**3GPP TSG RAN WG1 #106-e R1-210XXXX**

**e-Meeting, August 16th – 27th, 2021**

**Agenda item:** 7.2.5

**Source:** Moderator (CATT)

**Title:** Summary of [106-e-NR-L1enh-URLLC-09]

**Document for:** Discussion and Decision

# Introduction

This document is created to facilitate the email discussion of “[106-e-NR-L1enh-URLLC-09] Issue#14: Correction on invalid symbol determination for PUSCH repetition Type B”. This email thread is triggered by the following draft CR.

[R1-2106932](file:///D%3A%5CDocuments%5C3GPP%20documents%5CRAN1%5CTSGR1_106-e%5CDocs%5CR1-2106932.zip) Correction on invalid symbol determination for PUSCH repetition Type B CATT

# Company views

The only proposed change to TS 38.214 Clause 6.1 in R1-2106932 is the correction of RRC parameter of “*resourceAllocationType1GranularityDCI-0-2*”.

**Q1: Do you agree with the text proposal to TS 38.214 Clause 6.1 in R1-2106932? If not, please provide your comments.**

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| --- | --- | --- |
| **Company** | **Yes or No** | **Comment** |
| ZTE | Yes |  |
| Ericsson | Yes |  |
| Qualcomm  |  Yes |  |
| DOCOMO | Yes |  |
| vivo | Yes |  |
| HW/HiSi | Yes |  |
| Samsung | Yes |  |
| Apple | Yes |  |

In Clause 6.1.2.1 in R1-2106932, the invalid symbol determination for PUSCH repetition type B for half-duplex operation in CA with unpaired spectrum are corrected following the agreed CRs in R1-2104010 and R1-2106346 and the indention is also modified.

**Q2: Do you agree with the intention of the text proposals for TS 38.214 Clause 6.1.2.1 in R1-2106932? If not, why?**

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| **Company** | **Yes or No** | **Comment** |
| ZTE | Yes |  |
| Ericsson | Yes |  |
| Qualcomm | Yes | The CR implements similar changes as the agreed CRs in R1-2104010 and R1-2106346. |
| DOCOMO | Yes |  |
| vivo | Yes |  |
| HW/HiSi | yes |  |
| Samsung | Yes | We understand this is alignment CRs |
| Apple | Yes |  |

**Q3: Do you agree with the text proposals for TS 38.214 Clause 6.1.2.1 in R1-2106932? If not, please provide your comments.**

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| --- | --- | --- |
| **Company** | **Yes or No** | **Comment** |
| ZTE | Yes |  |
| Ericsson | Partly | One question on the TP in R1-2106932:What’s the reason to add “within a cell group” when it’s not about NR-DC? In the CR of R1-2104010, there is no “within a cell group” in the corresponding place. |
| Qualcomm |  | Same view as Ericsson. Not sure why “within a cell group” in included in the CR, when the other two CRs agreed in previous meetings do not include such qualifiers.  |
| DOCOMO | Partly | Same question as Ericsson and Qualcomm. Would appreciate it if CATT could clarify the reason to add “within a cell group”. |
| vivo |  | Same view as Ericsson. It should be clarified for adding “within a cell group”. |
| CATT |  | Thanks Ericsson, Qualcomm and DOCOMO for the question on adding “within a cell group”.The directional collision handling is performed per cell group and can be seen from the field description of *directionalCollisionHandling* in TS38.331 v16.5.0.

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| ***directionalCollisionHandling*** Indicates that this serving cell is using directional collision handling between a reference and other cell(s) for half-duplex operation in TDD CA with same SCS as specified in TS 38.213 [13], clause 11.1. The half-duplex operation only applies within the same frequency range and cell group. The network only configures this field for TDD serving cells that are using the same SCS.  |

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At the beginning of TS 38.213 Clause 11, there are following texts so that it is clear that the directional collision handling defined in the sub clauses are performed per cell group. However, there is no similar general description in TS 38.214 and that is why “within a cell group” is proposed in the CR.

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| 11 UE-group common signalling If the UE is configured with a SCG, the UE shall apply the procedures described in this clause for both MCG and SCG- When the procedures are applied for MCG, the terms 'secondary cell', 'secondary cells' , 'serving cell', 'serving cells' in this clause refer to secondary cell, secondary cells, serving cell, serving cells belonging to the MCG respectively.- When the procedures are applied for SCG, the terms 'secondary cell', 'secondary cells', 'serving cell', 'serving cells' in this clause refer to secondary cell, secondary cells (not including PSCell), serving cell, serving cells belonging to the SCG respectively. The term 'primary cell' in this clause refers to the PSCell of the SCG. |

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| HW/HiSi |  | Given the explanation from CATT, we are fine to add “within a cell group” |
| DOCOMO2 | Yes | Thanks CATT for the clarification. We are fine to add “within a cell group” |
| Samsung |  | We’d like to clarify the motivation of the change as to align with other specs in the cover page.  |
| Apple | Yes |  |
| Qualcomm2 |  | Thanks CATT for the clarification. We are fine with the CR. Agree with Samsung to clarify the motivation of change in the cover page.  |
| Ericsson | Yes | Thanks to CATT for the explanation. We are fine with the CR. |

# Conclusion

To be added after the discussion.