**3GPP TSG-** **RAN2 Meeting #121bis-e R2-2304189**

**Online, 17-26 April 2023**

**Agenda item:** 6.5.2

**Title:** Report of [AT121bis-e][425][Relay] Rel-17 relay CP CRs (Huawei)

**Source:** Huawei, HiSilicon

**Document for:** Discussion and decision

1. Introduction

This is the report of the following offline discussion.

* [AT121bis-e][425][Relay] Rel-17 relay CP CRs (Huawei)

Scope: Check the proposals from R2-2304189 and conclude on the CRs. Can produce a merged CR for minor changes.

Intended outcome: Report to CB session and agreeable CRs

Deadline: Monday 2023-04-24 2359 UTC

2. Discussion

In R2-2304189, the following analysis and Rapp suggestion are given. This offline is to collect companies’ views on the proposals from R2-2304189.

**Contact information**

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| **Company** | **Name (Email)** |
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## 2.1 Editorial changes in R2-2303156, R2-2303175, R2-2303176, R2-2303337, R2-2303385, R2-2303656, R2-2303739, R2-2303922

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| [**R2-2303156**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2303156.zip) | Correction on Field Description of Common Resource Pool | CATT | In subclause 6.3.5, in the filed description of sl-TxPoolScheduling and sl-TxPoolSelectedNormal, change "transmit NR sidelink communication" to "perform NR sidelink transmission“ in order to include the NR sidelink discovery. |

**Proposal 3: The changes in R2-2303156 are agreeable, and can be merged into RRC miscellaneous CR.**

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| [**R2-2303175**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2303175.zip) | Miscellaneous corrections to TS 38.331 for SL relay | ZTE Corporation, Sanechips | 1. In clause 5.8.13.2, add “discovery reception” in two sentences. Change “include” to “included”. 2. In clause 5.8.13.3, change “sl-RemoteUE-ConfigCommon” to “sl-PreconfigDiscConfig”.   Correct the IE name to *SL-FreqConfigCommon.* |

**Proposal 4: The changes in R2-2303175 are agreeable, and can be merged into RRC miscellaneous CR.**

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| [**R2-2303176**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2303176.zip) | Corrections on sorting quantity of Event X1 for SL relay | ZTE Corporation, Sanechips | 1. In clause 5.5.5.3, add “or in the x1-Threshold2 (for eventX1)”. |

**Proposal 5: The change in R2-2303176 is agreeable, and can be merged into RRC miscellaneous CR.**

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| [**R2-2303337**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2303337.zip) | Correction on PC5 RLC channel release trigger due to SL RLF | vivo | In clause 5.8.9.7.1., add the PC5 RLC channel release trigger due to SL RLF. |

**Proposal 6: The change in R2-2303337 is agreeable, and can be merged into RRC miscellaneous CR.**

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| [**R2-2303385**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2303385.zip) | Corrections on UE handling of Layer 2 UE-to-NW relay configurations | Apple | 1. Added “RRCSetup” in 5.3.5.14 for PC5 RLC Channel configuration handling.  2. Moved the handling of sl-UEIdentityRemote to a level-1 bullet In 5.3.5.16.  3. Added the procedure text to release sl-L2RelayUE-Config, sl-L2RemoteUE-Config, PC5 Relay RLC channels, Uu Relay RLC channels in 5.3.8.3.  4. Fixed the editorial issue in 5.3.10.3 for relay UE’s Uu RLF handling. |

Change #1, #4 are correct. The moderator suggests to merge the changes into one big miscellaneous CR.

Change #2 is related to the proposed changes in 3739, please see the Rapp’s suggestion there.

For change #3, the first two sentences are correct because UE needs to release RLC channels explicitly, but the last two sentences are not needed, because following the current style in the same clause, for configuration, *not store* seems to equal to *release*.

**Proposal 8: Change #1, Change #4 and the first two sentence of change #3 in R2-2303385 are agreeable, and can be merged into RRC miscellaneous CR.**

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| [**R2-2303656**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2303656.zip) | Miscellaneous corrections to 38331 | Nokia, Nokia Shanghai Bell | 1. Clarified conditional statements |

Change #1 of adding separations between conditional “or”s is ok, and can be merged into miscellaneous CR.

Change #2 of removing “/” seems to be incorrect, because the current description is for two types of remote UEs, one is performing relay selection, and the other one is performing relay reselection.

Change #3 of merging the parallel conditions into a *neither..nor..* sentence seems misleading, so the moderator suggests to keep the current wording.

