**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

**Document for:** Discussion and Decision

# Introduction

This document is to capture company views on email discussion of “[104-e-NR-7.1CRs-09] Correction on UE sounding procedure”. This email thread is triggered by draft CR in [1].

# Company views

|  |  |  |
| --- | --- | --- |
| **Company** | **Agree or not** | **Comment** |
| Qualcomm | Support |  |
| ZTE | OK |  |
| OPPO | Ok |  |
| vivo | support |  |
| Ericsson | Partially support | **OK with dropping semi-persistent CSI, but need to further discuss why PUSCH without UCI should be dropped.**  Dropping PUSCH carrying only semi-persistent CSI makes sense given that periodic CSI is already dropped. However, why is PUSCH that does not carry UCI dropped? |
| Samsung | No | We have concerns on NBC. In current specification for Rel-15, SRS overlapping cases with semi-persistent CSI or PUSCH without UCI are missing. Hence, if we discuss and adopt this CR, a new behavior has made, and that can be a NBC. This is too late stage to adopt a new behavior for Rel-15. |
| Huawei | OK |  |
| CATT | Support | @Ericsson: The reason to drop PUSCH without CSI is for simplicity by following the same behavior as PUSCH with CSI. NW can reschedule the dropped PUSCH without CSI if needed. Alternatively we are also OK to resolve PUSCH with semi-persistent CSI now, and leave PUSCH without UCI for further discussion.  @Samsung: In the current Rel.15 spec, UE behavior is unspecified and some UE may drop SRS while other may drop PUSCH. Neither SRS/PUSCH reception is guaranteed and it is likely that SRS/PUSCH will have to rescheduled. With the proposed CR, SRS/PUSCH assumption is aligned when both NW/UE implement the CR. If either NW/UE implements the CR, the behavior is similar to the current specification, so system can only improve, not be worse. |
| FUTUREWEI | Support |  |
| Nokia | Partially OK | The dropping of the CSI is now conditioned to the CSI comprising only CQI/PMI/L1-RSRP, implying that PUSCH carrying some other content should not be dropped. The CR seems to be a functional change.  The SP-CSI dropping is OK. |
| Ericsson2 | Partially support (for Rel-16) | To clarify our view: We agree with Samsung that this change the proposed changes are pretty late for Rel-15. So we are OK with dropping semi-persistent CSI for Rel-16, but need to further discuss why PUSCH without UCI should be dropped.  To elaborate on our concern for dropping PUSCH: does this affect the PUSCH aggregation/repetition procedures in Rel-15 and Rel-16? Also, how is Rel-16 PUSCH priority going to be handled? |
| CATT | Support | @Ericsson/Nokia: We are OK with resolving PUSCH with UCI first. PUSCH without CSI can be discussed separately.  @Ericsson: For PUSCH with repetition: Our understanding is that this dropping at least can be applied to PUSCH without aggregation/repetition. For PUSCH with aggregation/dropping, it could be a separate discussion, e.g. whether to drop PUSCH, whether dropping is for a single or the entire set of repetition.  @Samsung: We are fine with changing it to Rel.16 CR (along with scope reduction above). Please indicate if this is acceptable. |

# Conclusion

Draft conclusion from the email discussion

# Reference

1. [R1-2100329](C:\\Users\\wanshic\\OneDrive - Qualcomm\\Documents\\Standards\\3GPP Standards\\Meeting Documents\\TSGR1_104\\Docs\\R1-2100329.zip) Correction on UE sounding procedure CATT