**3GPP TSG SA WG5 Meeting #156 *S5-244525***

**Maastricht, The Netherlands 19 - 23 August 2024**

**Source: China Mobile**

**Title: TR 28.853 Add use cases and key issues for C2 Communication charging**

**Document for: Approval**

**Agenda Item: 7.5.4**

# 1 Decision/action requested

***This is a pCR to add use cases and key issues for C2 Communication charging in TR 28.853.***

# 2 References

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

# 3 Rationale

This contribution proposes to add use cases and key issues for C2 Communication charging in TR 28.853.

# 4 Detailed proposal

The following changes are proposed to be incorporated into TR 28.853 [1].

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| **First change** |

## 5.x Topic x：Charging support of C2 Communication

### 5.x.1 Use cases

#### 5.x.1.1 Use case #Xa: Charging support of UTM-Navigated C2 Communication

As described in TS 22.125 [2], UTM-Navigated C2 communication is used by the UTM to provide cleared flying routes and routes updates, with UTM maintaining a C2 communication link with the UAV.

For this case, the charged party and charging party can be:

* Charged party: UAS-SP (i.e. USS/UTM) providing the navigation information.
* Charging party: UAS-MNO supporting the C2 Communication.

The potential charging requirement for this Use Case is: REQ-CH\_ UAS\_C2-01.

### 5.x.2 Potential charging requirements

**REQ-CH\_ UAS\_C2-01:** The 5G system should support collecting charging information for UTM-Navigated C2 Communication.

### 5.x.3 Key issues

The following key issues are identified to support charging considering REQ-CH\_ UAS\_C2-01:

- **Key Issue #xa**: determination of which entity/entities in the 5G system are suitable to provide the charging information to support C2 Communication.

- **Key Issue #xb**: identification and classification of the chargeable event and charging information for C2 Communication.

### 5.x.4 Possible solutions

TBD

### 5.x.5 Evaluation

TBD

### 5.x.6 Conclusion

TBD

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| **End of changes** |