**3GPP TSG-SA3 Meeting #115AdHoc-e *S3-24xxxx***

Electronic meeting, online, 15 - 19 April 2024

**Source: Huawei, HiSilicon**

**Title: Addressing the editor's note on the security assumption**

**Document for: Approval**

**Agenda Item: 5.7**

# 1 Decision/action requested

***Approve the pCR to TR 33.700-29***

# 2 References

N/A

# 3 Rationale

There is an Editor’s Note in the security assumption clause on the security of on board 3GPP system hosted by satellite. This contribution proposes to add the clarification on this part.

# 4 Detailed proposal

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

# 4 Architecture and security assumptions

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

- The architecture assumptions and principles for EPS/5GS integrating of satellite components as defined in TR 23.700-29 [2] are used as architecture assumptions in this study.

- The security architecture, procedures, and security requirements for EPS/5GS as defined in TS 33.401 [3] / TS 33.501 [4] are used as a baseline.

- The IP Multimedia Subsystem (IMS) media plane security as defined in TS 33.328 [5] is used as a baseline.

- The physical security of 3GPP systems on board orbiting satellites is out of the scope of 3GPP.

- The secure environment of 3GPP systems on board orbiting satellites is assumed to be the same as that in terrestrial network (e.g. clause 5.3.8 in TS 33.501 [4] for the gNB).- The feeder link and the inter-satellite link (ISL) are assumed to act only as transport layer links and are not specified in 3GPP.

- The use of feeder link and ISL is assumed to have no impact on the security of reference points (including the X2/Xn interface, S1-MME/N1 interface, S1-U/N3 interface, and the interfaces between the core network entities) by using the network domain security as defined in TS 33.210 [6].

Editor’s Note: Priority of the security study between IoT NTN (EPS) and NR NTN (5GS) and the scenario when two UEs are under the coverage of the same satellite are to be aligned with TR 23.700-29 [2]. The security study should be aligned with TR 23.700-29 [2].

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