3GPP TSG-RAN WG1 Meeting #110bis-e R1-22xxxxx

e-Meeting, 10th – 19th October, 2022

Agenda Item: 8.2

Source: Moderator (Ericsson)

Title: FL Summary for AI 8.2 – Enhancements for PUCCH Formats 0/1/4

Document for: Discussion, Decision

# 1 Introduction

This document summarizes contributions under AI 8.2 related to Enhancements for PUCCH formats 0/1/4 in the Rel-17 work item "Extending current NR operation to 71 GHz."

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| **Issue#** | **Issue** | **References** | **FL initial assessment**  |
| 8.2.3-1  | RRC parameter name alignment | [1] | Handle in editor alignment CR |

# 2 RRC parameter name alignment for cell-specific PUCCH

A draft CR is provided in [1] to correct an RRC parameter misalignment between 38.213 and 38.331. The draft CR is copied into Appendix A of this summary for convenience. The rationale provided in [1] is as follows:

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| --- | --- |
| ***Reason for change:*** | The RAN1 specifies multi-PRB PUCCH for format 0/1/4, the RRC parameter *nrofPRBs* provided in *PUCCH-ConfigCommon* in TS 38.331 indicates the number of PRBs for common PUCCH, and the RRC parameter *pucch-ResourceCommon* indicates an index to a row of Table 9.2.1-1 in TS 38.213. However, in the current spec 38.213, the parameter *pucch-ResourceCommon* is used to indicate the PRB number of common PUCCH which is the incorrect. |
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| ***Summary of change:*** | Change the parameter used to indicate the number of PRBs of common PUCCH, from “*pucch-ResourceCommon*” to “*nrofPRBs* provided in *PUCCH-ConfigCommon*”. |
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| ***Consequences if not approved:*** | Incorrect parameter to indicate the number of PRBs of common PUCCH, UE cannot acquire the correct common PUCCH resource. |

It is the moderator's view that this correction should be handled in the editor alignment CR for 38.213.

# References

1. R1-2208596 Correction on the parameter indicating the number of PRBs for common PUCCH vivo

# Appendix A – Draft CR from [1]

\*\*\* Unchanged text omitted \*\*\*

9.2.1 PUCCH Resource Sets

If a UE does not have dedicated PUCCH resource configuration, provided by *PUCCH-ResourceSet* in *PUCCH-Config*, a PUCCH resource set is provided by *pucch-ResourceCommon* through an index to a row of Table 9.2.1-1 for transmission of HARQ-ACK information on PUCCH in an initial UL BWP of $N\_{BWP}^{size}$ PRBs. For operation in FR2-2, *nrofPRBs* provided in *PUCCH-ConfigCommon* can also provide a number of $N\_{RB}$ RBs for the PUCCH resource set; otherwise $N\_{RB}=1$.

\*\*\* Unchanged text omitted \*\*\*