

Enterprise knowledge foundation

Benefits

- Lowers total cost of ownership
- Improves re-use
- Improves productivity
- Assures compliance
- Enables global collaboration
- Enables you to capture and institutionalize experience and best practices
- Speeds time-to-value
- Supports change management

Features

- Open, scalable architecture
- Authoring management facilitated by advanced Microsoft Office integration
- Change management
- Process management
- Information access/navigation
- Information security
- Specification management
- Product structure management

Summary

Teamcenter® software's enterprise knowledge foundation provides your PLM environment with three crucial functions by enabling you to: 1) integrate information from diverse authoring systems, 2) implement best-practice processes, and 3) drive domain and industry-specific solutions. Your company can use Teamcenter's enterprise knowledge foundation capabilities to bring its product, process, manufacturing and service knowledge together in a single, secure source that can be protected and leveraged in a scalable PLM environment.

Providing a single source of product and process knowledge in a secure, open environment

Teamcenter's enterprise knowledge foundation enables you to establish a comprehensive and unified PLM environment that is scalable, secure and flexible enough to reflect your company's full breadth of knowledge and processes. This PLM environment supports a complete product lifecycle that extends from concept ideation to product retirement. Teamcenter's enterprise knowledge foundation provides capabilities so you can:

- Capture and repeatedly re-use product data by taking advantage of Teamcenter's advanced classification, search and navigation functionality
- Improve user productivity by introducing PLM capabilities into your user communities' authoring tools of choice and enabling users to access Teamcenter product knowledge through familiar user interfaces they already understand
- Support global collaboration across your supply chain through a single, secure source of enterprise product and process knowledge
- Automate processes that ensure compliance with your company's policy and regulatory requirements



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Business issues

Competitive pressures require companies to improve top-line results while realizing bottom-line efficiencies. To stay competitive, your business must operate on a global level with diverse supply chains and complex marketing requirements. You must also account for increasingly stringent regulations. In addition, the transitional nature of the workforce over the next decades compels your company to consider the risk associated with losing valuable product and process knowledge stored in people's heads or buried in their desk drawers.

Dispersed operations and multiple partners located across multiple time zones introduce significant challenges to business success – as does your need to maintain localized processes and support different applications and information systems.

How do you coordinate the resources of your global teams?

How do you focus people on the same goals and business knowledge?

How do you reduce your costs and improve your cycle times?

And, how do you reduce your IT infrastructure costs while achieving these objectives?

Optimizing your PLM environment

Teamcenter enables you to deploy a PLM platform that is easily configured to your business requirements.

With a Microsoft Office look and feel, consistent and easy-to-use interfaces enable users to become more productive. Embedding Teamcenter capabilities into your applications-of-choice allows your user communities to work within their primary authoring tools while interacting with Teamcenter.

For example, users can employ Teamcenter's advanced Microsoft Office interface to interact with Teamcenter from within their application of choice and search, navigate, create/save, check-in and check-out documents and synchronize their Outlook tasks with their Teamcenter work list.

Once captured, product knowledge can be configured for full text and metadata indexing to facilitate rapid user access. In addition, this knowledge is protected through a security model that enforces individual, role and group permissions before granting access.

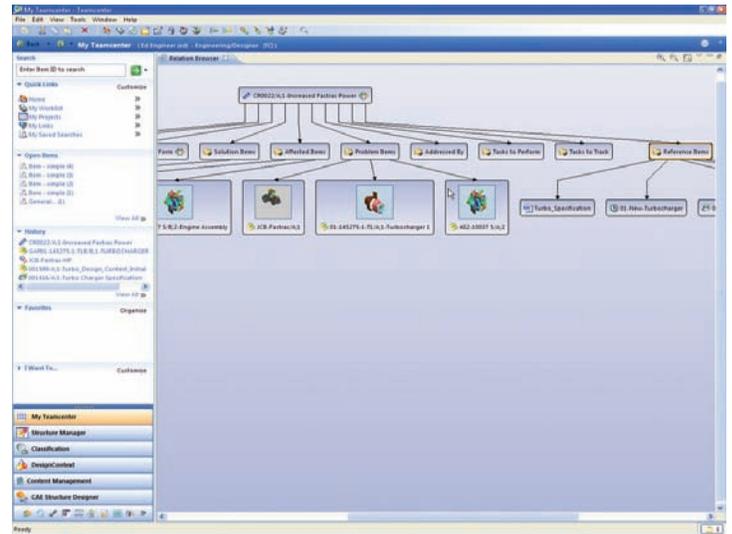
You can also activate export control security through an out-of-the-box capability that supports restrictions for international collaboration including International Traffic in Arms Regulations (ITAR).

