

Critical Path Analysis Report

Program Macro Schedule v1.0 — Target: Project — August 19, 2026

Target Date	Predicted Date	Gap	3-Week Trend	This Week
Sep 30, 2027	Sep 28, 2028	-364 days	PULLED IN 34d	Slipped 4d

Executive summary

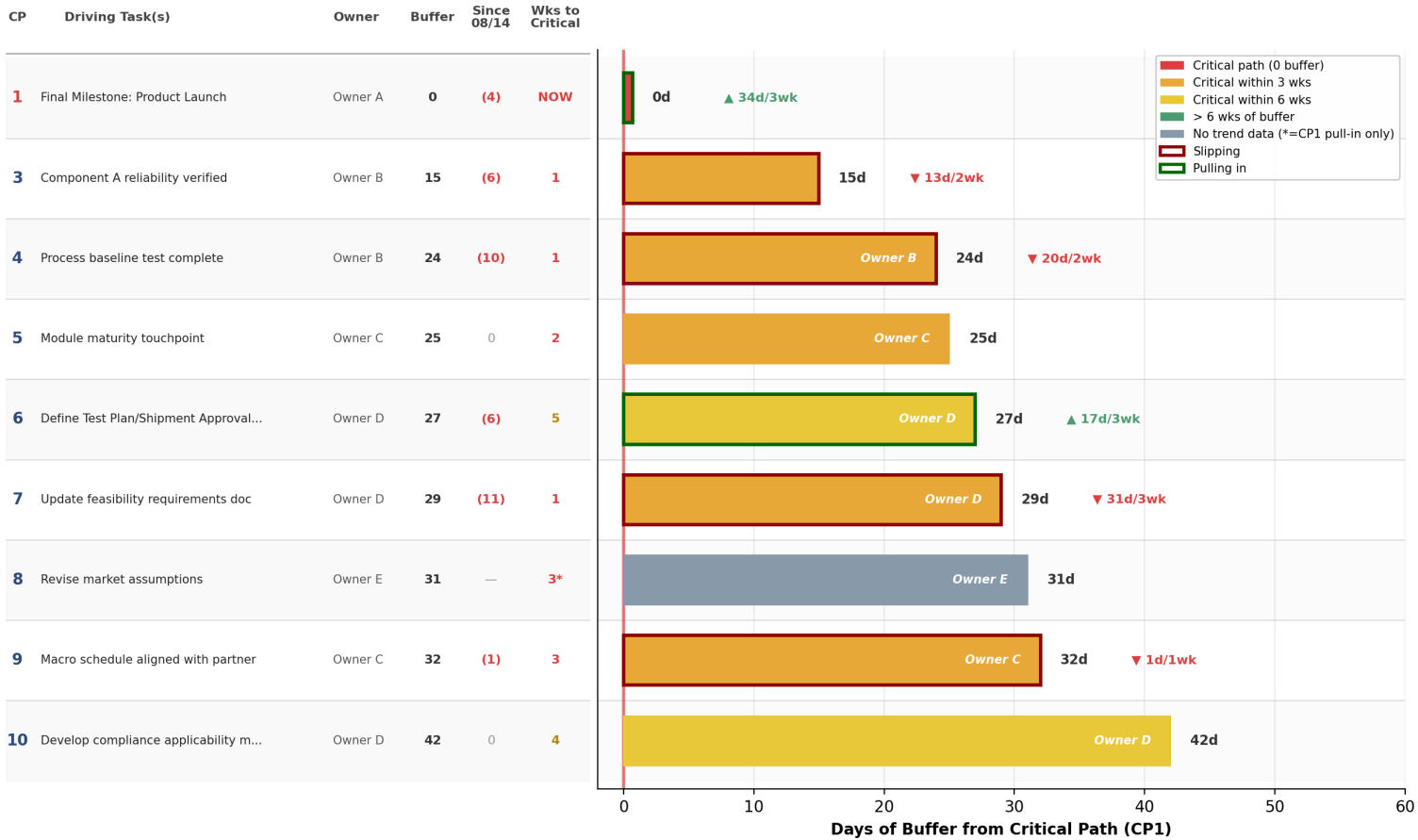
Real progress on CP1: the critical path (Final Milestone: Product Launch, now owned by **Owner A**) pulled in **34 days over the last 3 weeks** — the gap improved from -399 to **-364 days**. The predicted finish moved from Nov 2 to Sep 28, 2028. This is the first sustained recovery on this program.

