3GPP TSG-RAN WG4 Meeting #116 R4-250XXXX

**Bengaluru, India, 25th – 29th August, 2025**

**Title: [draft] LS on capability of NR\_LBCA\_Sw**

**Response to: NONE**

**Release: R19**

**Work Item: NR\_LBCA\_Sw**

**Source: RAN4**

**To: RAN2**

**Cc:**

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

**Attachments: Nil**

# 1 Overall description

RAN4 has discussed the impact of the low NR band carrier aggregation via switching feature on *BandCombinationList* and would like to share the following information for RAN2 consideration:

* There are CA band combinations (BCs) in TS38.101-1, but there are no legacy UEs supporting those in the market, e.g., CA\_n5-n29 and CA\_n29-n71.
* There are, however, low band CA switching to CA BCs whose traditional CA are already in the market And there are UEs supporting only low band CA switching, only traditional CA BCs, or both low band CA switching and traditional CA BCs for the said CA BCs.
* Further, when a UE supports both low band CA switching and traditional CA, at least followings can be different.
	+ The UE can have different maximum MIMO layers per CC depending on low band CA switching or traditional CA
* When specifying the UE requirements, RAN4 has assumed that the network supporting any release of the NR specification should be able to distinguish these UEs

# 2 Actions

**To RAN2**

**ACTION:** RAN4 respectfully asks RAN2 to consider the above RAN4 considerations in its work.

# 3 Dates of next TSG RAN WG4 meetings

RAN4#116-bis Oct 13 – 17, 2025 Prague, CZ

RAN4#117 Nov. 17 – 21, 2025 Dallas, US