**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);

LS on UE location aspects in NTN from SA3 (R3-213133);

**Release:** Rel-17

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

Source: CATT (to be RAN3)

To: RAN2, SA2, SA3, SA3-LI

CC: CT1

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

**1. Overall Description:**

RAN3 thanks SA3 and RAN2 for the LS on UE location aspects in NTN.

**To the questions of SA3:**

We would like to draw SA3’s attention to the fact that core network selection by the RAN (including NNSF) is in RAN3 scope. The corresponding text is already present in the RAN3 BL CR for NG interface Stage 2 (TS 38.410), R3-211486: “When the NG-RAN node is configured to ensure that the selected AMF serves the country where the UE is located, as described in TS 23.501 [8], the NG-RAN node takes into account UE location information, if available, when determining the AMF”.

**To the LS of RAN2:**

1. 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.
2. 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.
3. 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