3GPP TSG-RAN WG2 Meeting #117-eR2-22xxxx

**Electronic, February 21 – March 3, 2022**

**Title: [draft] LS on Positioning in RRC\_INACTIVE State**

**Release:** Rel-17

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

**Source:** Qualcomm Incorporated (to be RAN2)

**To:** SA2

**Cc:** RAN3

**Contact Person:**

#### Name:                   Sven Fischer

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**1. Overall Description:**

RAN2 has technically endorsed the attached "Low Power Periodic and Triggered 5GC-MT-LR Procedures with SDT" for DL-only and RAT-Independent positioning, for UL-only positioning, and for UL+DL positioning. These procedures are analogous to the "Low Power Periodic and Triggered 5GC-MT-LR Procedures" specified in clause 6.7 of TS 23.273 but making use of the NR Small Data Transmission (SDT) feature in RRC\_INACTIVE state instead of the LTE EDT feature in RRC\_IDLE state currently used in clause 6.7 of TS 23.273.

RAN2 believes that these procedures may be best captured in TS 23.273 as an alternative to Figure 6.7.1-1 when the Event Reports can be sent using NR SDT. Accordingly, RAN2 would like to ask SA2 whether support can be provided for the attached procedures in TS 23.273 and, if so, to add support to TS 23.273 as part of Release 17.

RAN2 would also like to inform SA2 about the following agreements made:

 Agreements:

Exposure of the RRC state of the UE to the LPP layer of the UE for RRC\_INACTIVE UL and DL positioning will not be specified. This does not exclude cross-layer behaviour in implementations.

The RRC state of the UE is not exposed to the LMF for INACTIVE UL and DL positioning.

**2. Actions:**

**To SA2 group.**

**ACTION:** RAN2 kindly asks SA2 to review the attached "Low Power Periodic and Triggered 5GC-MT-LR Procedures with SDT", determine whether support can be provided for the attached procedure in TS 23.273 and, if so, to add support to TS 23.273 as part of Release 17.

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

TSG-RAN2 Meeting #118-e 16-27 May 2022 Electronic Meeting

TSG-RAN2 Meeting #119-e 22-26 August 2022 Electronic Meeting

Editor's Note: The procedures in Annex A, B,C of the discussion template will be attached.