3GPP TSG-RAN WG1 Meeting #106b-e R1-21NNNN

e-Meeting, October 11th – 19th, 2021

Title: [DRAFT] LS on definition of DL PRS path RSRP

Response to:

Release: Release-17

Work Item: NR\_pos\_enh

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

To: RAN WG4

Cc:

**Contact Person:**

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

Attachments: N/A

1 Overall description

RAN1 agreed to introduce the first path PRS RSRP during RAN1#105e:

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| Agreement:For both UE-based and UE-assisted DL-AOD, the UE can be requested subject to UE capability to measure and report (for UE-assisted) the PRS RSRP of the first path* FFS: Details of measurement and reporting of PRS RSRP of the first path
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RAN1 then further discussed the topic and made a more general agreement on the definition of the path DL PRS RSRP during RAN1#106b-e.

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| Agreement:The measured path DL PRS RSRP for ith path delay is defined as the power of the received DL PRS signal configured for the measurement at the ith path delay of the channel response, and* path DL PRS RSRP for 1st path delay is the power corresponding to the first detected path
* FFS: Whether the path RSRP measurement is normalized with PRS RSRP.
* FFS: Whether the definition of the ith path delay (other than i=1) is required.
* Note: UE may choose to use a time window to compute path DL PRS RSRP by UE implementation (there is no impact to specifications managed by RAN1 for this)
* Note: This does not imply that the path delay has to be reported in DL-AoD positioning
* Send LS to RAN4 to check the details of the definition and feedback if they identify any update is necessary
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2 Actions

**To RAN4**

**ACTION:** RAN1 respectfully ask RAN4 to check the details of the definition and feedback if they identify any update is necessary.

3 Dates of next TSG RAN1 meeting

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