

What's new in Teamcenter 9

Smarter decisions. Better products.

Benefits

- Make more informed decisions
- Deliver increasingly complex products
- Maximize productivity across the product lifecycle
- Streamline global operations
- Improve product quality and lower costs
- Achieve compliance to company and industry standards
- Manage product requirements from a systems engineering approach
- Find product data up to 65 percent faster
- Reduce change process time up to 60 percent
- Increase re-use up to 80 percent
- Cut design cycle time up to 50 percent

Summary

The Teamcenter® product lifecycle management (PLM) solution suite from Siemens PLM Software provides the right information at the right time so you can make the right product decisions – from planning and development through manufacturing and support. Teamcenter 9 delivers new capabilities and more powerful tools to help companies deliver increasingly complex products while maximizing productivity and streamlining global operations.

High-definition PLM

The Teamcenter 9 portfolio of end-to-end PLM solutions delivers the collaborative decision support platform for HD-PLM to provide more visual information and analytics that improve collaboration and decision-making.

Take control of your lifecycle From planning and development through manufacturing and support, Teamcenter provides decision support tailored and optimized to various users' roles in the lifecycle. Teamcenter applications facilitate each person's task-at-hand, while unifying various work streams within a single source of product and process knowledge.

Make smarter decisions in high-definition Decisions are easier to make when you can visualize their impact. From Active Workspace, you can locate, browse and visualize your products in context-aware high-definition, enabling you to investigate your 3D product data in greater detail. Seamlessly collaborating with others, you can easily compare and graphically report on product information, directly on the 3D product model.

Access PLM anytime, anywhere Teamcenter Mobility enables PLM decision-making anytime and anywhere a decision needs to be made. You can respond to workflows and review associated documents, browse product structures, visualize 2D drawings and 3D models directly on your mobile devices, empowering you to make smarter product decisions in the context of the task at hand.

End-to-end PLM portfolio

No other PLM software can match the breadth of the Teamcenter portfolio for maximizing productivity and streamlining global operations.

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Teamcenter solution	Customer value	Teamcenter 9 new features and enhancements
<p>Systems engineering and requirements management Teamcenter aligns the strategic intent of your products with the correct set of requirements, so you can ensure the successful delivery of products that meet the needs of your markets, customers and regulatory agencies.</p>	<ul style="list-style-type: none"> • Trace requirements throughout a product's lifecycle and enable cross-domain impact analysis • Enable use of best-in-class tools for system definition and modeling 	<ul style="list-style-type: none"> • Integrated diagramming with standard tools – Visio and Matlab/Simulink • Functional and logical system modeling with traceability
<p>Portfolio, program and project management Teamcenter integrates strategic product portfolio planning with operational program and project management.</p>	<ul style="list-style-type: none"> • Allocate financial and human capital resources to most profitable initiatives • Automate the dissemination of work packages and the collection of project execution data 	<ul style="list-style-type: none"> • Master scheduling with cross-schedule dependencies • Extensibility via APIs and PLMXML • Portfolio planning supporting investment decisions • Usability enhancements including custom status indicators, deferred save and simplified task execution
<p>Engineering process management Teamcenter offers much more than any competing product data management (PDM) solution, by providing the vaulting, global sharing and workflow management capabilities you need to capture, manage and leverage geometry and engineering data created in diverse CAD, CAM and CAE systems.</p>	<ul style="list-style-type: none"> • Enable collaboration through visual issues to support extended design/change processes • Leverage multi-CAD JT™ and spatial search for design validation supporting global design processes 	<ul style="list-style-type: none"> • Capture visual issues within Teamcenter • Manage visual issues in Teamcenter as part of a formal change process • Cacheless search across multi-site deployments • CAD integration usability enhancements
<p>Bill of materials management The Teamcenter single source of structured product and process information enables you to derive the right bill of materials (BOM) information relevant to your needs. Coupled with powerful capabilities to manage product complexity and variability, this helps you more easily manage product offerings, platforms and options.</p>	<ul style="list-style-type: none"> • Allows users to define and view current accurate product BOM definition, tailored specifically to the needs of different functional teams • Makes increasing product complexity more manageable with advanced configuration and variant management • Extends BOM support beyond design and development to include the entire product lifecycle 	<ul style="list-style-type: none"> • Filtered structure expand using closure rules; expand relevant content only for full structure • Duplicate structures allows for easy re-use of structures for new projects
<p>Content and document management The Teamcenter advanced document and content management capabilities enable you to establish a structured document and XML content authoring and publishing environment that is fully integrated within your PLM environment.</p>	<ul style="list-style-type: none"> • Manage all product-related documents in context of product structure, and critical design, analysis and support processes • Enable use of familiar interfaces for document creation, capture and review 	<ul style="list-style-type: none"> • Integrated technical documentation created from Teamcenter source data • Review and markup – including disposition • Cortona3D RapidAuthoring for visual product documentation • Support for industry standards, e.g., S1000D V4 and DITA
<p>Supplier relationship management Teamcenter offers a portfolio of configurable supplier relationship management (SRM) solutions that allow you to more effectively engage suppliers, engineering and procurement in the sourcing and supplier management process. The Teamcenter collaborative environment supports better cost management, as well as more effective product development and manufacturing.</p>	<ul style="list-style-type: none"> • Integrate non-Teamcenter suppliers' data with Teamcenter • Automate the suppliers' exchange of design and process information with traceability 	<ul style="list-style-type: none"> • Match Teamcenter data and attachments to selectable RFx templates to support design and business exchanges

