**3GPP TSG-SA3 Meeting #105-edraft\_S3-214103-r4**

**e-meeting, 08 – 19 November 2021**

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

**Response to: LS (S3-213820/R2-2106543) on UE location aspects in NTN**

**Release: Rel-17**

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

**Source: SA3**

**To:** **RAN2**

**Cc: RAN1, RAN3, SA2, SA3-LI, CT1**

**Contact person: Wei Zhou**

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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 LS on UE location aspects in NTN.

SA3 discussed the assumption of RAN2, and could not agree on a specific additional security issues caused by the UE sending location information to the gNB with an accuracy equivalent to typical TN cell size. However, unprotected , and will need more time to give complete a proper risk analysis and give a definitive answer

If a permanent ID (e.g. SUPI/IMSI) is sent together with the location information unprotected at initial access, SA3 is of the view that there could be a privacy issue.

SA3 would also like to remind that the UE location information the network is relying on for AMF selection may not be reliable due to lack of integrity protection.

Therefore SA3 recommends that RAN2 defines a solution preventing the sending of unprotected UE related location information to the gNB before AS security is established. If not possible, RAN2's proposed solution could be acceptable for the time being.

# 2 Actions

**To RAN1, RNA2, RAN3, SA2, SA3-LI and CT1**

**ACTION:** 3GPP TSG SA WG3 would like RAN1, RAN2, RAN3, SA2, SA3-LI and CT1 to take the above feedback into account.

# 3 Dates of next TSG SA WG3 meetings

SA3#106 07 – 11 February 2022 EU, EU

SA3#106-bis 04 – 08 April 2022 TBD, US