**3GPP TSG-SA3 Meeting #124 draft\_S3-253758-r1**

**Wuhan, China, 13th - 17th October 2025**

**Source: ZTE, China Telecom(?), Nokia(?)**

**Title: New key issue on Group Authorization for UE-deployed API invoker accessing other UEs' resources of a group**

**Document for: Approval**

**Agenda item: 5.2.10**

**Spec: 3GPP TR 33.700-23**

**Version: 0.0.0**

**Work Item: FS\_CAPIF\_Ph4\_SEC**

**Comments**

This contribution proposes a new key issue about Group Authorization for UE-deployed API invoker accessing other UEs' resources.

**Proposed Changes**

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

## 5.X Key Issue #X: Group Authorization for UE-deployed API invoker accessing other UEs' resources of a group

### 5.X.1 Key issue details

The procedure specified in clause 8.34 of TS 23.222 [x] enable a UE-hosted API invoker accessing network-hosted resources owned by other UEs that belong to the same group. According to clause 8.34.2 of TS 23.222 [x], the security aspect of that procedure is left with the following note:

“NOTE: The security aspects of this procedure are specified in 3GPP TS 33.122 [y].”

In addition, in clause 8.34.3 of TS 23.222 [x], the following Editor’s Note is present:

“The authorization details for step 4 of how CCF interacts with GRO to obtain authorization which also includes the group identification is FFS and will be specified by SA3.”

To provide security protection for the procedure of UE-deployed API invoker accessing other UEs’ resources of a group, the key issue derives a security requirement to mitigate potential security threats.

### 5.X.2 Security threats

Without proper authorization mechanism, an unauthorized API invoker can claim membership in a privileged group to access resources of UEs within that group, resulting in information leakage and unauthorized modification to the resources of the resource owner.

### 5.X.3 Potential security requirements

The CCF shall support Group Authorization for UE-deployed API invoker accessing other UEs' resources of a group.

\* \* \* End of First Change \* \* \* \*

\* \* \* Second Change \* \* \* \*

# 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".

[x] 3GPP TS 23.222: "Common API Framework for 3GPP Northbound APIs".

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

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