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

A proven path to grow your PLM deployment
Teamcenter simplifies PLM by taking the guesswork out of the deployment process. We deliver a flexible portfolio of focused applications organized to allow you to strategically grow your PLM maturity in a way that makes sense for you.

Benefits
- Get up and running quickly
- Make more informed decisions
- Manage mechanical, electronics, software and simulation data in a single environment
- Operate with ease in a multi-CAD environment
- Validate design data before release to manufacturing
- Improve product quality and lower costs
- Comply with company, sustainability and industry standards
- Manage product requirements using a systems engineering approach

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 better product decisions from planning and development through manufacturing and support. Teamcenter delivers new capabilities and more powerful tools to help you implement PLM rapidly. Using Teamcenter, you can develop and deliver increasingly complex products while maximizing productivity and streamlining global operations.

Start with PLM
For most of our customers, the first step on the PLM path is to take control of your product data and processes. Manage and share product designs, documents and BOMs. Use standardized workflows and change processes to streamline efficiency throughout your organization.

Answers for industry.
What’s new in Teamcenter

Benefits continued
- Leverage systems-driven product development with integrated systems engineering
- Make increasing product complexity more manageable
- Automate the suppliers’ exchange of design and process information

Extend the value
Next, take a look at related domains and processes. Manage requirements. Include suppliers. Connect engineering with manufacturing and service. Extend the value of PLM across the product lifecycle.

Transform your business
PLM can take your business to the next level. Apply transformational solutions to your product lifecycle for a profound business impact. Drive your product cost, quality, sustainability and systems engineering initiatives.

Build on the PLM platform
A robust PLM platform provides a solid foundation for every Teamcenter application. The Teamcenter platform delivers a streamlined and intuitive PLM user experience, critical common capabilities and flexible deployment options to get your implementation up and running quickly.

<table>
<thead>
<tr>
<th>Teamcenter solution</th>
<th>New features and enhancements</th>
<th>Customer value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>START</strong></td>
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</tbody>
</table>

Design management
Teamcenter enables you to manage and share cross-domain design information, including mechanical, electronics, software and simulation in a single environment.

- Access standard materials data during design
- Get faster clearance analysis with clear visual feedback
- Mentor EDX and Cadence ADW now supported
- Execute Teamcenter-defined workflows using ECAD tools
- Simultaneously view product, model and analysis
- Cross-probe and highlight design objects across domains
- Filter by relationships

- Improves productivity by managing, finding and sharing mechanical, electronic, software and simulation data all in single secure source
- Improves quality by linking and tracing requirements to physical implementation in all domains
- Accelerates development and reduce costs by leveraging multi-CAD in design re-use and assembly validation
- Reduces costs by managing ECAD part libraries to eliminate part duplication and unapproved parts
- Reduces warranty costs and improve quality by managing software components and their hardware/software dependencies
- Better decisions enabled by finding and building models for analysis results based on specific product configurations
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<tr>
<td><strong>Document management</strong></td>
<td>• Use digital signatures for PDF files</td>
<td>• Provides the ability to manage all product-related documents in context of</td>
</tr>
<tr>
<td></td>
<td>• Employ S1000D 4.0.1</td>
<td>product structure, as well as critical design, analysis and support processes</td>
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<tr>
<td></td>
<td>• Employ DITA 1.1 and 1.2 with SCORM</td>
<td>• Enables you to use familiar interfaces for document creation, capture and</td>
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<tr>
<td></td>
<td></td>
<td>review</td>
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<tr>
<td></td>
<td></td>
<td>• Helps you author and publish structured documents compliant with industry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>standards</td>
</tr>
<tr>
<td><strong>Bills of material (BOM) management</strong></td>
<td>• Use single action to update parts in multiple locations</td>
<td>• Ensures BOM accuracy and completeness for all stakeholders</td>
</tr>
<tr>
<td></td>
<td>• Synch part and design BOMs automatically</td>
<td>• Provides tailored visibility to the BOM, specific to the tasks at-hand</td>
</tr>
<tr>
<td></td>
<td>• Facilitate collaborative design for large complex products and programs</td>
<td>• Helps you handle more options without additional effort using comprehensive</td>
</tr>
<tr>
<td></td>
<td>• Improved support of the extended BOM lifecycle</td>
<td>configuration management</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Enables you to extend BOM support beyond design and development to include</td>
</tr>
<tr>
<td></td>
<td></td>
<td>the entire product lifecycle</td>
</tr>
<tr>
<td><strong>Process execution</strong></td>
<td>• Use enhanced schedule and workflow integration</td>
<td>• Improves productivity with the right data delivered at the right time, at</td>
</tr>
<tr>
<td></td>
<td>• Update parts in multiple locations with a single action</td>
<td>the right location, to the right person with the proper authority to do that</td>
</tr>
<tr>
<td></td>
<td>• Enhanced change management usability</td>
<td>work</td>
</tr>
<tr>
<td></td>
<td>• Supports complex change processes with integrated change and schedule management</td>
<td>• Improves consistency and completeness by standardizing best practices</td>
</tr>
<tr>
<td></td>
<td>• Emergency change management with un-incorporated change</td>
<td>• Drives efficiency with integrated planning and execution</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Reduces the risks associated with change management with unincorporated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>change</td>
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</tbody>
</table>
## Teamcenter solution | New features and enhancements | Customer value
--- | --- | ---
**EXTEND**

