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:**

**Name:** Xiaohang Chen

**E-mail Address:** chenxiaohang@vivo.com

**1. Overall Description:**

In RAN1 #103-e meeting, RAN1 discussed the PUSCH skipping with UCI for dynamic grant and configured grant. On the case of dynamic 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 agree 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:

|  |
| --- |
| **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. |

It should be noted that the agreement for dynamic UL skipping in LS R1-2007338 and the above agreement for configured grant in RAN1 #103-e meeting are applicable when there is only a single PHY priority for the UL transmissions.

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 new UE capability/signalling to differentiate the new UE behaviour and the legacy UE behavior. However, the final decision on the capability/signalling 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.

TSG-RAN WG1 Meeting #104bis-e 12th April – 20th April 2021 E-meeting.