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

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

Title: [DRAFT] LS to SA2 & SA3-LI 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

Cc: RAN3, SA3

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Attachments: None

**1. Overall Description:**

As part of the WI NR-NTN-solutions, RAN2 has been discussing the support of LCS in Non-Terrestrial Networks (NTN) which encompass Satellite and HAPS based access networks.

RAN2 would like to further understand requirements applying to LCS in the context of NTN, for example to support regulatory requirements.

* **Question 1: RAN2 would like to ask ~~to~~ SA2 whether ~~a~~ finer granularity for UE location information is needed in NTN due to the ~~compared to~~ atypically large cell sizes ~~of non-terrestrial network~~ (e.g. thousands of km edge to edge, see TR 38.821 on table 4.2-2: Reference scenario parameters).**
* **Question 2: RAN2 would like to ask SA3-LI ~~whether~~ if, in these NTN scenarios, the UE location information computed at network side using A-GNSS based on measurements provided by UE, as defined in TS 38.305 in UE-assisted, LMF-based mode, can be considered reliable.**

**2. Actions:**

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

**ACTION:** RAN2 respectfully asks SA2 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

RAN2#115 23th – 27th August 2021 Toulouse, France