SIEMENS

Teamcenter feature checklist

Simplifying PLM.

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
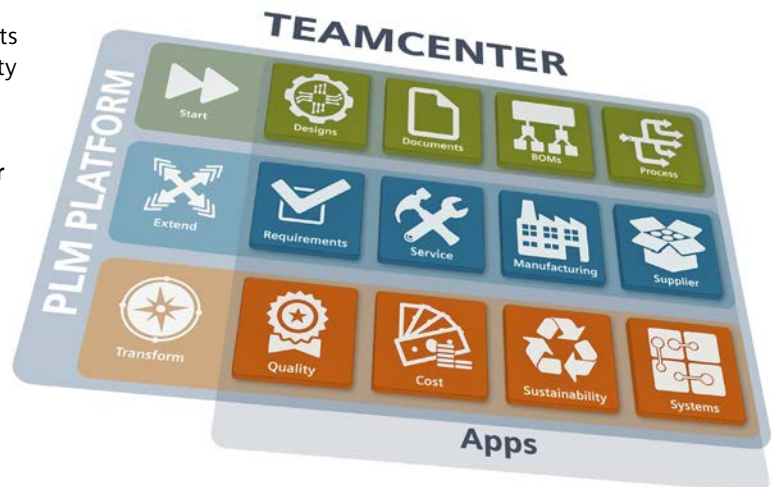- Manage product requirements using a systems engineering approach

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.

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.

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.

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Teamcenter feature checklist

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.

Teamcenter solution	Solution features	
START		
Design management Teamcenter enables you to manage and share cross-domain design information, including mechanical, electronics, software and simulation in a single environment.	✓ Manage mechanical, electronic, software and simulation data in a single secure source	✓ Manage software to software, software to hardware and hardware to hardware dependencies
	✓ Link requirements to physical implementation across all domains	✓ Manage wire harness design, components, options and variants
	✓ Integration with multiple MCAD, ECAD, software, simulation and modeling tools	✓ Simulation structure and data management
	✓ Leverage stock materials and "make from" requirements	✓ Automatic creation of simulation structures
	✓ Visualize and validate multi-CAD assemblies	✓ Batch meshing
	✓ Manage ECAD design, part library, part vendor and manufacturing data	✓ Remote job submission and load balancing
	✓ Visualize and analyze ECAD layout, assembly and test data	✓ Lightweight model and result visualization
	✓ Manage software components, signals/ message, configuration and calibration parameters	

Teamcenter solution	New features and enhancements	Customer value
START *continued*		
Document management Teamcenter advanced document and content management capabilities enable you to fully integrate authoring and publishing of structured documents and XML content within your PLM environment.	✓ Document management ✓ Digital signatures for PDF ✓ Markup management ✓ Print management ✓ On-demand rendering and viewing in neutral formats ✓ Structured XML content management ✓ Technical and multichannel publication ✓ Integration to leading authoring applications ✓ Translation management	✓ Automated review/approval ✓ Embedded Microsoft Office Integration ✓ Attribute exchange between PLM and documents content ✓ 2D/3D illustration and animation authoring ✓ Graphic content management ✓ S1000D support ✓ Darwin Information Typing Architecture (DITA) support
Bills of material (BOM) management Teamcenter enables you to know your complete product BOM – no matter if your products consist of a few parts managed with basic processes and tools, or more complex products containing millions of parts and multiple product options requiring more advanced tools.	✓ Enterprise BOM management ✓ Mass structure updates ✓ Alternate and substitute part management ✓ Context specific data structure and management ✓ BOM audit and accountability tools ✓ Collaborative BOM markup and rollup ✓ Configuration management	✓ Product variability ✓ Revision management ✓ Configuration of lot and serial definitions ✓ Multi-unit configuration management ✓ Neutral product structure support ✓ BOM integration to ERP and other enterprise systems
Process execution Teamcenter helps you effectively plan, manage and execute the work people do to streamline and standardizes processes while reducing cost.	✓ Schedule management ✓ Project collaboration ✓ Integrated workflow execution ✓ Program management ✓ Resource management ✓ Strategic planning ✓ Capacity planning ✓ Budgeting and financial planning	✓ Costing – time sheets and earned value management ✓ Product portfolio management ✓ Reporting, analytics and executive dashboards ✓ Process and signoff history ✓ Business process automation ✓ Issues/visual issues management ✓ Integrated change process management

Teamcenter solution	New features and enhancements	Customer value
EXTEND		
Requirements management Teamcenter helps you capture product require-ments and validate contractual compliance from a single source of knowledge that can be leveraged throughout the entire product lifecycle.	✓ Capture and manage customer or contractual requirements ✓ Import/exchange requirements with other tools and formats ✓ "Live" integration with Microsoft Office applications ✓ Web-addressable URL hyperlinks to access, manipulate and share requirements	✓ Manage requirement versions and configuration allocations ✓ Link and trace requirements across the product lifecycle ✓ Capture and document requirement or decision rationale ✓ Generate requirements documents and reports
Service lifecycle management Teamcenter enables lean aftermarket or maintenance operations through a single source of asset and service knowledge and related applications.	✓ Service lifecycle management ✓ Asset management ✓ Service and part history ✓ Build record ✓ Service knowledge management	✓ Service planning ✓ Service request management ✓ Service scheduling ✓ Service execution ✓ Support for industry standards
Manufacturing process management Teamcenter enables engi-neering and manufacturing teams to collaborate in a digital environment by leveraging a single source of product, process, resource and plant information.	✓ Plant design data management ✓ Line balancing ✓ Manufacturing process planning in an intuitive and flexible user interface ✓ Part planning ✓ Report generation ✓ Time management ✓ Product, process, resource and plant data management	✓ Advanced bill-of-material (BOM) and bill-of-process (BOP) management ✓ Manufacturing change, configuration and workflow management ✓ Resource management, classification and optimization ✓ 3D interactive work instruction documents ✓ Weld data management ✓ Process Gantt and Pert chart

