3GPP TSG-RAN WG1 Meeting #109-e R1-220xxxx

e-Meeting, May 9th – 20th, 2022

Title: [Draft] LS on maximum uplink timing difference for Multi-DCI Multi-TRP with two TAs

Response to: -

Release: Rel-18

Work Item: NR\_MIMO\_evo\_DL\_UL

Source: [RAN WG1], Ericsson

To: RAN WG4

CC: -

Contact Person:

Name: Siva Muruganathan

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

Attachments: None

# **1. Overall Description**

In Rel-18 discussions on MIMO Evolution for Downlink and Uplink, RAN1 has agreed to support multi-DCI multi-TRP operation with two TAs. With regards to the maximum uplink timing difference between the two TAs for multi-DCI multi-TRP operation, RAN1 made the following conclusion in RAN1#109-e:

**Conclusion: For multi-DCI multi-TRP operation with two TAs, the decision on the maximum uplink timing difference is left up to RAN4.**

* **send an LS to RAN4 asking them the maximum uplink timing difference RAN1 can assume between the two TAs for multi-DCI multi-TRP operation.**

RAN1 would kindly like to ask RAN4 to provide feedback on what maximum uplink timing difference that RAN1 can assume between the two TAs for multi-DCI multi-TRP operation.

**2. Actions**

**To RAN WG4**

**ACTION:** RAN1 would like to kindly ask RAN4 to provide feedback to RAN1 on what maximum uplink timing difference thar RAN1 can assume between the two TAs for multi-DCI multi-TRP operation.

**3. Date of Next TSG-RAN WG1 Meetings:**

TSG-RAN WG1 Meeting #110 22 Aug – 26 Aug 2022 Toulouse, France

TSG-RAN WG1 Meeting #110-e-Bis 10 Oct – 19 Oct 2022 E-Meeting