

Is your critical path real, and does it reach the startup you promised?

The execution schedule is the one artifact the whole event rides on. STO·SAR works it in full with a calendar-aware CPM engine and hands your team a prioritized correction plan before baseline lock, while the logic can still be fixed.

- Deep analysis in. A short, prioritized plan out.

— THE PROBLEM

Most schedules get approved because they look complete.

A schedule with broken logic is a paper map in a nice frame: it shows the route but cannot tell you the bridge ahead is out. Most execution schedules are baselined without anyone stress-testing the logic underneath, and the failures that move a restart date hide there in plain sight.

PATH THAT MISSES THE FINISH

The critical path dead-ends in demob, not the promised startup

HIDDEN DRIVER

Leveling reshapes the dates and no one can say what governs

ASSUMED CONTINGENCY

Reserve everyone counts on that the schedule never carried

— A CPM ENGINE, NOT A CHECKLIST

01 · LEVELING

What really drives the date

Leveling state determined forensically, then how much of the duration is logic versus resource limits.

02 · LONGEST PATH

Reach to the startup

The driving chain traced back from the business startup milestone, and how far it reaches through real work.

03 · CONTINGENCY

Reserve, measured

Planned duration separated from the real reserve to the date you committed to.



We trace the driving chain backward from the **startup milestone you committed to**, not the network's latest bar. Illustrative: the path reaches the promised startup and spans 96% of the execution window. When it dead-ends in demob or level-of-effort instead, the critical path is not real, and we flag it.

Where the duration comes from

Logic 41 d

Illustrative

Leveling +11 d

Reserve to the committed date

Planned 29 d

Illustrative

Reserve 6 d

— WHAT YOU GET

IN
Your P6 schedule



ENGINE
CPM + 25 checks



OUT
Correction plan + workbook

A prioritized correction plan, each finding mapped to its fix, plus the line-by-line repair workbook, handed over before baseline lock. Runs standalone or as the schedule engine inside a STOAR3 gate review. At closeout, STO·SPR traces the defects flagged here to the days they cost.

ASSURANCE SCORE

ILLUSTRATIVE

72 / 100

● Quality: Developing

● Readiness: Conditional

— EVERY CHECK WE RUN • 25 ELEMENTS, 6 CATEGORIES, 3 GATES

Check		What it catches	
Configuration & integrity			10 of 100 points
A1	Scheduling settings	The P6 options are set so the forward and backward pass can be trusted.	
A2	Calendars	Work patterns are real, and no calendar is quietly set to run more hours than its name implies.	
A3	File & status integrity	One data date, clean actuals, nothing corrupting the calculation.	
Network logic			35 of 100 points
B1	Open ends	Every activity has something driving it, so a slip actually propagates.	
B2	Dangling logic	No activity tied on only one side, hiding its true impact on the finish.	
B3	Relationship types	Finish-to-start dominant; overlaps modeled honestly, not by convenience.	
B4	Lags	Delays built into the logic are justified, not padding the plan.	
B5	Leads / negative lags	No negative lags papering over missing sequence detail.	
B6	Hard constraints	Dates are driven by logic, not pinned by constraints that mask the real risk.	
B7	Redundant & circular logic	No loops or duplicate ties distorting the calculated path.	
Float & critical path			22 of 100 points
C1	Negative float	The plan is achievable as drawn, not already behind on day one.	
C2	Unexplained high float	No activity floating longer than the entire event with no reason it should.	
C3	Critical-path validity & reach	The critical path is continuous, real, and reaches the startup you promised.	
C4	Near-critical & merge exposure	The paths about to become critical, and the points where many converge, are visible.	
C5	Float distribution	The criticality profile is sane, not a network with no real spine.	
Durations & milestones			10 of 100 points
D1	Activity durations	No oversized activities hiding sequence, detail, and risk.	
D2	Level of effort	Hammocks and LOE are bounded, not silently inflating the critical path.	
D3	Milestones	Feed-out, handover, and startup milestones are structured and tied on both sides.	
Resources, leveling & density			12 of 100 points
E0	Leveling state	Whether the schedule was resource-leveled, determined forensically from the file.	
E1	Resource loading	The work that should carry crews and hours actually does.	
E2	Assignment integrity	No broken, zero-unit, or impossible resource assignments.	
E3	Leveling coherence	The leveled dates and the underlying logic agree with each other.	
E4	Resource density	The manpower curve is physically achievable, not a wall of parallel work.	
Coding & traceability			11 of 100 points
F1	Code completeness	Phase, unit, system, and discipline coding present, so the plan can be sliced and audited.	
F2	WBS structure	A clean, meaningful hierarchy, not empty scaffolding.	
F3	Traceability	Activities tie back to work orders and carry unique, legible names.	

Gate 1 • Configuration

Engine settings valid, so the dates can be trusted.

Gate 2 • Real critical path

Continuous, real work, reaches the promised startup.

Gate 3 • Status integrity

One data date, clean actuals.

— BEYOND THE CHECKS • THE NUMBERS A CHECKLIST CANNOT PRODUCE

SIMULATED RISK

P50, P80, and the odds

Thousands of runs down the driving path.
Illustrative: P50 31 d, P80 36 d, 68% odds of a 35-day commitment.

NEAR-CRITICAL

What to watch next

The chains about to become critical, ranked by days of work per day of protecting float.

VERIFIED FINDINGS

Survives a challenge

A numeric wall, then an adversarial verifier argues against every finding. Refuted findings never render.

— TWO ANSWERS, NEVER BLENDED INTO ONE

79

QS-001 score

Quality: Sound

Readiness: Not Assessable

Gate: not assessable

Readiness could not be assessed because the critical-path calculation settings are invalid. Once corrected and recalculated, resubmit for a readiness verdict.
25 elements scored over 100 of 100 weight.

Re-run

Both answers on one line in the tool: Sound on construction, no readiness verdict, and the reason a scheduler can act on.

ILLUSTRATIVE DEMO DATA

Run an independent engine over your schedule.

Send us the P6 file for the event you are planning now. We will show you what to fix before you lock the baseline.

[Book a call](#)stointelligence.com

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