**3GPP TSG RAN WG1 #105-e R1-21xxxxx**

**e-Meeting, May 10th – 27th, 2021**

**Title: LS on UL skipping for PUSCH in Rel-16**

**Release: Rel-16**

**Work Item: NR\_newRAT-Core, TEI16**

**Source:** RAN1

**To:** RAN2

**Cc:**

**Attachments:**

**Contact Person:**

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**1. Overall Description:**

In RAN1 #105-e meeting, RAN1 discussed the behavior of UL skipping with UCI in case of PUSCH repetitions in Rel-16. RAN1 made the following agreement.

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| --- |
| **Possible agreement on option 2 for DG:**When Rel-16 DG PUSCH ~~UL~~ skipping and PUSCH repetitions are configured, Rel-16 LCH based prioritization is not configured and there is a single PHY priority for UL transmissions* When there’s UCI from PUCCH to be multiplexed on ~~overlapping with~~ the first PUSCH repetition of the DG PUSCH, MAC generates MAC PDU for DG PUSCH and delivers the MAC PDU(s) to PHY and the UCI is multiplexed on the DG PUSCH.
* UE does not expect a UCI to be multiplexed on  ~~is overlapping with~~ the repetitions other than the first PUSCH repetition, if there is no UCI from PUCCH multiplexed on ~~overlapping with~~ the first PUSCH repetition.

**Possible Agreement on Option 2 for CG**When Rel-16 CG PUSCH  skipping and PUSCH repetitions are configured, Rel-16 LCH based prioritization is not configured and there is a single PHY priority for UL transmissions* When there’s UCI from PUCCH to be multiplexed on the first PUSCH repetition of the CG PUSCH, MAC generates MAC PDU for CG PUSCH and delivers the MAC PDU(s) to PHY and the UCI is multiplexed on the CG PUSCH.
* UE does not expect a UCI to be multiplexed on the repetitions other than the first PUSCH repetition, if there is no UCI from PUCCH multiplexed on the first PUSCH repetition.
* the first PUSCH repetition is defined as any of the transmission occasions of the (actual) repetitions that are associated with RV=0 for initial transmission.
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**2. Actions:**

RAN1 respectfully asks RAN2 to

* Take into account the above agreements and update Rel-16 RAN2 specifications (if needed) to support Rel-16 PUSCH skipping

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

TSG-RAN WG1 Meeting #106-e 16 – 27 Aug 2021 Electronic Meeting

TSG-RAN WG1 Meeting #106-bis-e 11 – 19 Oct 2021 Electronic Meeting