3GPP TSG RAN WG3 Meeting #129 R3-255816

Bengaluru, India, 25th-29th August 2025

**Title: Reply LS on clarification of UAV regulation from SA2**

**Response to: R3-253020/S2-2504471**

**Release: Release**

**Work Item: UAS\_Ph3**

**Source: RAN3**

**To: SA2**

**Cc:**

**Contact person: Miaoqi Zhang**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** **mailto:3GPPLiaison@etsi.org**

**Attachments:**

1. **Overall Description:**

RAN3 thanks SA2 for the reply LS on clarification of UAV regulation. RAN3 further discussed the topic based on the clarifications provided by SA2 and the new procedure described in TS 23.256 clause 5.16.4 to instruct an aerial UE to stop and/or update an ongoing altitude reporting.

RAN3 agreed to enha the NGAP Location Reporting Failure Indication procedure by introducing a new IE “Aerial UE flight information ongoing reporting failed” to indicate from gNB to CN the failure of an ongoing aerial UE flight information reporting, and a new cause value “Aerial UE flight information reporting initiation failure” indicating the failure at initiation of aerial UE flight information reporting request.

In the procedure for instructing aerial UEs to perform altitude reporting specified in clause 5.16.2 in TS 23.256, the UAS NF/NEF may include the derived altitude thresholds and indication about reporting periodicity for the UE's altitude reporting. Accordingly, the AMF sends the LOCATION REPORTING CONTROL message to the NG-RAN node containing a single aerial UE reporting configuration which consists of one pair of derived altitude thresholds (i.e., minimum and maximum altitude thresholds) and optionally reporting periodicity.

RAN3 seeks for further clarification from SA2 on whether the gNB can be provided with multiple aerial UE reporting configurations from the AMF for the same aerial UE. If this is the case, RAN3 asks whether this implies that the gNB needs to configure the UAV UE with multiple aerial UE flight information configurations to the concerned UAV UE, and whether the gNB is expected to report to AMF multiple altitude reporting for this UAV UE according to each of the reporting configurations provided to the UAV UE.

1. **Actions:**

**To SA2 group:**

**ACTION:** RAN3 respectfully asks SA2 to take the above information into account and provide feedback accordingly.

1. **Dates of next TSG RAN WG3 meetings**

TSG-RAN WG3 Meeting #129bis 13-17 Oct 2025 Prague, CZ

TSG-RAN WG3 Meeting #130 17-21 Nov 2025 Dallas, US