DIGITAL INDUSTRIES SOFTWARE

Teamcenter integration for Solid Edge

Capture, manage and share Solid Edge data using Teamcenter, the industry standard for Product Lifecycle Management deployment

Benefits

- Integrate technical data to provide your organization with a single source of product information

- Quickly locate correct designs and relevant data

- Develop and implement consistent workflows, improving collaboration internally and with customers and suppliers

- Manage BOM structures supporting product configuration/variants, occurrence properties and BOM synchronization

Summary

Establish a collaborative environment and take control of your product data by combining Siemens Digital Industries Software's world-class software solutions, Solid Edge® software and Teamcenter® software. Teamcenter integration for Solid Edge (Solid Edge embedded client) provides a full range of product lifecycle management (PLM) capabilities, allowing users to reduce product development time and cost. A single source of product data for design and manufacturing teams helps optimize the design-through-manufacturing process.

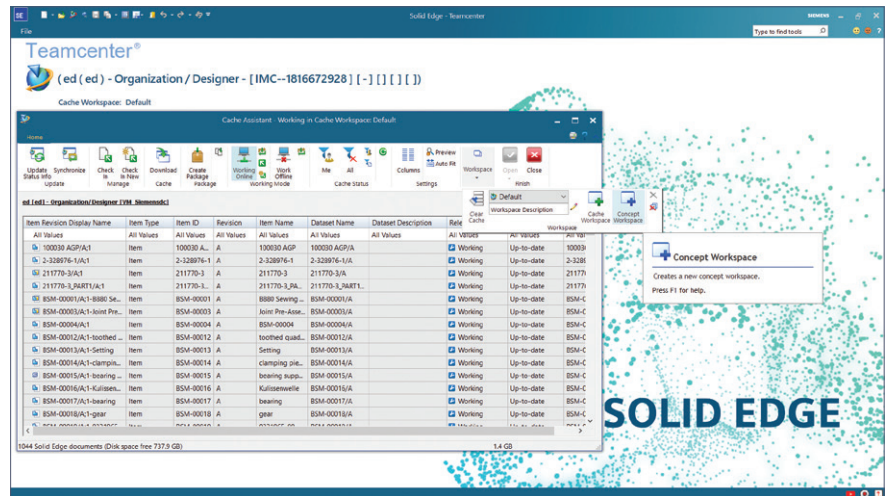### Capture, manage and share Solid Edge data using Teamcenter

The Solid Edge embedded client enables design information created in Solid Edge to be easily captured, controlled and shared in the highly secure Teamcenter PLM environment with no additional effort for the user. Comprehensive revision management and access control capabilities guarantee the right people get the right information at the right time.

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Benefits *continued*

- Communicate and share designs better with consistent visualization

- Maximize productivity with offline mode

Features

- Create, edit and manage Solid Edge parts, drawings and assemblies

- Compare multiple revisions with comprehensive revision support, full revision history and ability to revise and automatically capture related content

- Unlock the power of Teamcenter with hosted Active Workspace to search, access and highlight data in the Solid Edge environment with ease

- Perform impact analysis with quick access to „where used" and associated drawings

- Explore design ideas without committing the files to Teamcenter with Concept Modeling

- Automatically create translated files of design data to easily distribute to external consumers

- Simplify and automate common designer activities with seamless integration in Solid Edge user interface

- Easy to implement and maintain seamless integration to Teamcenter and Solid Edge, no separate install required

- Promote the reuse of existing parts with geometric shape search, available as an add-on module
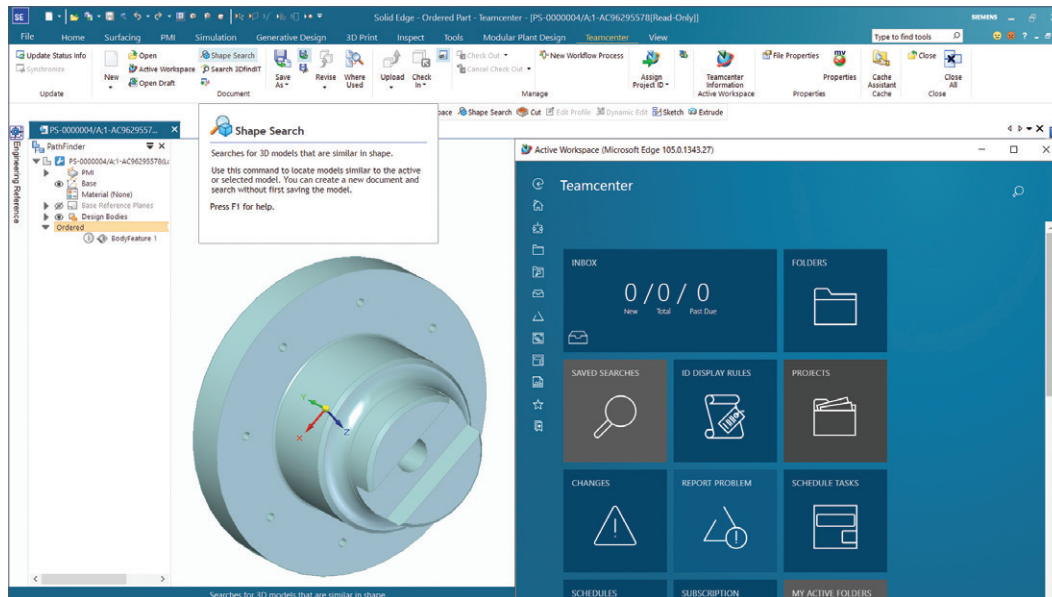

Whether users require the latest design revisions or a released revision, you can establish revision controls for parts, assemblies and drawings. Release processes ensure your data is protected throughout the lifecycle. Implicit and visual check in/check out status assures data is not overwritten while keeping all users aware of work being performed by others. To maximize productivity, teams can work offline, making design data available in the field.

