**3GPP TSG-SA3 Meeting #124** draft\_S3-253671-r5 merge*S3-253305 in* **S3-253143**

**Wuhan, China, 13 – 17 October 2025**

**Source: Lenovo, Motorola Mobility, T-Mobile US, Deutsche Telekom, AT&T, SK Telecom, China Mobile, Telefonica, Interdigital, CATT, China Telecom, ZTE, Telecom Italia**

**Title: New Security Area on Security Evaluation of and Protection against attacks for UE involved Connections**

**Document for: Approval**

**Agenda item: 5.3.1**

**Spec: 3GPP TR 33.801-01**

**Version: 0.1.0**

**Work Item: FS\_6G\_SEC**

**Comments**

This contribution proposes a new security area for TR 33.801-01 to address the UE related threat detection and security control. The detailed rationale and the limited support in 5GS is presented in the companion discussion paper in S3-253142.

\* \* \* First Change \* \* \* \*

# 4 Security areas and high level security requirements

## 4.1 Security areas

Editor's Note: This clause further clarifies the scope of the study by listing the security areas that SA3 is working on.

This document includes the following security areas:

1. Risk detection of and Protection against attacks from malicious User Equipments (UEs) deals with collection of information about and mitigation of attacks.

## 4.2 Potential high level security requirements

Editor's Note: This clause will document high-level requirements that guide the study.

\* \* \* Next Change \* \* \* \*

# 5 Key issues and solutions

## 5.x Security area #x: Risk detection of and Protection against attacks for UE involved Connections

### 5.x.1 Introduction

GSMA’s Mobile Economy Forecasts 5G connections to surpass 2 billion in 2025 and enhancing security and protecting against cybersecurity threats ranked as the top digital transformation objective [x]. Despite the telecom security evolution, there is an increasing trend with cyber security threats and attacks over telecom systems. It is expected that, from the first release of 6G, 6G security needs to consider cyberattacks and malicious abuse. In 5G System, there is limited support specified in 3GPP TS 23.288 [y] on the DDoS attack prediction and signalling storm analytics prediction

This security area studies risk detection of and protection against attacks towards 6G networks originating from UEs manipulated by malicious users. The assumption is that the manipulated UEs are already successfully authenticated and authorized by the network.

Key issues in this security area are expected to describe the malicious UE originating attack whose evaluation and mitigation they study.

NOTE X: Authentication procedure, AS/NAS security establishment, Sensing, and AI security are treated in other security areas.

### 5.x.2 Security Assumptions

TBD

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# 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".

[x] GSMA Mobile Economy, 2025, '<https://www.gsma.com/solutions-and-impact/connectivity-for-good/mobile-economy/wp-content/uploads/2025/02/030325-The-Mobile-Economy-2025.pdf>'.

\* \* \* End of Changes \* \* \* \*