**Proposal 11: The first change of adding separations between conditional “or”s in R2-2303656 is agreeable and can be merged into RRC miscellaneous CR.**

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| [**R2-2303739**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2303739.zip) | Correction on L2 U2N Relay Remote UE RRC procedure | Philips International B.V. | Change “*sl-SRAP-ConfigRemote*” in the above text to “*sl-L2RemoteUE-Config*”. |

**Proposal 12: The changes in R2-2303739 are agreeable, and can be merged into RRC miscellaneous CR.**

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| [**R2-2303922**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2303922.zip) | Correction on role of a L2 U2N Remote UE | ASUSTeK | In sub-clause 5.8.9.3, the term “the UE is acting as L2 U2N Remote UE” is replaced by “the UE is capable of L2 U2N Remote UE”. |

The moderator understands the point, and suggest to change “is” to “was”, to echo the condition in 5.3.7, i.e. *1> upon detecting sidelink radio link failure by L2 U2N Remote UE in RRC\_CONNECTED, in accordance with clause 5.8.9.3;*.

**Proposal 13: RAN2 agree that “is” is to be replaced by “was” in the sentence “the UE is acting as L2 U2N Remote UE for the destination” in clause 5.8.9.3.**

Question 1: any objection/comments to P3, P4, P5, P6, P8, P11, P12, P13?

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| **Companies** | **Yes or No** | **Comments** |
| OPPO | See comment | For P8  Although we agree with the WF, yet for the reasoning  “For change #3, the first two sentences are correct because UE needs to release RLC channels explicitly, but the last two sentences are not needed, because following the current style in the same clause, for configuration, *not store* seems to equal to *release*.”  We understand the last two sentence is not just redundant, but wrong, since it hints the C-RNTI should be released (as a part of sl-L2RemoteUE-Config), which is not true. |
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## 2.2 38304 CR in R2-2303489

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| [**R2-2303489**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2303489.zip) | Clarification on sidelink communication resource configuration used by OoC L2 Remote UE | Huawei, HiSilicon | In clause 8.1,   * Clarify that when a L2 U2N Remote UE is out-of-coverage, the UE shall perform NR sidelink communication according to SIB12 received from the connected L2 U2N Relay UE, but not according to *SL-V2X-PreconfigurationNR*. |

The change is to clarify OoC L2 Remote UEs should use resource configuration in SIB12 other than pre-config for SL communication, which is in line with the previous RAN2 agreement.

**Proposal 10: The 38.304 CR in R2-2303489 is agreeable.**

Question 2: any objection/comments to P10?

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| **Companies** | **Yes or No** | **Comments** |
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2.3 Discussion on paging cause forwarding (R2-2302593/2594)

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| **TDoc number** | TDoc title | Source | Change summary |
| [**R2-2302593**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2302593.zip) | Corrections to paging monitoring via Relay UE | Samsung Electronics Co., Ltd | Proposal: Add PagingRecord-v1700 in UuMessageTransferSidelink message. L2 U2N Relay UE includes this when it receives paging cause for the L2 U2N Remote UE in paging message received from gNB. |
| [**R2-2302594**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2302594.zip) | 38.331\_CR\_Corrections to paging monitoring via Relay UE | Samsung Electronics Co., Ltd | PagingRecord-v1700 is added in UuMessageTransferSidelink message. L2 U2N Relay UE includes this when it receives paging cause for the L2 U2N Remote UE in paging message received from gNB. |

The moderator understands the change is not essential. Paging cause was introduced for MUSIM in Rel-17 to assist UE on determining whether to response the paging at the cost of dropping the connection via other SIM. But whether a MUSIM UE supports this paging cause, how to use the paging cause, whether the UE needs to drop other connection to response the paging, etc. are all up to UE implementation, which means supporting paging cause is not an essential requirement for MUSIM UE. Then if a MUSIM UE accesses network via a Relay UE, it can still work without knowing the paging cause.

On the other hand, if forwarding paging cause is to be supported, only adding asn.1 in UuMessageTransferSidelink is not sufficient, as the Relay UE may not be a MUSIM UE and cannot comprehend the paging case.

In this case, not supporting paging cause forwarding in PC5 seems to be an easier way-forward in Rel-17.

**Proposal 2: RAN2 confirm that forwarding paging cause by L2 U2N Relay UE is not supported in Rel-17.**

Question 3.1: Do you agree that forwarding paging cause by L2 U2N Relay UE is not supported in Rel-17?

