

Teamcenter integration for Catia V5

Benefits

- Less time spent by your technical staff trying to find the correct revisions of Catia data
- Consistent work processes followed across all data formats
- Faster product change and approval processes resulting in decreased time-to-market
- Ability to integrate your Catia files with all of your technical data to provide a single source of product information that supports your complete design-through-manufacturing process

Features

- Use Teamcenter cPDM functions available from the Catia V5 interface
- Create and edit Catia V5 models, drawings and assembly relationships
- Perform partial load and load merge for efficient assembly management
- Create new product revisions or version updates for work in progress
- Generate drawing title blocks using Teamcenter attributes

Summary

Teamcenter® software's integration for Catia V5 allows you to reduce your product development cycle times and cost by enhancing your Catia V5 environment to support best-in-class collaboration within your organization and with customers and suppliers. The integration enables Catia users to access a preconfigured collaborative Product Data Management (cPDM) environment to further optimize their product development process.

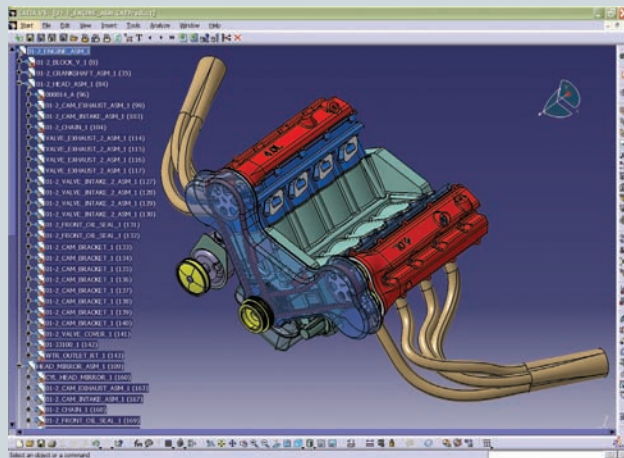
Capture, manage and share Catia V5 data in a cPDM environment

Teamcenter's integration for Catia V5 enables all the design information created in Catia V5 to be captured, controlled and shared by your organization in a single, highly secure cPDM environment with version management and access controls to ensure that the right people get the right information at the right time.

Using the Catia integration, design teams can quickly search for Catia parts, assemblies and drawings. The integration enables users to reduce the amount of time they spend trying to find and share design information, as well as eliminate unnecessary change orders by ensuring that everyone is working from the latest design information.

These capabilities go beyond workgroup CAD data management, enabling design teams at different locations and throughout your supply chain to work

closely together to streamline the product development process through multi-site collaboration.



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Teamcenter integration for Catia V5

Features *continued*

- Manage mechanical properties of Catia models and assemblies
- Provide on-demand access to user's Teamcenter workplace
- Store, load and migrate Catia V4 data to V5

Extend the value of Catia V5 with Teamcenter's cPDM environment

Everyday task and process management

Teamcenter delivers a cPDM environment that is focused on managing everyday tasks and processes for design through manufacturing. Best-practice industry workflows for product release and engineering change are included to ensure that these processes are conducted consistently and efficiently.

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 into a multi-CAD product design. Teamcenter synchronizes product information to ensure that everyone is working from the latest designs while automatically managing both native and neutral CAD representations.

Supported Catia items

- Models (load and migrate V4 models to V5)
- CATParts (V5)
- CATProducts (V5)
- CATDrawings (v5)

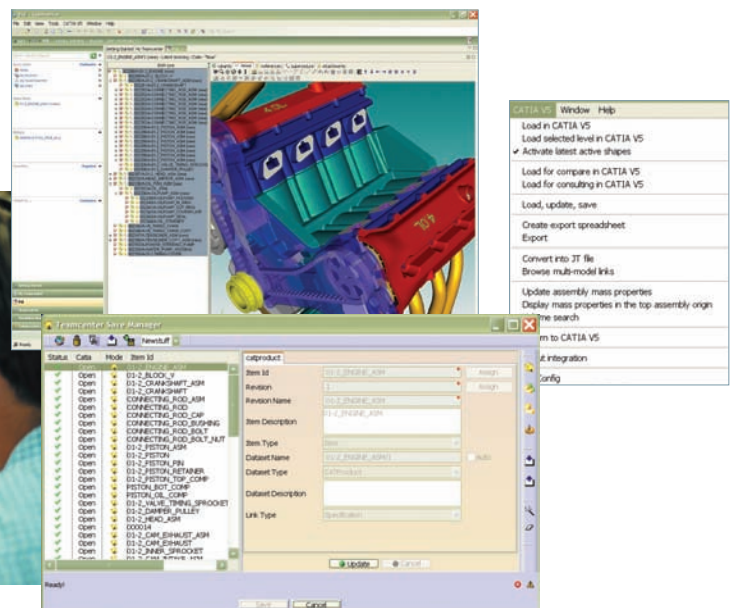
Integration for Catia V5 – supported functions

