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PTC Integrity™ Process Director™

A SCALABLE AND PRACTICAL SOLUTION FOR ESTABLISHING, MANAGING, AND IMPROVING YOUR OPERATIONAL, ENGINEERING, AND DEVELOPMENT PROCESSES

There are a number of options for documenting your organization's operational, systems engineering, and software development processes. While certain approaches–like having large printed documents and complex intranet sites–can certainly document your methods, they are expensive to research, update, and improve. Keeping them current is difficult—even before tackling the bigger problem of ensuring that processes are used and not ignored. Without true process implementation, your investment is wasted.

Process management made simple

The solution is PTC Integrity Process Director, which provides a practical approach for establishing, measuring, managing, and improving your company's operations, systems, and software engineering processes. This groundbreaking process authoring, management, and deployment technology is based on PTC's vast real-world experience in process improvement.

Implementing PTC Integrity Process Director typically reduces authoring and maintenance times by 20 percent to 30 percent.

PTC Integrity Process Director includes the following main features:

- Process Director for authoring and project management
- The unique PTC Integrity Process Perspective best practices in systems and software engineering

- Process Consumer for giving every engineer access to your best-practices
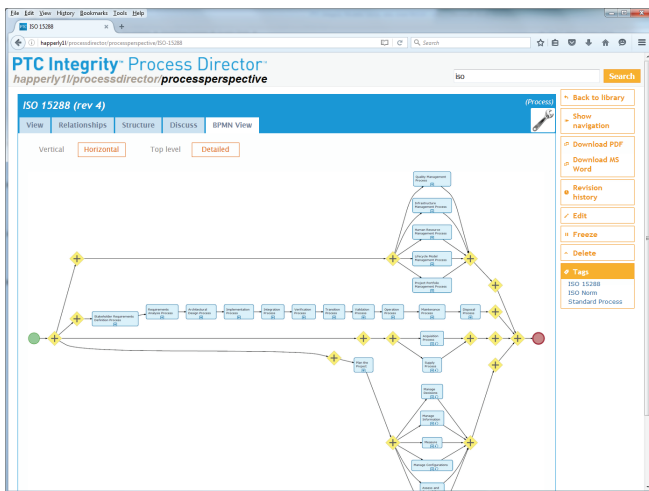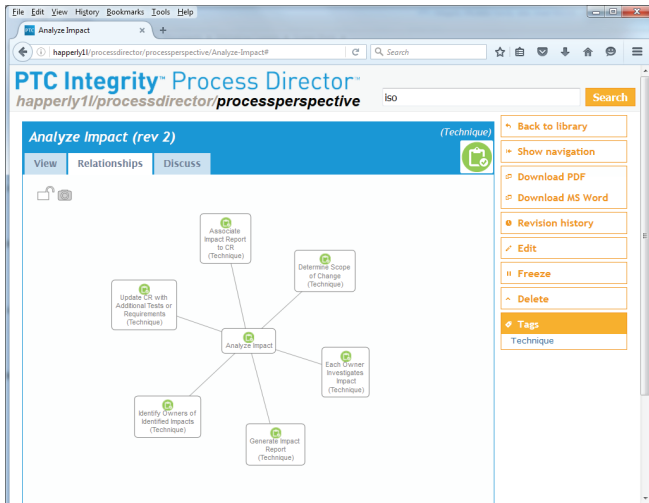- Process Check for checklist and review management

Process director

Process Director provides comprehensive process authoring facilities with additional features for developing, managing, and validating new processes. It has built-in tools and preloaded best practices that accelerate the authoring of consistent and high quality processes. It also keeps your project participants connected and engaged, improving your processes over time.

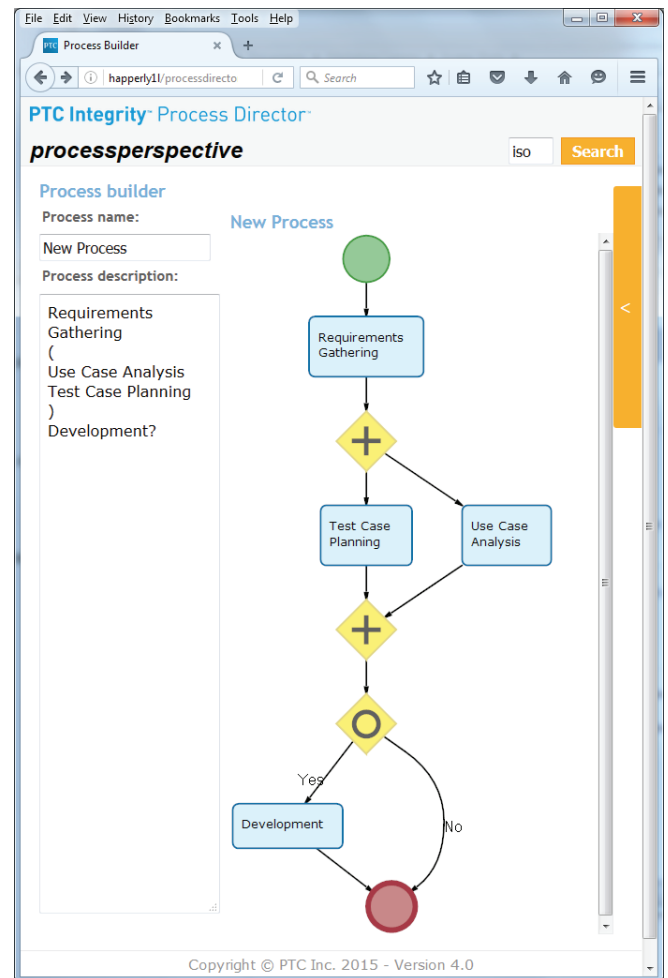**Integrated tools for collaborative authoring**

