**3GPP TSG-RAN WG2 Meeting #115 electronic R2-2108987**

**Online, 9th – 27th August 2021**

Agenda item: 6.2.2

**Source: Huawei, HiSilicon**

**Title: Summary [AT115-e][705][V2X/SL] Miscellaneous CRs on RRC (Huawei)**

**Document for: Discussion and Decision**

# Introduction

This document is the summary of below offline discussion:

* [AT115-e][705][V2X/SL] Miscellaneous CRs on RRC (Huawei)

**Scope:** Discuss CRs in R2-2107166, R2-2107167, R2-2107437, R2-2108178, and R2-2108219 in an offline discussion, and if agreeable merge them into rapporteur’s miscellaneous CRs.

**Intended outcome:** Agreeable 38.331 CR in R2-2108985 and 36.331 CR in R2-2108986, and discussion summary in R2-2108987 if needed. Agreeable 38.323 CR in R2-2108988 if PDCP correction is needed. Will be approved by email.

**Deadline:** 8/24 13:00pm UTC

# Correction CRs to be discussed for TS 38.331

### On changes proposed in Rapporteur CR R2-2107166

* + 1. First change

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| **Summary of changes** | **Reason for changes** |
| Change IE *sl-ConfigDedicatedNR* to *sl-ConfigDedicatedForNR* in clauses 5.3.1.1, 5.5.3, and 5.8.1. | The IE *sl-ConfigDedicatedNR* in NR *RRCReconfiguration* message in TS 38.331 provides the dedicated configurations for NR sidelink communication. In E-UTRA system, the configurations for NR sidelink communication contained in *sl-ConfigDedicatedNR* are embedded in the IE *sl-ConfigDedicatedForNR* of *RRCConnectionReconfiguration* message, as an octet string.  In clauses 5.3.1.1, 5.5.3, and 5.8.1 of the current specification, it should be IE *sl-ConfigDedicatedForNR* whitin the *RRCConnectionReconfiguration* message as specified in TS 36.331. |

**Q1: Would your company disagree with the above proposed change?**

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| --- | --- |
| Company | Comments |
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* + 1. Second change

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| **Summary of changes** | **Reason for changes** |
| In clause 5.8.2, modify the UE RRC state in the conditions for NR sidelink communication operation in limited service state. | According to TS 38.304 clause 4.3, a UE that is provided with so called “limited service” is in RRC\_IDLE state. In clause 4.5, it is pointed out that if the UE in RRC\_IDLE fulfils the conditions to support NR sidelink communication or V2X sidelink communication in limited service state as specified in TS 23.287 clause 5.7, the UE may perform NR sidelink communication or V2X sidelink communication. Therefore, in clasue 5.8.2 of current specification, for the conditions to support NR sidelink communication operation in limited service state, the UE shall only be in RRC\_IDLE state. |

**Q2: Would your company disagree with the above proposed change?**

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| Company | Comments |
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* + 1. Third change

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| **Summary of changes** | **Reason for changes** |
| Change “NR sidelink communication transmission’ to ‘NR sidelink communication reception” in clause 5.8.7. | Clause 5.8.7 describes the actions when a UE capable of NR sidelink communication that is configured by upper layers to receive NR sidelink communication. Thus, in this clause, the chosen cell is for NR sidelink communication reception, not for NR sidelink communication transmission. |

**Q3: Would your company disagree with the above proposed change?**

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| Company | Comments |
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* + 1. Fourth change

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| **Summary of changes** | **Reason for changes** |
| Modify the description of sidelink DRB release condition in clause 5.8.9.1a.1.1. | As clause 5.8.9.3 describes, when sidelink radio link failure is detected, the UE shall release the DRBs, SRBs of the related destination then indicate the release of the PC5-RRC connection to the upper layers. It means that a sidelink DRB release can be initiated when sidelink radio link failure is detected. Therefore, in description of the sidelink DRB release in current specification clause 5.8.9.1a.1.1, the condition “when the corresponding PC5-RRC connection is released due to sidelink RLF being detected, according to clause 5.8.9.3” is not clear and shall be “when the sidelink radio link failure is detected, according to clause 5.8.9.3”. This description is also consistent with the description of SRB release due to sidelink radio link failure in clause 5.8.9.1a.3. |

**Q4: Would your company disagree with the above proposed change?**

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| Company | Comments |
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* + 1. Editorial changes

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| **Summary of changes** | **Reason for changes** |
| Fix the editorial errors. | Some editorial errors still exist |

**Q5: Would your company disagree with any of the proposed editorial changes?**

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| Company | Comments |
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### On changes proposed in R2-2107437 and R2-2108178

Changes proposed are based on the same RAN1 LS [1] and the diffidence is on the way of implementation, one is “only specify value 1” and another is “specify both value 1 and value 0”. Companies can choose among options and can provide further comments on the wording.

