**3GPP TSG-SA3 Meeting #104-AdHoc-e *S3-213459-r3***

**e-meeting, 27 - 30 Septemeber 2021** Revision of S3-20xxxx

**Source: Intel**

**Title: Authentication and Authorization between EES and ECS**

**Document for: Approval**

**Agenda Item: 4.6**

# 1 Decision/action requested

***It is proposed to approve Authentication and Authorization between EES and ECS***

# 2 References

[1] 3GPP TS 33.839: “Study on security aspects of enhancement of support for edge computing in 5G Core

(5GC)”

# 3 Rationale

It is proposed to add the Authentication and Authorization between EES and ECS.

# 4 Detailed proposal

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Start of Changes \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 33.210: "3G security; Network Domain Security (NDS); IP network layer security".

[3] 3GPP TS 33.501: "Security architecture and procedures for 5G System".

[4] 3GPP TS 33.187: "Security aspects of Machine-Type Communications (MTC) and other mobile data applications communications enhancements".

[XX] 3GPP TS 33.210: "3G security; Network Domain Security (NDS); IP network layer security".

[YY] 3GPP TS 23.558: "Architecture for enabling Edge Applications."

[ZZ] 3GPP TS 33.501: "Security architecture and procedures for 5G system."

[x] <doctype> <#>[ ([up to and including]{yyyy[-mm]|V<a[.b[.c]]>}[onwards])]: "<Title>".

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Next Changes \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

6.4 Authentication and Authorization between EES and ECS

6.4.1 General

The detailed service procedures between EES and ECS are described in TS 23.558 [YY].

6.4.2 Procedure for the Authentication and Authorization between EES and ECS

Pre-requisite for Onboarding:

- Onboarding credential information is obtained by EES within the same PLMN domain or from a third-party domain. The credential information includes the Edge Configuration Server Address and Root CA certificate details, and it may also include an enrolment token.

NOTE1: The provisioning of the onboarding credentials is out of the scope of this document.

Pre-requisite for Authentication:

- The EES and ECS are provisioned with credentials for the mutual authenticated TLS.

TLS shall be used to provide integrity protection, replay protection, and confidentiality protection for the interface between the EES and the ECS.

Security profiles for TLS implementation and usage shall follow the profiles given in TS 33.310 [XX], Annex E and F. The identities in the end-entity certificates shall be used for authentication and policy checks.

The ECS shall authorize the EES based on local authorization policy.

Editor’s note: Details of token-based authorization with ECS needs to be added.

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*End of Changes \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***