**3GPP TSG CT WG1 Meeting #130-eC1-213048**

**Electronic meeting, 20-28 May 2021**

**Title: Draft Reply LS on Small data transmission**

**Response to: LS R2-2104644 on Small data transmission**

**Release: Release-17**

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

**Source: CT WG1**

**To: RAN WG2**

**Cc: SA WG2**

**Contact person: Sunghoon Kim**

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

**Attachments:** None.

# 1 Overall description

CT1 would like to thank RAN2 for sending the LS on small data transmission in R2-2104644 (C1-212849).

with respect to the RAN2 agreements, CT1's anaykais swould show that following RAN2 agreements will bring about the following NAS impacts:

i) NAS layer will need to be aware of SDT supported in order for the UE to pass the uplink NAS message or uplink user data packet along with the request to transition to RRC-CONNECTED state to the AS layer.

ii) NAS operation would need to be enhanced to support multiple NAS signaling or user data packet transmissions during SDT session without transitioning to 5GMM-CONNECTED mode.

iii) When the UE is in 5GMM-CONNECTED modewith RRC inactive indication and the SDT session is ongoing, the changes to NAS may be needed to move to 5GMM-IDLE mode if UE radio capability update is needed. In order to avoid the disruption of data transmission over SDT session, the NAS layer needs to know whether SDT session is ongoing or not. Hence, additional or new interactions between AS layer and NAS layer will likely be required.

Answer to the question from RAN2:

Answer) When a new uplink NAS message or uplink user data packet becomes available while the UE is in 5GMM-CONNECTED mode with RRC inactive indication and an SDT session is ongoing, the NAS will have to request the lower layer to transition to RRC\_CONNECTED state as in legacy behaviour regardless of whether SDT is used for the transmission. (i.e., it is AS layer decision to trigger SDT or non-SDT for the transmission)

# Actions

**ACTION:** CT1 kindly ask RAN2 to take above feedback into account and provide further RAN2 agreement.

# Dates of next TSG CT WG 1 meetings

3GPP TSG CT1#131e 19-27 Aug. 2021 E-Meeting

3GPP TSG CT1#132e 11-15 Oct. 2021 E-Meeting