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

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

**Title:** Reply LS on PUCCH and PUSCH repetition

**Response to:** [R4-2114991](http://www.3gpp.org/ftp/tsg_ran/wg4_radio/TSGR4_98_e/Docs/R4-2103393.zip), Reply LS on PUCCH and PUSCH transmissions

**Release:** Rel-17

**Work Item:** NR\_cov\_enh

**Source:** RAN1

**To:** RAN4

**Cc:**

**Attachments:**

**Contact Person:**

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**1. Overall Description:**

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?**

The following is the answer from RAN 1 to RAN 4, regarding the above question,

* **If phase continuity cannot be maintained in the case of UL transmissions of other signals/channels in the repetition gap, then DM-RS symbols transmitted before and after the transmission of such other signals/channels cannot be part of the same bundle from UE perspective. A new DMRS bundle may or may not start after the other UL signals/channel transmission in the repetition gap. Details are still under discussion in RAN1.**

**2. Actions:**

RAN1 respectfully asks RAN4 to take the above information into account in their work on NR coverage enhancement.

**3. Date of Next RAN1 Meetings:**

TSG-RAN WG1 Meeting #107-e 11 – 19 Nov 2021 Electronic

TSG-RAN WG1 Meeting #107bis-e 17 – 25 Jan 2022 Electronic