**3GPP SA3LI#81e-a *S3i210282***

**eMeeting, 12-16 April 2021**

Title: DRAFT Reply LS on UE location aspects in NTN

Release: Release 17

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

Source: SA3-LI

To: RAN2

Cc: CT1, SA2, RAN3,SA3, ETSI TC LI

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Attachments: None

**1. Overall Description:**

SA3LI thanks RAN2 for the following questions, asked in relation to the procedures used by the NG-RAN to perform core network selection and construction of cell IDs:

* **Question 1: RAN2 would like to ask RAN3, SA3-LI and SA2 to confirm whether the current functionality identified [in s3i210204] is sufficient for use in Non-Terrestrial Networks including initial registration procedure.**

SA3LI believes that the functionality described is sufficient if it provides comparable levels of assurance and granularity to terrestrial network cell sizes (as per our previous LS S3i2000056). If the levels of assurance and granularity are not comparable, then it is unlikely to be sufficient. SA3LI would welcome further clarity from the RAN groups and SA2 on which is likely to be the case.

* **Question 2: RAN2 would like to ask SA3 and 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.**

SA3LI notes that any method which relies solely on UE-generated location information is unlikely to be considered reliable for network selection purposes. Therefore, a method such as GNSS/A-GNSS for which the information provided by the UE cannot be verified by the network, cannot be considered as reliable/trusted. In the event that the available location information is insufficient for the AMF to determine the UE location with comparable accuracy and reliability to terrestrial networks, SA3LI considers that invocation of LCS procedures via the LMF may be necessary to fulfil regulatory obligation.

Separately from this discussion, and for the avoidance of doubt, LI generally requires the ability to report any location information available to the network (whether considered reliable or not), together with an indication of how the location was obtained so that the "reliability" of the location can be determined by Law Enforcement.

**2. Actions:**

**To RAN2, CT1, SA2, RAN3 and SA3**

**ACTION:** SA3LI respectfully asks RAN 2, SA2, SA3 and RAN3 to take the above into account.

**3. Date of Next SA3-LI Meetings:**

SA3#81-LI-e-b 19th – 21st May 2021 Electronic meeting

SA3#82-LI-e 12th – 16th July 2021 Electronic meeting