

User Roles

SMARTTEAM - SolidWorks Integration (SWI)

SMARTTEAM V5R18





User Roles

SMARTTEAM - SolidWorks Integration

To bring rich, seamlessly integrated PDM functionality to SolidWorks users through intuitive access to SmarTeam menus, from within the familiar SolidWorks environment. When implemented with other CAD integrations, SmarTeam SolidWorks Integration creates the conditions necessary for common collaboration among mixed-CAD engineering teams.

Product overview

SmarTeam SolidWorks Integration, a Certified Gold Product, brings the benefits of collaborative PLM to SolidWorks users, enabling work in the native SolidWorks environment while leveraging ENOVIA SmarTeams collaborative backbone to access, manage and share engineering data directly from the SolidWorks environment. SmarTeam SolidWorks Integration maintains SolidWorks-specific links, including their direction to SolidWorks documents, and all references, ensuring ease of access and structural integrity throughout the SmarTeam database. Users can apply lifecycle behaviors such as lifecycle operation rules to links to models and corresponding drawings for accurate capturing of true design intent. SmarTeam SolidWorks Integration eliminates the need to re-key data, as well as inefficient work on outdated designs, dramatically reducing errors and saving valuable time.

ENOVIA SmarTeam creates a true multi-CAD environment, enabling SolidWorks users to deploy additional CAD Integrations on their desktop. Likewise, SmarTeam enables the enterprise to manage all CAD and related product data from a single collaborative PDM system, providing a common collaborative platform among diverse engineering teams.

SmarTeam SolidWorks Integration is an add-on product to SmarTeam Editor (EDR).

Product Highlights

- Brings the benefits of collaborative Product lifecycle Management (PLM) to the SolidWorks desktop

Enriched User Experience

- Manage designs, assembly structures and related documents
- Save valuable search time with advanced search and retrieval capabilities
- Reuse knowledge and quickly start a new project through Design Copy
- Access, edit and revise SolidWorks documents while keeping track of revision lifecycle
- Work concurrently with shared workspaces in a collaborative design environment
- View, annotate and print multiple file formats
- Create and view 3D XML files using the DS 3D PLM Viewer.

Powerful Integration

- Ensures data integrity through automatic bi-directional drawing attribute mapping
- Maintains links with lifecycle rules for each link type
- Maintains references for improved decision-making
- Secures legacy data

Unmatched Solution

- Creates Engineering Bill of Materials (BOMs) directly from the CAD*
- Works in a multi-CAD environment
- Integrates multiple applications

simultaneously

- ▣ Enables rapid implementation through a predefined database structure
- ▣ Provides comprehensive SolidWorks support

Product Key Customers Benefits

Brings the benefits of collaborative PLM to the SolidWorks desktop

SmarTeam - SolidWorks Integration is an intuitive, easy-to-use, Windows-based add-on to SmarTeam Editor. Bringing the benefits of collaborative PDM to SolidWorks users, SmarTeam - SolidWorks Integration supports the in-process methodology, enabling users to manage vast amounts of documents and drawings directly from within the SolidWorks environment.

With SmarTeam - SolidWorks Integration, SolidWorks users easily manage, create, edit and annotate designs and other related documents, including Office type, such as Microsoft Word and Microsoft Excel. Eliminating both the need to re-key data, as well as inefficient work on outdated designs, SmarTeam - SolidWorks Integration dramatically reduces errors and saves valuable time. Whether searching for the latest document, ensuring revision accuracy, or quickly previewing a document, SmarTeam - SolidWorks Integration facilitates substantial design efficiencies.

Enriched User Experience

Manage designs, assembly structures and related documents

Directly from within the embedded SmarTeam menu and through secure SmarTeam vaults, SmarTeam - SolidWorks Integration links SolidWorks users into full Part and Assembly Management, enabling them to seamlessly manage complex assembly hierarchy structures, including component parts, while maintaining dependencies during lifecycle operations.

Save valuable search time with intuitive

search editor

SmarTeam SolidWorks Integration provides accurate and quick access to product knowledge through advanced database and vault search techniques. Pre-defined and personalized queries enable users to retrieve documents that match the search criteria, thus saving time and money. Users can quickly search for the most commonly used fields, such as: Document Control No., Description, State and File Type as well as other attributes including revision, part and catalog number. Users can also search key document properties or run a Full Text Search (FTS)* within documents residing in the SmarTeam vaults.

*FTS supports Oracle and SQL databases only.

Reuse knowledge and quickly start a new project

SmarTeam SolidWorks Integration enables users to reuse existing design projects while retaining project security value of structure and all corresponding relationships for quick project restart. Users can then modify the new design as necessary.

