**3GPP TSG-CT WG1 Meeting #134-eC1-22xxxx**

**E-Meeting, 17th – 25th February 2022**

Title: NAS indication on small data transmission

Response to:

Release: Rel-17

Work Item: TEI17, NR\_SmallData\_INACTIVE-Core

Source: 3GPP CT1

To: 3GPP RAN2

Cc:

**Contact Person:**

Name: Lin Shu

Tel. Number:

E-mail Address: shulin@huawei.com

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

Attachments:

**1. Overall Description:**

CT1 has discussed the NAS aspects for small data transmission (SDT) including the details of NAS and AS interaction that is needed for the transmission of NAS signalling when the UE is configured with SDT mechanism.

For NAS procedures which the UE can initiate in 5GMM-CONNECTED mode with suspend indication, they can be categorized into two categories

* **Type 1 NAS procedures:** Procedures are essentially not time critical and include:
  + sending a mobile originated location request; and
  + sending a mobile originated signalling transaction towards the PCF to request V2X policy.
* **Type 2** **NAS procedures:** Procedures are typically time critical and include:
  + MO-MMTEL-voice/video-call initiation;
  + establishment of a new PDU session;
  + modification of an existing PDU session; and
  + re-establishment or resumption of the user-plane resources for an existing PDU session.

CT1 believes NAS messages of Type 1 NAS procedures can be transferred using the SDT mechanism while the UE remains in RRC\_INACTIVE as DRB establishment or reconfiguration is not involved. However, Type 2 NAS procedures would require extensive NAS and RRC signalling exchange which includes DRB establishment or reconfiguration and will involve the use of the RRC Reconfiguration procedure which are not supported in RRC\_INACTIVE state. Hence these procedures should not be initiated by the UE in the RRC\_INACTIVE state using SDT mechanism in the first place.

Considering the use of SDT mechanism is finally decided by the UE AS layer, to enable the UE AS layer to decide the use of SDT mechanism to transfer different types of NAS messages, CT1 has agreed that the UE NAS layer provides an indication together with NAS messages of Type 2 NAS procedures to the UE AS layer.

**2. Actions:**

**To RAN2 group.**

**ACTION:** 3GPP CT1 kindly requests RAN2 to take above information into account and provide the feedback.

**3. Date of Next CT4 Meetings:**

CT1#135e 6th - 12th April 2022 electronic meeting

CT1#136e 12th - 20th May 2022 electronic meeting