**3GPP TSG-RAN WG2 #113-e draft R2-2102036**

**e-meeting, 25th January – 5th February 2021**

Title: [DRAFT] LS about location requirements for NTN

Release: Release 17

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

Source: Thales [to be RAN2]

To: SA2, SA3-LI, RAN3, SA3

Cc:

**Contact Person:**

Name: Nicolas Chuberre

Tel. Number:

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:**

As part of the WI NR-NTN-solutions, RAN2 has been discussing requirement to provide a reliable and accurate UE’s location to meet SA3-LI and SA2 requirements.

To further develop related NG-RAN and UE functions, RAN2 would like to receive response from SA2, RAN3, SA3 and SA3-LI on the following questions.

* **Question 1: RAN2 would like to ask RAN3 and SA2 whether finer granularity for UE location information than achievable by the network’s knowledge of the beam position and knowledge gained from UE’s mobility measurement is needed for some Non-Terrestrial Networks whose cell size is larger than the typical cell size of terrestrial networks.**
* **Question 2: RAN2 would like to ask SA3 and SA3-LI if, in NTN scenarios, the UE location information in Location Service Response computed either at network side using A-GNSS based on measurements provided by UE, or by UE as defined in TS 38.305, can be considered reliable.**

**2. Actions:**

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

**ACTION:** RAN2 respectfully asks SA2**, RAN WG3, SA WG3** and SA3-LI to answer the questions above.

**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