**3GPP TSG-SA3 Meeting #116 *draft\_S3-242150-r6***

Jeju, South Korea, 20th - 24th May 2024 Merger of S3-242150, S3-241890, S3-241975, S3-242158, S3-242108, and S3-242109

**Source: Qualcomm Incorporated, Apple, Huawei, HiSilicon, CATT, Ericsson, and Nokia**

**Title: New Key Issue on the protection of information during AIoT service communication**

**Document for: Approval**

**Agenda Item: 5.9**

# 1 Decision/action requested

***This contribution proposes a new Key issue in TR 33.713.***

# 2 References

[1] Draft TR 33.713 v0.1.0

# 3 Rationale

This contribution proposes a new Key Issue on the protection of information during Ambient power-enabled IoT (AIoT) service communication.

# 4 Detailed proposal

It is proposed that SA3 approve the below pCR for inclusion in the TR [1].

**\*\*\*\*\* START OF CHANGES \*\*\*\*\***

## 5.Y Key issue #Y: Protection of information during AIoT service communication

### 5.Y.1 Key issue details

As per TS 22.369 [2], Ambient power-enabled IoT (AIoT) services aim to support various use cases, including inventory taking, sensor data collection, asset tracking, and actuator control. These services intended to operate with lower power consumption and complexity than the existing IoT technologies such as eMTC, NB-IoT, and RedCap. To fulfil these requirements, AIoT devices require a communication capability.

From a security perspective, security mechanisms to protect the information transmitted during AIoT service communication need to be supported. Failure to provide such security mechanisms will lead to various attacks such as eavesdropping, manipulation and/or unauthorized transmission of the information during AIoT service communication.

### 5.Y.2 Security threats

### 5.Y.3 Potential security requirements

TBD.

**\*\*\*\*\* END OF CHANGES \*\*\*\*\***