Teamcenter solution	New features and enhancements	Customer value
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.	✓ Integration of supplier product data ✓ Supplier collaboration ✓ Supplier integration with purchasing, engineering, quality, manufacturing and other organizations ✓ Supply chain management ✓ Visibility of supplier performance (monitoring/reporting/traceability)	✓ Request for information, proposal or quotation (RFx) management ✓ Internet negotiation (reverse and Dutch auction) management ✓ Lightweight standalone supplier application enabling suppliers to work offline on OEM design packages
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.	✓ Role based, intuitive user experience ✓ Choice of configurable or out-of-the-box workflows to manage the issue resolution process ✓ Single view for all quality related tasks and sign-offs ✓ Powerful, flexible and easy-to-customize reporting ✓ Dashboard views to analyze quality data and identify trends	✓ Propagation of issue and CAPA data to change requests ✓ Product data, related issues and resolution in one PLM environment ✓ Ability to capture knowledge of how to resolve issues ✓ Support for 8D reporting and ISO standards
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.	✓ Differentiated overhead calculation (freely selectable degree of detail) ✓ Process-based bottom-up calculation and cost models (cost engineering approach) ✓ Integrated cycle time calculators (die casting, injection molding, machining, MTM, customer proprietary, etc.) ✓ Parametric tool costing for various tooling technologies ✓ Worldwide factor costs (labor, production area, energy, interest rates etc.) ✓ Complete reference processes for many manufacturing methods	✓ Consistent data from purchase prices over cycle times to finance KPIs (e.g. ROCE, NPV, IRR, etc) ✓ Tracking of project history from initial planning to end of life ✓ Flexible simulations of what-if scenarios (e.g., production alternatives, volume adjustments) ✓ Product lifecycle costing (return-on-investment over product lifecycle) ✓ Flexible reporting functions (e.g., multi-stage cost driver analysis) ✓ Profitability analysis

Teamcenter solution	New features and enhancements	Customer value
TRANSFORM *continued*		
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.	✓ 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 ✓ Compliance grading and reporting including dashboard views	✓ Standard regulatory rule sets for compliance grading against REACH, RoHS and Conflict Minerals ✓ Support for industry standard formats (IPC-1752) ✓ Rules editor to satisfy company-specific and future regulations ✓ Support for data exchange 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.	✓ Integrated system diagramming and model management ✓ Integration with Microsoft office applications (Visio, Word, Excel, Outlook, etc.) ✓ Integration with mathematical, multi-physics, functional, and logical modeling and simulation tools ✓ Configurable stencils, structures and model definitions ✓ Capture and document design or interface decision and trade-off rationale	✓ Access and manipulate objects via web-addressable URL hyperlinks ✓ Link and trace system and sub-system definitions to requirements ✓ Define, manage and publish system interfaces and definitions ✓ Support for MatLab®/Simulink® modeling and simulation ✓ Support for LMS modeling, simulation and test

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.	✓ IT friendly platform with no customer install that can run anywhere ✓ Web-intuitive, touch-enabled interface that is optimized for mobile ✓ Flexible UI that can be easily tailored to fit your needs ✓ Powerful interactive search and filtering capabilities	✓ Intelligent charting to visually navigate search results in logical groups ✓ Easy access to relevant data stored in multiple external systems ✓ Context aware display presents relevant information based on role and task ✓ Visually understand and navigate through data structures and relationships
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.	✓ Teamcenter Mobility enables you to access PLM and be productive anytime, anywhere ✓ Teamcenter AppShare enables you to join online conferences from your iPod, iPhone, or iPad	✓ JT2Go provides free JT viewing with intuitive touch-enabled user experience on your mobile devices
Platform capabilities		
Visualization Pervasive visualization throughout Teamcenter enables everybody involved with the product lifecycle to communicate clearly using 3D.	✓ Use JT, the ISO International Standard for viewing and sharing lightweight 3D product data ✓ Comprehensive suite of visualization solution providing basic viewing and markup capabilities to advanced analysis of digital mockups	✓ Massive model visualization providing constant visual interactivity regardless of the size and complexity of the model
Foundation Critical common capabilities for a solid PLM foundation.	✓ Security ✓ Classification ✓ Collaboration ✓ Reporting and analytics	✓ Extensibility ✓ Scalability ✓ Enterprise application integrations

Teamcenter solution	New features and enhancements	Customer value
PLATFORM *continued*		
Deployment options		
Teamcenter Rapid Start Teamcenter Rapid Start is a preconfigured Teamcenter environment, designed for companies that want to deploy product data man-agement (PDM) as quickly as possible.	✓ Single source of product data ✓ Multi-CAD data management ✓ Preconfigured roles and functionality	✓ Preconfigured process workflows, including collaborative design review and change management ✓ Integrated visualization
Teamcenter on the Cloud 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.	✓ Manage IT infrastructure for lower total cost of ownership ✓ Complete Teamcenter functionality supporting all Teamcenter 4 tier user interface customers	✓ Teamcenter support for all cloud configurations including on- or off-premises, hybrid