**3GPP TSG-RAN WG4 Meeting #116bis R4-2513606**

**Prague, Czech Republic, October 13 – 17, 2025**

**Title:** LS of RAN4 RRM agreement update on switching pattern application

**Response to:**

**Release:** Rel-19

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

**Source:** RAN4

**To:** RAN1

Cc:

**Contact person:** Jie Cui, jie\_cui@apple.com

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

**Attachments:** None

# 1 Overall description

RAN4 has further discussed the applicability of switching pattern for SDL SCell for RRM requirements and would like to share the following update to RAN1.

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| --- |
| * Revise the previous agreement in **R4-2504895** issue 1-1-3 (RAN4 #114bis) for the SCell which is in activation procedure:
	+ For the SCell which is in activation procedure,
		- The RRC configured switching pattern for SDL SCell is applied.
		- For MAC CE based SCell activation, UE shall apply the RRC configured switching pattern at slot n+(THARQ+3ms+TLBCA)/slot-length
		- For RRC based direct SCell activation, UE shall apply the RRC configured switching pattern at slot n+(TRRC\_Process + TLBCA)/slot-length
			* Option 1: TLBCA =0ms
			* Option 2: TLBCA =1ms
			* Option 3: TLBCA =4ms
	+ In maintenance stage, RAN4 to FFS how UE performs switching according to the following two options.
		- For MAC CE based SCell activation, according to the switching pattern,
			* Option 1: UE switching to SCell immediately after n+(THARQ+3ms+ TLBCA)/slot-length.
			* Option 2: UE switching to SCell at the next switching period after n+(THARQ+3ms+ TLBCA)/slot-length.
			* Other options are not precluded.
		- For RRC based direct SCell activation, according to the switching pattern,
			* Option 1: UE switching to SCell immediately after n+(TRRC\_Process + TLBCA)/slot-length.
			* Option 2: UE switching to SCell at the next switching period after n+(TRRC\_Process + TLBCA)/slot-length.
			* Other options are not precluded.

Note: if the timeline for application and for switching has ambiguity, RAN4 may revise the above application timeline. |

# 2 Actions

**To RAN1:**

**ACTION:** RAN4 respectfully asks RAN1 to take the above into account in their future work.

# 3 Dates of next TSG-RAN WG4 meetings

TSG-RAN WG4 Meeting #117 17th – 21st Nov 2025 Dallas, USA

TSG-RAN WG4 Meeting #118 09th – 13th Feb 2026 Gothenburg, Sweden