**3GPP TSG RAN WG1 #103-e R1-200XXXX**

**e-Meeting, October 26th – November 13th, 2020**

**Agenda item:** 7.1

**Source:** Moderator (CATT)

**Title:** Summary of [103-e-NR-7.1CRs-06] Correction for UCI on Msg3 PUSCH and MsgA PUSCH (Rel-16)

**Document for:** Discussion and Decision

# Introduction

This document is created to facilitate the email discussion “[103-e-NR-7.1CRs-06] Correction for UCI on Msg3 PUSCH and MsgA PUSCH (Rel-16)”. This thread is triggered by draft CR to Rel-16 TS38.213 in R1-2007802 [1].

The issue was initially brought up in R1-2005661 in RAN1#102-e meeting. The conclusion was to further discuss for Rel-16 as follows.

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| [R1-2005661](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005661.zip) Correction for UCI on Msg3 PUSCH CATT  Rejected for Rel-15 but further consider for Rel-16 (in RAN1#103-e) |

# Company views

Please provide your views in the tables below:

**Q1: Do you agree with the issue raised in R1-2007802?**

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| --- | --- | --- |
| **Company** | **Yes/No** | **Comment (If No, why?)** |
| Ericsson | Partially agree. | We agree that for MSG3 this procedure shall be clarified. However, for MsgA the discussion shall be held in the 2-step RACH maintenance. |
| Samsung | Yes | Regarding MsgA issue, we tend to agree with concern from Ericsson. |
| ZTE | Yes | Common understanding is Msg3/MsgA PUSCH would not multiplex with UCI as such case is rare. |
| Spreadtrum | Yes | We agree with the issues raised in the CR. |
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**Q2: Do you agree with the text proposals in R1-2007802?**

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| --- | --- | --- |
| **Company** | **Yes/No** | **Comment (If No, why?)** |
| Ericsson | No | We would in general be fine with the TP if it is to be applied for only Msg3. Currently the TP aims to cover scenarios for both Msg3 and MsgA. |
| Samsung | No | Although we understand the motivation of the CR, this is not essential correction one because it is very rare that UE performs RA procedure in RRC connected mode and overlapping PUCCH with HARQ-ACK is given to the UE. We think that this probability is quite lower than DCI missing probability. So, we don’t expect that there is a meaning gain to achieve. |
| ZTE | No | Share the similar view with Samsung, I also hesitate that there is the case that UCI and Msg3/MsgA PUSCH would transmit simultaneously. |
| Spreadtrum | Yes | We are fine to make this clarify for UCI multiplexing, at lease it is needed for Msg3 to make the UE’s operation clearly. It is benefit for UE and gNB’s implementation. |
|  |  |  |

# Conclusion

To be added after the discussion.

# Reference

1. R1-2007802, Correction for UCI on Msg3 PUSCH and MsgA PUSCH, CATT, RAN1#103-e