**3GPP TSG RAN WG2#116-bis-e draft R2-2201744**

**Online meeting, January 17-25th, 2022**

Title: [draft] LS on UE location during initial access in NTN

Response to: -

Release: Release 17

Source: Thales [to be RAN2]

To: SA2, RAN3

Cc: CT1, SA3

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Attachments: None

**1. Overall Description:**

RAN2 had decided (see R2-2109216) that the UE may report to the NG-RAN *its coarse GNSS coordinates during initial access (before AS security is activated).*The reporting would be under network control (i.e. it could be disabled if/when needed).

Following liaisons from SA2, SA3 and RAN3 (see R2-2200145/S2-2109337, R2-2200149/S3-214360, R2-2202542/S3i200056) on this, RAN2 is discussing how to progress and requires the views of SA2 and RAN3 to take its decision.

Due to possible privacy issues indicated by SA3, RAN2 may decide that UE does not report to the NG-RAN its coarse GNSS coordinates during initial access (before AS security is activated). RAN2 assumes UE location information can be reported after AS security is activated and network has NTN specific user consent. RAN2 has asked SA3 to work on the NTN specific user consent in Rel-17. RAN2 also understands that, if needed, 5G-AN can reselect an AMF serving a PLMN corresponding to the reported UE's current location. This location can be determined by the AMF by invoking UE location procedure (LCS) in connected mode(once AS security is activated) and provided to the 5G-AN.

However, RAN2 is unclear whether there would be any issues with this (e.g. when NTN beam covers several countries and un-cooperating PLMN) ?

RAN2 would then like to ask SA2/RAN3 if it's acceptable that no UE location information is available at the NG-RAN in a NTN network during initial access.

**2. Actions:**

**To** **SA2, RAN3**

**ACTION:** RAN2 kindly asks SA2, RAN3 to answer the question above.

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

TSG-RAN WG2#117- e February 21st – March 3rd, 2022 Online meeting