**3GPP TSG-SA WG6 Meeting #38-e S6-201039**

**e-meeting, 20th – 31st July 2020**

**Source: Tencent**

**Title: Pseudo-CR on Key issue: UAV Aeronautical data communication with USS/UTM**

**Spec: 3GPP R 23.755**

**Agenda item: 8.5**

**Document for: Approval**

**Contact: shuaiizhao@tencent.com**

**1. Introduction**

It was recognized from the LS sent back from SA1 regarding LS S6-200620 that “Indicated parameters show by which means the UAV and UAV controller shall be identified and inform that list of identification data sent towards the UTM could be quite long”. It is essential for SA6, when defining application enablers, to recognize how UAV data communication might be happening and how data would be formed.

This pCR proposes a key issue to be studied on data communication characteristics in terms of data size, format and whether and how to use existing network protocols for such a data processing.

**2. Reason for Change**

The interactions between the UAV and the USS/UTM need to be listed and analysed so as to define the appropriate application layer methods and interfaces.

**3. Conclusions**

**4. Proposal**

It is proposed to discuss and agree on the addition of a key issue in the TR 23.755. A pCR under S6-200XXX is provided as an informative study guideline.

\* \* \* First Change \* \* \* \*

## 5.x Key issue #X: UAV Aeronautical Data communication with USS/UTM

The UAV data specified in TS 22.125 [3] indicated potential aeronautical parameters communicated between UAV and USS/UTM.

Hence, it is required to study the following:

- ~~Which aeronautical data exchanged between UAV and USS/UTM through 3GPP networks have impacts on UAV application enabler layer architecture design~~

- whether and how aeronautical data exchanged between UAV and USS/UTM through 3GPP networks may have impact on UAV application layer architecture design

NOTE: How data is authenticated is not in scope of SA6.

- How the application enabler layer handles data communication in terms of client/server architecture design, data processing and transfer protocol.