**3GPP TSG RAN WG2#117-e R2-2204113**

**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:**

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

Attachments: None

**1. Overall Description:**

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:

As per SA3 reply in S3-213823/ R2-2109199 “Reply LS on NTN specific User Consent”, RAN2 assumes now it may be late to extend the user consent framework of TS 33.501 to cover NTN in Rel-17 but other methods e.g., user consent based on NTN subscription or existing methods like for MDT/SON can be available in Rel-17. If any method for 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 in connected mode is established, a UE can report a coarse UE location information (X most Significant Bits of its GNSS coordinates) to the NG-RAN without user consent for NTN which may be studied by SA3 in Rel-18.

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

RAN2 is requesting SA3 to check if they have any concern.

**2. Actions:**

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

**ACTION:** RAN2 respectfully asks SA3 to consider above and provide feedback.

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

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