**3GPP TSG-SA3 Meeting #115AdHoc-e *S3-241381r1***

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 UAM) or a third-party AF (as a UTM) for location information of a group of UAVs. It should be studied how to authorize the UAM or UTM before performng the NWDAA procedure. It should also be studied whether such information is authorized to be exposed to the UAM 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 \*\*\*