3GPP TSG-RAN WG1 Meeting #102-e R1-2005913

e-Meeting, 17th – 28th August, 2020

Agenda Item: 7.2.2.1.3

Source: Moderator (Ericsson)

Title: Feature lead summary for Maintenance of UL Signals and Channels

Document for: Discussion, Decision

# 1 Introduction

This document contains a high level summary of the contributions made under the “UL Signals and Channels” sub-agenda item for 7.2.2 Rel-16 Maintenance of NR-based Access to Unlicensed Spectrum. According to the Chairman’s guidance, only one email thread has been assigned to this agenda item.

The first phase of discussion until 8/14 will be used to select topic(s) for the single email thread.

# 2 Identified Issues

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| **Issue**  **#** | **Description** | **Tdoc**  **References** | **Classification** |
| 1 | Corrections for frequency domain resource allocation for PUSCH scheduled by RAR UL grant and DCI 0\_0 addressed to TC-RNTI when UL resource allocation Type 2 (Interlacing) is configured   * VRB-to-PRB mapping * UE assumptions on guard bands | R1-2005332, O1, P1  R1-2006554, P1, P2 | Essential |
| 2 | Clarifications on PRACH configuration for BWP with more than one RB-set | R1-2005808, O2  R1-2006371, O2  R1-2006019, P2  R1-2006094, P1 – P3  R1-2005599, P2 |  |
| 3 | Addition of UL Resource Allocation Type 2 to definition of special values in DCI 0\_1 for semi-persistent CSI deactivation | R1-2005332, P3 |  |
| 4 | Clarification of initial UL BWP for SUL | R1-2005808, O1  R1-2006371, O1  R1-2005599, P1 |  |
| 5 | Editorial corrections to 38.212, 38.213, 38.214 | R1-2006300, Section 2.2  R1-2006094, P6  R1-2005912, P2, P3 | Editorial |
| 6 | Whether or not clarification is needed to DCI size matching rules for DCI 0\_0 when UL Resource Allocation Type 2 (Interlacing) is configured | R1-2006300, P1,P2  R1-2006554, P3, P4  R1-2005912, P1 | Low |
| 7 | Whether or not UL resource allocation Type 2 (interlacing) for DCI Format 0\_2 | R1-2006554, P5  R1-2005599, P3 | Low |
| 8 | Bundling of aperiodic SRS/PUCCH/PUSCH in same slot | R1-2006019, P4 | Low |
| 9 | Clarifications on UCI multiplexing in PUSCH accounting for LBT outcome | R1-2005826, P1, P2  R1-2006094, P5 | Better suited to AI 7.2.2.2.1 |

Since there is only a single email thread allocated to UL, it is important to be quite selective in the issues that are treated to keep the scope manageable. The recommendation of the moderator is to consider at least Issues #1 which is deemed essential. Without corrections, it appears that PUSCH allocation would have some flaws.

FL Proposal

* Consider at least Issue #1
* Address some non-controversial editorial issues

Based on company views from the prior meeting, Issues #7, 8, 9 were considered low priority. Issue #10 was discussed without consensus, and in hindsight, it would have been more appropriate to be discussed within the AI 7.2.2.2.1 Channel Access.

FL Proposal

* Do not consider Issues #6 – 9.

Please share your views on the priority of the remainder of the issues (2 – 5) in the first table below. If you have additional comments, please provide them in the additional table.

* H: High priority
* L: Low priority
* N: Not needed/disagree that this is an issue

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| **Company** | **Issue #** | | | |
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Please provide additional comments (if any) in the following table:

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| **Company** | **View/Position** |
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# References

1. R1-2005332 Remaining issues on physical UL channel design in unlicensed spectrum vivo
2. R1-2005599 Remaining issues on the UL channels for NR-U ZTE, Sanechips
3. R1-2005808 Maintenance on UL signals and channels Huawei, HiSilicon
4. R1-2005826 Text proposals for UL signals and channels for NR-U Lenovo, Motorola Mobility
5. R1-2005912 UL signals and channels Ericsson
6. R1-2006019 Discussion on the remaining issues of UL signals and channels OPPO
7. R1-2006094 UL signals and channels for NR-U Samsung
8. R1-2006300 Remaining issues of UL signals and channels for NR-U LG Electronics
9. R1-2006371 Remaining Issues on UL Signals & Channels for NR-U Nokia, Nokia Shanghai Bell
10. R1-2006554 Remaining issues on UL signals/channels for NR-U Sharp