**3GPP TSG SA WG5 Meeting #158 S5-246775**

**Orlando, USA, 18– 22 November, 2024**

**Source: CATT**

**Title: Add charging scenarios and charging requirements for UE-satellite-UE communication**

**Document for: Approval**

**Agenda Item: 7.5.1**

# 1 Decision

***The group is asked to discuss and agree on the proposal.***

# 2 References

[1] 3GPP TR 28.846: " Study on charging aspects of satellite access Phase 3 ".

# 3 Rationale

This pCR proposes to add the charging scenarios and charging requirements for UE-satellite-UE communication.

# 4 Detailed proposal

The following changes are proposed to be incorporated into the new TR.

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| **1st Modified Section** |

## 6.1 Topic 1: Charging scenarios for UE-satellite-UE communication

### 6.1.1 Use cases

#### 6.1.1.1 Use Case #1.1: MNO charges SCC

This use case focuses on SCC and MNO business scenario.

An SCC has a subscription with an MNO which rents the satellite from an SSP, to allow MNO to provide UE-sat-UE to its subscribers.

The charging party and charged party can be:

- Charged party: the SCC identified by the UE.

- Charging party: MNO.

The MNO charges the subscribers based on the usage of satellites to provide the UE-sat-UE communication service.

Potential charging requirements: REQ-CH\_ SAT\_IMS-01.

#### 6.1.1.2 Use Case #1.2: MNO charged by SSP

This use case focuses on MNO and SSP business scenario.

An MNO has a wholesale agreement to use the satellite from an SSP.

The charging party and charged party can be:

- Charged party: MNO.

- Charging party: SSP

The SSP charges MNO based on the usage of satellites.

Potential charging requirements: REQ-CH\_ SAT\_IMS-01.

### 6.1.2 Potential charging requirements

The following are potential high-level charging requirements for satellite in 5GS, derived from the requirements in TS 23.501[x] and TS 23.228[y].

**REQ-** **CH\_ SAT\_PH3-01**: The 5GS should support collecting charging information for UE-sat-UE communication service.

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| **End of Modified Sections** |