### Requirements management
Teamcenter helps you capture product requirements and validate contractual compliance from a single source of knowledge that can be leveraged throughout the entire product lifecycle.

- DOORS and RIF formats can be imported or exchanged
- Requirements access and sharing enabled with web-based URLs
- You can document and attach decision support rationale to trace requirements and relationships

- Reduces time and effort with a single source for generating requirement documents using familiar Microsoft Office tools
- Supports compliance by defining, managing and tracing customer requirements across the entire product lifecycle
- Improves quality by linking requirements to functional, logical and physical implementation
- Reduces risks by tracing and assessing the impact of each change

### Service lifecycle management
Teamcenter enables lean aftermarket or maintenance operations through a single source of asset and service knowledge and related applications.

- Use PERT and Gantt charts for flexible planning
- Link service resource assignments to tasks and through workflow

- Maximizes asset availability and reliability through accurate knowledge of status
- Improves service quality with complete service plans specific to product/asset
- Reduces service time and costs with visibility into work, schedule and resources
- Reduces service errors with correct and effective service documentation

### 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.

- Advanced planning for global production of platform-based products
- Mixed-model line balancing
- Body-in-white workflow with CAD-neutral weld data import
- Standard text and 3D product views for work instructions
- Product to production integration with Simatic MES

- Perform manufacturing feasibility studies for better decisions, earlier
- Shorten planning time
- Identify and standardize on best practices
- Reduce impact of new product introductions by optimizing workload
- Streamline automated operations with off-line programming and virtual commissioning
- Enhance operator understanding and improve safety
### Teamcenter solution

#### EXTEND continued

**Supplier integration**

Teamcenter offers a portfolio of supplier integration solutions that help you optimize collaboration with global suppliers for product planning, direct material sourcing, development and support. Teamcenter can enable suppliers to participate in and/or be compliant with OEM processes and can provide secure data exchange with traceability and version control.

<table>
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<th>New features and enhancements</th>
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<td>Briefcase browser supports round trip exchange of new and modified NX designs between the OEM and the supplier</td>
<td>Briefcase browser provides a lightweight application that enables suppliers to work offline on OEM design packages</td>
</tr>
<tr>
<td>Briefcase browser reduces the size of the design package return trip to the OEM from the supplier by including only the supplier changes to the design</td>
<td>Easily package and send NX and JT CAD design data and related documents (e.g. Specifications) to offline suppliers</td>
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**Supplier integration**

- Briefcase browser reduces the size of the design package return trip to the OEM from the supplier by including only the supplier changes to the design

**Customer value**

- Briefcase browser provides a lightweight application that enables suppliers to work offline on OEM design packages
- Easily package and send NX and JT CAD design data and related documents (e.g. Specifications) to offline suppliers
- Using Briefcase browser, suppliers can browse briefcase contents (structure, files, attributes) without Teamcenter or a CAD tool, and launch designs into CAD or viewer applications
- Suppliers can create or update a briefcase by using NX and Briefcase browser
- You can track ownership and set modification rights of objects for each supplier with briefcase

#### TRANSFORM

**Quality management**

Teamcenter enables your team to more clearly identify critical quality characteristics, failures/non-conformances and resolutions to quality issues, helping you make smarter decisions across the global, extended enterprise.

