**3GPP TSG RAN WG2 Meeting #119 R2-220xxxx**

**e-Meeting, 17-26 August 2022**

**Title: [DRAFT]** LS on switching option capability for UL 2Tx-2Tx switching

**Response to:** -

**Release:** Release 17

**Work Items:** NR\_RF\_FR1\_enh

**Source:** Qualcomm Incorporated **[To be RAN2]**

**To:** RAN WG1, RAN WG4

**CC:** RAN

**Contact Person:**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

**Attachments:** **R2-220xxxx (CR to 38.306)**

**R2-220xxxx (CR to 38.331),**

1 Overall description

RAN2 has discussed UE capability signalling for UL 2Tx-2Tx switching option, as tasked by RAN plenary #96 as follows.

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| conclusion: RAN tasks RAN2 to complete the relevant signaling for Rel-17 UL switching, including adding missing signaling elements, if found necessary. All relevant existing RAN WG agreements shall not be reverted. |

RAN2 agreed to introduce a new UE capability parameter for UL 2Tx-2Tx switching option. The agreed CRs are attached to this LS.

The agreed UE capability definition is reproduced below. Note that RAN2 agreed that the UE must support at least one common switching option (Option 1:Switched UL or Option 2:Dual UL) between 1Tx-2Tx switching and 2Tx-2Tx switching, which is reflected in the last sentence.

***uplinkTxSwitching-OptionSupport2T2T-r17***

Indicates which option is supported for dynamic UL 2Tx-2Tx switching for inter-band UL CA. *switchedUL* represents option 1 as specified in TS 38.214 [12], *dualUL* represents option 2 as specified in TS 38.214 [12], *both* represents both option 1 and option2 as specified in TS 38.214 [12]. The field is mandatory for inter-band UL CA cases where UE supports dynamic UL 2Tx-2Tx switching. The UE indicating support of this feature shall indicate at least one common switching option between *uplinkTxSwitching-OptionSupport2T2T-r17* and *uplinkTxSwitching-OptionSupport-r16*.

2 Actions

**To RAN1 and RAN4**

**ACTION:** RAN2 would like to ask RAN1 and RAN4 to take into account the information provided in this LS.

3 Dates of next TSG RAN WG2 meetings

TSG-RAN WG1 Meeting #120-e 16st – 27rd May 2022 E-meeting

TSG-RAN WG1 Meeting #120-e 16st – 27rd May 2022 TBD