**3GPP TSG RAN WG1 #107-e R1-211xxxx**

**e-Meeting, November 11th – 19th, 2021**

**Title: [DRAFT]** Draft LS on latency improvement for PRS measurement with MG

**Response to:**

**Release:** Rel-17

**Work Item:** NR\_pos\_enh

**Source:** Moderator (Huawei) [to be RAN1]

**To:** RAN2, RAN3

**Cc:**

**Contact Person:**

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**Attachments:**

**1. Overall Description:**

RAN1#107-e reached the following agreement on PRS measurement with preconfiguration of MG(s) and MG activation request by UE.

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| **Agreement**  Preconfiguration of MG(s) in RRC is supported from RAN1 perspective.   * + Each MG in the preconfiguration is associated with an ID   + The information in the UL MAC CE for MG activation request by the UE can be one ID associated with the preconfiguration of the MG   + Send an LS to RAN2 and RAN3 |

In addition RAN1 understands it is up to RAN2 and/or RAN3 to decide how gNB determines the preconfiguration of MG(s).

RAN1 also agreed MG activation request to the gNB by the LMF in RAN1#106bis-e.

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| Agreement:  Support the following options (in the agreement made in RAN1#106-e) for a new mechanism of MG activation request for the purpose of positioning.   * Option 2: by UE (via UCI or UL MAC CE)   + Select only one of UCI and UL MAC CE in RAN1#106bis-e * Option 1: by LMF (via an NRPPa message)   + Note: This is transparent to the UE |

As the follow-up, RAN1 concluded in RAN1#107-e that it is up to RAN3 to design the necessary information to be transferred in the NRPPa message.

**2. Actions:**

**To RAN2**

**ACTION:** RAN1 respectfully requests RAN2 to take above agreements on preconfiguration of MGs and MG activation request by the UE into account and decide (in coordination with RAN3) how gNB determines the preconfiguration of MG(s).

**To RAN3**

**ACTION:** RAN1 respectfully requests RAN3 to take above agreements on preconfiguration of MGs and MG activation request by the gNB into account, decide (in coordination with RAN2) how gNB determines the preconfiguration of MG(s), and design the necessary information to be transferred in the NRPPa message for the purpose of MG activation request by the LMF.

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

TSG-RAN WG1 Meeting #107bis-e 17 – 25 January 2022 E-Meeting

TSG-RAN WG1 Meeting #108-e 21 February – 03 March 2022 E-Meeting