But the recovery is about to be capped. Buffers now close from **both sides**: CP1 pulling in ~11 d/wk *and* near-critical paths slipping. CP3 (Component A, Owner B) slips 13d/2wk with only 15d of buffer — **it becomes the new critical path in under 1 week**. CP4 (process baseline, Owner B, 20d/2wk slip) and CP7 (feasibility doc, Owner D, 31d/3wk slip) follow within ~1-2 weeks. Unless these slips stop now, every additional day pulled in on CP1 is a day that no longer shortens the project — CP3/CP4/CP7 become the constraint.

Critical Path Analysis: Project — Buffer Erosion View

Target: Sep 30, 2027 | Predicted: Sep 28, 2028 | Gap: -364d | Buffers close from BOTH sides: CP1 pulling in 11 d/wk + near-CP slips

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Program Macro Schedule v1.0

Generated: August 19, 2026

Buffer erosion analysis

Buffers close at (own slip rate + CP1 pull-in rate). CP1 is currently pulling in ~11.3 d/wk, so even a *stable* near-CP loses 11 days of buffer per week. Paths sorted by weeks-to-critical. (* = no trend data; closure from CP1 pull-in alone.)

CP	Task	Owner	Buffer	Own Slip	Closure Rate	Wks to Critical	Status
3	Component A reliability verified	Owner B	15d	+6.5 d/wk	17.8 d/wk	0.8 wks	CRITICAL <2 WKS
4	Process baseline test complete	Owner B	24d	+10.0 d/wk	21.3 d/wk	1.1 wks	CRITICAL <2 WKS
7	Update feasibility requirements doc	Owner D	29d	+10.3 d/wk	21.7 d/wk	1.3 wks	CRITICAL <2 WKS
5	Module maturity touchpoint	Owner C	25d	+0.0 d/wk	11.3 d/wk	2.2 wks	CRITICAL <3 WKS
9	Macro schedule aligned with partner	Owner C	32d	+1.0 d/wk	12.3 d/wk	2.6 wks	CRITICAL <3 WKS
8	Revise market assumptions	Owner E	31d	no data	11.3 d/wk	2.7 wks*	CRITICAL <3 WKS
10	Develop compliance applicability matrix	Owner D	42d	+0.0 d/wk	11.3 d/wk	3.7 wks	CRITICAL <6 WKS
6	Define Test Plan/Shipment Approval Checklist	Owner D	27d	-5.7 d/wk	5.7 d/wk	4.8 wks	CRITICAL <6 WKS

Reading this table: This is what successful CP1 recovery looks like — and why it's fragile. The 34-day pull-in compressed everyone's buffer. CP3 and CP4 (both Owner B) are also slipping outright, so they hit critical in ~1 week. The overdue supplier-artifact actions (due 8/11, owner Owner C) block both of Owner B's paths. **Delivering those two artifacts this week is the single highest-leverage action on the program** — it protects the entire 34-day gain.

