**3GPP TSG-SA3 Meeting #105-e *S3-214168-r1***

e-meeting, 8 - 19 November 2021

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

**Response to: LS (S3-213822/R2-2109217) on UE location aspects in NTN**

**Release: Rel-17**

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

**Source: Xiaomi [to be SA3]**

**To:** **RAN2**

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

**Contact person: Wei Lu**

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

**Attachments:** NONE

# 1 Overall description

SA3 would like to thank RAN2 for their reply LS S3-213822/R2-2109217 on UE location aspects in NTN.

Based on RAN2’s clarification to the questions raised by SA3, SA3 would like to follow up and provide the following complementary views:

- The A-GNSS based measurements are provided by the UE after AS security establishment, hence are integrity protected against tampering during transmission.

- As per R2-2109217, the A-GNSS based measurements are sent for core network reselection after initial core network selection, it means that the A-GNSS based measurements provided by the UE in NTN are used in LCS procedure initiated for core network reselection. Therefore, the reliability of the UE-provided A-GNSS based measurements used in NTN is at the same level of the reliability requirement for LCS services.

In summary, SA3 believes that the UE-provided A-GNSS based measurements protected with AS security used in NTN can be considered as in the same reliability level as that of the UE-provided A-GNSS based measurements used in the existing positioning methods for LCS services.

# 2 Actions

**To RAN2, CT1, SA2, SA3-LI, RAN3**

**ACTION:** SA3 kindly asks RAN2, CT1, SA2, SA3-LI and RAN3 to take the above into account.

# 3 Dates of next TSG SA WG3 meetings

SA3#106 7-11 February 2022 TBD

SA3#106-Bis 4 - 8 April 2022 TBD