



Automate schedule and business process quality controls directly in Primavera P6



P6-QA Tool For Schedule & Process Validation

When managing a large portfolio of projects with stakeholders and project contributors around the world, it is a challenge to make sure that schedules and business processes are done consistently for accurate portfolio management and reporting.

A quality schedule is an essential communication and management vehicle to drive project performance and business success. Project controls teams develop detailed business processes and include quality specifications in all of their projects, but the ability to measure these qualitative statements is not easy and can be very time consuming and expensive, particularly if third party consultants are needed to provide this expertise. Business process adherence is another area that can be hard to measure quickly and objectively.

With P6 users in an organization coming from a wide range of backgrounds and varying skill levels it is important to have tools that allow for real-time self-assessment and proactive improvement so that quality is not only driven by the Lead Scheduler or a third party consultant during a project quality review. The ability to identify and correct deficiencies in schedules and business processes during all project phases is vital for project success.

EMERALD'S PRIMAVERA P6 ADD-ONS

With over 20 years of experience, Emerald has developed a library of Primavera add-ons that streamline, automate and enhance our clients' experience and maximize their Primavera investment.

Related P6 add-ons include:

- P6-Calculator
- EP-datawarehouse
- P6-Loader
- EP-dashboard
- P6-Forecastor
- P6 Timesheet Auditor
- TAPS
- CAPPs
- P6 to Visio Loader
- P6 Productivity toolkit

SOLUTION

Emerald's P6-QA tool removes the burden of time-consuming and costly schedule quality reviews by empowering your scheduling team members with real-time adherence feedback directly in P6-PPM or P6-EPPM. It automates schedule quality checks that can be customized to each project or standardized by project type, department or region.

Missing logic, lead/lag checks, float checks, duration checks, missing resource assignment checks are examples of out-of-the-box validations available. These standard validation points were designed with government and industry standards in mind, including the Defense Contract Management Agency's (DCMA) 14-point assessment. Validations are also customizable to suit your company's specific schedule quality metrics based on project type, departmental requirements and other corporate requirements.

Emerald's P6-QA tool was created by our scheduling experts specifically for Primavera P6 and is embedded into P6 itself so that users can self-critique and improve their skills without waiting for improvement feedback from their managers. The tool gives improvement feedback at all working levels in P6. From the project, WBS, activity, resource, expense and step levels in a schedule to cost, resource and time, all can be flagged and monitored easily.

Validation flags and reports are available within the application allowing for easy user driven reporting. For additional process improvement reporting such as time-based improvements for forensic analysis, use our EP-datawarehouse tool to snapshot and report from within BI Publisher or other graphical reporting engines.

Check	Description	Target	Actual	Passed Total
Logic	Activities missing predecessors or successors	< 5.00%	0.00%	2 / 14
Negative Lags	Relationships with a lag duration of less than 0	< 1.00%	0.00%	0 / 13
Positive Lags	Relationships with a positive lag duration	< 5.00%	0.00%	0 / 13
Long Lags	Relationships with a lag duration greater than 352 hours	< 5.00%	0.00%	0 / 13
Relationship Types	Relationship types other than Finish to Start	< 10.00%	0.00%	0 / 13
Large Float	Activities with total float greater than 352 hours	< 1.00%	21.43%	3 / 14
Negative Float	Activities with a total float less than 0	< 1.00%	0.00%	1 / 14
Large Durations	Activities that have a remaining duration greater than 352 hours	< 5.00%	36.36%	4 / 14
Invalid Progress Dates (before the data date)	Incomplete activities before the data date	< 1.00%	0.00%	0 / 4
Invalid Progress Dates (after the data date)	Activities with actual dates after the data date	< 1.00%	0.00%	0 / 10
Resource / Cost	Activities that do not have an expense or a resource assigned	< 1.00%	0.00%	3 / 14

Validation Summary Report located in the notebook tab in Primavera P6

By having a validation tool built-in to Primavera P6 there is no need to export a copy of the P6 schedule file to run an analysis on your schedule. The P6-QA tool can be set to run at a preset interval to analyze the schedule(s), or run on an as-needed frequency to ensure ongoing analysis and user-driven improvements.

Activity ID	Activity Name	EAI - Positive Lag Ind	EAI - Negative Lag Ind	EAI - Long Lag Ind	EAI - Rel Type Ind	EAI - No Logic Ind	Total Float > 352 hrs
P:012-QA.P:012 - Design and Construct Al Wakrah Bypass Road - Tags R							
P:012-QA.Pre Contract Pre Contract Activities							
A1000	Prepare Project Brief	●	●	●	●	●	●
A1010	Prepare Tender Document	●	●	●	●	●	●
A1020	Tender Invitation	●	●	●	●	●	●
A1030	Technical Evaluation	●	●	●	●	●	●
A1035	Technical Tender Review	●	●	●	●	●	●
A1040	Financial Evaluation	●	●	●	●	●	●
A1045	Financial Tender Review	●	●	●	●	●	●
A1050	Tender Award	●	●	●	●	●	●
A1060	Contract Signed	●	●	●	●	●	●
P:012-QA.Post Contract Post Contract Activities							
A1070	Project Duration	●	●	●	●	●	●
A1080	Budget Allocation FY 2013-14	●	●	●	●	●	●
A1090	Budget Allocation FY 2014-15	●	●	●	●	●	●
A1100	Budget Allocation FY 2015-16	●	●	●	●	●	●
A1110	Budget Allocation FY 2016-17	●	●	●	●	●	●

Graphical indicators at the activity level

A key benefit to Emerald’s P6-QA tool is the simple graphical indicators that are effective at conveying information about the schedule and useful for filtering and sorting, giving P6 users additional flexibility to build their own monitoring criteria and layouts in P6 or even in P6 Visualizer.

ROI

Emerald’s P6-QA tool empowers your P6 users to proactively develop more accurate schedules and adhere to your internal business processes for any type of project. This tool is not a costly external quality review tool so it can be used by all users to improve their skills when developing schedules. Since the P6-QA tool is designed for your schedulers, you will gain scheduling accuracy and speed with real-time self-critique. You will save time on costly schedule reviews and avoid having to wait for issues to be resolved. Emerald’s P6-QA tool is the most cost effective tool to empower your P6 team, refine critical scheduling quality and improve business process adherence.

- Implementation
- Automation
- Integration
- Training
- Risk Analysis
- Dashboards
- Turnaround Assistance
- Engineered Hardware

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