**3GPP TSG RAN WG2 #116bis-e R2-22xxxxx**

**e-Meeting, 17-26 Jan, 2022**

**Title: [DRAFT] LS on resume cause**

**Response to:**

**Release: Rel-17**

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

**Source: to be RAN2**

**To: CT1**

**Cc:**

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

# 1 Overall description

RAN2 is working on SDT feature which allows small data transmissions in INACTIVE state. As part of this work, when NAS triggers UL data/signalling to be transmitted over radio bearers configured for SDT, SDT procedure may be initiated. During an SDT session, the UE is kept in RRC\_INACTIVE state, whilst exchanging UL and DL packets over radio bearers configured for SDT and the AS responds to the trigger from NAS layer only after the SDT session is completed, i.e. the AS does not indicate to upper layers whether the suspended RRC connection has been resumed before that.

In this case, whilst SDT is ongoing in INACTIVE state, i.e. after a RRCResumeRequest is transmitted with resume cause (for SDT), RAN2 has agreed that if data/signalling becomes available for a radio bearer not configured for SDT (i.e. for a radio bearer that is still suspended), the UE will send non-SDT data indication to indicate this to the NW.

Hence, RAN2 would like to understand whether NAS layer will provide another trigger with resume cause, if any new data or signalling (for instance, an emergency call) becomes available for a radio bearer not configured for SDT, before the AS has responded to the previous trigger for resume from the NAS layer (i.e., before the SDT procedure is completed).

RAN2 would also like to understand if such resume cause (for instance, for emergency call) in another trigger from NAS needs to be provided to gNB as part of the non-SDT data indication, since RAN2 is currently discussing whether to use a second RRCResumeRequest or a DCCH message for this purpose.

# 2 Actions

**To CT1**

**ACTION:** RAN2 respectfully asks CT1 to answer the following question:

**Q1:** When any new data or signalling (for instance an emergency call) becomes available for a radio bearer not configured for SDT and non-SDT data indication procedure is initiated by the UE, whilst the AS has not yet responded to the previous trigger for resume from NAS layer, does the NAS layer provide another trigger with resume cause to AS and should this resume cause be provided to the gNB as part of the non-SDT data indication procedure.

# 3 Dates of next TSG RAN2 meeting

The dates of the next RAN2 meetings can be found at the following link:

<https://portal.3gpp.org/Home.aspx?tbid=380&SubTB=380#/>