**3GPP TSG-WG SA2 Meeting #166 S2-2412736**

**18 - 22 November, 2024, Orlando, USA**

Title: Reply LS on UAV regulation

Response to: LS on UAV regulation (S2-2411303/R3-245815)

Release: Rel-19

Work Item: TEI 19

Source: SA2

To: RAN3

Cc: RAN, SA, SA1

**Contact Person:**

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

Attachments:

**1. Overall Description:**

SA2 would like to thank RAN3 regarding the LS on UAV regulation. SA2 provides following answers to RAN3 questions.

**RAN3 Question**: During RAN3#125bis meeting, RAN3 has discussed whether to convey flight information e.g. altitude and velocity, from RAN to CN for control and management of the R18 UAV UEs and legacy devices (i.e. a Rel-15/16/17 device and non-UAV Rel-18 device) equipped in an aerial vehicle, based on operator’s contribution.

RAN3 would like to ask for the guidance from SA2 whether it is a requirement for NG-RAN node to provide flight information to CN for the following cases:

1. R18 UAV UEs;

 2. Legacy devices (non-UAV device);

**SA2 Reply:**

-On Question 2, SA2 has discussed and concluded that no such requirements nor solutions exist for non-UAV legacy devices and as such SA2 requests RAN does not consider this requirement.

-On Question 1, SA2 does not have any requirement dealing with Rel-18 UAV UEs, but SA2 believes current SA2 work for Rel-19 on an unrelated use case requires AMF to get flight information such as altitude and velocity.

SA2 is specifying a new feature “Pre-flight Planning and In-flight Monitoring for UAVs” in clause 5.12, and USS changeover in clause 5.13 in TS 23.256. In case of in-flight monitoring for UAV, USS/UTM, may request for flight assistance information and that network notifies the USS if UAV deviates from the defined flight path including the UAV altitude and velocity.

SA2 agrees the UAV altitude and velocity can be received from NG-RAN, reusing the existing feature eventH1/H2 reporting together with additional trigger from the core network as being specified in Rel-19.

Availability of such information is applicable to any UAV UE(s) that support the relevant procedures.

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**2. Actions:**

**To RAN3 group.**

**ACTION:** SA2 kindly asks RAN3 to take above information into consideration.

**3. Date of Next TSG SA WG2 Meetings:**

TSG-SA2 Meeting#166 Ad Hoc-e January 20 – 24, 2025 Online

TSG-SA2 Meeting#167 February 17 – 21, 2025 Athens, Greece