**3GPP TSG RAN WG2#117-e R2-220xxxx**

**Online meeting, February 21st – March 3rd, 2022**

Title: LS on UE location in connected mode in NTN

Response to: -

Release: Release 17

Source: Thales (to be RAN2)

To: SA3

Cc: SA2, RAN3, CT1

**Contact Person:**

Name: Nicolas Chuberre

E-mail Address: nicolas.chuberre@thalesaleniaspace.com

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

Attachments: None

**1. Overall Description:**

RAN2 had decided (see R2-2109216) that the UE may report to the NG-RAN *its coarse GNSS coordinates during initial access (before AS security is activated).*The reporting would be under network control (i.e. it could be disabled if/when needed).

Based on SA3 (see R2-2200149/S3-214360 ”Reply LS on UE location aspects in NTN” (CATT)) and SA2 feedbacks (see R2-2203829/S2-2201540 “LS Response to LS on UE location during initial access in NTN” (QC)), RAN2 discussed an alternative solution described here below:

If NTN specific User Consent for sending fine UE location information (full GNSS coordinates) will not be available in Rel-17, RAN2 is considering the solution where, upon network request, after AS security/connected mode is established, a UE can report a coarse UE location information (Most Significant Bits of its GNSS coordinates) to the NG-RAN.

In case the UE cannot/does not want to provide coarse UE location information, it may report “*No coarse UE location information available*”.

RAN2 is requesting SA3 to come back on this solution if they have any concern.

**2. Actions:**

**To** **SA3, Copy SA2, RAN3, CT1**

**ACTION:** RAN2 kindly asks SA3 to consider the above.

**3. Date of Next RAN2 Meetings:**

TSG-RAN WG2#118- e May 16 – 27th, 2022 Online meeting