**3GPP TSG-SA3 Meeting #115AdHoc-e *draft\_S3-241381r2***

Electronic meeting, online, 15 - 19 April 2024

**Source: Huawei, HiSilicon**

**Title: New key issue for NWDAA**

**Document for: Approval**

**Agenda Item: 5.11**

# 1 Decision/action requested

***Approve to include the PCR for TR 33.759***

# 2 References

# 3 Rationale

The contribution proposes a new key issue for this study.

# 4 Detailed proposal

pCR

\*\*\* BEGINNING OF 1st CHANGES \*\*\*

## X.1 Key issue # X: security enhancements for NWDAA

### X.1.1 Key issue details

In the TR 23.700-59 [x1], Network-assisted/ground-based mechanism for DAA (NWDAA) is introduced for tactical deconfliction, collision avoidance, and UTM control of UAV flight paths. Based on the solutions accepted in the TR 23.700-59 [x1], ~~e.g. solutions #5 and #6,~~ the NWDAA procedure can be initiated by a UE (as a UAV/UAV-C) or a third-party AF (as a UTM) for location information of a group of UAVs. It should be studied how to authorize the UAV/UAV-C or UTM before performng the NWDAA procedure. It should also be studied whether such information is authorized to be exposed to the UAV/UAV-C or UTM.

### X.1.2 Threats

If a UE or third-party AF is not authorized for the NWDAA procedure, UAV location information may be leaked to a compromised UE or a third-party AF.

### X.1.3 Potential security requirements

The 5G system shall authorize a UE or a third-party AF before performing the NWDAA procedure.

 \*\*\* END OF 1st CHANGES \*\*\*

\*\*\* BEGINNING OF 2nd CHANGES \*\*\*

# 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".

[x1] 3GPP TR 23.700-59: "Study on architecture enhancements of UAS, UAV and UAM; Phase 3"

 \*\*\* END OF 2nd CHANGES \*\*\*