

Teamcenter Engineering/Teamcenter Express – Integration for Inventor

fact sheet

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► Summary

Teamcenter® Engineering/Express Integration for Inventor is the latest Teamcenter CAD integration. It provides integration between Teamcenter Engineering/Teamcenter Express and Autodesk Inventor and allows Teamcenter Engineering/Teamcenter Express users to manage Inventor data. It also supports access to Teamcenter Engineering/Teamcenter Express via the Inventor user interface enabling functionality such as vaulting, check-in/check-out, revision management and search. Thus the user avoids learning new user interaction with an easy, simple and transparent integration.

Key Features

Version and revision control of Inventor assemblies, parts, drawings and presentation files

Libraries and iPart support

Automated product structure (PSE) transfer to Teamcenter

Integrated Teamcenter Engineering access from inside Inventor

Two-way attribute transfer

Automated JT translation and visualization

Functions

Embedded in native UI

Create and modify Inventor objects

Open

Save/save as

Revision control

Save assembly transformations

Visual data (JT) creation and vaulting

Get latest version

Browse Teamcenter workspace

Check-out and check-in

Inventor part, assembly, drawing support

File status display

Rename

Clone

Problem

Autodesk Inventor has gained widespread acceptance in the manufacturing industry. Autodesk Inventor can manage complex 3D assemblies, with interrelated parts, sub-assemblies, drawings, product families, libraries and additional related design documents.

As these components of a design are used and re-used across projects, products and processes – the related data spreads uncontrolled all over the enterprise. The designs are often tough to find, with no way to ensure that a correct version is being used and most importantly, have no correlation with any enterprise system.

Solution

Customers who use Autodesk Inventor and Teamcenter Engineering/Teamcenter Express can now solve these problems using the Autodesk Inventor to Teamcenter Engineering/Teamcenter Express Connector.

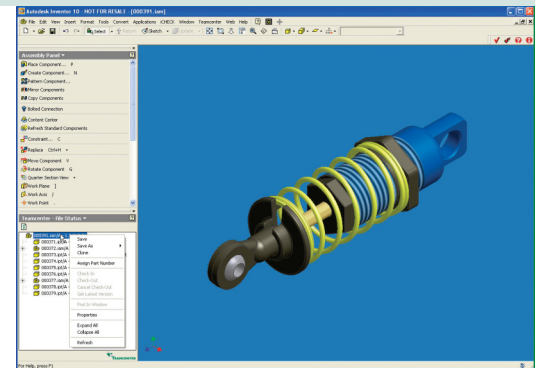
By using the Autodesk Inventor to Teamcenter Engineering/Teamcenter Express Connector, customers can:

- Manage design data inside the enterprise PLM system, from within Inventor
- Ensure that the Inventor designs are secure, re-usable and accessible across the enterprise
- Integrate Inventor designs into the enterprise vault and enterprise processes, such as release and change management

Key features and benefits

Easy to use from inside Inventor. Connector works inside Inventor, utilizing existing Inventor user interface, Inventor browsers and pop-up menus.

- Fast learning curve, as the intuitive interface is embedded within the Inventor interface
- Improved user acceptance because most tasks can be performed within their familiar CAD environment



Concurrent engineering. “File Status” and “Home” browsers (similar to the model browser in Inventor) are used to indicate current model status (checked in, checked out etc.) and provide search and direct access of data inside Teamcenter Engineering/Teamcenter Express.

- Intuitive tool-tips and icons provide indication of model status in a concurrent engineering environment
- Designers can easily and rapidly access data inside Teamcenter Engineering/Teamcenter Express from within Inventor

Work in process engineering. Connector is fully aware of all of the Inventor file types – iam, ipt, idw and ipn. These relationships are created and maintained inside Teamcenter Engineering/Teamcenter Express PSE.

- Automatically created and maintained relationships between various file types allow a designer to perform where-used and uses analysis, to assess potential impact of a change
- Audit, track history and access previous versions of your models

Automatic part numbering. Utilize existing part numbering enterprise schemas to assign part numbers. Assigned part numbers can also be configured to change the corresponding file names.

- Maintain your enterprise part numbering schemes by using integrated part numbering in the Connector, directly from Inventor
- Participate in release and change management processes

Find and re-use. Inventor integrated search allows a user to find a model inside Teamcenter Engineering/Teamcenter Express and directly open it inside Inventor

- Improve re-use and sharing of models by direct search from within Inventor
- Models inside Teamcenter Engineering/Teamcenter Express can be directly opened without leaving Inventor

Automatic JT translation and visualization. Inventor data gets automatically translated to industry standard JT format.

- Automatic creation of JT files allows universal viewing of Inventor design data

Two-way attribute transfer. Transfer Inventor properties into Teamcenter Engineering/Teamcenter Express or vice versa.

- Enforce corporate standards by utilizing two-way attribute transfer provided by the Connector

Easy to implement. Connector is built using Teamcenter Engineering/Teamcenter Express Application Interface Web Services (AIWS) architecture and PLMXML data exchange format.

- Open architecture allows easy integration with existing customizations
- Supports lightweight CAD client, requiring low maintenance and no need for a local portal install

Supported platforms

Client: Autodesk Inventor 9 or Autodesk Inventor 10

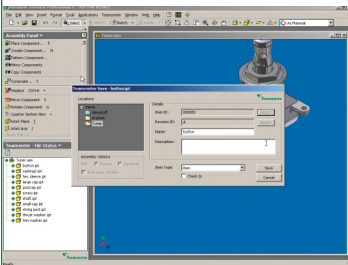
Operating System and Hardware: As determined by your Autodesk Inventor needs

Server: Teamcenter Engineering/Teamcenter Express 9.1.2 IRM 3 or later

Operating System and Hardware: All Windows platforms supported by Teamcenter Engineering/Teamcenter Express

For more information

Send email to iproducts@incat.com or visit www.incat.com/iproducts.



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