**3GPP T****SG-RAN WG2 Meeting #114-electronic R2-2106559**

**Online, May 19th – May 27th, 2021**

**Title: [Draft] Reply LS to RAN1 on physical layer aspects of small data transmission**

**Response to:** **R1-2102125**

**Release: Release 17**

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

**Source:** **vivo [to be RAN2]**

**To: RAN1**

**Contact Person:**

#### Name: Yitao Mo

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

**Attachments: N/A**

**1. Overall Description:**

RAN2 would like to thank RAN1 for their reply LS on physical layer aspects of small data transmission.

RAN2 has concluded that new common search space is supported for RA-SDT. The relevant agreement was made as follows,

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| **Agreement:**1. The separate search space is common to the UEs performing RA-SDT. Inform RAN1 of this agreement
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Furthermore, RAN2 discussed the details of both RA-SDT and CG-SDT leading to the following agreements with potential RAN1 impacts.

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| **Agreement:**For RA-SDT1. CFRA is not supported for RA-SDT

For CG-SDT1. Working assumption: UE-specific search space is configured for UEs performing CG-SDT. RAN2 asks RAN1 whether this working assumption can be confirmed
2. CG-SDT resource can be configured on either initial BWP or separate SDT BWP. Ask RAN1 to confirm
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For RA-SDT, in particular, RAN2 would like to request RAN1 to provide configuration paramters for the PRACH resource configuration when PRACH occasions are shared between SDT and non-SDT and when PRACH occasions are separately configured for SDT and non-SDT (for both 2-step RA and 4-step RA).

For CG-SDT, RAN2 respectfully requests RAN1 if the agreements 3/4 mentioned above can be confirmed.

**2. Actions:**

RAN2 respectfully asks RAN1 to provide feedback on the physical layer aspects of small data transmission as requested above.

**3. Date of Next RAN2 Meetings:**

TSG-RAN WG2 Meeting #115-e 16th – 27th August 2021 E-meeting

TSG-RAN WG2 Meeting #116-e 1st – 12th Novemebr 2021 E-meeting