**3GPP TSG-SA3 Meeting #123 S3-25xxxx**

Goteborg, Sweden, 25 – 29 August 2025

**Source: Interdigital**

**Title:** **WT on Enhanced NAS Security for 6G**

**Document for: Endorsement**

**Agenda Item: 6.3**

# 1 Decision/action requested

***It is proposed to endorse this WT Enhanced NAS Security for 6G***

# 2 References

[1] SP-250806, "Study on Architecture for 6G System"

# 3 Rationale

As part of the Study on Architecture for 6G System in SP-250806 [1], under WT#1 the following sub-tasks are included:

*"1.1. Study the support for control signalling for 6G for connectivity services and/or beyond connectivity services, including at least the following:*

*a. Whether and how to enable the introduction of a new non-access stratum functionality without impacting other non-access stratum functionalities.*

*b. Whether and how to identify a minimal set of non-access stratum functionalities that does not get impacted by additional non-access stratum functionalities.*

*c. Whether and how to develop generic mechanisms for UE-Core Network interaction to support operator services.*

*1.2. Study whether and how to support and/or enhance the following aspects in 6G: the SBA framework, network slicing, network sharing, user plane architecture, QoS framework, policy framework, network exposure framework, architecture for specific scenarios e.g. fixed wireless access, localized service access."*

In 5GC the AMF terminates the UE NAS connection (N1) and maintains a point-to-point connection (N2) with RAN, on behalf of other NFs. As such, AMF acts as a NAS security termination point as well as an intermediate function that forwards messaging between UE and NFs (e.g., SMF, PCF) or RAN and NFs (e.g., SMF).

There is a need to study the security aspects for the support of the above-mentioned ability to introduce new NAS functionality (i.e., NFs, operator services) without impacting other NAS functionality (e.g., AMF).

It is proposed to endorse the proposed Work Task for Evolved NAS as part of the 6G study.

# 4 Detailed proposal

The Work Task aims at investigating security aspects for the support of enhanced NAS for the 6G system. Specifically, the objectives include:

- Study the security and privacy aspects for the enhancements of NAS for 6G (e.g., "distributed NAS", "modular NAS").

- Study the security and privacy aspects for enhancements of the SBA framework for 6G (e.g., RAN connection to SBA).