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| **Companies** | **Yes or No** | **Comments** |
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Question 3.2: Do you think any spec change to make? If yes, separate CR or merge into misc CR?

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| **Companies** | **Suggestions on spec change** | **separate CR or misc CR, any other comments** |
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## 2.4 RRC CR on Uu reconfiguration failure of relay UE (R2-2303115)

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| [**R2-2303115**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2303115.zip) | Correction on 38.331 | Xiaomi | Relay UE can send NotificationMessageSidelink to remote UE upon reconfiguration failure. It’s up to relay UE’s implementation how to set indicationType if the UE initiates transmission of the NotificationMessageSidelink message due to reconfiguration failure |

The moderator understands the change is not essential. In previous RAN2 meeting, there was extensive discussion on which failure cases can trigger Relay UE to notify Remote UE with the failure type. Majority companies were negative to adding more failure cases. Particularly, in RAN2#116bis meeting, based on R2-2111223 summary of AI 8.7.3.2 relay (re)selection, E. Uu RRC reconfiguration failure has been discussed but not been agreed. Thus the moderator suggests not to open the same discussion after Rel-17 completion for a long time.

**Proposal 2:** [**R2-2303115**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2303115.zip) **is not pursued.**

Question 4.1: Do you agree that Relay UE’s RRC reconfiguration failure does not trigger notification message?

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| **Companies** | **Yes or No** | **Comments** |
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If P2 can be agreed, regarding potential spec change, the moderator found the following relay UE behavior has been captured in the RRC spec:

* Upon RLF, Uu HO, RRC connection establishment/resume failure or RRC reject, the relay UE determines whether to indicate upper layers (to trigger PC5 unicast link release) or send Notification message to the connected L2 U2N Remote UE(s).
* Once RRC reestablishment is triggered, the relay UE releases SRAP, releases sl-L2RelayUE-Config, But there is no explicit PC5 unicast link handling for other failure cases than RLF.

In this case, the moderator suggest to clarify that relay UE will release the PC5 unicast link used for relaying upon RRC reestablishment triggered for the **other failure** cases **than RLF** which has been covered already in 5.3.10.

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| A L2/L3 U2N Relay UE shall:  1> upon detecting radio link failure:  2> it either indicates to upper layers (to trigger PC5 unicast link release) or sends Notification message to the connected L2/L3 U2N Remote UE(s) in accordance with 5.8.9.10. |

Then the potential change to RRC spec could be:

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| 5.3.7.2 Initiation  The UE initiates the procedure when one of the following conditions is met:  1> upon detecting radio link failure of the MCG and *t316* is not configured, in accordance with 5.3.10; or  1> upon detecting radio link failure of the MCG while SCG transmission is suspended, in accordance with 5.3.10; or  1> upon detecting radio link failure of the MCG while PSCell change or PSCell addition is ongoing, in accordance with 5.3.10; or  1> upon detecting radio link failure of the MCG while the SCG is deactivated, in accordance with 5.3.10; or  1> upon re-configuration with sync failure of the MCG, in accordance with clause 5.3.5.8.3; or  1> upon mobility from NR failure, in accordance with clause 5.4.3.5; or  1> upon integrity check failure indication from lower layers concerning SRB1 or SRB2, except if the integrity check failure is detected on the *RRCReestablishment* message; or  1> upon an RRC connection reconfiguration failure, in accordance with clause 5.3.5.8.2; or  1> upon detecting radio link failure for the SCG while MCG transmission is suspended, in accordance with clause 5.3.10.3 in NR-DC or in accordance with TS 36.331 [10] clause 5.3.11.3 in NE-DC; or  1> upon reconfiguration with sync failure of the SCG while MCG transmission is suspended in accordance with clause 5.3.5.8.3; or  1> upon SCG change failure while MCG transmission is suspended in accordance with TS 36.331 [10] clause 5.3.5.7a; or  1> upon SCG configuration failure while MCG transmission is suspended in accordance with clause 5.3.5.8.2 in NR-DC or in accordance with TS 36.331 [10] clause 5.3.5.5 in NE-DC; or  1> upon integrity check failure indication from SCG lower layers concerning SRB3 while MCG is suspended; or  1> upon T316 expiry, in accordance with clause 5.7.3b.5; or  1> upon detecting sidelink radio link failure by L2 U2N Remote UE in RRC\_CONNECTED, in accordance with clause 5.8.9.3; or  1> upon reception of *NotificationMessageSidelink* including *indicationType* by L2 U2N Remote UE in RRC\_CONNECTED, in accordance with clause 5.8.9.10; or  1> upon PC5 unicast link release indicated by upper layer at L2 U2N Remote UE in RRC\_CONNECTED.  NOTE 0: It is up to UE implementation whether to initiate the procedure while T346g is running.  Upon initiation of the procedure, the UE shall:  1> stop timer T310, if running;  .......................  1> release *sl-L2RelayUE-Config*, if configured;  1> release *sl-L2RemoteUE-Config*, if configured;  1> release the SRAP entity, if configured;  1> if the UE is acting as L2 U2N Relay UE:  2> if the reestablishment of the RRC connection is not due to radio link failure in accordance with 5.3.10:  3> indicate upper layers to trigger PC5 unicast link release for the PC5 unicast links(s) connected with the L2 U2N Remote UE(s);  1> if the UE is acting as L2 U2N Remote UE:  2> if the PC5-RRC connection with the U2N Relay UE is determined to be released:  3> indicate upper layers to trigger PC5 unicast link release;  3> perform either cell selection in accordance with the cell selection process as specified in TS 38.304 [20], or relay selection as specified in clause 5.8.15.3, or both;  2> else (i.e., maintain the PC5 RRC connection):  3> consider the connected L2 U2N Relay UE as suitable and perform actions as specified in clause 5.3.7.3a;  NOTE 1: It is up to Remote UE implementation whether to release or keep the current PC5 unicast link.  1> else:  2> if the UE is capable of L2 U2N Remote UE:  3> perform either cell selection as specified in TS 38.304 [20], or relay selection as specified in clause 5.8.15.3, or both;  2> else:  3> perform cell selection in accordance with the cell selection process as specified in TS 38.304 [20].  NOTE 2: For L2 U2N Remote UE, if both a suitable cell and a suitable relay are available, the UE can select either one based on its implementation. |

