**3GPP TSG-SA3 Meeting #119AdHoc-e draft\_S3-250087-r6**

**Online, Electronic meeting, 13 -16 January 2025**

**Source: Samsung, ZTE, China Telecom, Ericsson, Xiaomi, Nokia**

**Title: Updates to conclusion for key issue#2**

**Document for: Approval**

**Agenda item: 5.18**

**Spec: 3GPP TR 33.700-22**

**Version: 0.3.0**

**Work Item: FS\_CAPIF\_Ph3-sec**

**Comments**

This pCR proposes to update the conclusion for key issue#2 on CAPIF interconnection security.

**Proposed Changes**

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

## 7.2 Conclusion for KI #2: CAPIF interconnection security

It is assumed that the API invoker onboards to CCF-A, which is referred as onboarded CCF.

It is assumed that the target AEF connected to a different CCF-B.

### 7.2.1 Conclusion for CAPIF 6/6e security

It is concluded that for CAPIF-6 and CAPIF-6e reference points, same security mechanisms specified in clauses 6.6 and 6.10 of TS 33.122 [4] for CAPIF-3/4/5 and CAPIF-3e/4e/5e reference points will be used, respectively.

### 7.2.2 Conclusion for security method negotiation

For security method negotiation procedure (as per requirement 2), clause 6.3.1.2 in TS 33.122 [4] will be re-used. Whether any enhancements are necessary and addressing them will be considered in the normative work.

### 7.2.3 Conclusion for API invoker authentication and authorization mechanism

For mutual authentication and authorization between API invoker (onboarded to CCF-A) and the AEF (registered to CCF-B), the procedures as defined in clause 6.5.2 of TS 33.122 [4] can be re-used with the following enhancement:

* When using TLS-PSK or PKI:
  + On receiving the request from the AEF, CCF-B requests the security information (AEFPSK/root CA) from CCF-A (over CAPIF-6/6e reference point) based on the API invoker ID.
  + The AEF learns the access control policy from CCF-B. If the authorization access policy at CCF-B is not enough, then CCF-B learns access control policy from CCF-A and provides it to the AEF.
* When using TLS with OAuth token:
  + On receiving the request from the AEF, CCF-B requests the security information (e.g., root CA) from CCF-A (over CAPIF-6/6e reference point) based on the API invoker ID.
  + If CCF-A has enough data for authorization decision and allowed by CCF-B for authorization decision, then CCF-A can issue an access token. Otherwise CCF-A sends the access token request to CCF-B for the API Invoker requesting access token.
  + CCF-A or based on the request from CCF-A, CCF-B provides an access token to the API invoker via CCF-A as specified in clause 6.5.2.3 in TS 33.122 [4]. The AEF verifies the access token as described in 6.5.2.3 in TS 33.122 [4].
* Details of the procedure are to be determined during normative work.

Editor’s Note: It is FFS whether ID of CCF-A needs to be sent to the AEF by the API invoker.

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