**3GPP TSG-SA3 Meeting #110Ad-Hoc-e *draft\_S3-231762-r1***

**Electronic meeting, Online, 17 - 21 April 2023** (revision of S3-yyxxxx)

**Source: Ericsson, BT, Huawei, HiSilicon**

**Title: Conclusion for key issue #1**

**Document for: Approval**

**Agenda Item: 5.15**

# 1 Decision/action requested

***It is proposed that the following pCR is included in the TR [1].***

# 2 References

[1] 3GPP TR 33.890: "Study on security support for Next Generation Real Time Communication services"

# 3 Rationale

This contribution provides a conclusion for key issue #1.

It is recommended that SA3 concludes a security solution for the protection of the Rich Call Data based on STIR/SHAKEN.

Some details may need to be addressed in SA2 and therefore it is recommended that SA3 sends an LS to SA2 to reopen the key issue in SA2 and align to the SA3 conclusion.

# 4 Detailed proposal

It is proposed that the following changes are included in the TR [1].

**\*\*\*\* START OF CHANGES \*\*\*\***

## 7.X Conclusions for Key Issue #1

For KI#1,it is proposed to use the following guidelines based on Solution#1 and Solution#2:

1) Signing and verification of the SIP Identity header which includes the telephone number and Rich Call Data are based on STIR/SHAKEN Reference Architecture and TS 24.229 [4].

2) The IMPU of the calling UE shall be included in the SIP INVITE received by the originating IMS. The 3rd party ID of the calling UE may be included in the SIP INVITE received by the originating IMS.

3) The originating IMS checks whether the IMS subscription of the calling PBX or UE is authorized to use 3rd party ID. If the calling PBX or UE is authorized to use 3P IDs, the originating IMS subsystem gets Rich Call Data of 3rd party subscriber from a Database or a third party AS based on the received IMPU and optionally the 3rd party ID. Originating IMS network is assumed to have a secure channel to the Database which includes Rich Call Data information. The address of the applicable Database for the user can be stored in HSS.

NOTE: If no third-party ID info is received in the SIP INVITE from the UE or if there is a mismatch between the received 3rd party ID in the SIP INVITE and data retrieved from the Database based on the IMPU, it is left for originating IMS network’s implementation.

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