Question 4.2: Do you agree to clarify in RRC spec that Relay UE will release the PC5 unicast link used for relaying upon RRC reestablishment triggered by the failure cases other than RLF?

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| **Companies** | **Yes or No** | **separate CR or misc CR, any other comments** |
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## 2.5 Correction on remote UE’s behavior upon SIB1 reception (R2-2303983)

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| [**R2-2303983**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2303983.zip) | Correction on remote UE’s behavior upon SIB1 reception | Xiaomi | If UE is U2N remote UE, UE can apply the SIB1 configuration regardless of the legacy UL/DL conditions. |

The moderator agree with the intention. But according to the procedural text, another issue is with the change, it seems the remote UE needs to apply the Uu L1 configuration. Thus the moderator tends to think adding a NOTE to clarify that a L2 U2N Remote UE can disregard the serving cell UL/DL configuration in SIB1.

**Proposal 14: The intention of** [**R2-2303983**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2303983.zip) **is agreeable. RAN2 to discuss whether to add a NOTE in 5.2.2.4.2, to clarify upon reception of the SIB1, a L2 U2N Remote UE can disregard the Uu L1 UL/DL configurations of the serving cell.**

Question 5.1: any objection/comments to P14?

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| **Companies** | **Yes or No** | **Comments** |
| OPPO | Not sure | One thing we would like to bring to companies attention is the NS-value check, since for that we do not have UE capability bits, so hard for network to verify but can only rely on UE's check as in the current spec upon SIB1 acquisition. If we remove this step, we are wondering whether there would be HO failure when the network would like to handover this UE to another cell, which originally access the network via relay, but later to switch to direct path in another cell, due to NS-value reason.  We are open to hear the view from others. |
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Question 5.2: if the intention of R2-2303983 is agreeable, regarding the spec change, do you agree to add a NOTE in 5.2.2.4.2, to clarify upon reception of the SIB1, a L2 U2N Remote UE disregards the frequency, bandwidth, etc, and does not apply Uu L1 UL/DL configurations of the serving cell?

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| **Companies** | **Suggestions on spec change** | **separate CR or misc CR, any other comments** |
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## 2.6 Correction on SRB0 handling when UE is acting as L2 U2N Remote UE (R2-2303338)

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| [**R2-2303338**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2303338.zip) | Correction on SRB0 handling when UE is acting as L2 U2N Remote UE | vivo | In clause 5.3.3.2, 5.3.7.3a and 5.3.13.2, remove the sentence of “2> apply the SDAP configuration and PDCP configuration as specified in 9.1.1.2 for SRB0;”. |

The moderator understands the changes are not essential, because in the table of CCCH configuration, the value of SDAP/PDCP configuration is “not used”, then the current spec is not wrong at least. In fact, the sentence of “2> apply the SDAP configuration and PDCP configuration as specified in 9.1.1.2 for SRB0;” was added to address companies’ comment that how to handle SDAP/PDCP should be same to legacy Uu SRB0 via CCCH during CR drafting.