The Design Copy feature includes:

- ▣ Intelligent copy of shared components:
When copying two or more assemblies, SmarTeam recognizes redundant components and ensures that the desired component is copied only once.
- ▣ Preservation of all relationships associated with any copied component
- ▣ Attribute change based on the organization's rules
- ▣ No duplication of standard parts

Access, edit and revise SolidWorks documents while keeping track of revision lifecycle

SmarTeam-secured SolidWorks files are easily accessible from directly within the SolidWorks Open dialog box. A thumbnail preview facilitates search navigation for the right file. Depending on their user, group, global role and project-based authorizations, users can edit and revise

SolidWorks documents; without worrying where they reside on the company network. SmarTeam - SolidWorks Integration manages the files seamlessly in a secured vault, enabling users to keep track of the revision lifecycle of all their design documents. Previous revisions of SolidWorks designs are maintained, ensuring accessibility to previous product versions. A log of each design modification is also maintained automatically.

Work concurrently with shared workspaces in a collaborative design environment

SmarTeam SolidWorks Integration facilitates concurrent engineering practices, by enhancing collaborative design through its innovative shared workspace capability. A team leader checks out an assembly or a project to a shared area. Authorized team members can work on separate parts of the same design and view the work being done by others. The latest changes are deployed seamlessly in that area, reducing the number of redundant revisions during design phase.

While working in a revision-managed mode, SmarTeam SolidWorks Integration prevents simultaneous editing on the same file. A lifecycle status icon indicates whether an updated version of a part is available for loading into the assembly.

View, annotate and print multiple file formats

SmarTeam SolidWorks Integration enables users to enjoy the powerful integrated SmarTeam viewer, enables users to quickly browse through hundreds of formats, including 3D CAD parts & assemblies, 2D CAD drawings, scanned & raster documents, vector files, office documents and more, and view their native formats, without having to access the external application that created them. The SmarTeam viewer provides advanced printing capabilities, as well as multiple markup options and advanced manipulation tools, such as sectioning, mass properties, measurements, birds eye and more, for improved data exchange across product teams. The SmarTeam integrated

viewer embeds the viewing technologies of Cimmetry Systems, Dassault Systemes 3D PLM, and SolidWorks eDrawings.

Powerful Integration

Ensures data integrity through automatic bi-directional drawing attribute mapping

SmarTeam - SW Integration enables the effective management of all aspects of drawing control through the one-time keying of information. This includes automatic, deep, bi-directional synchronization of title block, revision block, and part and assembly information between SolidWorks documents and respective SmarTeam profile cards.

Maintains SolidWorks links with lifecycle rules for each link type

SmarTeam SolidWorks Integration maintains SolidWorks-specific links, including their direction to SolidWorks documents. Users can apply lifecycle behaviors to specific link types and attributes, for accurate capturing of the true design intent (e.g. can apply lifecycle operations rules to links to models and corresponding drawings).

Maintains references for improved decision-making

Information is automatically generated on part utilization within different assemblies, which allows rapid updating when changes are made. All references of SolidWorks documents, e.g. parent-child relationship (Where Used and Composed of), and more - are maintained in the SmarTeam database, and viewed from the SmarTeam Document Manager Tree (DMT) embedded in the Integration.

Secures legacy data

The Bulk Loading tool enables users to automatically load vast amounts of legacy data into the database, and attach it to a selected project, in a rapid and transparent manner. In this manner corporate intellectual property is secured and managed, and is readily available to be leveraged in future projects.

Unmatched Solution

Creates Engineering Bill of Materials (BOMs) directly from the CAD*

Users can automatically create and update Engineering Bill of Materials (E-BOMs) directly from the CAD integration through simple save or specific lifecycle operations, such as Release, benefiting the entire organization for various purposes in very early stages.

SolidWorks users can compare Document trees with their corresponding Item trees, enabling them to take into consideration design changes, and their implications on the BOM Items. In a concurrent engineering environment, where multiple engineers relate to a single source of Engineering BOM, users are able to retrieve the most relevant E-BOM representations.

The integration of this Design-to-Configure solution empowers collaborative engineering scenarios, and provides unique competitive value.

*A license of SmarTeam BOM (BOM) is required.

Works in a multi-CAD environment

ENOVIA SmarTeam creates a true multi-CAD environment, enabling SolidWorks users to deploy additional CAD Integrations, such as AutoCAD, on their own desktop. Likewise, ENOVIA SmarTeam enables the enterprise to manage all CAD and related product data from a single collaborative PDM system, providing a common collaborative platform among diverse engineering teams.

Integrates multiple applications simultaneously

SmarTeam SolidWorks Integration integrates multiple applications simultaneously to increase user empowerment and work efficiency. E.g., SmarTeam SolidWorks Integration supports the integration of both SmarTeam - Editor and Microsoft Word into SolidWorks.

Enables rapid implementation through a

predefined database structure

The predefined database structure of SmarTeam Editor enables rapid implementation of SolidWorks Integration.

Provides comprehensive SolidWorks support

SmarTeam - SolidWorks Integration supports SolidWorks 2007, and will continue to support upcoming versions as they are released.

ABOUT SMARTEAM V5R18

SMARTEAM manages and leverages corporate product knowledge and links it with business processes.

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