**3GPP TSG-RAN WG2 Meeting #116bis Electronic DRAFT R2-220xxxx**

**Elbonia, 17 – 25 January 2022**

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

**Response to:** R2-2200074 / R1-2112784

**Release:** Release 17

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

**Source:** Nokia [TSG RAN WG2]

**To:** RAN1, RAN4

**Cc:** RAN3

**Contact Person:**

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**Attachments:** -

**1. Overall Description:**

RAN2 thanks RAN1 for the LS on latency improvement for PRS measurement with MG. RAN2 discussed the signaling support for pre-configured measurement gap for positioning solution and reached the following conclusions/agreements. Please note that DL MAC CE can also be used for positioning measurement gap deactivation as well as activation.

Agreements:

The pre-configured Measurement Gap Configurations for Positioning are provided via RRCReconfiguration message. The pre-configured Measurement Gap Configurations for Positioning are included in IE *MeasGapConfig*.

The content of the pre-configured Measurement Gap Configurations for Positioning includes at least the existing measurement gap parameters together with an ID identifying each Measurement Gap Configuration for Positioning.

The existing RRC *LocationMeasurementIndication* procedure to request the positioning measurement gaps can still be used by a UE, even when pre-configured measurement gaps are provided to the UE.

Agreements:

A new UL MAC CE for positioning measurement gap activation and deactivation request is introduced.

The new UL MAC CE for positioning measurement gap activation and deactivation request includes at least the ID of the pre-configured positioning measurement gap configuration for which the activation/deactivation is requested. Other parameter are FFS.

A new DL MAC CE for positioning measurement gap activation and deactivation command is introduced for positioning latency reduction.

The new DL MAC CE for positioning measurement gap activation and deactivation command includes at least the ID of the pre-configured positioning measurement gap configuration which has been configured/activated by the gNB. Other parameter are FFS.

The Scheduling Request should be triggered when there is no PUSCH and UL MAC CE for positioning measurement gap activation/deactivation request is triggered.

Agreements:

On the concurrent measurement gap, RAN2 wait for further input from RAN1/RAN4.

- On the Network-Controlled Small Gap, RAN2 wait for further input from RAN1/RAN4.

**2. Actions:**

**To RAN1/RAN4**

**ACTION:** RAN2 respectfully asks RAN1/RAN4 to take above agreements on pre-configured measurement gap for positioning into account.

**3. Date of Next TSG-RAN WG2 Meeting:**

3GPP RAN2#117-e from 2022-02-21 to 2022-03-03 Electronic Meeting