**3GPP TSG RAN WG1 #114** **R1-230xxxx**

**Toulouse, France, August 21st – 25th, 2023**

**Agenda item:** 9.17

**Source:** Samsung

**Title:** Summary of email discussions [114-R18-38.213-NR\_redcap\_enh]

**Document for:** Discussion and decision

# Introduction

The purpose of this document is to collect inputs/comments on the draft CR for TS 38.213 [draftCR\_38213 eRedCap](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_114/Inbox/drafts/9.17%28Other%29/%5B38.213%20draft%20CRs%5D/NR_redcap_enh/R1-230xxxx%20draftCR_38213%20eRedCap.docx) on the introduction of support for enhanced reduced capability NR devices. If a comment on a particular aspect has been made by another company, please do not repeat it until, if needed, after a response.

The first checkpoint is on September 5, UTC 13:00.

# First Round Discussion

Please provide your comments on the draft CR for TS 38.213 [draftCR\_38213 eRedCap](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_114/Inbox/drafts/9.17%28Other%29/%5B38.213%20draft%20CRs%5D/NR_redcap_enh/R1-230xxxx%20draftCR_38213%20eRedCap.docx).

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| Company | Comments |
| MediaTek | As we commented last time, like FG 48-1 UE, FG 48-2 UE does not expect Msg3 PUSCH, Msg A PUSCH, and Msg4 with TC-RNTI to be larger than 25/12 PRBs for 15/30 kHz SCS. For Msg4 with TC-RNTI, it has been captured in the current CR draft. But for Msg3 and MsgA PUSCH, it is missing. Hence, we suggest add the following paragraph to Clause 17.1A. * A UE that indicates FG 48-2 does not expect to transmit a PUSCH over a bandwidth that is larger than 25 PRBs for 15 kHz SCS, or larger than 12 PRBs for 30 kHz SCS, per hop in a slot, where the PUSCH is scheduled by RAR UL grant or by a DCI scrambled by a TC-RNTI, or is configured for a Type-2 random access procedure.

The reasons behind the above proposal are listed below:1. At RAN#99, it was agreed that FG 48-2 UE should follow the same initial access procedure as FG 48-1 UE.
2. RAN1 and RAN2 have both agreed that FG 48-2 UE shares the same early indication in Msg1/Msg3/MsgA PUSCH.
	* 1. NW hence cannot distinguish FG 48-2 UE from FG 48-1 until it receives UE capability reporting.
		2. In other words, the scheduling restriction during a RACH procedure should apply to both UEs except for Msg4 with C-RNTI.
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| vivo | **Comment:** For the newly added description for handling the Broadcast MBS PDSCH, we think it is based on the following agreementsAgreement: * For UE BB bandwidth reduction, the number of PRBs scheduled in DCI can be larger than 25 PRBs for 15 kHz SCS and 12 PRBs for 30 kHz SCS for:
	+ Broadcast MBS PDSCH without any PDSCH in next slot
	+ Broadcast MBS PDSCH without MBS PDSCH repetition

Although no explicit agreements for the cases of “Broadcast MBS PDSCH with another PDSCH in next slot” and “Broadcast MBS PDSCH with MBS PDSCH repetition”, we are fine with the current description used by editor for handling above cases. But it should be applied for a UE that has not indicated FG48-2. Proposed Modification:“A UE that has not indicated FG 48-2 is not required to process a PDSCH reception in slot n that is scheduled by a DCI format with CRC scrambled by a G-RNTI for broadcast over a number of PRBs that is larger than 25 PRBs for 15 kHz SCS, or larger than 12 PRBs for 30 kHz SCS, when the PDSCH reception is with repetitions or when the UE receives another PDSCH in slot n+1.”  |
| FUTUREWEI | Thank you for the draft CR1. We have a similar understanding as Mediatek regarding the size of Msg3 PUSCH and PUSCH scheduled by TC-RNTI for a UE supporting FG 48-2. During initial access, the UE has not indicated it supports FG 48-2. This UE must use the PUSCH size limits as a UE supporting 48-1.
2. Regarding the titles for 17.1 and 17.1A, the intent is clear for the body of the clause but the title seems misleading. There can be two interpretation of the title: “ ‘Second RedCap UE’ procedures” as opposed to “Second ‘RedCap UE procedures’ ”. Maybe a small wording suggestion to indicate the latter reading, such as “Second procedures for RedCap UE”?
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