**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 RRC (TS 38.331) running CR for NR Sidelink Multihop Relay**

**Document for:**

# 1 Introduction

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

* [Post131][414][Relay] Rel-19 relay 38.331 CR (Huawei)

Scope: Update the CR in R2-2505714 in accordance with decisions of RAN2#131.

Intended outcome: Agreed CR in R2-2506326

Deadline: Short (for RP) – 4th September 12:00 UTC

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** |
| CATT | Redundant punctuation mark at the end of the terminology for Last U2N Relay UE in 3.1. | Delete it. |
| CATT | Redundant punctuation mark at the end of 5.8.9.9.X. | Delete it. |
| CATT | In 5.8.9.10.2, there are some typos. | “ot Last U2N Relay UEs” should be changed to “or Last U2N Relay UE’s”. |
| OPPO | In clause 5.8.9.10, our understanding is we have no agreement on this condition:  2> upon reception of an *NotificationMessageSidelink* from the parent while in RRC\_CONNECTED; | Remove the related initiation condition and behaviors |
| OPPO | In clause 5.8.9.10.3, for the cause value for relay reselection and cell selection case, we understand during online session, it was said the cause value to be used can be discussed in running CR. Considering both cases are path switching but just different results, i.e., whether PC5 or Uu is available, we prefer to use a single cause value to avoid 2 new cause values for the same case. | Use a single cause value for relay reselection and cell selection, e.g., relayUE-pathSwitcing since they are same case with different results (i.e., whether cell or relay is available) |
| OPPO | The change on change should be removed (e.g., in clause 4.2.2, 5.2.2.2.1, 5.8.3.2) |  |
| OPPO | The Uu threshold needs to be checked by the intermediate relay UE for discovery transmission and SUI initiation as in legacy | In clause 5.8.3.2,  3> if the last transmission of the *SidelinkUEInformationNR* message did not include *sl-TxResourceReqListDisc*; or if the information carried by the *sl-TxResourceReqListDisc* has changed since the last transmission of the *SidelinkUEInformationNR* message:  4> if the UE is capable of U2N Relay UE or of Last U2N Relay UE, and if *SIB12* includes *sl-RelayUE-ConfigCommon*, and if the U2N Relay UE or if the Last U2N Relay UE threshold conditions as specified in 5.8.14.2 are met; or  4> if the UE is capable of Intermediate U2N Relay UE, and if SIB12 includes sl-RelayUE-ConfigCommonMH and *sl-RemoteUE-ConfigCommon*, and if the and if the U2N Remote UE threshold conditions as specified in 5.8.15.2 are met; or  In clause 5.8.13.3,  2> if the UE is in RRC\_CONNECTED and uses the frequency included in *sl-ConfigDedicatedNR* within *RRCReconfiguration* message:  3> if the UE is acting as NR sidelink U2N Relay UE or Last U2N Relay UE and *sl-DiscConfig* is included in *RRCReconfiguration*, and if the NR sidelink U2N Relay UE or Last U2N Relay UE threshold conditions as specified in 5.8.14.2 are met based on *sl-RelayUE-Config*; or3> if the UE is selecting NR sidelink U2N Relay UE / has a selected NR sidelink U2N Relay UE/ configured with measurement object associated to L2 U2N Relay UEs in both single hop or multi hop case and *sl-DiscConfig* is included in *RRCReconfiguration*, and if the NR sidelink U2N Remote UE threshold conditions as specified in 5.8.15.2 are met based on *sl-RemoteUE-Config*; or  3> if the UE acting as Last U2N Relay UE is sending Discovery Response message with Model B as specified in TS 23.304 [65] and if both the NR sidelink multi-hop relay threshold conditions as specified in 5.8.x.2 are met based on *sl-RelayUE-ConfigMH* and the NR sidelink U2N Relay UE threshold conditions as specified in 5.8.14.2 are met based on *sl-RelayUE-Config*; or  3> if the UE acting as Intermediate U2N Relay UE is sending Discovery Solicitation message with Model B as specified in TS 23.304 [65] and if both the NR sidelink multi-hop relay threshold conditions as specified in 5.8.x.2 are met based on *sl-RelayUE-ConfigMH* and the NR sidelink U2N Relay UE threshold conditions as specified in 5.8.14.2 are met based on *sl-RelayUE-Config*; or  …  2> else if the cell chosen for NR sidelink discovery