

# Driving Six Sigma Process Improvement and Execution

## Automate and Facilitate DMAIC and DMADV Process Execution and Management Visibility

With comprehensive, best-practice project templates, PTC's Windchill ProjectLink facilitates the adoption, speed, and repeatability of Six Sigma projects across an organization.

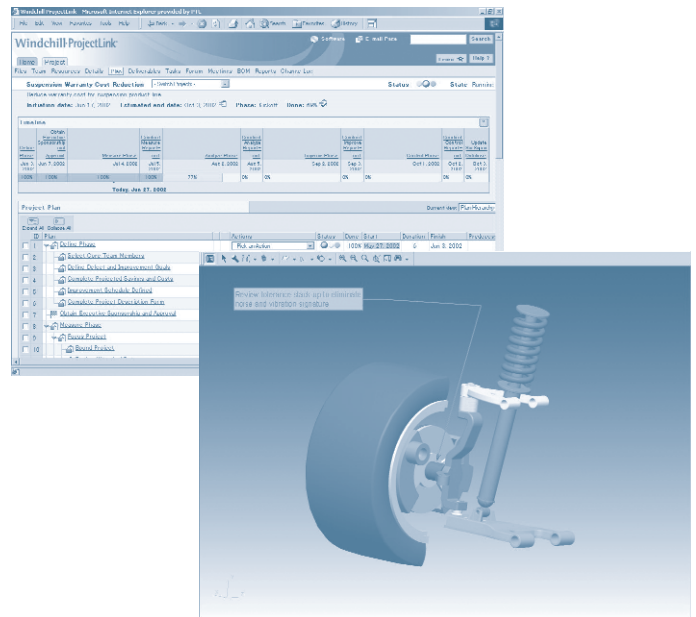
Manufacturers across the globe are feeling the heat, as competition, costs, and customer demands are now driving suppliers to improve product quality and transactional processes. Six Sigma is a proven methodology that enables companies to formalize this improvement process, speak a common language, streamline processes, expose performance bottlenecks and drive continuous, yet controlled improvement. The question: how can you best apply the tenets of Six Sigma, and ensure that those practices become integral to product development?

Windchill ProjectLink facilitates the adoption, speed, and repeatability of Six Sigma projects across any organization. By electronically capturing and automating the Six Sigma process, Windchill ProjectLink reduces non-value added paperwork associated with creating, managing and sharing project information and deliverables.

With Windchill ProjectLink, project team members and sponsors are easily connected via a Web-based virtual workspace. Launching new projects is easy; a user logs on, sets up the project from a customer-defined template, invites members, and the team is off and running, with minimal IT support.

### Windchill ProjectLink Supports Six Sigma with the following capabilities:

- Provide current project data and real time visibility into performance metrics and project status to all members and executive sponsors
- Accelerate benchmarking opportunities, best practice leveraging and project execution by providing common virtual workspaces for both internal cross-functional team members and external constituents (suppliers, partners, customers)
- Increase the number of projects completed by providing all the necessary tools to execute, including a repeatable customer defined Six Sigma template, which maps and automates the organization's specific process
- Reduce non-value added data management and project administration activity freeing up more time for process optimization and systemic improvements



Easily view, modify, and mock-up project data such as process capability charts and parts

### Capabilities Overview

- Self-service project management, enabling users to track milestones, activities, tasks, deliverables, and resources across all phases of the DMAIC or DMADV process
- Central repository for all project-related information
- Lightweight visualization and mark-up of information from various CAD authoring tools
- Streamlined process management and document approval routings through automated workflow
- Change visibility through subscription and notification
- Discussion forums
- Online collaborative meetings

### Project Management

Windchill ProjectLink delivers closed-loop project management. The project owner sets up a schedule; the entire team easily accesses it via the Web, and then directly reports their progress. As a result, the most

up-to-date information is always available to all parties. Features include:

- Deliverables-based project management
- Configurable and reusable project templates
- Automated delivery and execution of scheduled activities
- Hierarchy of projects & roll-up to a master project / cluster
- Import of a Microsoft® Project plan
- Export of a Windchill ProjectLink project plan
- Executive dashboard with essential project information
- Total project cost, resource, and effort tracking
- Action item capture and resolution management
- Configurable timeline with status of key events

## Program Management

Windchill ProjectLink offers both a pipeline view and portfolio view across projects. Managers and executives can quickly identify issues using consolidated views and graphical indicators, then generate reports in real-time based on actual current project information. Additional capabilities are available with an optional Six Sigma Reporting solution.

## Information Management

Windchill ProjectLink can manage a vast range of information regardless of systems, organizational differences, or geographic boundaries. Participants can author, access, and manage this data so that the right information is available when team members need it. Specific capabilities include: folder-based storage and controlled access to project information; check-in/check-out; change history; document templates; automated or ad hoc routing of documents for review/approval; access control rules for individual documents, parts, and folders; light-weight visualization and markup; discussion forums; personal notebook to manage links to important information; and URL links of project information to/from other projects, corporate enterprise systems, and other exchanges.

## CAD Integration

Windchill ProjectLink is capable of managing collaboration around extremely complex 2D and 3D design information from many CAD applications.

- Direct integration from leading CAD authoring tools such as Pro/ENGINEER®, Cadence®, CATIA®, AutoCAD®, I-DEAS®, Mentor®, Inventor®, SolidWorks®, and Unigraphics® for viewing and editing
- Product structure management

- Visualization and mark-up of 2D and 3D data
- Peer-to-peer collaboration with visualization software

## Automate Business Processes

Windchill ProjectLink employs a powerful workflow engine that automates many business processes to streamline execution and repeatability while removing distance barriers. Reusable workflow templates automate common processes and enforce the execution of key activities such as best practices benchmarking and project leveraging. Tailorable forms define process tasks and tie together relevant information. Moreover, Windchill ProjectLink allows automatic distribution of tasks to team members, and the utilization of deadlines with escalation policies for proactive and follow-up notifications. The ability to reassign tasks help project leaders relieve bottlenecks and facilitate workflow. There are even advanced workflow capabilities, including support for nested processes, process referencing, conditional branching, voting, synchronization, timers, iterative loops, and response-based routing.

## Communication

With Windchill ProjectLink, project team members can instantly share ideas and build off the input of each other with features including:

- Discussion Forums
- Online Meetings
- Subscription and Notification

## Scalable and Secure

Windchill ProjectLink is fully scalable, capable of handling hundreds—even thousands—of concurrent users. Support for Oracle and Java 2 enables maximum performance advantages. It features three levels of security, essential for managing projects on the Internet:

- User Authentication: Uses standard Web server authentication
- Project Access: Allows you to seal off activity around discrete projects
- File Access: Enables data owners and project managers to set access control rights for individual folders, documents, parts, and CAD models

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