**3GPP TSG-RAN WG2 #113-e draft R2-2102055**

**e-meeting, 25th January – 5th February 2021 *revised from R2\_2102036***

Title: [DRAFT] LS on UE location aspects in NTN

Release: Release 17

Work Item: NR\_NTN\_solutions-Core, 5GSAT\_ARCH

Source: Thales [to be RAN2]

To: SA2, SA3-LI, RAN3

Cc: SA3, CT1

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Attachments: None

**1. Overall Description:**

As part of the WI NR-NTN-solutions, RAN2 has been discussing how to meet SA3-LI and SA2 requirements with regards to regulatory services (including e.g. lawful intercept).

To specify the necessary NG-RAN and UE functions, RAN2 would like to point your attention to the following.

In RAN2’s understanding, the NG-RAN requires UE’s location information in order to

- Perform Core Network selection in certain scenarios;

- Construct mapped cell ID in User Location Information (ULI) sent to the Core Network including in NGAP “Initial UE Message” in certain scenarios (e.g. moving Uu cells).

The NG-RAN can use the following assistance information:

- TAC and cell ID of the serving cell;

- Mobility measurements requested by RAN and reported by the UE (as described in TSs 38.300 and 38.331);

- UE position, obtained by GNSS, based on measurements provided by the UE (as defined in TS 38.305) after AS security has been enabled.

* **Question 1: RAN2 would like to ask RAN3, SA3-LI and SA2 to confirm whether the current functionality identified above is sufficient for use in Non-Terrestrial Networks including initial registration procedure.**
* **Question 2: RAN2 would like to ask SA3-LI to confirm whether A-GNSS based UE location information, i.e. computed at network using A-GNSS based measurements provided by UE, or computed by UE, can be considered reliable e.g. for lawful interception.**

**2. Actions:**

**To** **SA WG2, RAN WG3, SA WG3 and SA WG3-LI.**

**ACTION:** RAN2 respectfully asks SA2, SA3-LI and RAN WG3 to take the above into account and provide feedback on the above question.

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

RAN2#113-bis-e 12th – 20th April 2021 Electronic meeting

RAN2#114-e 19th – 27th May 2021 Electronic meeting