Authoring rich process content is simple using Process Director's integral text editor, graphical drag-and-drop step editor, or natural-language process-flow designer. A MetaWeblog interface also allows you to edit content with familiar programs such as Microsoft® Word® and Microsoft Windows® Live Writer.

During authoring, you can visualize processes with auto-generated business process modeling notation (BPMN) diagrams and animated relationship graphs.

Animated relationship graphs and BPMN diagrams help you visualize complex relationships.

These features make it simple to merge Process Director processes with your own established processes. Plus, you can use library structure views, navigation trees, and process diagrams to visualize and communicate processes to project participants and other stakeholders. At the same time, built-in version and access controls help you manage and improve process assets and potentially reduce process maintenance costs by up to 30 percent.
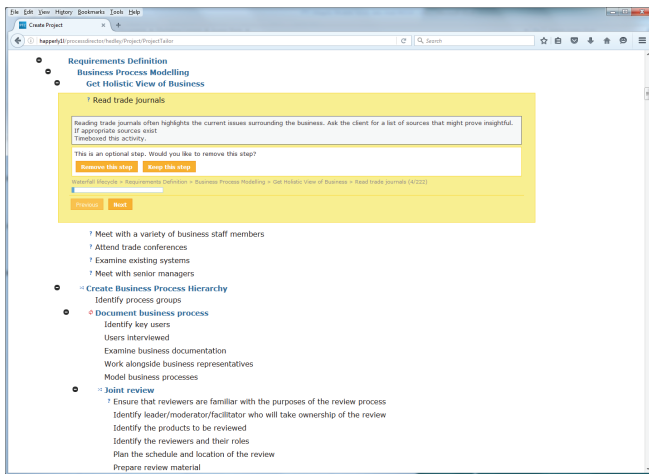

Process Director enables you to just type steps to build processes.

Wizards for process customization

Each program and project is based on and linked to an underlying master process, with project-specific customization, using a question-and-answer wizard. This uniquely agile configuration approach gives you the ability to tune every project plan instead of having to settle for a one-size-fits all approach.

Integrated project oversight gathers metrics and keeps you apprised of how a process is being used to drive project success. This closed-loop environment makes it easy to demonstrate project return on investment and improve your processes.

Process wizards help you customize your approach.

Process perspective

The Process Perspective library provides a tool-agnostic framework process for model-based systems engineering, software modeling, asset-based modular design, and model-based product line engineering.

Frameworks for accelerating development

The Perspective Process framework is built on our own best practices as well as industry standards such as:

· OMG SysML

· ISO15288

· ISO26550

This unique but proven approach includes model-based systems and software engineering, modular design for SoS, SOA and CBD, and model-based product line engineering.

Process Perspective provides comprehensive best practices.

Other framework libraries are also included to kick-start your process documentation, including:

· DO-178

· DO-254

· ISO26262

· EN50128

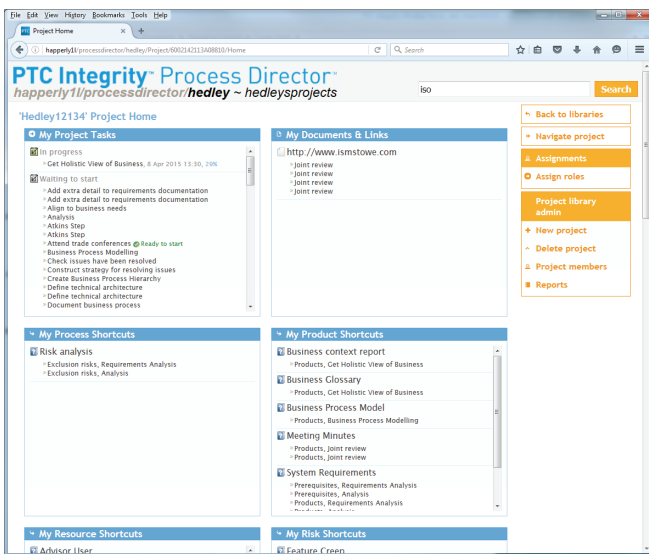· Waterfall, spiral, staged, to-budget, and other documentation processes

These out-of-the-box frameworks provide a starting point for authoring your own processes using gap analysis and tailoring. These libraries also ensure that nothing is missed and that your deployment programs exceed internal and mandated quality requirements.

