**3GPP TSG RAN WG1 #104-e R1-210nnnn**

**e-Meeting, January 25th – February 5th, 2021**

**Agenda item:** 7.1

**Source:** Moderator (CATT)

**Title:** Summary of [104-e-NR-7.1CRs-09] Correction on UE sounding procedure (round 2)

**Document for:** Discussion and Decision

# Introduction

The following proposal was endorsed during the discussion of draft CR on UE sounding procedure (c.f. [1]) in the first week of RAN1#104-e.

**Proposal:**

* Support collision handling between SRS and PUSCH with UCI per draft CR [R1-2100329].
* Further discuss the case of PUSCH without CSI next week.

**Agreement**

* The text proposal in R1-2100329 for TS 38.214 clause 6.2.1.3 is endorsed in R1-2101997 (TS38.214, Rel-16, CR#0159, Cat. F).

Per Mr. Chairman, RAN1 will further discuss the case of PUSCH without UCI in the second week of RAN1#104-e. This document is to collect company inputs on this issue.

# Company views

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| --- | --- |
| **Company** | **Comment** |
| CATT | In our opinion, this case related to the following two issues:**1. Whether PUSCH is prioritized**The two follow alternatives can be considered:Alt 1: No matter what the priority index of PUSCH is, PUSCH without UCI is dropped.Alt 2: If the priority index of PUSCH is 1, drop SRS; otherwise, drop PUSCH without UCI.**2. Whether all PUSCH repetitions are dropped when PUSCH without UCI and with repetition should be dropped**The two follow alternatives can be considered:Alt 1: All PUSCH repetitions are dropped.Alt 2: For PUSCH repetition Type A, only the PUSCH repetition(s) in the slot(s) that have overlapped symbols are dropped; for PUSCH repetition Type B, only the actual repetition(s) that have overlapped symbols are dropped.For the first issue, alt 2 is slightly preferred. If alt 2 is adopted, the solution can be extended to the cases that SRS is overlapped with PUSCH with UCI, i.e. SRS is dropped if the priority index of PUSCH with UCI is 1. Alt 1 is also acceptable.For the second issue, since even if some PUSCH repetitions are dropped, PUSCH might be correctly received by the residual repetition(s), alt 2 may have better performance. Both alternatives are acceptable. |
| Qualcomm | We prefer to keep the same priority rule of “PUSCH without UCI < SRS for CS” as it was the case in LTE (pasted the “otherwise” statement of LTE spec as a snapshot in this reply)In the reply from CATT, in the first issue Alt. 1. In the second issue, our understanding is that only the PUSCH repetition/transmission that are overlapping are dropped; we don’t think that there needs to be a spec change for this, since this is considered the common understanding. There are many cases in the specification that PUSCH dropping vs another channel/signal is not clarified separately for typeA/typeB repetition and a generic term: “PUSCH is dropped”, or “PUSCH not transmitted” is enough to cover the intended behavior.  |

# Conclusion

**To be determined**

# Reference

1. R1-2100329 Correction on UE sounding procedure CATT