**SA WG2 Meeting #S2-160 S2-2313296r01**

**13 - 17 November, 2023, Chicago, USA revision of S2-2313053**

**Source: Nokia, Nokia Shanghai Bell**

**Title: KI#4: Update on support of authorization and authentication of third-party identities**

**Document for: Approval**

**Agenda Item: 19.2**

**Work Item / Release: FS\_NG\_RTC\_Ph2**

*Abstract of the contribution: This contribution proposes to update KI#4 description on support of authorization and authentication of third-party identities.*

# Introduction

Current text on KI#4 is lacking necessary details which topics are studied and which are not. It is proposed to re-use the agreed text from TR 23.700-87 (Rel-18) as the baseline text for this KI, but allow solutions to cover multiple use cases and scenarios, e.g., in the context of Avatar communication.

# 2 Proposal

It is proposed to change KI#4 in TR 23.700-77.

\* \* \* \* First 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".

[2] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".

[3] 3GPP TS 23.502: "Procedures for the 5G system, Stage 2".

[4] 3GPP TS 23.503: "Policy and Charging Control Framework for the 5G System".

[5] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS)".

[6] 3GPP TS 26.114: "Media handling and interaction".

[7] 3GPP TS 22.261: "Service requirements for the 5G system".

[8] 3GPP TR 26.813: "Study of Avatars in Real-Time Communication Services".

[xx] 3GPP TS 24.229: "IP Multimedia Call Control based on SIP and SDP; Stage 3".

[yy] 3GPP TS 24.607: "Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem "

\* \* \* \* Next change\* \* \* \*

## 5.4 Key Issue #4: Extensible IMS framework to support authorization and authentication of third-party identities in IMS sessions.

### 5.4.1 Description

Study how to enhance the IMS architecture and procedures to support third party identities in IMS sessions, including:

- Study and if needed, define a mechanism how the serving IMS network can authorize the usage of third party identities in an IMS session.

- Study and if needed, define a mechanism how the terminating IMS network can support the called party to verify third-party specific identities used in a session.

- Study whether and how IMS procedures need to be enhanced to support authentication, authorization, signing and verification of third-party specific identities. This includes for example studying potential impacts on the STIR/SHAKEN procedures defined in TS 24.229 [xx].

- Study and if needed, identify required enhancements to IMS subscription data to support third-party identities.

NOTE 1: Enhancements must support multiple use cases, e.g., verifying third-party identities in OIP service as specified in TS 24.607 [yy], usage of identities in the context of IMS Avatar communication.

NOTE 2: This key issue requires coordination with SA3 on security aspects.

\* \* \* \* End of changes \* \* \* \*