3GPP TSG RAN WG2 Meeting #114 R2-210xxxx

**Electronic meeting, 19th-27th May 2021**

**Title:** [draft] LS to RAN1 on UL positioning in RRC\_INACTIVE

**Reply to:**

**Release:** Rel-17

**Work Item:** NR\_pos\_enh-Core

**Source:** Intel (to be: RAN WG2)

**To:** RAN WG1

**Cc:**

**Contact Person:**

**Name:** Yi Guo

**Email Address:** yi.guo@intel.com

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

**Attachments:** None

**1. Overall Description:**

During RAN2#114-e meeting, RAN2 has discussed the support of positioning in RRC\_INACTIVE and made the following set of agreements regarding use of SDT framework for positioning in RRC\_INACTIVE:

* RAN2 agreed that the UE in RRC\_INACTIVE can send any uplink LCS or LPP message using Rel-17 SDT frame work as:

Agreements:

Any uplink LCS or LPP message can be transported in RRC\_INACTIVE from RAN2 perspective.

* RAN2 also agreed that the network may conditionally send DL messages for UE in RRC\_INACTIVE using Rel-17 SDT framework as:

Agreements:

Follow Rel-17 SDT framework for INACTIVE UL and DL positioning:

 If the UE initiated data transmission using UL SDT, the network can send DL LCS, LPP message and RRC message (e.g. to configure SRS (TBD on what message is used), if UL positioning supported) to the UE.

 Otherwise, if UE did not initiate UL SDT, rely on legacy operation, i.e. the network shall transition the UE to RRC\_CONNECTED, e.g. based on RAN paging.

Note that RAN2 discussed the 2nd priority objectives for UL/UL+DL positioning in RRC\_INACTIVE on the configuration in UL positioning and so far, has not reached any conclusion considering it is still open in RAN1 on how positioning SRS should be used for UE in RRC\_INACTIVE. RAN2 will continue the work as time permits.

**2. Actions:**

**To RAN1 group.**

**ACTION:** RAN2 respectfully requests RAN1 to take the above RAN2 agreements into account.

**3. Date of Next TSG-RAN WG2 Meetings:**

TSG-RAN WG2 Meeting #115-e 16 – 27 August 2021 Electronic Meeting

TSG-RAN WG2 Meeting #116-e 01 – 12 November 2021 Electronic Meeting