**3GPP TSG-SA Meeting #105 *SP-371***

**Shanghai, China, 18 – 21 June 2024**

**Title:** **LS on Further Clarification for Ambient IoT Security**

**Response to: N/A**

**Release: Rel-19**

**Study Item: FS\_Ambient\_IoT\_Sec**

**Source: TSG SA**

**To: SA1, SA3**

**Cc:**

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**Attachments:**

# 1 Overall description

In SA#105, SA1 WG Status Report, reported that for SA1 did not reach consensus in SA1 meeting #107 to reply to SA LS SP-242016.

In order to assist SA1 to reply to SA LS promptly, the following clarification and additional background information is provided:

1. Further guidance and clarification regarding stage 1 requirement for A-IoT taking aspects such as the business models and scope of the lifecycle management into account.

**Background:**  SA3 was not able to reach a consensus on key issues related to authentication and communication security. Though some progress has been made in the authentication key issue, further guidance is still needed. Some companies believe that in order to resolve this, more clarification related to business models of AIoT service, e.g., who owns the AIoT device, and how AIoT devices are provisioned or onboarded. This has direct impact on security aspects related to the endpoint (e.g., an entity in the operator’s network or outside of operator’s network) of authentication and communication, i.e. whether authentication is between the AIoT device and another entity, protection of communication between the AIoT device and another entity.

2. Consideration for capabilities of AIoT device that impacts security as there are no service requirements in TS 22.369 linking these capabilities and security.

**Background:**  SA3 was not able to reach consensus whether limited capabilities of AIoT devices should be considered when security key issues are analysed. Some companies believe the limited capabilities of the AIoT devices impact security requirements, security design and security solutions. Some examples of such limited capabilities are related to the support of cipher algorithms, hash algorithms, and secure storage on the AIoT device.

# 2 Actions

**To SA1**

**ACTION:** TSG SA kindly asks SA1 to provide further guidance and clarification regarding stage 1 requirement for A-IoT taking above information into account.

**To SA3**

**ACTION:** None.

# 3 Dates of next TSG SA meetings

SA#106 December 10th – 13th 2024 Madrid, ES