3GPP TSG SA WG5 Meeting #158 S5-246975

Orlando, Florida, USA 18 - 22 November 2024

**Source: Huawei**

**Title: Evaluation and conclusion for UAS Charging topic 4**

**Document for: Approval**

**Agenda Item: 7.5.4**

# 1 Discussion

***This is a pCR to provide the evaluation and conclusion for UAS charging in TR 28.853.***

# 2 References

[1] 3GPP TR 28.853: "Study on charging aspects of uncrewed aerial systems".

# 3 Rationale

This pCR proposes to introduce the evaluation and conclusion for UAS Charging topic 4, the A2X service charging.

# 4 Detailed proposal

Propose to incorporate the following change into the TR 28.853 [1].

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| **First change** |

### 5.4.5 Evaluation

#### 5.4.5.1 Solutions evaluation for Key issue #4a

The solution #4.1 addresses Key issue #4a using UAS NF/NEF to provide the charging information collecting and reporting based on the chargeable events about Provisioning for A2X communication API invocation from USS/TPAE. The NEF charging specified in the TS 32.254[13] can be used for the UAS NF/NEF charging with the identifiers of AF (A2X application Server) and UAS UE (A2X application), see the clause 5.3.5.1.

The solution #4.2 addresses Key issue #4a using SMF/MB-SMF support the unicast, broadcast and multicast communication.

The solution #4.3 addresses Key issue #4a for roaming A2X communication over Uu, using SMF support unicast service roaming communication. As defined in TS 23.247 [9], multicast/broadcast service for roaming is not supported in this release.

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| **Next change** |

### 5.4.6 Conclusion

It is concluded that solutions #4.1, #4.2 and #4.3 are selected into the normative work for supporting the different aspects of A2X communication, including the A2X communication provisioning using solution #4.1, A2X non-roaming communication using solution #4.2, and A2X roaming communication using solution #4.3.

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| **End of change** |