3GPP TSG RAN WG2#128 R2-241xxxx

Orlando, US, November 18th - 22nd, 2024

**Title: LS on UL 8Tx**

**Response to:**

**Release: Release 18**

**Work Item: NR\_MIMO\_evo\_DL\_UL-Core**

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

**To: RAN1**

**Cc:**

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**Attachments:** **None**

# 1 Overall description

1. To support UL 8Tx in the MAC specification, RAN2 made the following assumption regarding how to model UL 8Tx operation from MAC point of view to minimize impacts.

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| **For UL 8Tx 2TB transmission scheduled by one DCI, MAC entity considers two uplink grants for two TBs in two HARQ processes with one HARQ process ID and two HARQ buffers.** |

2. For UL 8Tx 2TB transmission scheduled by one DCI, if MAC entity only generates a single TB due to the uplink skipping, would there be any issue for PHY layer?

# 2 Actions

**To RAN1**

**ACTION:** RAN2 kindly ask RAN1 to provide feedback if any on the modelling assumption in the first item and answer the question in the second item.

# 3 Dates of next TSG RAN WG2 meetings

TSG-RAN2 Meeting #129 17 - 21 February 2025 Athens, GR

TSG-RAN2 Meeting #129bis 07 - 11 April 2025 China, CN