



## Automate schedule and business process quality controls



## 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-Forecaster
- P6 Timesheet Auditor
- TAPS
- CAPPS
- P6 to Visio Loader
- P6 Productivity Toolkit

## 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 required for accurate portfolio management and reporting are done consistently.

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 being able 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 software 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.

### 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 | Found | 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%  | 56.57% | 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 into 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 |
|--|------------------------------|------------------------|------------------------|--------------------|--------------------|--------------------|-----------------------|
| <b>P:012-QA Pre Contract Pre Contract Activities</b>   |                              |                        |                        |                    |                    |                    |                       |
| 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              | ●                      | ●                      | ●                  | ●                  | ●                  | ●                     |
| <b>P:012-QA Post Contract Post Contract Activities</b> |                              |                        |                        |                    |                    |                    |                       |
| 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-critiques. 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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