**3GPP TSG-RAN WG1 Meeting #110bis-e R1-220xxxx**

**e-Meeting, October 10 – 19, 2022**

**Title:** [Draft] LS on a Rel-17 RRC parameter intraBandNC-PRACH-simulTx-r17

**Release:** Rel-17

**Work Item:** TEI17, NR\_newRAT

**Source:** Huawei [RAN WG1]

**To:** RAN WG2

**CC :**

**Contact Person:**

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**1. Overall Description:**

In RAN1#109-e, RAN1 made the following agreement

**Agreement**

Introduce feature groups X-1 and X-2 as described below.

* Introduce a new Rel-17 RRC parameter (UE-specific) to enable the UE behavior under X-2.

NOTE: For parallel SRS + PUSCH/PUCCH (X-1), it is RAN1’s understanding that:

* The gNBs who do not support parallel Tx (i.e. who do not understand the new capability) will not indicate/configure/schedule simultaneous transmission, and therefore there are no backward compatibility issues.
* Rel-17 UE who reported capability of parallel Tx conducts parallel Tx if the gNB indicates/configures/schedules simultaneous transmission.  Therefore
  + gNBs who do not support Rel-17 parallel Tx do not indicate/configure/schedule simultaneous transmission.
  + gNBs who support Rel-17 parallel Tx can indicate/configure/schedule simultaneous transmission accordingly.

Based on above, it was agreed to introduce two new Rel-17 UE capabilities (X-1 and X-2) together with a new Rel-17 RRC parameter to enable the UE behavior under X-2. RAN1 sent an LS in R1-2205609 with updated RAN1 UE features list for Rel-17 NR in R1-2205607. X-1 and X-2 are also included as FG39-1 and FG39-2.

RAN1 notices that FG39-1 and FG39-2 have been captured in TS 38.331 v17.2.0 while the Rel-17 RRC parameter to enable the UE behavior under FG39-2 was not captured. RAN1 would like to inform RAN2 that the Rel-17 RRC parameter was referred to as *intraBandNC-PRACH-simulTx-r17* in R1-2205607 and captured in TS 38.214 v17.3.0. RAN1 respectively asks RAN2 to capture the Rel-17 RRC parameter into TS 38.331.

**2. Actions:**

**To RAN2**

**ACTION:** RAN1 respectfully asks RAN2 to take the above information into account in their future work.

**3. Date of Next TSG-RAN WG1 Meetings:**

TSG-RAN WG1#111 14 November – 18 November 2022 Toulouse, France

TSG-RAN WG1#112 27 February – 3 November 2023 Athens, Greece