**3GPP TSG-SA3 Meeting #100bis-e *S3-202390r1***

**e-meeting, 12 - 23 October 2020** Revision of S3-20xxxx

**Source: Huawei, HiSilicon**

**Title: pCR – A solution to UAS ID privacy protection**

**Document for: Approval**

**Agenda Item: 2.7**

# 1 Decision/action requested

***Approve this contribution to add a solution in TR33.854***

# 2 References

[1]

# 3 Rationale

The contribution proposes a solution to address Key issue #5: Privacy protection of UAS identities

# 4 Detailed proposal

pCR

\*\*\* BEGINNING OF CHANGES (all text are new) \*\*\*

## 6.X Solution #X: Privacy protection to broadcast UAS identities and identifiers

### 6.X.1 Solution overview

This solution addresses the Key issue #5: Privacy protection of UAS identities.

This solution is to protect various UAS identities or identifiers that broadcast during RID procedure. These identiies and/or identifiers may lead to leaking privacy information or cause being trackable by adversaries.

This solution relies mostly on PC5 interface or mechanisms that is developed in V2X applications.

Note: RID broadcast using non-3GPP access, e.g. Wi-Fi, is out of scope of this solution.

Note: This solution is referencing the interface UAV1 as defined in TR23.754.

### 6.X.2 Solution details

Based on regulatory requirements, RID information broadcast in the wireless channel may include vaious identities/identifiers/trackable information, e.g., position, owner identity, owner address, owner contact details, owner certification, UAV operator identity, UAV operator license, UAV operator certification, UAV pilot identity, UAV pilot license, UAV pilot certification and flight plan etc. In this solotion, it is proposed to encrypt and integrity protect all these RID information, except for the tempraty IDs used for the 3GPP system to identify the UAV or UE, e.g. L2ID, GUTI.

### 6.X.3 Solution evaluation

TBC

\*\*\* END OF CHANGES \*\*\*