**3GPP TSG RAN WG1 #116bis R1-240xxxx**

**Changsha, Hunan Province, China, April 15th – 19th, 2024**

**Title:** [Draft] Reply LS on questions on RAN1 parameter list

**Response to:** R1-2401940 (R2-2401644)

**Release:** Rel-18

**Work Item:** NR\_pos\_enh2-Core

**Source:** CATT [to be RAN1]

**To:** RAN2

**Cc:** RAN3, RAN4

**Contact person:**

**Name:** Ren Da

**E-mail Address:** renda@catt.cn

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

**Attachments:** None

1. **Overall description**

RAN1 thanks RAN2 LS on Rel-18 parameter list for NR positioning. RAN1 has discussed the issues in the LS and would like to provides the following responses to RAN2’s questions.

**Question 1:** Does the parameter *nr-ReportedDL-PRS-measurementBasedOnSingleOrMultihopRx* also apply to NR DL-AoD positioning?

**RAN1’s Response:** Yes, the parameter *nr-ReportedDL-PRS-measurementBasedOnSingleOrMultihopRx* is also applicable to NR DL-AoD positioning.

**Question 2:** Is there only one *dl-PRS-ID* or are there multiple *dl-PRS-IDs* associated with the aggregated main and additional measurement, respectively?

**RAN1’s Response:** In RAN1’s understanding, if *nr-DL-PRS-ResourceSetID* uniquely identifies the DL-PRS Resource Sets across all the multiple dl-PRS-IDs of the same TRP, then only one dl-PRS-ID is needed to be associated with the aggregated main measurement and additional measurements. Otherwise, multiple dl-PRS-IDs are associated with the aggregated main and additional measurement in the measurement report.

**Question 3**: If there are multiple *dl-PRS-IDs* associated with main and additional measurements, respectively, should the list of the *dl-PRS-IDs* in additional measurements be included in the list of *dl-PRS-IDs* in the main measurement?

**RAN1’s Response:** There is no need to provide *dl-PRS-ID(s)* in additional measurement reporting since both main measurement and additional measurement are derived from the same TRP.

1. **Actions**

**To RAN2**

**ACTION:** RAN1 respectfully asks RAN2 to take the information into consideration.

1. **Date of next TSG-RAN WG1 meeting**

TSG RAN WG1 Meeting #117 20th May – 24th May 2024 Japan, Fukuoka

TSG RAN WG1 Meeting #118 19th August – 23th August 2024 Maastricht, NL