transmission provides *SIB12*:  3> if the UE is acting as NR sidelink U2N Relay UE or Last U2N Relay UE and *sl-DiscConfigCommon* is included in *SIB12*, and if the NR sidelink U2N Relay UE or Last U2N Relay UE threshold conditions as specified in 5.8.14.2 are met based on *sl-RelayUE-ConfigCommon* in *SIB12*; or  3> if the UE is selecting NR sidelink U2N Relay UE / has a selected NR sidelink U2N Relay UE in both single hop or multi hop case and *sl-DiscConfigCommon* is included in *SIB12*, and if the NR sidelink U2N Remote UE threshold conditions as specified in 5.8.15.2 are met based on *sl-RemoteUE-ConfigCommon* in *SIB12*; or  3> if the UE acting as Intermediate U2N Relay UE has an established PC5 link with the selected parent U2N Relay UE, and if the NR sidelink U2N Remote UE threshold conditions as specified in 5.8.15.2 are met based on *sl-RemoteUE-ConfigCommon* in *SIB12*; or  3> if the UE acting as Intermediate U2N Relay UE is sending Discovery Solicitation message with Model B as specified in TS 23.304 [65] and *sl-DiscConfigCommon* is included in *SIB12*, and if both the NR sidelink multi-hop relay threshold conditions as specified in 5.8.x.2 are met based on *sl-RelayUE-ConfigCommonMH* and *sl-RemoteUE-ConfigCommon*, and if the and if the U2N Remote UE threshold conditions as specified in 5.8.15.2 are met; or  3> if the UE acting as Last U2N Relay UE is sending Discovery Response message with Model B as specified in TS 23.304 [65] and *sl-DiscConfigCommon* is included in *SIB12*, and if both the NR sidelink multi-hop relay threshold conditions as specified in 5.8.x.2 are met based on *sl-RelayUE-ConfigCommonMH* and the NR sidelink U2N Relay UE threshold conditions as specified in 5.8.14.2 are met based on *sl-RelayUE-Config*; or |
| OPPO | This agreement is not captured and should be added  Similar to SIB request, a paging information list is introduced for the intermediate relay UE to carry the paging information from the downstream remote UEs. Signalling details can be checked in the ASN.1 review as usual. | TP can be as follows  1> if the UE has paging related information to provide (e.g. the UE has not sent *sl-PagingInfo-RemoteUE* in the *RemoteUEInformationSidelink* message to the parent L2 U2N Relay UE before),set *sl-PagingInfo-RemoteUE/ sl-PagingInfo-RemoteUE-List* as follows:  2> if the L2 U2N Remote UE is in RRC\_IDLE:  3> include *ng-5G-S-TMSI* in the *sl-PagingIdentityRemoteUE*;  3> if the UE specific DRX cycle is configured by upper layer, set *sl-PagingCycleRemoteUE* to the value of UE specific Uu DRX cycle configured by upper layer*;*  2> else if the L2 U2N Remote UE is in RRC\_INACTIVE:  3> include *ng-5G-S-TMSI* and *fullI-RNTI* in the *sl-PagingIdentityRemoteUE*;  3> if the UE specific DRX cycle is configured by upper layer,  4> set *sl-PagingCycleRemoteUE* to the minimum value of UE specific Uu DRX cycles (configured by upper layer and configured by RRC)*;*  3> else:  4> set *sl-PagingCycleRemoteUE* to the value of UE specific DRX cycle configured by RRC;  2> if any paging informationis received from the Child UE:  3> include the received paging informationin the *sl-PagingInfo-RemoteUE-List*;  <…>  RemoteUEInformationSidelink-r17-IEs ::= SEQUENCE {  sl-RequestedSIB-List-r17 SetupRelease { SL-RequestedSIB-List-r17} OPTIONAL, -- Need M  sl-PagingInfo-RemoteUE-r17 SetupRelease { SL-PagingInfo-RemoteUE-r17} OPTIONAL, -- Need M  lateNonCriticalExtension OCTET STRING OPTIONAL,  nonCriticalExtension RemoteUEInformationSidelink-v1800-IEs OPTIONAL  }  RemoteUEInformationSidelink-v1800-IEs ::= SEQUENCE {  sl-RequestedPosSIB-List-r18 SetupRelease { SL-RequestedPosSIB-List-r18 } OPTIONAL, -- Need M  sl-SFN-DFN-OffsetRequested-r18 ENUMERATED { true } OPTIONAL, -- Need R  connectionForMP-r18 ENUMERATED {true} OPTIONAL, -- Need N  sl-DestinationIdentityRemoteUE-r18 SL-DestinationIdentity-r16 OPTIONAL, -- Need N  nonCriticalExtension RemoteUEInformationSidelink-v1900-IEs OPTIONAL  }  RemoteUEInformationSidelink-v1900-IEs ::= SEQUENCE {  sl-PagingInfo-RemoteUE-List-r19 SetupRelease { SL-PagingInfo-RemoteUE-List-r19} OPTIONAL, -- Need M  SL-PagingInfo-RemoteUE-List-r19 ::= SEQUENCE (SIZE (max)) OF SL-PagingInfo-RemoteUE-r17 |