

Teamcenter integration for SolidWorks

Capture, manage and share SolidWorks data using Teamcenter, the de facto standard for PLM deployment



fact sheet

Siemens PLM Software

www.siemens.com/teamcenter

► Summary

Teamcenter® software's integration for SolidWorks allows you to reduce your product development cycle times and cost by enhancing your SolidWorks environment to deliver a single source of product data for your design and manufacturing teams. The integration enables you to access to a full range of product lifecycle management (PLM) capabilities to further optimize your design-through-manufacturing processes.

Benefits

Ability to integrate your SolidWorks files with all of your technical data to provide a single source of product data that supports your complete design-through-manufacturing process

Less time spent finding the correct revisions of SolidWorks data

Faster product change and approval processes resulting in decreased time-to-market

Consistent work processes followed across all data formats resulting in less errors and rework

Improved collaboration within your organization and with customers and suppliers

Streamlined product development

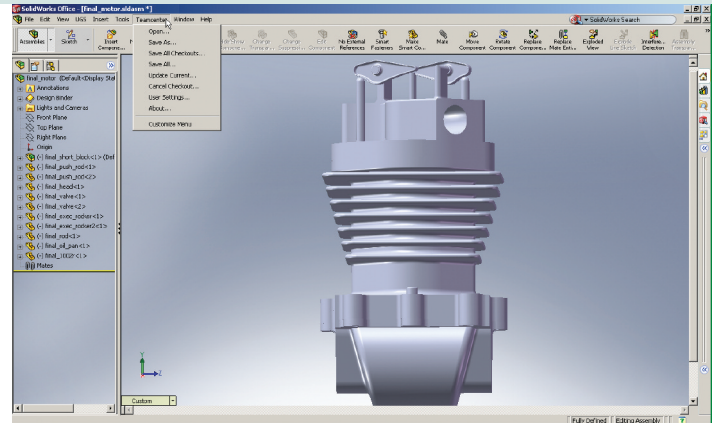
Teamcenter's integration for SolidWorks goes beyond workgroup CAD data management, enabling design and manufacturing teams to work closely together to streamline product development processes by providing a single source of product data. All design

information created using SolidWorks is captured, controlled and shared by your engineering teams in a single highly secure Teamcenter environment with version management and access controls to ensure that the right people get the right information at the right time. The SolidWorks integration leverages Teamcenter's services oriented architecture (SOA) and file management system (FMS) for optimized performance across wide area network (WAN) boundaries. This allows teams based at different sites to easily access and modify data stored in a common database and volume.

SolidWorks design teams can use the integration to quickly search for SolidWorks parts, assemblies and drawings. The integration enables users to save time trying to find and share design data distributed between distributed design teams and their suppliers. It also eliminates unnecessary work orders by ensuring that everyone is working from the latest design information.

Extend the value with additional PLM capabilities

Multi-CAD collaboration. Teamcenter's multi-CAD support enables design teams to create and modify component designs on any major CAD system and assemble their innovations/modifications into a multi-CAD product design. Teamcenter synchronizes product information to ensure that all teams are working from the latest designs, while automatically managing both native and neutral CAD representations to eliminate delays caused by constant data translations. Teamcenter's innovative approach to multi-CAD collaboration enables your extended enterprise to leverage other CAD investments in addition to SolidWorks.



Features

Use Teamcenter management functions available from the SolidWorks integration:

Search, create and edit SolidWorks objects, including drawings, parts and assemblies

Create new product revisions or version updates for work in progress

Create baseline configurations of assembly structures for release or archive purposes

Create assembly transformations supporting digital mockup

Generate drawing title blocks using Teamcenter attributes

Support SolidWorks design tables

Save auxiliary files created using SolidWorks (tif, jpeg...)

Create and vault DirectModel (JT) files for digital mockup

Conform with Teamcenter policies, including security and data access

Perform on-demand access to the users' Teamcenter workspace

Engineering process management.

Teamcenter's optional engineering process management capabilities surpass those of traditional CAD file management by capturing all relevant product and process information and relating these assets to a common product structure. In addition to managing all of your related CAD, CAM and CAE information, Teamcenter can manage design specifications, documents, requirements and other types of product information. Teamcenter's process management capabilities enable you to define design-through-manufacturing workflows, allowing you to manage changes, enforce company-specific business rules and efficiently execute your automated product-related processes.

Supported SolidWorks objects

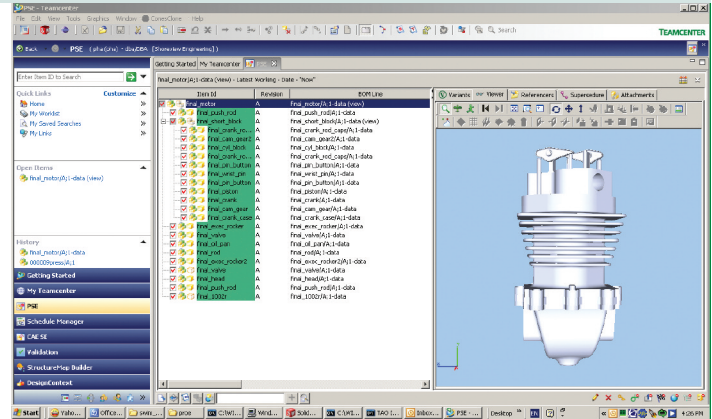
- Parts
- Assemblies
- Drawings

Supported functions

- Search and load SolidWorks objects
- Open lightweight
- Open configuration
- Create new SolidWorks objects
- Save DirectModel (JT) models and transformations supporting Digital Mockup
- Save SolidWorks objects as versions or revisions
- Check-out and check-in objects to Teamcenter
- Perform two-way attribute mapping and synchronization
- Facilitate bulk data import and export
- Save auxiliary files created using SolidWorks (eDrawings, tif, jpeg...)
- Save SolidWorks design tables or configurations as Teamcenter items

The SolidWorks integration is supported by both Teamcenter and Teamcenter Express.

- Teamcenter powers innovation and productivity by connecting people and processes with knowledge. Teamcenter is the de facto standard for PLM deployments and is backed by Siemens PLM Software's leadership in delivery.
- Teamcenter Express delivers a preconfigured cPDM environment that manages everyday tasks and processes for small and medium-sized businesses; it provides an entry point into the Teamcenter product line.



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