Process consumer

Whether using project specific versions of the out-of-the-box Process Director processes, imported process documentation, newly authored processes, or a mix of all three, Process Consumer provides access using web browsers, iPhones, or iPads. This gives everyone the process help they need, when they need it.

A scalable solution for process implementers

Process Consumer provides facilities for recording metrics and progress of each task and deliverable. It sends automatic email notifications when tasks are allocated, when start dates are approaching, and when previously assigned tasks are completed. It also allows participants to receive real-time feedback throughout process implementation.

Process Consumer helps participants stay on task.
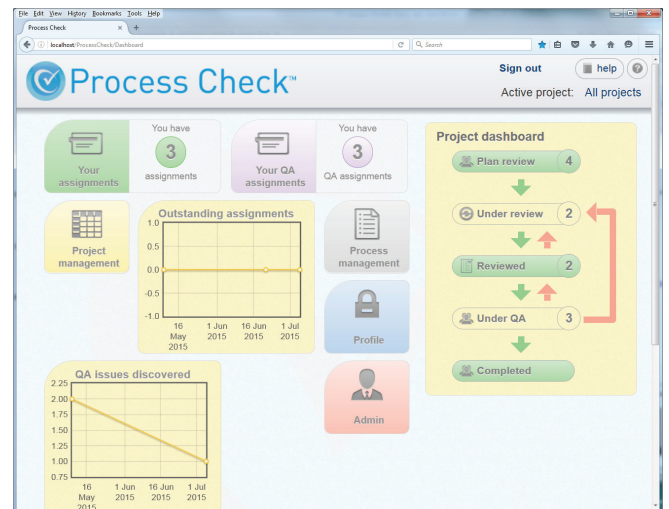
Help and feedback to improve performance

Dashboards and automated email notifications enable process consumers to receive tasks and reminders based on start dates or task activity. Individual engineers can also have their own personal task lists. A powerful search facility and tag clouds allow you to find information quickly. Process consumers can link directly to the relevant process help, example deliverables, other resources involved, associated risks, and relevant techniques, tools, and patterns. Feedback loops and online discussion forums then help to foster continuous process improvement.

Process check

The Process Check feature enables you to manage errors, reduce costly mistakes, and improve overall outcomes. It also helps you provide proof that you have reviewed your project milestones against predefined checklists, as mandated by safety-critical industry guidelines.

A powerful environment for checklist authoring and management

Process Check is a powerful checklist-authoring and management environment that allows you to import and reuse checklists for guidelines such as DO-178/ ED-12. It automates checklist reviews, reduces review task allocation lag, and links items so you don't waste time searching for them. It also eliminates rework and maximizes management visibility.

Process Check allows you to import and reuse proven checklists.

You are able to monitor project milestones and deliverables and schedule reviews against managed checklists. This capability makes it easier to build certified systems for regulated applications and safety-critical environments.

An effective way to reduce project errors

Process Check includes a fast browser interface and a scalable, secure, multi-user database. Dashboard views keep reviewers on track, and answered review questions are stored and logged with an electronic signature and timestamp. Project managers can view the consolidated input of multiple reviewers and check the results with an integrated QA Wizard. Results are stored or outputted as PDFs, which you can use as evidence for your audit or certification processes. By automating reviews and checklist management, your organization may be able to reduce project errors by up to 50 percent.

Document, manage, and deploy processes more efficiently

PTC Integrity Process Director helps you realize the full value of each project or program. Whether working on operations, systems, or software engineering projects, you, your process authors, and consumers are able to create a common strategy for addressing the most complex requirements, tasks, and responsibilities.

With the ability to tailor, adapt, and reuse processes, your organization is able to respond to changing needs and market expectations even as you continue to improve quality and reduce effort in the overall development lifecycle. Building best practices that support continuous improvement enables you to demonstrate the real cost and value of every activity and investment. With PTC Integrity Process Director, you gain the agility, insights, and advantages to respond to the challenges of an increasingly competitive and interconnected world.

Convenient software and service subscription

PTC Integrity Process Director is a subscription-based product, which means lower upfront costs and no complicated licensing fees. You gain access to industry-leading software and support for your business while buying only the level of support you need.

Subscriptions include the product, updates, and support. Budgeting is easy and completely transparent. For more on our subscription-based offerings, visit the PTC subscription page.