3GPP TSG SA WG5 Meeting #158 S5-246974

Orlando, Florida, USA 18 - 22 November 2024

**Source: Huawei**

**Title: Evaluation and conclusion for UAS charging topic 3**

**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 3, the USS service exposure.

# 4 Detailed proposal

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

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| **First change** |

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 22.125: "Unmanned Aerial System (UAS) support in 3GPP".

[3] 3GPP TS 23.256: "Support of Uncrewed Aerial Systems (UAS) connectivity, identification and tracking; Stage 2".

[4] 3GPP TS 23.501: "System architecture for the 5G System (5GS)".

[5] 3GPP TS 23.502: "Procedures for the 5G System (5GS)".

[6] 3GPP TS 23.503: "Policy and charging control framework for the 5G System (5GS); Stage 2".

[7] 3GPP TS 32.290: "Charging management; 5G system; Services, operations and procedures of charging using Service Based Interface (SBI)".

[8] 3GPP TS 23.287: "Architecture enhancements for 5G System (5GS) to support Vehicle-to-Everything (V2X) services".

[9] 3GPP TS 23.247: "Architectural enhancements for 5G multicast-broadcast services; Stage 2".

[10] 3GPP TS 32.255: "Charging management; 5G data connectivity domain charging; Stage 2".

[11] 3GPP TS 32.279: "Charging management; 5G Multicast-broadcast Services charging".

[12] 3GPP TS 32.256: "5G connection and mobility domain charging".

[13] 3GPP TS 32.254: "Exposure function northbound Application Program Interfaces (APIs) charging".

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| **Next Change** |

##### 5.3.4.1.1 General description

This solution#3.1 which relying on CHF/5G Converged Charging System for UAS NF/NEF Charging, addresses the Key Issue#3a.

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| **Next Change** |

### 5.3.5 Evaluation

#### 5.3.5.1 Solutions evaluation for Key issue #3a

The solution #3.1 addresses Key issue #3a using UAS NF/NEF to provide the charging information collecting and reporting based on the chargeable events about API invocation/notification from/to USS/TPAE.

### 5.3.6 Conclusion

It is concluded that the solution #3.1 is the only one and therefore recommended into the normative work.

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| **End of change** |