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<td>Use dashboard views to analyze quality data and identify trends</td>
<td>Employs role-based, intuitive user experience</td>
</tr>
<tr>
<td>Propagate issue and CAPA data to change requests</td>
<td>Choose configurable or out-of-the-box workflows to manage the issue resolution process</td>
</tr>
<tr>
<td>Work with product data, related issues and resolution in one PLM environment</td>
<td>Use a single view for all quality related tasks and sign-offs</td>
</tr>
<tr>
<td>Capture knowledge of how to resolve issues</td>
<td>Enables powerful, flexible and easy-to-customize reporting</td>
</tr>
<tr>
<td>Support for 8D reporting and ISO standards</td>
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**Quality management**

- Use dashboard views to analyze quality data and identify trends
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**Customer value**

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- Choose configurable or out-of-the-box workflows to manage the issue resolution process
- Use a single view for all quality related tasks and sign-offs
- Enables powerful, flexible and easy-to-customize reporting

**Cost management**

Teamcenter enables you to see detailed product and tool costs across all corporate functions. You manage cost by answering questions early and continuously during the entire product development and delivery process.

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<td>Use single database solution to estimate costs</td>
<td>Increases your ROI by enabling benchmarking and visibility into cost details</td>
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<tr>
<td>Employ cost models to support “what if” scenarios</td>
<td>Increases speed and accuracy of tooling cost estimates</td>
</tr>
<tr>
<td>See cost details with parametric models using standardized information</td>
<td>Increases knowledge and experience</td>
</tr>
<tr>
<td>Use knowledge database for common cost drivers including labor rates, currency exchange, machine costs, etc.</td>
<td>Supports financial analysis</td>
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<tr>
<td>Use profitability calculation showing overall KPIs (e.g. ROCE, NPV, IRR) of a project</td>
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**Customer value**

- Increases your ROI by enabling benchmarking and visibility into cost details
- Increases speed and accuracy of tooling cost estimates
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| **Sustainability and environmental compliance** | Teamcenter can help you establish a framework for sustainability and Design for the Environment initiatives and understand and control the material and substance makeup of your products. You gain full end-to-end visibility to all compliance related product and process information, including information originating from the supply chain. | • Provides compliance grading and reporting including dashboard views  
• Use standard regulatory rule sets for compliance grading against REACH, RoHS and Conflict Minerals  
• Use industry standard formats (IPC-1752)  
• Create and manage company-specific and future regulations with the rules editor  
• Create and manage materials and substances  
• Aggregate material and substance amounts across a product structure  
• Initiate material and substance declaration requests to suppliers and import declaration forms from suppliers and external users  
• Import and archive declaration forms from external suppliers  
• Exchange data with third-party material providers (e.g. import MatML files for content, IMDS) and supplier warehouses (e.g. BOM check) |
| **Systems engineering** | Teamcenter enables you to create systems-level behavioral, functional and logical definitions as well as the models that help ensure products perform as intended. | • Use LMS model support for system synthesis, multi-physics analysis, test and validation  
• Employ port-less and multi-site diagrams with compound shapes and properties  
• Use fine-grain model traceability  
• Addressable web objects (URLs)  
• Helps accelerate design with a common systems-level view of the product or system across the design chain  
• Helps reduce risks by ensuring all subsystems work together properly and intelligently assessing the impact of a change  
• Helps reduces costs by simulating, analyzing and optimizing sub-system performance before physical prototypes  
• Helps improves quality and eliminate integration problem by managing and sharing interface definitions across the supply chain |
**Teamcenter solution** | **New features and enhancements** | **Customer value**
--- | --- | ---
**PLATFORM**

### High Definition User Experience

**Active Workspace**
Active Workspace provides a streamlined and intuitive PLM user experience across operating systems and computing devices to facilitate smarter decision-making.

