3GPP TSG-SA WG2#160-Ad Hoc-e S2-2401289R01

Electronic Meeting, 22-29 January 2024 (was S2-240xxxx)

**Source: Qualcomm Incorporated**

**Title: WT3: New Key Issue on simplified ATSSS operation over non-3GPP access**

**Document for: Discussion/Approval**

**Agenda Item: 19.13**

**Work Item / Release: FS\_MASSS / Rel-19**

*Abstract of the contribution: This contribution proposes a key issue to capture the objectives of WTs 3, 3.1 and 3.2 in the FS\_MASSS TR*

# 1. Discussion

This contribution proposes a key issue to capture the objectives of WTs 3, 3.1 and 3.2 of the FS\_MASSS SID into the related TR. The text proposal is as much as possible aligned to the wording of the SID.

# 2. Text proposal

It is proposed to agree the following changes vs. TS 23.700-54:

>>>>BEGINNING OF CHANGES<<<<

## 5.2.X Key Issue #2.X: Simplified ATSSS architecture over non-3GPP access without TNGH/N3IWF.

#### 5.2.X.1 Description

The current ATSSS feature requires that non-3GPP access is provided via the trusted or untrusted non-3GPP access procedures. This means that to enable ATSSS either a TNGF or an N3IWF is deployed. This key issue studies whether and how to define a functional architecture and procedures for steering, switching, and splitting of traffic not utilising the TNGF/N3IWF to simplify the network operation over non-3GPP access, without compromising the security of the 5G network. In particular, this key issue studies at least the following issues:

- Whether and how to keep the NAS signaling connection over non-3GPP access, or not.

- Whether and how to eliminate IPSec tunnel encapsulation on the user plane only or both on the control plane and the user plane, in order to simplify the UE protocol stack and reduce the user plane overhead.

- Whether and how to support splitting, switching, steering between 3GPP access and "non-3GPP access without 5G NAS"

- Whether and how to enhance registration and security aspects for supporting "non-3GPP access without 5G NAS".

NOTE: During the study on this KI, consultation with SA3 is needed for handling security aspects.

>>>>END OF CHANGES<<<<