- Load – new or merge with existing to create an assembly
- Save – as a new revision, new version, new assembly or individual items
- Save assembly – as a new revision, new version, new assembly or to create new items
- Synchronize title block using Teamcenter database attributes
- Perform proximity search for selective/partial product structure load
- Preserve and navigate multi-model links
- Create, configure and edit assemblies using Teamcenter and/or Catia V5
- Automatically generate and vault lightweight visualization (JT™) files for digital mockup

- Save mechanical properties including volume, weight, surface area, moments of inertia
- Work with multiple Catia sessions and leverage the V5 CGR cache
- Store, load and migrate Catia V4 data to V5
- Access Teamcenter workspace and functions such as search and retrieve, where used, check-in/check-out, view and workflow

Teamcenter advantage

Teamcenter is the world's most widely deployed PLM system, backed by Siemens PLM Software's leadership in delivery. Users of Teamcenter can easily expand the scope of their cPDM implementation by taking advantage of Teamcenter's comprehensive portfolio of applications and its proven scalability in terms of performance and global implementation.



Teamcenter integration for SolidWorks

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

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

Features

Use Teamcenter management functions available from the SolidWorks integration:

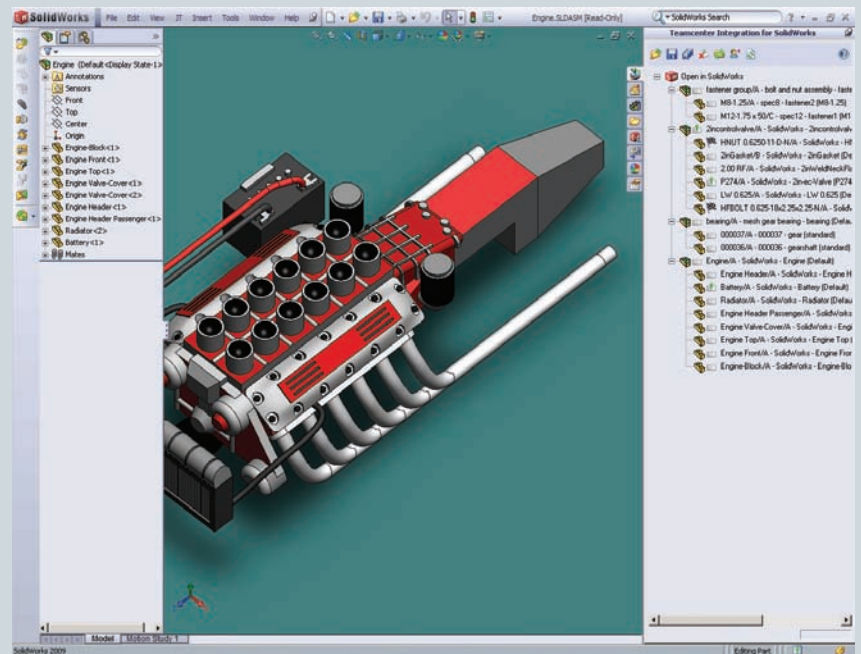
- Search, create and edit SolidWorks objects, including drawings, parts and assemblies
- Create new product revisions or version updates for work in progress

Summary

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

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.



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Teamcenter integration for SolidWorks

Features *continued*

- 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, jpg)
- Create and vault DirectModel (JT™ format) files for digital mockup
- Conform with Teamcenter policies, including security and data access
- Perform on-demand access to the users' Teamcenter workspace

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 diverse design teams and their suppliers. It also eliminates unnecessary work orders by ensuring that everyone is working from the latest design information.

