**3GPP TSG-RAN WG2 Meeting #131 R2-250xxxx**

**Bengaluru, India, 25 - 29 August 2025**

**Title:** Draft LS on tree-like topologies for L2 based multi-hop U2N relay

**Release:** Rel-19

**Work Item:** NR\_SL\_relay\_multihop-Core

**Source:** Qualcomm (to be RAN2)

**To:** SA2

**Cc:**

**Contact person:** Jianhua Liu, jianhua@qti.qualcomm.com

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

**Attachments:** None

# 1 Overall description

RAN2 discussed the topologies for L2 based multi-hop U2N relay. In the tree-like topology and agreed that only tree-like topology is supported. In the tree-like topology:

* One intermediate Relay UE connects with only one parent (upstream) Relay UE for L2 based multi-hop U2N relay operation.
* One intermediate Relay UE has only one upstream PC5 connection for L2 based multi-hop U2N relay operation.

RAN2 kindly asks SA2 to take the above agreement into account and support tree-like topology for L2 based multi-hop U2N relay.

# 2 Actions

**To SA2:**

**ACTION:** RAN WG2 kindly asks SA2 to take the above agreement into account and support tree-like topology for L2 based multi-hop U2N relay.

# 3 Dates of next TSG-RAN WG4 meetings

TSG-RAN WG2 Meeting #131bis October 13 – October 17, 2025 Prague, CZ

TSG-RAN WG2 Meeting #132 November 17 – November 21, 2025 Dallas , US