**3GPP TSG-RAN WG3 Meeting #113-eR3-21xxxx**

**E-meeting, 16 – 26 August, 2021**

**Title:** [Draft] Reply LS on UE location aspects in NTN

**Response to:** New LS on UE location aspects in NTN (R2-2106543/R3-213116);

**Release:** Rel-17

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

Source: CATT (to be RAN3)

To: RAN2, SA2, SA3, SA3-LI

CC: CT1

Contact Person: Jiancheng SUN

E-mail Address: sunjiancheng (at) catt (dot) com

**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

**1. Overall Description:**

RAN3 thanks RAN2 for the LS on UE location aspects in NTN.

RAN3 discussed and confirmed that it’s NG-RAN to do the CGI mapping based on the received UE location info from the UE. How to do the mapping is pre-configured (e.g., up to operator’s policy) or up to implementation.

However, some companies in RAN3 pointed out it may not be possible for NG-RAN to do accurate mapping from UE location with “~2km” accuracy to a “~2km” geographical fixed area, as there’s high possibility that the reported UE location across several geographical fixed cells. That means the mapped CGI provided to 5GC may not be able to accurately reflect the real UE location for both connected mode and during initial access.

Therefore, we would like to ask RAN2, SA2, SA3 and SA3-LI if the ambiguity of the mapped CGI reported to 5GC in the ULI is acceptable.

**2. Actions:**

**To RAN2, SA2, SA3, SA3-LI group**

**ACTION:** RAN3 kindly asks RAN2, SA2, SA3 and SA3-LI to take above info into consideration.

**3. Date of Next RAN3 Meetings:**

RAN3#114-e 1st Nov. – 11th Nov. 2021 Online

RAN3#115-e 21st Feb. – 25th Feb. 2022 Athens, GR