**3GPP TSG-SA3 Meeting #102-e S3-210482-r1**

**e-meeting, 18th - 29th January 2021 Revision of S3-20xxxx**

**Source: Qualcomm Incorporated, Huawei, Hisilicon, Ericsson**

**Title: New Key Issue on security policy handling for 5G Prose services**

**Document for: Approval**

**Agenda Item: 5.9**

# 1 Decision/action requested

***Approve this contribution to add a new Key issue in TR 33.847***

# 2 References

[1]

# 3 Rationale

The contribution proposes a new Key issue on supporting security policy handling for 5G Prose services.

# 4 Detailed proposal

\*\*\* BEGINNING OF CHANGES \*\*\*

## 5.X Key Issue #X: Supporting security policy handling for 5G ProSe services

### 5.X.1 Key issue details

User-plane security policy provisioning and enforcement for PDU sessions is a new feature in 5GS. This security policy handling feature is extended to 5G V2X in one-to-one communication (i.e. unicast).

In 5G V2X, on-demand security policy handling are specified in TS 33.536 [8]. Though the policy provisioning is left unspecified for 5G V2X as it is supposed to be handled by V2X services, it is deemed necessary for 5GS to be able to provision security policies of PC5 in 5G ProSe scenarios. This security policy provisioning and handling also includes the discovery aspects such as open vs. restricted discovery specified in TS 33.303 [6].

This key issue is to study how to support security policy handling in 5G ProSe, including security policy provisioning and security negotiation.

### 5.X.2 Security threats

Without secure provisioning for 5G ProSe discovery policies, the ProSe UEs may not able to discover intended 5G ProSe services.

Without secure provisioning of PC5 security policies for 5G ProSe services, PC5 connections can be downgraded.

~~Failure to~~ Without support of security negotiation for PC5, ~~may not able to satisfy various security requirements from different~~ PC5 connections may fail to meet the security requirements of various 5G ProSe services.

### 5.X.3 Potential security requirements

5G ProSe system shall support a means to configure at the network side the discovery policy and PC5 security policies for PC5 for 5G Prose services.

5G ProSe system shall support a means to securely provision the configured PC5 security policies to the UE for 5G Prose services.

5G ProSe system shall support to achieve negotiation of use of security protection based on the provisioned PC5 security policies in 5G Prose Services.

\*\*\* END OF CHANGES \*\*\*