**3GPP TSG-RAN WG3 Meeting #119bis-e *R3-231994***

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**Title:** (TP to TS 38.401BL CR) MT-SDT in disaggregated architecture

**Source:** Huawei

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# Introduction

In this document provide the TP for TS 38.401 BL CR, takes into account the inputs from R3-231396 and R3-231785.

# TP to TS 38.401 BL CR

8.18.x MT-SDT

The procedure for mobile terminated small data transmission in RRC Inactive is shown in Figure 8.18.x-1.



**Figure 8.18.x-1: Mobile Terminated Small Data Transmission in RRC Inactive state.**

1a-0. The gNB-CU-UP receives only DL SDT data for the UE in RRC Inactive on NG-U interface.

1a-1. The gNB-CU-UP sends DL DATA NOTIFICATION message to the gNB-CU-CP. If supported, the gNB-CU-UP includes the MT-SDT information which includes MT-SDT indicator, and may also the DL SDT data size in the DL DATA NOTIFICATION message.

NOTE: the gNB-CU-CP may request the gNB-CU-UP to provide such MT-SDT information before step 1a-0, via BEARER CONTEXT SETUP REQUEST message.

1b. The gNB-CU-CP receives DL signalling over NGAP.

2. After 1a or 1b, the gNB-CU-CP sends PAGING message to the gNB-DU. The MT-SDT information may be included in the PAGING message. The MT-SDT information includes the MT-SDT indicator and may also the volume of DL SDT data and DL SDT signalling.

3. The gNB-DU sends the *Paging* message, and may include the MT-SDT information to the UE.

4.If the UE has been successfully reached, it initiates the RRC connection resume procedure as described in 8.6.2 or 8.9.6.2, or initiates the SDT procedure as described in 8.18.1 or from step 9 in 8.18.2 or from step 1 in 8.18.3 with the following difference:

 - the UE indicates the RRC Resume Request is for MT-SDT, which may be without UL data.