- Access PLM information from across computing devices, include mobile devices.
- Use IT friendly platform that can run anywhere with no customer installation work
- Use web-intuitive, touch-enabled interface
- Tailor UI to fit your needs
- Use powerful interactive search and filtering capabilities
- Employ intelligent charting to visually navigate search results in logical groups
- Visually understand and navigate through data structures and relationships

- Empowers your extended enterprise users with simple and intuitive PLM
- Helps increase productivity by reducing time wasted searching for information
- Helps you avoid costly mistakes and make smarter decisions by seeing the big picture with greater clarity
- Provides easy access to relevant data stored in multiple external systems
- Provides context aware display presenting relevant information based on role & task

**Teamcenter Mobility**
Teamcenter Mobility, available at no charge from the Apple App Store, provides secure and easy access to PLM from your mobile device anywhere, anytime.

- Available at no charge
- Employ reporting and analytics
- Join Teamcenter AppShare conferences using your iPod, iPhone, or iPad
- Use JT2Go for Windows for free JT viewing with intuitive touch-enabled user experience on your Windows computer and tablets

- Enables access to PLM so you can be productive anytime, anywhere
- Helps you collaborate easily while on the go
- Enables you to view rich 3D models on your Windows PC and tablets
<table>
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</table>

**Platform capabilities**

**Visualization**
Pervasive visualization throughout Teamcenter enables everybody involved with the product lifecycle to communicate clearly using 3D.

- Employ JT, the ISO standard for viewing and sharing lightweight 3D product data
- Visualize massive models
- Use constraint authoring and playback
- Employ streamlined clearance analysis

- Helps you communicate clearly with an international 3D language
- Provides vast visualization of massive product data
- Helps you accurately simulate motion behavior of constrained assemblies
- Helps you clear issues with faster investigation, evaluation and disposition

**Foundation**
Critical common capabilities for a solid PLM foundation.

- Use holistic search
- Employ dynamic LOVs
- Use multi-field keys
- Employ audit manager enhancements and reports

- Helps you quickly find relevant information you need to do your work
- Gives you instant access to dynamically changing list of values
- Helps you avoid conflicts by using multiple identifiers to determine uniqueness of a business object
- Provides easy and fast access to audit data
<table>
<thead>
<tr>
<th>Deployment options</th>
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<tbody>
<tr>
<td><strong>Teamcenter Rapid Start</strong></td>
</tr>
<tr>
<td>Teamcenter Rapid Start is a preconfigured Teamcenter environment, designed for companies that want to deploy product data management (PDM) as quickly as possible.</td>
</tr>
<tr>
<td>• Use single source of product data</td>
</tr>
<tr>
<td>• Employ your choice of CAD systems</td>
</tr>
<tr>
<td>• Use preconfigured roles and functionality</td>
</tr>
<tr>
<td>• Employ preconfigured process workflows, including collaborative design review and change management</td>
</tr>
<tr>
<td>• Enables you to install, set up and deploy quickly and cost-effectively</td>
</tr>
<tr>
<td>• Helps you deploy high-value, preconfigured PDM based on best practices</td>
</tr>
<tr>
<td>• Helps you operate and support with minimal IT expertise required</td>
</tr>
<tr>
<td>• Enables you to realize benefits quickly for a fast ROI</td>
</tr>
<tr>
<td><strong>Teamcenter on the Cloud</strong></td>
</tr>
<tr>
<td>Teamcenter can be deployed on the cloud, using an Infrastructure as a Service (IaaS) model, which moves some or your entire PLM computing infrastructure to a third-party cloud service provider.</td>
</tr>
<tr>
<td>• Use complete Teamcenter functionality supporting all Teamcenter 4-tier user interface customers</td>
</tr>
<tr>
<td>• Employ all cloud configurations: including on- or off-premises, or a hybrid</td>
</tr>
<tr>
<td>• Helps you manage IT infrastructure for lower total cost of ownership</td>
</tr>
<tr>
<td>• Provides dynamically scale infrastructure as project needs change – instantly turn on infrastructure versus lengthy procurement cycles</td>
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</tbody>
</table>

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