* Option 1: The wording in R2-2107437: “Value 1 indicates the corresponding RB is used for PSFCH transmission and reception.”
* Option 2: The wording in R2-2108178: “Value 0 in the bitmap indicates that the corresponding PRB is not used for PSFCH transmission and reception while value 1 indicates that the corresponding PRB is used for PSFCH transmission and reception (see TS 38.213 [13]).”
* Option 3: Not to support both CRs

**Q6: Which option your company support?**

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| --- | --- | --- |
| Company | Option | Comments |
| Huawei, HiSilicon | 2 | We prefer this implementation for its completeness of the description. Also we think it shall be “corresponding PRB”, not “corresponding RB”. |

### On change proposed in R2-2108219

The intention of the change was considered as agreeable and the main concern was on the wording in the last meeting. We can discuss on this revised wording and on whether it shall be RRC CR or PDCP CR.

“NOTEX: When integrity check failure concerning SL-SRB1 for a specific destination is detected, the UE sends an indication to the upper layers [57].”

* Option 1, agreed as RRC CR
* Option 2, agreed as PDCP CR
* Option 3, not to agree the change

**Q7: Which option your company support?**

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| Company | Option | Comments |
| Huawei, HiSilicon | 1 | There are many similar description related to “integrity check failure” in RRC spec, e.g. in clause 5.3.7.2, 5.3.13.3, 5.3.13.5, 5.7.3.2, 5.7.3.3, especially in clause 5.8.9.3. We think this NOTE should be included in RRC spec. |

## On Rapporteur’s miscellaneous CR R2-2107167 for TS 36.331

* 1. First change

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| **Summary of changes** | **Reason for changes** |
| Change *SIB19* to *SystemInformationBlockTypex19, SIB21* to *SystemInformationBlockTypex21, SIB26* to *SystemInformationBlockTypex26, SIB28* to *SystemInformationBlockTypex28* in clauses 5.2.2.36, 6.2.2 and 6.3.1. | The system information block element broadcasted by the E-UTRAN is written in the form of ‘*SystemInformationBlockTypex’, where x is the number ranging from 1 to 29.* ‘*SIBx*’ with x ranging from 1 to 14 is dedicated to the system information block element in NR system.  Therefore, *SIB19, SIB21, SIB26, SIB28* in clauses 5.2.2.36, 6.2.2 and 6.3.1 should be changed to *SystemInformationBlockTypex19, SystemInformationBlockTypex21, SystemInformationBlockTypex26, SystemInformationBlockTypex28*, respectively. |

**Q8: Would your company disagree with the above proposed change?**

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| Company | Comments |
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* 1. Second change

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| **Summary of changes** | **Reason for changes** |
| Change *sl-ConfigDedicatedNR* to *sl-ConfigDedicatedForNR* in clause 5.5.3. | The IE *sl-ConfigDedicatedForNR* in *RRCConnectionReconfiguration* message is a container for providing the dedicated configurations for NR sidelink communication. The octet string contains the NR *RRCReconfiguration* message as specified in TS 38.331, which includes fields related to NR sidelink communication, i.e. *sl-ConfigDedicatedNR*, *measConfig* and/or *otherConfig*.  The IE *sl-ConfigDedicatedNR* in NR *RRCReconfiguration* message in TS 38.331 provides the dedicated configurations for NR sidelink communication.  Obviously, IEs *sl-ConfigDedicatedForNR* and *sl-ConfigDedicatedNR* are funcitionally different. However, *sl-ConfigDedicatedNR* is misused in clause 5.5.3 of the current specification. |

**Q9: Would your company disagree with the above proposed change?**

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| Company | Comments |
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* 1. Editorial changes

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| **Summary of changes** | **Reason for changes** |
| Fix the editorial errors. | Some editorial errors still exit. |

**Q10: Would your company disagree with the any of the proposed editorial changes?**

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| Company | Comments |
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# Conclusions

# Reference

1. R2-2106912, LS on RRC parameter for PSFCH RB set, RAN1.
2. R2-2107166, Miscelleneous CR on 38.331, Huawei, HiSilicon.
3. R2-2107167, Miscelleneous CR on 36.331, Huawei, HiSilicon.
4. R2-2107437, Correction on TS 38.331 from the latest RAN1 decisions, ZTE Corporation, Sanechips.
5. R2-2108178, Corrections on RRC parameter PSFCH RB set, CATT.
6. R2-2108219, CR on SL-SRB1 integrity check failure, vivo, Ericsson.