**3GPP TSG-RAN WG2 Meeting #121 R2-230xxxx**

**Athens, Greece, 27 February – 03 March 2023**

**Title: [DRAFT]** LS on Comparison of SL-RSRP and SD-RSRP measurements

**Response to:** -

**Release:** Release 18

**Work Item:** NR\_SL\_relay\_enh

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

**To:** TSG RAN WG1, TSG RAN WG 4

**Cc:**

**Contact Person:**

**Name:** György Wolfner

**E-mail Address:** gyorgy<dot>Wolfner<at>@nokia<dot>com

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

**Attachments:** -

**1. Overall Description:**

During the work on session continuity enhancements within NR\_SL\_relay\_enh work item a new measurement report trigger has been proposed in RAN2:

Event Z2: The measured RSRP of a candidate L2 U2N Relay UE becomes an offset better than measured RSRP of the serving L2 U2N Relay UE

This new event requires either the comparison of SL-RSRP measurements (RSRP measurement on unicast PC5 link) from different UEs, or the comparison of SL-RSRP with SD-RSRP measurements (RSRP measurement on broadcast PC5 link used for discovery messages). During the discussion some companies have concerns on direct comparisons of these values due to the power control applied on PC5 unicast links.

Before agreeing in the introduction of this measurement report trigger, RAN2 would like to ask feedback from RAN1 and RAN4 on the comparisons of RSRP measurements:

**Q1:** Under which conditions the comparison of two measured RSRP values, especially the comparison of a SL-RSRP and a SD-RSRP measurement, are meaningful?

**Q2:** Is there a recommended mechanism (e.g., to use offset values) to make the comparison of RSRP measurements meaningful?

**2. Actions:**

**To RAN WG1 and RAN WG 4**

**ACTION:** RAN2 would like to ask feedback from RAN1 and RAN4 on the comparisons of RSRP measurements, more specifically to the questions above.

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

RAN2#121-bis-e from 2023-04-17 to 2023-04-26 Electronic

RAN2#122 from 2023-05-22 to 2023-05-26 Incheon