authentication based on the UE default credentials during the onboarding procedure. The default credentials are pre-configured in the UE.

For external DCS, the DCS can be either an external AAA server, or be an external entity using AUSF/UDM. The architecture is further described in TS 23.501 [2] clause 5.30.2.10.2.2.

When DCS is an external AAA server, the authentication procedure described in clause I.2.2.z is used as base.

Editor's note: The details of the procedure when DCS takes the role of AAA are FFS.

When DCS is an external entity using AUSF/UDM, the authentication procedure is referred to from clause I.2.a.

In addition to returning the authentication result, in both cases the DCS also returns the address of the Provisioning server, PS to the AMF via AUSF.

Instead of using an external entity, initial access may also be setup after mutual authentication between UE and AUSF of the ON using credentials provided by the DCS.

Editor's note: For the internal case, the detailed procedure and how the address to the Provisioning Server is supplied is FFS.

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