Quickly search and access Solid Edge parts, assemblies and drawings to eliminate wasted time trying to find and share design information. Shape search capabilities identify similar parts in the Teamcenter database, based on shape and property data, to sort through duplicate designs and reduce costs from different suppliers.

The Solid Edge embedded client goes beyond workgroup computer-aided design (CAD) data management, utilizing a single source of product data, which enables design and manufacturing teams to work closely together to streamline product development and manufacturing delivery processes.

Seamless integration focused on Solid Edge users
The Solid Edge embedded client provides unparalleled connectivity between Solid Edge (a CAD solution) and Teamcenter (a PLM solution). Since both are Siemens Digital Industries Software solutions, they work together seamlessly through a transparent user interface (UI) that outperforms standard add-ons. The pair are delivered in a single code, with no additional installation required. This allows for synchronized release and updates.

With the Teamcenter ribbon in Solid Edge, users can quickly access data management tasks, including search, open, check-in/check-out, properties, initiate workflows and identify parts that are in the release process. Solid Edge dialogs that handle file operations, such as the file open dialog, are enabled to directly browse Teamcenter. Solid Edge documents are automatically filtered and displayed using Teamcenter attributes such as item ID. Built-in search functionality allows quick, easy single search queries as well as complex search queries as defined in Teamcenter.

Solid Edge pathfinder can display specified attributes from Teamcenter, and users can access available Teamcenter operations by right clicking on displayed Solid Edge documents. Pathfinder displays check-out status, including user identity, Teamcenter status and any revisions that have been made since opening the assembly.

The Solid Edge embedded client offers the ability to visualize all Solid Edge data, including parts, assemblies, draft documents, family of parts and assemblies, part and assembly product manufacturing information (PMI), model views, adjustable parts, tubes, pipes and weld beads, all from within Teamcenter.

Integration with Teamcenter also allows users to more quickly and accurately create, validate, analyze and document product design and the associated manufacturing information by automatically generating and managing lightweight visualization files (the JT™ data format) for Solid Edge part models and .DXF, .DWG and .PDF files for Solid Edge draft models.

Concept Modeling in the Solid Edge Embedded Client enables rapid creation and evaluation of multiple design scenarios with Teamcenter as the backbone. Designers can explore design ideas without committing the files to Teamcenter. This allows for the creation or addition of new parts to assemblies without creating a part number and then publishing or deleting a design when it's approved or rejected.

Other supported functionalities include:

- Search for, place, add and replace components in a Solid Edge assembly

- Bulk load existing Solid Edge data with "Add to Teamcenter," which includes comprehensive tools to identify and resolve issues

- Synchronize Solid Edge document properties with Teamcenter attributes

- Capture Solid Edge assembly structures to build the Teamcenter product structure, then synchronize the two structures to capture changes

- Save new documents to Teamcenter using business object rules for item ID, revision and property definitions

- Copy and revise assemblies using the Solid Edge structure editor

- Comprehensive integration with Active Workspace provides search, open, add and replace interaction as well as cross-highlighting between Teamcenter bill-of-materials (BOM) and an active Solid Edge session

- Manage links between Solid Edge parts and assemblies to their drawings and other referenced files

- Capture non-Solid Edge documents linked to Solid Edge files (Microsoft Word and Excel spreadsheet software, images and translated files)

Flexible and scalable
The Solid Edge embedded client is built to be flexible and scalable to support a company's ever-changing needs. Synchronized releases of Solid Edge and the Solid Edge embedded client ensure Teamcenter users can quickly move to the latest Solid Edge release.

Integration is optimized for both local area network (LAN) and wide area network (WAN) environments. The scalability to WAN environ-ments enables geographically distributed design resources and the extended supply chain to connect to a single database.

Teamcenter advantage
The integration using the Solid Edge embedded client is supported by both Teamcenter and Teamcenter Rapid Start, which power innovation and productivity by connecting people and processes with knowledge.

- Users of Teamcenter can easily expand the scope of their PLM implementation by taking advantage of a comprehensive portfolio of applications, as well as its proven scalability in terms of performance and global implementation.

- Teamcenter Rapid Start, meanwhile, is a preconfigured deployment option for Teamcenter that manages design data as well as everyday tasks and processes. It provides an ideal entry point into the Teamcenter product line for small and medium-sized businesses.

Extending value
Solid Edge is a portfolio of affordable, easy to deploy, maintain and use software tools that advance all aspects of the product develop-ment process, including mechanical and electrical design, simulation, manufacturing, technical documentation, data management and cloud-based collaboration.

Minimum system configuration
- Windows 10 Enterprise or Professional (64-bit only) version 1809 or later

- 16 GB (RAM)

- 65K colors

- Screen resolution: 1920 x 1080

- 8.5 GB of disk space required for installation

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For additional numbers, click here.