**Proposal 7:** [**R2-2303338**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2303115.zip) **is not pursued.**

Question 5: any objection/comments to P7?

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## 2.7 Discussion on SRAP configuration in RRCReestablishment (R2-2303386)

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| [**R2-2303386**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2303386.zip) | Discussion on SRAP configuration in RRCReestablishment | Apple | Observation 1 In Rel-17, RRCReestablishment is unable to override the default SRAP configuration and the UE will continue to use SL-RLC1 as egress PC5 Relay RLC channel for SRB1.  Observation 2 When the SRAP configuration in RRCReestablishment is processed by L2 U2N remote UE, the UE will either encounter a configuration error or do nothing.  Then, we have the following proposals:  Proposal 1 RAN2 confirm that SRAP configuration for SRB1 in RRCReestablishement is not needed for L2 U2N remote UE.  Proposal 2 RAN2 consider to correct this problem with either 1) remove “the SRAP configuration used for the SRB1” in the field description of SL-L2RemoteUE-Config of RRCReestablishment message; or 2) Add the procedure text to let remote UE to ignore the SRAP configuration in RRCReestablishment message. |

The moderator understands this CR is to align with previous RAN2 agreement that dedicated configuration of SL-RLC1 for SRB1 is removed from RRCReestablishment message which was neglected somehow in the CR update. Thus the moderator suggests to go with 1) remove “the SRAP configuration used for the SRB1” in the field description of SL-L2RemoteUE-Config of RRCReestablishment message. But for the detailed wording, “SRAP configuration” can be kept and “the SRB1” can be removed, as the SRAP-Config needs to be present to include local ID.

**Proposal 9: RAN2 agree that “the SRAP configuration used for the SRB1” is to be removed from the field description of SL-L2RemoteUE-Config of RRCReestablishment message.**

Question 7: Do you agree that “for the SRB1” is to be removed from the field description of SL-L2RemoteUE-Config of RRCReestablishment message?

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| **Companies** | **Suggestions on spec change** | **separate CR or misc CR, any other comments** |
| OPPO | But if we simply remove ‘for the SRB1’, it seems to say the SRAP configuration can be applicable to bearers other than SRB1, which is not the real intention, we can simply say something like the SRAP configuration is limited to C-RNTI configuration in this release.  Or we are also OK if no change at all, since it may end up with a useless signaling, but still nothing broken.. |  |
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## 2.8 Correction on Cell Barring for L2 U2N Remote UE (R2-2304066)

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| [**R2-2304066**](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_121bis-e/Docs/R2-2304066.zip) | Correction on Cell Barring for L2 U2N Remote UE | Ericsson España S.A. | Section 5.2   * Added a clause for when *sl-L2U2N-Relay-r17* is not included in SIB12 |

The proposal is to let Remote UE consider the cell not indicating *sl-L2U2N-Relay-r17* in SIB12 as barred, which implies the Remote UE is able to receive SIB12 from Relay UE. The moderator thinks the issue is invalid because according to current spec connected relay UE/UE performing direct discovery can only send SUI to request discovery resource/configuration when network indicates support of relay/non-relay discovery in SIB12 in clause 5.8.3.2, which means discovery is not allowed when network does not support discovery.

**Proposal 15: R2-2304066 is not pursued.**

Question 8.1: any objection/comments to P15?

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| **Companies** | **Yes or No** | **Comments** |
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However after checking the current RRC spec, the network indications (i.e. *sl-L2U2N-Relay-r17*, *sl-L3U2N-RelayDiscovery* and *sl-NonRelayDiscovery*) in SIB12 are only used for SUI transmission, but not for idle/inactive UE. There is the same issue for sl-L3U2N-RelayDiscovery and sl-NonRelayDiscovery, thus some clarifications are needed. But the moderator would like to check companies’ views.

Question 8.2: Do you agree to clarify in RRC spec that idle/inactive UE cannot perform discovery when network does not support discovery (i.e. *sl-L2U2N-Relay-r17*, *sl-L3U2N-RelayDiscovery* and *sl-NonRelayDiscovery* is not included in SIB12)?

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| **Companies** | **Yes or No** | **separate CR or misc CR, any other comments** |
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# 3. Conclusion