3GPP TSG RAN WG1 #103-e R1-20xxxxx

**e-Meeting, October 26th – November 13th, 2020**

**Title: LS on PUSCH skipping with UCI in Rel-16**

**Release: Rel-16**

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

**Source:** RAN1

**To:** RAN2

**Cc:**

**Attachments:**  R1-200xxxx

**Contact Person:**

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**1. Overall Description:**

In RAN1 #103-e meeting, RAN1 discussed the CR for UL skipping of dynamic UL grant and the PUSCH skipping with UCI for configured grant in Rel-16. On the UL skipping of dynamic UL grant, RAN1 agreed a new CR (R1-200xxxx) with correct spec version, which is a revision of the CR (R1-2007337) endorsed in RAN1 #102-e meeting. RAN1 expects RAN2 to endorse the corresponding RAN2 CR so that both the RAN1 and RAN2 CRs can be submitted to RAN plenary together for final approval.

On the PUSCH skipping with UCI for configured grant in Rel-16, following agreement in RAN1 #103-e meeting is made:

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| **Agreement**In Rel.16, when there is only a single PHY priority for UL transmission, in case of one or more CG PUSCHs overlapping with UCI, the CG PUSCH with UCI multiplexing from the one or more CG PUSCHs cannot be skipped. MAC generates MAC PDU for the CG PUSCH and the UCI is multiplexed on the CG PUSCH. |

In addition, RAN1 noticed that in legacy Rel-15 and Rel.16, for configured grant, skipping UL configured grant if no data to transmit is conditionally mandatory feature. It is RAN1’s understanding that the agreement in RAN1 will change the UE behavior for CG PUSCH. RAN1 considers it may be necessary to introduce a new UE capability signalling to differentiate the new UE behaviour and the legacy UE behavior, and to introduce a new RRC parameter to differentiate the Rel-15 and Re-16 gNB configuration. However, the final decision on the signaling/parameter design for Rel-16 CG PUSCH skipping should be decided by RAN2.

**2. Actions:**

RAN1 respectfully asks RAN2 to

* Take into account the above agreements and update Rel-16 TS 38.321 to support Rel-16 PUSCH skipping
* Resolve the capabability signaling issue for Rel-16 CG PUSCH skipping

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

TSG-RAN WG1 Meeting #104-e 25th January – 5th February 2021 E-meeting.