**3GPP TSG-SA3 Meeting #123 *draft\_S3-252721-r1***

**Goteborg, Sweden, 25 – 29 August 2025**

**Source: ChinaTelecom**

**Title:** **Add security assumptions for SAT\_ph4\_sec sid**

**Document for: Approval**

**Agenda Item: 6.1.10**

# 1 Decision/action requested

***Approve the pCR to FS\_5GSAT\_ph4\_Sec***

# 2 References

[1] 3GPP TS 33.xxx

# 3 Rationale

As described in S3-252359, it is required to study the security mechanisms that permit an authenticated UE to exchange NAS messages with multiple satellites without performing UE authentication or key negotiation (NAS SMC) between the UE and satellites in the store and forward operation.

This contribution proposes to add security architecture and assumptions for this study.

# 4 Detailed proposal

\*\*\* Start of 1st Change \*\*\*

# 4 Architecture and security assumptions

The following architecture and security assumptions are applied to the study:

- The general features and the Split MME architecture of Store and Forward Satellite operation are described in TS 23.401 [x] are used as architecture assumptions in this study.

- The security requirements and procedures for Store and Forward Satellite operation as defined in Annex N of TS 33.401 [y] are used as a baseline.

\*\*\* End of 1st Change \*\*\*