**3GPP TSG RAN WG1 #105-e R1-21xxxxx**

**e-Meeting, May 10th – 27th, 2021**

**Title: [DRAFT]** LS on PRS processing samples

**Response to:**

**Release:** Rel-17

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

**Source:** XX [RAN1]

**To:** RAN2, RAN3

**Cc:**

**Contact Person:**

**Name:**

**Tel. Number:**

**E-mail Address:**

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

**Attachments:**

**1. Overall Description:**

RAN1#105-e reached the following agreement regarding reducing the number of samples in PRS processing for the purpose of latency reduction for DL and DL+UL positioning methods.

|  |
| --- |
| Agreement:M-sample (1<=M<4) PRS processing corresponding to measurements performed within M instances of the DL PRS resource set on a PRS resource, subject to UE capability, is beneficial from a RAN1 perspective for latency reduction.* One sample corresponds to one instance
* Send an LS to RAN4 informing that
	+ M-sample (1<=M<4) measurements corresponding to measurements performed within M (1<=M<4) instances of the DL PRS resource set on a PRS resource are beneficial for reduction of measurement latency from RAN1 point of view.
	+ RAN4 is requested to check the feasibility of measurements performed within M (1<=M<4) instances of the DL PRS resource set and identify the impact on requirements/side condition.
* RAN1 to further study at least the following aspects for allowing M-sample (1<=M<4) PRS processing
	+ Details of UE capability
	+ Signaling details, e.g., to indicate whether measurement is based on one or more samples
	+ Whether the PRS sample processing time is defined and the relation with (N, T).
		- Note: This may have RAN4 dependency
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**2. Actions:**

**To RAN4**

**ACTION:** RAN1 respectfully requests RAN4 to check the feasibility of measurements performed within M (1<=M<4) instances of the DL PRS resource set and identify the impact on requirements/side condition.

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

TSG-RAN WG1 Meeting #106-e 16 – 27 August 2021 E-Meeting

TSG-RAN WG1 Meeting #106bis-e 11 – 19 October 2021 E-Meeting

TSG-RAN WG1 Meeting #107-e 11 – 19 November 2021 E-Meeting