**3GPP TSG-RAN WG2 Meeting #113bis-e**

 ***R2-210xxxx***

**Electronic, 12th April – 20th April, 2021**

**Agenda item: 6.4.1**

**Source: Huawei (Rapporteur)**

**Title: [AT113bis-e][702][V2X/SL] Miscellaneous corrections on RRC**

**Document for: Discussion and decision**

# Introduction

This is the trigger of the following email discussion:

* [AT113bis-e][702][V2X/SL] Miscellaneous corrections on RRC

 **Scope:** Discuss R2-2102712, R2-2102984, R2-2102985, R2-2102986, R2-2103090, R2-2103127, R2-2103317, R2-2103318, R2-2103767, R2-2104105, and R2-2104108 in the Rapporteur’s miscellaneous correction CR(s) offline discussion, by taking into account Rapporteur’s recommendations in Table 1.

 **Intended outcome:** Agreeable 38.331 CR in R2-2104464, 36.331 CR in R2-2104465, and discussion summary in R2-2104466 if needed.

**Deadline:** 4/19, 14:00 (UTC).

Companies are requested to provide their views on the issues listed in this document.

# Miscellaneous corrections on TS 38.331

The CRs that need to be discussed are listed as below.

#### ***R2-2102712***

In R2-2102712, it proposed to add a note to indicate that SL CG type 2 should not be used when T310 is running.

Question 1: Do companies agree to add a note to indicate that SL CG type 2 should not be used when T310 is running as proposed in R2-2102712?

* **Yes.**
* **No (Please clarify why the proposed changes are not acceptable).**

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comment |
| OPPO | Yes |  |
| ZTE | Yes |  |
| Nokia | Yes |  |
|  |  |  |
|  |  |  |

#### ***R2-2102984***

In R2-2102984, it proposed to add the missing “sl-RLC-BearerToReleaseList” in the SL DRB release condition.

Question 2: Do companies agree to add the missing “sl-RLC-BearerToReleaseList” in the SL DRB release condition as proposed in R2-2102984?

* **Yes.**
* **No (Please clarify why the proposed changes are not acceptable).**

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comment |
| OPPO | Yes |  |
| ZTE | Yes | Proponent |
| Nokia | Yes |  |
|  |  |  |
|  |  |  |

#### ***R2-2102985/R2-2102986***

In R2-2102985/R2-2102986, besides the editorial changes included in this CR that can be agreed and merged into the Rapp’s miscellaneous correction CR, it proposed to add a note saying that how the UE handles the SL related BSR/SR procedure is up to UE implementation. Rapporteur think the current Spec has already accurately captured the last meeting agreements, and the note proposed by this CR is not needed.

Question 3: Do companies agree to add a note saying that how the UE handles the SL related BSR/SR procedure is up to UE implementation as proposed in R2-2102985/R2-2102986?

* **Yes.**
* **No (Please clarify why the proposed changes are not acceptable).**

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comment |
| OPPO | No |  |
| ZTE | Yes | ProponentTo response to Rapp’s comment:RAN2’s agreement is shown in following:

|  |
| --- |
| [RAN2 confirm that during the re-set configuration, only the configuration received in the](file:///D%3A%5C%5CDownloads%5C%5CR2-210xxxx%20-%20Summary%20of%20%5BAT113-e%5D%5B704%5D_Phase1_Report_v03_Ericsson.docx%22%20%5Cl%20%22_Toc63328403) *[RRCReconfigurationSidelink](file:///D%3A%5C%5CDownloads%5C%5CR2-210xxxx%20-%20Summary%20of%20%5BAT113-e%5D%5B704%5D_Phase1_Report_v03_Ericsson.docx%22%20%5Cl%20%22_Toc63328403)* [(i.e., the configuration for Rx) is to be released, i.e., the configuration received from dedicated-RRC/SIB/Pre-configuration (i.e., the configuration for Tx) is not released](file:///D%3A%5C%5CDownloads%5C%5CR2-210xxxx%20-%20Summary%20of%20%5BAT113-e%5D%5B704%5D_Phase1_Report_v03_Ericsson.docx%22%20%5Cl%20%22_Toc63328403).[RAN2 confirms that during the re-set configuration, after DRB release, the released bearers are to be re-added, based on the stored configuration received from dedicated-RRC/SIB/Pre-configuration.](file:///D%3A%5C%5CDownloads%5C%5CR2-210xxxx%20-%20Summary%20of%20%5BAT113-e%5D%5B704%5D_Phase1_Report_v03_Ericsson.docx%22%20%5Cl%20%22_Toc63328404) |

We think this agreement and corresponding RAN2 discussion indicate one principle: sidelink reset of RX UE indicated by TX UE shall only influence the RX operation, not TX operation. That’s why the released bears received from dedicated-RRC/SIB/Pre-configuration need to be re-added.We first agree that the current spec has captured the bear configuration related agreement. However, except bear configuration, during sidelink reset, RX UE will also perform sidelink specific MAC reset.and sidelink specific MAC reset influences both RX and TX operations. Based on the principle of last RAN2 meeting’s agreement, it is unreasonable to cancel or release the TX operation during sidelink reset. We just want to correct the sidelink specific MAC reset operation during sidelink reset.  |
| Nokia | No | First of all we think this change is not needed and secondly adding “up to UE implementation” does not provide any additional value. |
|  |  |  |
|  |  |  |

#### ***R2-2103317***

In R2-2103317, it proposed to clarify that integrity check also applies to SL-SRB1 and clarify, when 2 additional MCS table is configured, which one is the first MCS table in the sl-Additional-MCS-Table and which one is the 2nd, in order to match what is specified in TS 38.214. Rappoteur think the intention is agreeable. It can be further discussed whether it is needed to also cover the case when only one Additional MCS table is configured in this field.

