**3GPP TSG-WG SA2 Meeting #139E e-meeting *S2-200xxxx***

**Elbonia, August 19 – September 1, 2020 (revision of S2-200xxxx)**

**Source: Huawei, HiSilicon**

**Title: KI#2: evaluation and conclusion**

**Document for: Approval**

**Agenda Item: 8.7**

**Work Item / Release: FS\_ID\_UAS / Rel-17**

*Abstract: This contribution proposes evaluations on key issue 2.*

# 1. Discussion

Key Issue #2 “UAV authorization by UTM” has several similar solutions in the TR. Among which, common aspects are observed, and based on those, the following interim agreements are proposed:

* A new Control Plane NF “UAS AF” is introduced in the 5GS for handling interaction between UAV and UTM.
* How UTM authorizes UAV has four options as documented in solution 5.

With regard to Solution 4, it is observed that solution 5 option 2 covers the idea of it. Other solutions #6, #7 and #8 are proposed to be merged to solution #5, as indicated in paper S2-200xxxxx.

# 2. Text Proposal

It is proposed to capture the following changes vs. TR 23.754.

\* \* \* \* First change \* \* \* \*

# 7 Evaluation

Editor's note: This clause will provide a general evaluation of the solutions.

## 7.2 Key Issue #2: UAV authorization by UTM

Key issue #2 “UAV authorization by UTM” has several similar solutions in the TR. Among which, common aspects are observed, and based on those, interim agreements are proposed:

- A new Control Plane NF “UAS AF” is introduced in the 5GS for handling interaction between UAV and UTM.

- How UTM authorizes UAV has four options as documented in solution 5.

8 Conclusions

Editor's note: This clause will capture conclusions from the study.

## 8.2 Key Issue #2: UAV authorization by UTM

Interim agreements of key issue #2 are as follow:

- Solution 5 is the way forward to address key issue #2.

- A separate 5GC NF (UAS AF) is responsible for handling the UAV UE authorization procedure with UTM.

- UAS AF is responsible for UAV UE contexts management, including the authorization status notified by UTM.

\* \* \* \* End of changes \* \* \* \*