**3GPP TSG RAN WG2 Meeting #119-e R2-220xxxx**

**Electronic meeting, 17 - 26 Aug, 2022**

**Title: Draft** LS to RAN4 on capability for PRS measurement without MG

**Response to:**

**Release:** Rel-17

**Work Items:** NR\_pos\_enh-Core

**Source:** Intel (To be RAN WG2)

**To:** RAN WG4

**CC:** RAN WG1

**Contact Person:**

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**Attachment:**

**1. Overall Description:**

In RAN4 feature lists, the feature 14-3 “PRS measurement without MG” is only indicated as “Need for the gNB to know”. It is unclear whether there is also a need for the LMF to know about UE support for feature 14-3, i.e. should this capability also be captured in LPP specification or not. Some companies in RAN2 think this capability can be used for the LMF to determine which TRPs should be included in the PRS configuration. Besides, RAN2 has already captured its prerequisite feature 27-3-2 “DL PRS measurement outside MG and in a PRS processing window” in the UE capability of LPP.

Therefore RAN2 would like to ask RAN4 to clarify whether the LMF also needs to know the UE capability on feature 14-3.

**2. Actions:**

**To RAN WG4**

**ACTION:**

* RAN2 respectfully asks RAN4 to clarify whether the feature 14-3 should be captured in LPP specification, and provide feedback to RAN2.

**3. Date of Next RAN WG2 Meetings:**

RAN2 #119-bis-e 10– 19 October 2022 Electronic Meeting

RAN2 #120 14-18 November 2022 Europe