Teamcenter's workflow engine enables you to capture, automate and deploy processes, best practices and experiences throughout your global enterprise. This approach ensures that lessons learned anywhere are used everywhere. With this advanced workflow capability, Teamcenter delivers out-of-the-box support for CMII-standard change management, which is a powerful best practice.

Teamcenter's unified architecture serves as the platform for the rapid configuration and deployment of other Teamcenter-driven domain and industry solutions, reducing the time-to-value for your PLM investment. With Teamcenter's enterprise knowledge foundation providing common services for data and process management, these solutions power your PLM environment with business-related capabilities that facilitate cross-discipline collaboration, reduce cycle time and lower total cost of ownership.

Use cases

Improving product development cycle time Teamcenter provides a single source for all product knowledge that enables cross-discipline product teams to easily share and interact with data created from their applications-of-choice. Teamcenter's ability to relate all types of product data (including requirements, CAD, CAM, CAE,



logistics and documentation) to the whole product enables product development stakeholders to understand and respond to the impact of individual changes on product quality and schedule. With the Teamcenter schedule manager, tasks can be assigned on the product schedule and tracked to closure.

Global collaboration With today's design and supply chains located everywhere, companies require a PLM environment that protects intellectual property no matter where it originates while permitting access to authorized users. Teamcenter uses a consistent security model that meets export control standards such as ITAR. Teamcenter's file management system supports intelligent distributed file caching to keep data secure and to guarantee that everyone is working with up-to-date product data.

Inclusive PLM foundation Teamcenter's open, flexible and comprehensive PLM platform consolidates functionality and data from the systems that support your product lifecycle. Teamcenter enables your PLM platform to integrate with other enterprise application systems (including your ERP system). You can leverage your Teamcenter-enabled unified PLM platform to rapidly configure and deploy needed functionality to quickly achieve a return on your PLM investment.

Basic functionality provided by Teamcenter's enterprise knowledge foundation

Basic functionality	Detailed capabilities
Open, scalable architecture	<ul style="list-style-type: none"> • Browser-based thin client user interface • Web-deployable robust client • n-tier open J2EE architecture • Enterprise scalability and performance • SOA-based capabilities • Business model integrated development environment (BMIDE) for configuration/customization • Open enterprise application integration framework with platform extensibility services • Innovative file management system to enable remote locations to speed file caching and reduce network impact • Localization capabilities, including global accessibility and access through local languages • Scalable and flexible infrastructure deployment • Flexible install and upgrade capabilities
Authoring management	<ul style="list-style-type: none"> • Advanced Microsoft Office integration • Ability to leverage PLM worklists as Outlook tasks • Teamcenter menus embedded in Word, Excel and PowerPoint for creation, search and data usage • Teamcenter templates to Word and Excel • Watermark and stamp printing • Rendering of Microsoft Office documents
Change management	<ul style="list-style-type: none"> • End-to-end change management with support for CMII processes • Ability of the end user to initiate a change against a configuration item within the context of the current user interface • Flexible issue management to capture input from customers, partners, suppliers and others • Automatic recording of all change events for traceability and audits
Process management	<ul style="list-style-type: none"> • Sophisticated workflow engine for stage gate, process notification, automated event handling and digital signature approval • Automatic recording of workflow events for traceability and audits • Configurable subscription and notification management
Information access/navigation	<ul style="list-style-type: none"> • Advanced search and management • Full text and compound search support • Relationship navigation support
Information security	<ul style="list-style-type: none"> • Security modeling for supporting program, object, role, group and ITAR security • Access management for supporting ITAR/ADA, HTTPS, forward and reverse proxy and other initiatives
Specification management	<ul style="list-style-type: none"> • Global specification management that lets you represent specifications as intelligent, configurable relationships between managed information objects and leverage them on a global scale across a unified PLM platform • End-to-end lifecycle support that enables you to leverage every element in a specification across the entire product and production lifecycle
Product structure management	<ul style="list-style-type: none"> • Generic product structure management that enables you to create a single product structure you can use to define variant conditions and option definitions/values for an entire product platform • Product platform support that lets you define a single product platform for an entire range of product offerings; in turn, product platforms can be used to facilitate more frequent product enhancements, niche offerings, add-ons and derivatives – as well as mass customization initiatives

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