**3GPP TSG-RAN WG3 #109-e R3-20xxxx**

**17 – 28 August 2020**

Title: [DRAFT] Reply LS on SA WG2 assumptions from conclusion of study on architecture aspects for using satellite access in 5G

Response to: LS on SA WG2 assumptions from conclusion of study on architecture aspects for using satellite access in 5G (SP-2004688/R3-204616)

Release: Release 17

Source: Qualcomm Incorporated [to be RAN3]

To: SA2, RAN2, CT1

Cc:

**Contact Person:**

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

Attachments: None

**1. Overall Description:**

RAN3 would like to thank SA2 for the LS on assumptions after conclusion of the study on architecture aspects for using satellite access in 5G.

Regarding the question posed by SA2, RAN3 has initiated its work on the related release 17 work item, which targets both GEO and LEO systems (the latter comprising both earth-fixed and moving cell scenarios). RAN3 expects to further study this topic in conjunction with RAN2 during release 17 but can offer the following initial considerations.

The cell ID provided by the RAN is included in the User Location Information (ULI), which is present in many uplink NGAP messages. In GEO and fixed-earth cell LEO scenarios, the interaction between RAN and CN should be very similar to terrestrial systems, and the information in the ULI should be handled in the same way. In LEO scenarios with moving cells, the cell coverage for a specific cell identity may move within a geographical area as the satellite moves. RAN3 noted SA2 agreed solution that the AMF can trigger UE positioning procedure.

**2. Actions:**

**To** **SA WG2, RAN WG2, and CT WG1 groups.**

**ACTION:** RAN3 kindly asks SA WG2, RAN WG2, and CT WG1 to take the above information into account, and inform RAN3 of further progress on this topic.

**3. Date of Next RAN3 Meetings:**

RAN3#110-e November 2020 Electronic meeting