Extending 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

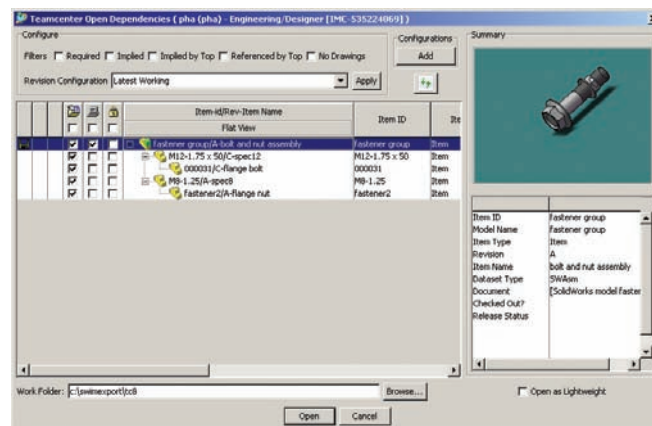
latest designs, while automatically managing both native and neutral CAD representations to eliminate delays caused by constant data translations. Teamcenter's innovative approach to multi-CAD collaboration enables your extended enterprise to leverage other CAD investments in addition to SolidWorks.

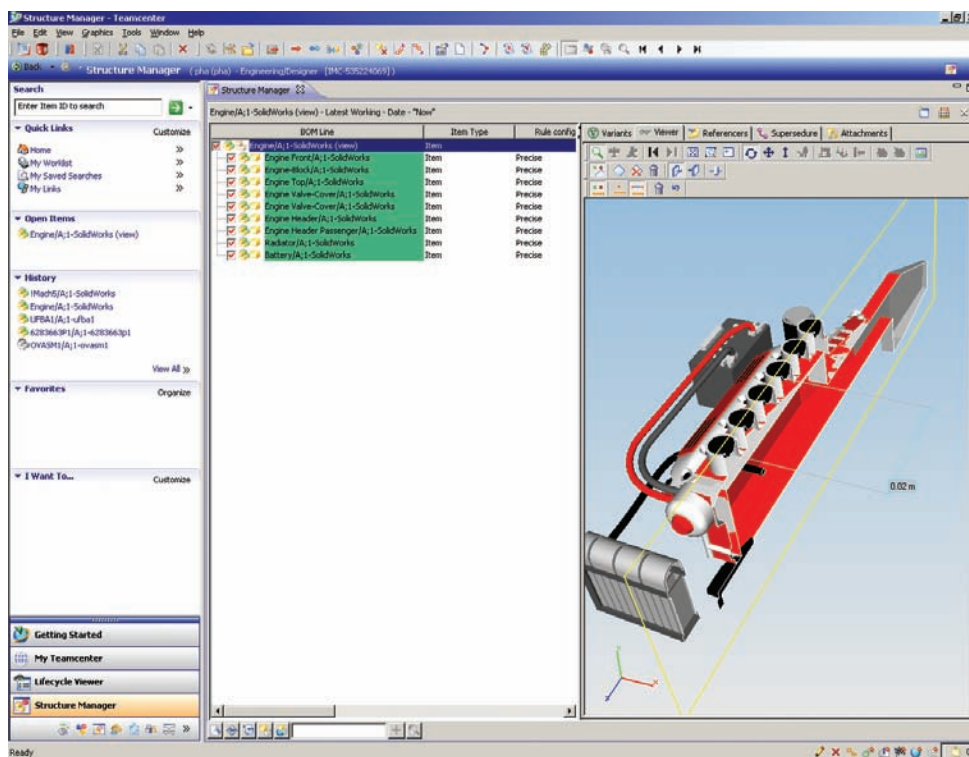
Engineering process management

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 efficiently manage and execute changes and enforce company-specific business rules.

Supported SolidWorks objects

- Parts
- Assemblies
- Drawings





Supported functions

- Access all commonly-used Teamcenter functions from a convenient task panel
- See the Teamcenter status of your local models at a glance

- Search and load SolidWorks objects
- Preview 2D and 3D models before opening into CAD
- Open lightweight JT files
- Create new SolidWorks objects

- Save DirectModel (JT) models and transformations supporting digital mockup
- Save lightweight PNG and PDF preview images
- 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, jpg)
- 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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