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

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

Title: [DRAFT] LS to SA3 & SA3-LI about location requirements for NTN

Release: Release 17

Work Item: NR\_NTN\_solutions, 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.

* **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~~ (thousands of km edge to edge, see TR 38.821 on table 4.2-2: Reference scenario parameters).**

In case the response to question 1 is positive

* **Question 2: RAN2 would like to ask to 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 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