Teamcenter solution**Customer value****Teamcenter 9 new features and enhancements****Mechatronics process management**

Teamcenter provides a rich environment for the associative development of mechanical, electrical, electronic and embedded software technologies within a single source of product and process knowledge.

- ECAD design and part library management
- Software design components, binaries, software calibration and configuration parameters management
- Enable design re-use and early verification
- Apply common model across engineering domains

- Behavior model lifecycle management
- Matlab/Simulink integration
- ECAD part library gateway
- Import/export software parameters to standards

Manufacturing process management

Teamcenter enables engineering and manufacturing teams to collaborate in a digital environment by leveraging a single source of product, process, resource and plant information.

- As-designed, as-planned and as-built BOM planning and reconciliation
- Support lean initiatives by validating and optimizing process definition

- More intuitive and configurable user interface
- Improved Pert and Gantt charts
- Intelligent and contextual search
- 3D PDF work instructions
- Enhanced time management solution with TiCon integration
- Build plant specific bill-of-processes consisting of stations, operations and activities
- Optimize production lines with a graphical line balancing tool

Simulation process management

Teamcenter provides simulation-specific data, workflow and process management within your PLM environment, so you can increase simulation capacity and deliver timely results to enable smarter product decisions.

- Enable global engineering teams to be more effective with simulation-specific data, workflow and process management
- Promote faster analysis and increased confidence in CAE knowledge and results

- Re-use and skip subassembly rules for faster generation of simulation structures
- Use multiple file inputs and outputs for advanced tool launch scenarios

Maintenance, repair and overhaul

Teamcenter bridges the gap between the engineering, logistics, manufacturing and service communities to help you drive profitable growth, leaner services operations and improved asset performance.

- Enable service cost containment through asset management, service planning and standardization of services
- Improve product reliability through closed-loop service feedback to engineering

- Service scheduling for defining and scheduling work packages
- Service execution for failure tracking service / corrective actions and maintenance history

Reporting and analytics

Teamcenter provides rapid transformation of data from disparate enterprise systems, including PLM, into insightful and actionable analyses for timely decisions.

- Provide common access to all data sources with the ability to publish real-time reports, charts, dashboards
- Open reporting framework integrated into Teamcenter data security

- Embedded dashboard
- Users can subscribe to dashboard changes
- Localized user interface in 7 languages
- 29 out-of-the-box reports

Community collaboration

The Teamcenter collaboration environment extends the reach of PLM capabilities to everyone in your extended enterprise, including partners and suppliers, thereby increasing overall productivity.

- A reliable, secure and compliant platform for sharing information. Providing real-time collaboration, application sharing and social computing allowing teams to work together when, where and how they choose
- Extend your SharePoint implementation with product development-specific capabilities

- SharePoint 2010 support
- Site minder reverse proxy and Red Hat 5.4 support for conference server

Teamcenter solution**Customer value****Teamcenter 9 new features and enhancements****Lifecycle visualization**

Teamcenter extends traditional PDM with visualization throughout the lifecycle. You can visualize your product data in 2D and 3D formats, even when this data is authored by different applications.

- Validation of managed, configured design data with spatial analysis tools with the same precision as the original CAD data
- Lightweight JT format helps users understand multi-CAD assemblies to make better decisions faster

- Visual Navigation leveraging spatial search
- Visual Reporting for color-coding geometry based on Teamcenter metadata
- Placement tools to support the automotive Body-in-White process

Platform extensibility services

The Teamcenter platform extensibility services enable you to realize value from your Teamcenter investment quickly and cost-effectively.

- Provide maximum configurability to minimize the need for customization
- Streamline and simplify the process to create, deploy and maintain Teamcenter configurations

- BMIDE supports live update of List of Values (LOV)
- Support batch loading LOV data through a command-line application
- Client interface configurable through style sheets

Enterprise knowledge foundation

The Teamcenter single, secure source of product and process knowledge facilitates global collaboration, serving as a platform to rapidly deploy domain and industry solutions.

- Single source of product, process, manufacturing and service knowledge across entire lifecycle
- Secure, scalable, flexible and open architecture for data and intellectual property management

- Intuitive search based on business objects for end users
- Thin client with compelling interaction and extensibility
- Audit manager for use by administrators and end users
- Ability to monitor and log the health of the deployment
- Better general performance and WAN latency tolerance

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