**Title: [DRAFT]** LS onRAN2 signalling on power boosting for switched UL

**Response to:**

**Work Item:** NR\_RF\_FR1-Core

Release: Rel-16

**Source:** ZTE [3GPP TSG RAN]

**To:** 3GPP RAN2

**Cc:** 3GPP RAN4

**Contact Person:**

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**Attachments:**

**1. Overall Description:**

TSG RAN has discussed and agreed on a power boosting for switched UL for UL CA scenario in RAN#88-e. It is agreed to add the indication of 3dB power boosting for carrier 2 with 2Tx for transmission in Case 2.

It has been agreed to introduce UE capability signaling *uplinkTxSwitchingPowerBoosting* to indicat its support of the power boosting for CA case, and an IE *powerboostingTxSwitching* to indicate whether such power boosting for CA case is allowed. The power boosting for carrier 2 with 2Tx is only applied to PC3 CA, i.e., not applied to PC2 CA (the same per BC power class, i.e. PC3 in this case is applied regardless of transmission in Case 1 or Case 2). The UE capability signaling is defined per band combination.

It has been also agreed that there is no spec change for RAN2 RRC procedures and MAC procedures due to this power boosting scheme.

**2. Actions:**

**To 3GPP RAN2:**

**ACTION:** 3GPP TSGRAN respectfully ask RAN2 to consider the above in the signalling design.

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

3GPP TSG RAN #89e 14-17 September 2020 Online

3GPP TSG RAN #90e 07-11 December 2020 Online