**3GPP TSG-SA3 Meeting #117 S3-242xxx**

Maastricht, Netherlands 19 - 23 August 2024

**Source: Huawei, HiSilicon**

**Title: Key issue on CAPIF-8 security procedures** **for RNAA**

**Document for: Approval**

**Agenda Item: 5.19**

# 1 Decision/action requested

***Approve to include pCR proposal for the TR 33.700-22***

# 2 References

[1] 3GPP TR 23.700 Study on CAPIF Phase 3

# 3 Rationale

The contribution proposes a new key issue to support WTs in SA6 [1].

# 4 Detailed proposal

pCR

\*\*\* BEGINNING OF1st CHANGES \*\*\*

## X.y Key issue #y: CAPIF-8 security procedures for RNAA

### X.y.1 Key issue details

In the TR 23.700-22 [x1], a key issue has been included to study further enhancements to the CAPIF architecture considering Resource Owner Function (ROF) functionalities and its interactions with CAPIF entities (e.g., CAPIF-8 related interactions). The security requirements, security models, and security procedures for the CAPIF are specified in 3GPP TS 33.122 [x2]. However, part of the security procedures between the ROF and the authorization function/CCF supporting the Resource owner-aware Northbound API Access (RNAA) are left open in Release 18, e.g. the authorization procedures in the clause 6.5.3 of 3GPP TS 33.122 [x2]. It becomes apparent that the security aspects for the architecture enhancements are open issues in the Release 19 study, as also stated in the TR 23.700-22 [x1],

### X.y.2 Threats

If the authorization procedures of RNAA is not secured, an attacher may impersonate an authorized user and consume/revoke resources of a legitimate user through CAPIF-8.

### X.y.3 Potential security requirements

The 3GPP system shall provide means to secure RNAA authorization and revocation procedures.

\*\*\* END OF 1st CHANGES \*\*\*

\*\*\* BEGINNING OF 2ndCHANGES \*\*\*

# 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".

[x1] 3GPP TR 23.700-22: "Study on CAPIF Phase 3".

[x2] 3GPP TS 33.122: "Security aspects of Common API Framework (CAPIF) for 3GPP northbound APIs".

\*\*\* END OF 2ndCHANGES \*\*\*