**3GPP TSG-SA3 Meeting #123 draft\_S3-252997-r5 was merger of S3-252608,**

**S3-252592,S3-252658,S3-252854**

**Goteborg, Sweden, 25 – 29 August 2025**

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**Title: Update the clause 4.2.2 Requirements on the AIOTF**

**Document for: Approval**

**Agenda item: 4.1.1**

**Spec: 3GPP TS 33.369**

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**Work Item: AmbientIoT-SEC**

**Comments**

The requirements on authentication for the AIOTF needs to be added.

**Proposed Changes**

\* \* \* First Change \* \* \* \*

### 4.2.2 Requirements on the AIOTF

#### 4.2.2.1 Requirement on Authentication

Editor’s Note: Requirements on authentication are ffs.

The AIOTF shall authenticate the AIoT device.

#### 4.2.2.2 Requirements on Communication Protection

The AIOTF shall support confidentiality protection of AIoT NAS Command request and response between the AIoT device and the AIOTF.

The AIOTF shall support the following ciphering algorithms:

NEA0, 128-NEA2 as defined in Annex D of the TS 33.501 [5].

Confidentiality protection of AIoT NAS Command request and response between the AIoT device and the AIOTF is optional to use.

The AIOTF shall support integrity protection of AIoT NAS Command request and response between the AIoT device and the AIOTF.

The AIOTF shall support the following integrity algorithms:

128-NIA2 as defined in Annex D of the TS 33.501 [5].

Integrity protection of AIoT NAS Command request and response between the AIoT device and the AIoTF is mandatory to use.

The AIOTF shall support selection of confidentiality and integrity algorithms for protecting AIoT NAS Command request and response between the AIoT device and the AIOTF based on operator’s local policy.

#### 4.2.2.3 Requirements on Privacy

The AIOTF shall support a mechanism for the use of temporary IDs and it is optional for network to use.

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