**3GPP** **TSG CT WG1 Meeting 131-e Rev\_C1-214497**

**Electronic meeting, 19-27 August 2021**

Title: <draft> Reply LS on Small data transmission

**Response to: LS R2-2104644/C1-214014 on Small data transmission from RAN2**

Release: Release 17

Work Item: 5GProtoc17, <NR\_SmallData\_INACTIVE-Core>

Source: CT1

To: RAN2

CC: SA2

**Contact Person:**

Name: Vivek Gupta

E-mail Address: vivek\_g\_gupta at apple dot com

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

Attachments: None

**1. Overall Description:**

CT1 thanks RAN2 for their LS on Small data transmission in C1-214014 / R2-2104644. CT1 would like to provide the following feedback on points agreed by RAN2.

a) Given the agreements from RAN2 LS that:

*1) SDT is transparent to NAS layer (i.e. NAS generates one of the existing resume causes and AS decides SDT vs non-SDT access)*

Different companies in CT1 have differernt understanding on "*SDT is transparent to NAS layer*" and there is no consensus in CT1 about NAS impacts to support SDT.

b) Regarding additional question from RAN2:

*RAN2 agreed that only radio bearers configured for SDT are resumed and additional UL and DL data can be exchanged between UE and network as part of a given SDT session while the UE is still in RRC\_INACTIVE (i.e. without transition to RRC\_CONNECTED). In this case, if new UL data or NAS message becomes available for non-SDT radio bearers (which are suspended), would it be possible that NAS triggers another request to transition into RRC\_CONNECTED and provides access category, access identities and resume cause.*

CT1 would like to point out that once small data transmission is initiated the UAC parameters (access category and access identity) for subsequent UL data for non-SDT DRBs in use will be the same as those for UL data for SDT DRBs. Furthermore, NAS is agnostic to DRBs, and as such cannot differentiate whether pending uplink data or signalling requires SDT or non-SDT DRBs. So for the use case specified above, if new UL data or NAS message becomes available for which non-SDT radio bearers are not established, the current behaviour (of NAS in 5GMM\_CONNECTED mode with inactive indication) applies, i.e. any new pending UL data associated with a PDU session without suspended user plane resources, will require the Service Request procedure to be initiated and NAS will provide the same UAC parameters to the lower layers.

**2. Actions:**

**To RAN2:**

**ACTION:** CT1 kindly asks RAN2 to take the above into account and provide feeback if any.

**3. Date of Next CT1 Meetings:**

TSG-CT WG1#132-e Oct 11th – 15th, 2021 Online meeting

TSG-CT WG1#133-e Nov 11th – 19th, 2021 Online meeting