**3GPP TSG RAN WG1 #106bis-e R1-211xxxx**

**e-Meeting, October 11th – 19th, 2021**

**Agenda item:** 8.8

**Source:** Moderator (Qualcomm)

**Title:** FL summary of discussion on incoming LS [R1-2108703](file:///C%3A%5CUsers%5Cyouns%5COneDrive%5CDocuments%5C3GPP%5CRAN1%20tdocs%5CTSGR1_106b-e%5CDocs%5CR1-2108703.zip) on PUCCH and PUSCH repetitions

**Document for:** Discussion/Decision

# Discussion

In R1-2108703(R4-2114991) “Reply LS on PUCCH and PUSCH transmissions”, RAN 4 asked the following question to RAN1:

* **What are the consequences if phase continuity cannot be maintained in the case of UL transmissions from other signals/channels in the repetition gap?**

Companies are welcome to provide answers in the table below.

|  |  |
| --- | --- |
| **Company name** | **Answer to RAN4 question** |
| Ericsson | To motivate our answer we’d first offer some observations:* PUCCH is likely to be transmitted at different power and in fewer PRBs than PUSCH, and is more likely to be frequency hopped that PUSCH
* SRS is used for CSI, and so tends to be transmitted in wider bandwidths and/or frequency hopped
* Many SRS configurations involve switching among antenna ports or beams different from PUSCH

Then we propose to answer RAN4’s question with:**Proposal:*** The consequences of not maintaining phase continuity for the case where UE transmits other signals/channels are not likely to be serious, since the constraints to meet phase continuity preclude the common use of this case for JCE.
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| CATT | In this case:* The UE is not required to maintain power consistency and phase continuity between the interrupted PUSCH/PUCCH.
* RAN1 may treat such interruption as an event, where an actual time domain window (TDW) in which the UE performs DMRS bundling shall be terminated. A new actual TDW may resume in the remaining PUSCH/PUCCH, depending on the UE capability. RAN1 is still discussing the details.
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# Conclusion

TBD