**3GPP TSG-SA3 Meeting #109AdHoc-e *S3-230165***

**Electronic meeting, 16 - 20 January 2023** Revision of S3-23xxxx

**Source: Huawei, HiSilicon**

**Title: Updates to Key Issue on User Consent for NTN**

**Document for: Approval**

**Agenda Item: 5.22**

# 1 Decision/action requested

***This contribution proposes to update key issue #2.***

# 2 References

# 3 Rationale

This contribution proposes to update key issue details and provide security requirements for key issue#2.

# 4 Detailed proposal

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

## 5.2 Key Issue #2: User consent for NTN

### 5.2.1 Key issue details

NTN scenario is specified in clause 5.4.11 of 3GPP TS 23.501 [4] and clause 16.14 of 3GPP TS 38.300 [5]. For this scenario, the NG-RAN in NTN may require UE’s location information for selecting the AMF.

The way it works now is that after AS security is activated, the NG-RAN in NTN can request the UE to report its accurate location or coarse location. However, for both types of location reports obtaining, user consent aspect is missing.

This key issue is intended to study whether there is any need to enhance the current user consent framework specified in Annex V in 3GPP TS 33.501 [3] in order to support the NTN feature.

### 5.2.2 Security threats

If the NG-RAN in NTN is not aware of user consent status, then the NG-RAN in NTN may collect user’s location information without consent which could lead to a compromise of the user privacy.

If the NG-RAN in NTN is not aware that user consent for NTN use case has been revoked, then the NG-RAN in NTN may continue to collect user’s location information which could lead to a compromise of user privacy.

### 5.2.3 Potential security requirements

The network should take into account the user consent for NTN usage when user subscribes to NTN services considering regulation requirements.

NOTE: Proposed solutions should consider current RAN2/RAN3 solutions with the actual communication flow.

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