Question 4: Do companies agree to the changes as proposed in R2-2103317?

* **Yes.**
* **No (Please clarify why the proposed changes are not acceptable).**

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comment |
| OPPO | See comment | Change-1 is NOK, since srb1 IP check failure may happen during re-keying procedure, for which there is no need to do RLF. |
| ZTE | Change1 is OK.Change2 is OK with comments | For the wording of change2, we think it is not suitable to use “If two MCS tables are configured”. This IE(i.e. ***sl-Additional-MCS-Table***), only indicates which MCS table can be used by UE, but the detailed configurations are provided by another IE as shown in following:

|  |
| --- |
| 8.1.3.1 Modulation order and target code rate determination*IMCS* is given by the '*Modulation and coding scheme*' field in SCI format 1-A.The MCS table is determined as follows: Table 5.1.3.1-1 is used if no additional MCS table is configured by higher layer parameter *sl-MCS-Table*;otherwise an MCS table is determined according to Table 8.1.3.1-1 or Table 8.1.3.1-2 and '*MCS table indicator*' field in SCI format 1-A.  |

In other words, network can provide tow additional MCS table configuration, but indicate that only one of them can be used. In consequence, we prefer to change “If two MCS tables are configured” to “If two MCS tables are indicated”.And, we think the name of second MCS table is “qam64LowSE”, not “low-SE” |
| Nokia | Yes |  |
|  |  |  |
|  |  |  |

Question 5: Do companies agree to clarify when only one Additional MCS table is configured?

* **Yes.**
* **No (Please clarify why the proposed changes are not acceptable).**

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comment |
| ZTE | No | Not necessary |
| Nokia | Yes |  |
|  |  |  |
|  |  |  |

#### ***R2-2103767***

In R2-2103767, it proposed to clarify that the initiating UE should not report the peer UE’s capability to the NW the UE has already reported it. Rappoteur think it seems that the proposal has already covered by the existing texts and no specification is needed.

Question 6: Do companies agree to clarify that the initiating UE should not report the peer UE’s capability to the NW the UE has already reported it as proposed in R2-2103767?

* **Yes.**
* **No (Please clarify why the proposed changes are not acceptable).**

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comment |
| OPPO | See comment | Firstly, it is good to check the understanding of the current spec:Based on Rapp-remarkit seems the UE can already save the capability, due to the “(if needed)”.. but we tend to think that may not be interpret as the back-door to do delta report for SUI (otherwise, one can make use of this (if needed) in an arbitrary manner..), so the issue observed by Nokia is valid to us.Secondly, whether to pursue some change:from our perspective, it is not super critical for R16, since the capability signalling size is OK. But we tend to believe SUI message may later grow up quickly when we step into R17, 18.. so at some time, to allow delta report for SUI message would be a good / generalize method to solve the SUI message size issue. |
| ZTE | No | RAN2 has agreed that not purse signaling overhead optimization for capability transfer procedure for TX-UE forwarding peer-UE SL capability to network via Uu-RRC. |
| Nokia | Yes (Proponent) | According to our understanding the current specification does not prevent a UE to send repeatedly and hence unnecessarily its peer UEs capabilities in SUI to the network (despite the existence of “if needed” in brackets). Although the issue may not seem critical for Rel-16 (i.e. er admit that nothing is broken) we agree with OPPO’s observation that the issue is valid and RAN2 should strive for optimal UE behaviour wrt to SL UE capability reporting especially when SUI message size is growing. |
|  |  |  |
|  |  |  |

#### ***R2-2103090/R2-2103127/R2-2103318/R2-2104105***

The proposed changes in R2-2103090, R2-2103127, R2-2103318 and R2-2104105 are quite straightforward, rapporteur will directly merge the changes into the miscellaneous CR.

# Miscellaneous corrections on TS 36.331

#### ***R2-2104108***

In R2-2104108, besides some editorial changes that are quite straightforward, it proposed in the field description for daps-HO in section 6.3.2, clarify the configuration is not allowed when sidelink is configured.

Question 7: Do companies agree to clarify in the field description for daps-HO that the configuration is not allowed when sidelink is configured as proposed in R2-2104108?

* **Yes.**
* **No (Please clarify why the proposed changes are not acceptable).**

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comment |
| OPPO | Yes |  |
| ZTE | Yes |  |
| Nokia | Yes |  |
|  |  |  |
|  |  |  |

# Conclusion

# Reference

[1] R2-2102712 Corrections to usage of CG Type 2 when T310 is running, Samsung Electronics Co., Ltd

[2] R2-2102984 Correction on sidleink configuration, ZTE Corporation, Sanechips

[3] R2-2102985 Correction on sidelink reset operation, ZTE Corporation, Sanechips

[4] R2-2102986 Discussion on sidelink reset operation, ZTE Corporation, Sanechips

[5] R2-2103090 Miscellaneous Correction on TS38 331, CATT

[6] R2-2103127 Miscellaneous corrections on NR V2X, SHARP Corporation

[7] R2-2103317 Corrections related to SA3 and RAN1, vivo

[8] R2-2103318 CR on the inter-frequency sidelink operation, vivo

[9] R2-2104105 Miscellaneous corrections on TS 38.331 (Rapporteur CR), Huawei, HiSilicon

[10] R2-2104108 Miscellaneous corrections on TS 36.331 (Rapporteur CR), Huawei, HiSilicon.

[11] R2-2103767 On the peer UE capability transfer in unicast sidelink, Nokia, Nokia Shanghai Bell