CP-by-CP summary

CP	Buffer	Task / Owner	Since 08/14	Trend	Assessment
1	0d	Final Milestone: Product Launch Owner A	(4)	▲ 34d/3wk	THE critical path. Pulled in 34d/3wk under new owner Owner A — but slipped 4d this week. Pull-in investigation action open.
3	15d	Component A reliability verified Owner B	(6)	▼ 13d/2wk	Becomes critical in <1 wk. Slipping 6.5 d/wk. Blocked on overdue supplier artifacts (8/11). TOP PRIORITY.
4	24d	Process baseline test complete Owner B	(10)	▼ 20d/2wk	Becomes critical in ~1 wk. Slipping 10 d/wk — fastest slip on the program. Blocked on same overdue artifacts.
5	25d	Module maturity touchpoint Owner C	0	0	Touchpoint. Stable itself, but CP1 pull-in alone consumes its 25d buffer in ~2 wks.
6	27d	Define Test Plan/Shipment Approval Checklist Owner D	(6)	▲ 17d/3wk	Pulled in 17d/3wk — second-best trend on the program. Still closed 6d this week from CP1 side.
7	29d	Update feasibility requirements doc Owner D	(11)	▼ 31d/3wk	Slipping 10.3 d/wk. Critical in ~1.4 wks. Needs an owner-level intervention this week.
8	31d	Revise market assumptions Owner E	—	—	No trend data. Untracked — blind spot at 31d buffer.
9	32d	Macro schedule aligned with partner Owner C	(1)	▼ 1d/1wk	Nearly stable (1d/wk slip). Critical in ~2.6 wks from CP1 pull-in.
10	42d	Develop compliance applicability matrix Owner D	0	0	Stable and in progress — the only task not marked Not-started. Critical in ~3.7 wks from CP1 side.

Cross-CP risk themes

Theme	Evidence	Implication
Recovery capped by near-CPs	CP1 pulled in 34d but CP3/CP4/CP7 slip 6-10 d/wk	Further CP1 gains stop mattering within ~1 wk unless slips stop. Defend the gain.
Owner B paths blocked	CP3+CP4 both slipping, both blocked on overdue pipe artifacts (8/11)	Two paths, one blocker. Deliver supplier artifacts = highest-leverage action.
Ownership rebalanced	CP1 moved to Owner A; work now spread across 5 owners (was 8/11 on one)	Prior single-point-of-failure concern addressed. Sustain it.
Mixed weekly signal	CP1 +34d/3wk trend but slipped 4d this week	Watch next refresh: is the pull-in stalling?
Untracked path	CP8 (market model, Owner E) has no trend data at 31d buffer	Start weekly tracking before it surprises.
Execution inertia persists	8 of 9 driving tasks still Not started	Slips still come from work not beginning.

Prioritized worry list

#	Concern	CPs	Urgency	Impact
1	CP3 critical in <1 wk; CP4 in ~1 wk — both blocked on overdue artifacts	3, 4	IMMEDIATE	Caps 34d recovery
2	CP7 slipping 31d/3wk — critical in ~1.4 wks	7	IMMEDIATE	New critical path
3	CP1 slipped 4d this week despite 3-wk pull-in trend	1	THIS WEEK	Recovery stall
4	CP8 untracked at 31d buffer	8	THIS WEEK	Blind spot
5	8 of 9 tasks still Not started	All	SYSTEMIC	Execution
6	Gap still -364d — replan question remains open	All	THIS MONTH	Program viability

Recommended actions

#	Action	Owner (suggested)	When
1	Deliver overdue supplier condition artifacts — unblocks CP3 and CP4 (due 8/11, now late)	Owner C	Today
2	Stop the CP7 slide (feasibility doc, 31d/3wk): daily check-in until slip rate is 0	Owner D	This week
3	Investigate CP1 long-lead parts pull-in (open action) — keep the recovery going	Owner C / Owner A	This month
4	Begin weekly tracking on CP8 (market assumptions)	Owner E	This week
5	Diagnose CP1's 4d slip this week — confirm the pull-in trend is not stalling	Owner A	Next refresh
6	Start the 8 Not-started driving tasks — minimum scoping to surface dependencies	Task owners	2 weeks
7	Weekly buffer-erosion review with this Weeks-to-Critical table — defend the 34-day gain	Schedule owner	Every week

Report generated from lateralworks fastProject CP Analysis export. Source: *Program Macro Schedule v1.0*. Analysis date: August 19, 2026. Prior refresh: -399d gap. This refresh: -364d. The 34-day gain survives only if CP3, CP4, and CP7 slips are stopped this week.