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

**Bengaluru, India, August 25th – 29th, 2025**

**Agenda Item: 8.13.1**

**Source: Huawei, HiSilicon**

**Title: Comment collection for Merged RRC (TS 38.331) running CR for NR Sidelink Multihop Relay**

**Document for:**

# 1 Introduction

This paper collects any further comments for Merged RRC (TS 38.331) running CR for NR Sidelink Multihop Relay

* [Post130][407][Relay] Rel-19 relay merged CR to 38.331 (Huawei)

Scope: Merge the draft CRs from [Post130][402] and [Post130][406].

Intended outcome: Endorsed CR as a baseline for RAN2#131 and merged open issues list

Deadline: Long (late start to allow [Post130][402] and [Post130][406] to conclude)

Deadline: August 4th

Please fill in the contact information in the table below

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# 2 Comments for the running CR

This section is used to collect comments for the Merged RRC (TS 38.331) running CR for NR Sidelink Multihop Relay

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| **Company** | **Issue** | **Suggestion** |
| Sharp | 3.1  Definition of Downstream and Upstream   1. The first characters of definition of “Downstream” and “Upstream” are lowercase. 2. These definitions include IAB WI related changes, but “downstream” and “Upstream” are only used for relay feature in 38.331. | 1. Change it to a capital letter 2. Remove IAB related changes. The first reason is that this is a relay WI, and the second reason is that this word is not used for IAB in 38.331. (If this issue is already discussed, please ignore my comment.) |
| Sharp | 4.2.1  - Network controlled mobility (path switch) between a serving cell and a L2 U2N Relay UE for single hop, or vice versa, or between a serving cell and L2 U2N Relay UEs for multi hop, or vice versa, or between a source L2 U2N Relay UE and a target L2 U2N Relay UE for single hop, or between a source L2 U2N Relay UE and target L2 U2N Relay UEs for multihop, or vice versa;- Network controlled MP operation. | 1. Insert a line break after “vice versa;” 2. Change to “between a source L2 U2N Relay UE for single-hop and target L2 U2N Relay UEs for multihop” since Rel-19 relay WI don’t support multihop-to-multihop path switching. |
| Sharp | 5.3.2  Current CR has no additional mechanism to avoid duplicated paging delivery though RAN2 agreed with “*Strive to minimize spec impact to support intermediate relay UEs in coverage monitoring paging for a child UE on Uu interface, while avoiding duplicated paging delivery to the remote UE due to double-monitoring by upstream UEs.”* | Discuss how to avoid duplicated paging at next meeting. |
| Sharp | Whole of the CR  There is inconsistency in the use of words, e.g., child UE, connected child UE, connected child U2N Relay UE, child U2N Relay UE, connected downstream child UE, connected downstream L2 child UE, downstream L2 U2N Child Relay UE, L2 U2N child Relay UE, L2 U2N Child Relay UE, U2N Child UE, downstream child UEs, indirect child UEs | Unify synonyms. |
| Sharp | For single-hop scenario, during remote UE addition procedure, RLC channel configuration for SRB1 is handled based on whether *sl-EgressRLC-ChannelPC5* is configured, i.e. associate the PC5 Relay RLC channel as indicated by *sl-EgressRLC-ChannelPC5* with SRB1 or apply the default configuration of SL-RLC1 for SRB1.  For multi-hop scenario, *sl-EgressRLC-Channel-UL* and *sl-EgressRLC-Channel-DL* are introduced for intermedia relay UE. The legacy procedure is inapplicable for intermedia relay UE. | For intermedia relay UE, add description on how to handle RLC channel configuration for SRB1. |
| Sharp | To support positioning in SL Relay, both posSIB-ForwardingSupported and SFN-DFN offset are needed. Now only FFS on whether/how passing SFN-DFN offset is added. | Add FFS on whether/how passing *posSIB-ForwardingSupported* in multi-hop scenario. |
| Sharp | SIB12-r16 ::= SEQUENCE {  *<Omitted>*  sl-L2U2N-MH-Relay-r19 ENUMERATED {enabled} OPTIONAL, -- Need R  [Sharp]: A cell supporting multiple hop L2 U2N relay should enable L2 U2N relay firstly. | Change *sl-L2U2N-MH-Relay-r19* to conditional optional field based on *sl-L2U2N-Relay-r17*. |
| Sharp | ***t300-RemoteUE***  Indicates the timer value of T300 used by L2 U2N Remote UE. The effective T300 value for the L2 U2N Remote UE, accounting for both the Uu and PC5 hop components,, is obtained by multiplying the base T300 timer value by the Hop Count. For a single-hop scenario involving one Relay UE, the Hop Count is 1. For multi-hop scenarios involving two or three Relay UEs, the Hop Count is 2 or 3, respectively. If the field is absent, the timer value indicated in t300 applies to L2 U2N Remote UE.  [Sharp]: The current description is a bit unclear whether timer value should be multiplied by Hop Count when *t300-RemoteUE* is absent. | Move the highlighted sentence as below:  Indicates the timer value of T300 used by L2 U2N Remote UE. If the field is absent, the timer value indicated in t300 applies to L2 U2N Remote UE. The effective T300 value for the L2 U2N Remote UE, accounting for both the Uu and PC5 hop components, is obtained by multiplying the base T300 timer value by the Hop Count. For a single-hop scenario involving one Relay UE, the Hop Count is 1. For multi-hop scenarios involving two or three Relay UEs, the Hop Count is 2 or 3, respectively. |
| Sharp | ***sl-EgressRLC-ChannelPC5***  Indicates the egress RLC channel on PC5 Hop for downlink transmissions at the L2 U2N Relay UE and for uplink transmissions at the L2 U2N Remote UE. | “L2 U2N Relay UE” should be “L2 Last U2N Relay UE”. |
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