**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**

**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 yet with no consensus 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 SD-RSRP (RSRP measurement on broadcast PC5 link used for discovery messages) measurements from different UEs, or the comparison of SL-RSRP (RSRP measurement on unicast PC5 link) and SD-RSRP measurements, or the comparison of SL-RSRP measurements from different UEs. During the discussion some companies expressed concerns on direct comparison of SD-RSRP and SL-RSRP and the comparison of SL-RSRP measurements form different UEs due to the power control mechanism applied on PC5 unicast links, while other companies think the network can handle such comparison by using an appropriate offset in the measurement event.

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

**Q1:** Is the comparison of SL-RSRP and SD-RSRP measurement be used for the purposes of triggering a measurement report feasible?

**Q2:** Can the comparison of SL-RSRP measurements from different UEs be used for the purposes of triggering a measurement report?

**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