**3GPP TSG RAN WG4 Meeting #104-e R4-221xxxx**

**Electronic Meeting, 15 – 26 August, 2022**

**Title:** LS on CG-SDT configuration for SDT data transmission in RRC\_INACTIVE

**Response to:**

**Release:** Rel-17

**Work Item:** NR\_SmallData\_INACTIVE-Core

**Source:** RAN WG4

**To:** RAN WG2

**Cc:**

**Contact Person:**

#### Name: Santhan Thangarasa

#### E-mail Address: santhan.thangarasa@ericsson.com

**Attachments:**

**1. Overall Description:**

TA validation requirements of CG-SDT in TS 38.133 contains definitions of two valid measurements that are used for validating the TA. The validity of the measurements is expressed as function of T1 which has following definition:

*- T1 is the time when*

*- RRCRelease with CG-SDT configuration (TS 38.331 [2]) is received when changing from RRC\_CONNECTED to RRC\_INACTIVE state*

*- the latest MAC CE TA command is received if TA command is received while in RRC\_INACITVE state.*

RAN4 has discussed the above definition of T1 with respect reception of *RRCRelease* with CG-SDT configuration containing TA and has following questions to RAN2:

Question: Whether *RRCRelease* containing CG-SDT configuration can be received

1. When transitioning from RRC\_CONNECTED to RRC\_IDLE
2. While in RRC\_INACTIVE
3. Both from RRC\_CONNECTED to RRC\_IDLE and while in RRC\_INACTIVE

**2. Actions:**

**To: RAN WG5**

**ACTION:** RAN4 would like to ask RAN2 to answer the question in this LS.

**3. Date of Next TSG-RAN WG4 Meetings:**

TSG-RAN4 Meeting #104-bis-e 10 Oct – 19 Oct 2022, Electronic Meeting

TSG-RAN4 Meeting #105 14 Nov – 18 Nov 2022, TBD, Europe