**3GPP TSG-RAN WG2 Meeting #114-e draft** R2-2106543

**Electronic meeting, 2021-05-19 – 2021-05-27**

**Title: draft** New LS on UE location aspects in NTN

**Response to:** -

**Release:** Release 17

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

**Source:** CATT [to be: RAN2]

**To:** RAN3, SA2, SA3, SA3-LI, CT1

**Cc:** -

**Contact Person:**

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**1. Overall Description:**

As a follow-up information on top of what already indicated in the previous LS in R2-2102055 on UE location aspects in NTN, RAN2 would like to inform RAN3, SA2, SA3, SA3-LI and CT1 that RAN2 will be discussing a solution to ensure that the CGI constructed by NG-RAN corresponds to a fixed geographical area with a size comparable with a TN cell with a radius of ~2km for both connected mode and during initial access. In other words, RAN2 intends to develop a solution, where the UE and/or the gNB would report the UE location to the core network, with a guaranteed accuracy of an area of ~2km radius (and no better than that).

This “~2km” is not to be understood as a recommended cell size for NTN, but rather as an achievable accuracy for initial UE location estimation for this particular use case.

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**2. Actions:**

**To SA WG3**

**ACTION:** RAN2 would like to ask SA3 whether there is privacy concern if a UE reports the location information to NG-RAN with ~2km radius accuracy before AS security is established, e.g. during initial access.

**To RAN WG3, SA WG2, SA WG3, SA WG3-LI and CT WG1**

**ACTION:** RAN2 kindly asks the above groups to take the above information into account and provide any feedback if needed.

**3. Date of Next RAN2 Meetings:**

3GPP RAN2#115-e 16th – 27th August 2021 Electronic Meeting

3GPP RAN2#116-e 1st – 12th November 2021 Electronic Meeting