**3GPP TSG-SA3 Meeting #108-e *draft\_S3-222127-r1***

**e-meeting, 22nd – 26th August, 2022** Revision of S3-22xxxx

**Source: China Mobile, Huawei, HiSilicon, OPPO**

**Title: New Key Issue on User Consent for Roaming of Edge Application**

**Document for: Approval**

**Agenda Item: 5.22**

# 1 Decision/action requested

***This contribution proposes to add a new key issue on user consent for roaming case in edge application.***

# 2 References

[1] 3GPP TS 23.700-48 “5G System Enhancements for Edge Computing; Phase 2”.

# 3 Rationale

This contribution proposes to add a new key issue on user consent for roaming case in edge application.

# 4 Detailed proposal

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

## 5.X Key Issue #X: User consent for roaming case in edge application

### 5.X.1 Key issue details

As studied in key issue #1 in 3GPP TR 23.700-48 [xx], "The purpose of this key issue is to define 5GS improvements to support the UE access to an Edge Hosting Environment (EHE) in a VPLMN."

Two scenarios are considered, i.e. UE accessing EHE in VPLMN via an LBO PDU Session, and UE accessing EHE in VPLMN via a PDU Session established as HR.

The user data may be exchanged between different entities, i.e. 3rd party, VPLMN and HPLMN. But current user consent framework does not have finner granularity to cover those 3 aspects.

In order to cover these scenarios, it is important to assess the current user consent framework in Annex V in 3GPP TS 33.501 [3], and decides who will perform the role of enforcement point.

### 5.X.2 Security threats

If the HPLMN/VPLMN is not aware to check user consent for roaming case in edge application, e.g. data exposure, the HPLMN/VPLMN may expose user privacy information to VPLMN/HPLMN/3rd party which could lead to a compromise of the privacy.

If the HPLMN/VPLMN is not aware to revoke user consent for roaming case in edge application, the HPLMN/VPLMN/3rd party may continue to process user privacy information which could lead to a compromise of privacy.

### 5.X.3 Potential security requirements

The 5GS shall provide the means for a HPLMN/VPLMN to check of user consent for the roaming scenario in edge application.

The 5GS shall provide the means for HPLMN/VPLMN to revoke of user consent for the roaming scenario in edge application.

Editor’s Note: Solutions for this KI should be aligned with the conclusion of Key Issue 1 in TR 23700-48[xx].

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