PTC®

PTC® **Windchill**® Workgroup Manager™ for CATIA® V5

Delivering the Power and Benefits of PTC Windchill to the CATIA V5 Environment

Designers can now perform everyday design tasks in their familiar MCAD environment while using PTC Windchill to manage CATIA V5 data throughout its lifecycle.

Managing CATIA V5 data within PTC Windchill allows you to capture and control your design information within a single enterprise environment, manage the data under a single product structure, and easily leverage that information across the extended organization in a controlled manner.

Key benefits
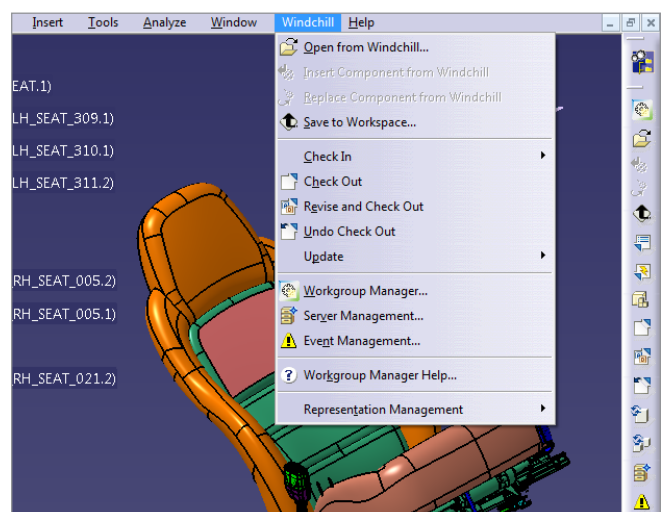
Improve collaboration

- Fully incorporate the use of CATIA V5 data in product development processes that span multiple organizations

- Extend the sharing of design data beyond engineering, departmental and corporate boundaries using standard Internet technology

Improve data quality

- Eliminate mistakes associated with duplicate or incomplete data by managing data from multiple MCAD and ECAD/EDA systems in a single, controlled location under the umbrella of a single product structure

- Centralize the management of business processes, such as change control

- Provide all relevant groups with accurate, up-to-date, product content information that's held in a single location

Improve engineer productivity

- Increase operating efficiency by reusing design data and reducing the number of design steps

- Embed PTC Windchill actions within the CATIA V5 application, enabling designers to focus on design activities rather than data management

- Minimize engineer interruptions by utilizing background processes to upload files to PTC Windchill, thus allowing designers to continue using CATIA V5 without having to wait for database actions to complete

Embedded PTC Windchill Workgroup Manager menu option within the CATIA V5 environment. CATIA V5 users can browse/search and open CATIA V5 models in PTC Windchill directly from CATIA V5.

Increase enterprise efficiency

- Reduce the number of product development systems by having one system that can manage multiple sources of data (e.g., different CAD and documentation formats)

- Enforce standard design processes across multiple design projects and organization

Features
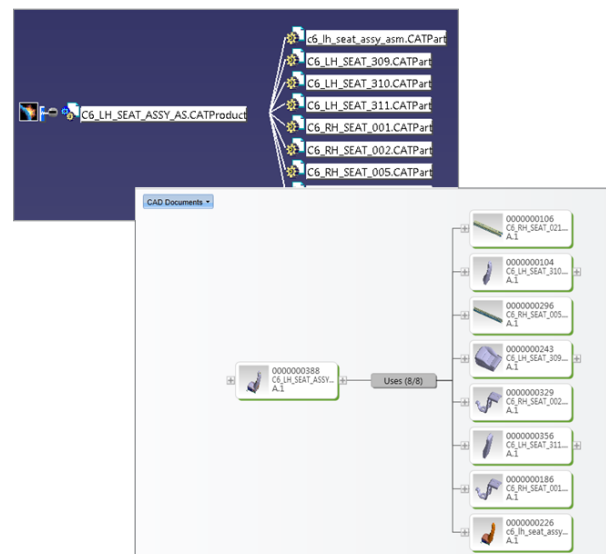
Support key CATIA V5 data and features

- Store the different CATIA V5 file types: Parts (.CATPart), Assemblies (.CATProduct), Drawings (.CATDrawing), Catalogs (.Catalog), Manufacturing Processes (.CATProcess) and Simulation/Analysis (.CATAnalysis) in PTC Windchill and recognize that these files were authored using CATIA V5

- Extract CATIA V5 links (CCP, KWE, Import, MML, Publications, View, Instance, etc.) between CATIA V5 documents, and expose these relationships in the PTC Windchill environment

- Recognize CATIA V5 Design Tables to represent part families and manage Design Table files (.XLS or .TXT) within the PTC Windchill environment

- Recognize CATIA V4 (.model) files used within CATIA V5 Assemblies (.CATProduct) and manage such CATIA V4 models within the PTC Windchill environment

- Support for CGR Cache Mode and manage CGRs for CATIA Assemblies (.CATProduct) when working with large assemblies within the PTC Windchill environment.

- Expose Mass and Physical Properties from CATIA V5 into the PTC Windchill environment to enable downstream cost and weight rollup.

- Extract Manufacturing information (product, process and resource) from CATProcess files and expose them for consumption in manufacturing process planning in PTC® Windchill® MPMLink®

- Support loading of design variants from PTC Windchill environment directly in the CATIA DMU Spa Analysis environment for perform clash and interference checks

Exchange attribute/property information between CATIA V5 files and the PTC Windchill environment

- Expose CATIA V5 attributes to PTC Windchill for searching purposes

- Make PTC Windchill attributes available within CATIA V5 for purposes such as displaying values on drawing borders and title blocks

- Allow CATIA V5 attributes to be edited in the PTC Windchill environment

- Reduce the amount of time designers spend entering information in CATIA V5 by having certain attributes, such as information on drawing borders, automatically populated by PTC Windchill

Integrate the CATIA V5 environment within PTC Windchill and its related enterprise processes

- Utilize PTC Windchill tools for managing CATIA V5 data within the product structure, development process and lifecycle

- Enable Check-In and Check-Out of named design baselines, latest configurations, or criteria such as latest released configuration or effectivity date

- Manage CATIA V5 data within the PTC Windchill engineering change management process

PTC Windchill Workgroup Manager for CATIA V5 extracts product structure and other document-to-document links in CATIA V5 and publishes them in the PTC Windchill environment.

PTC®

- Eliminate BOM redundancy and errors by synchronizing the enterprise BOM with the CATIA V5 structure

- Allow CATIA V5 data to be part of an enterprise BOM structure that can contain data from many different CAD systems

- Enable version control of CATIA V5 data to record complete traceability of changes and design development

- Enable concurrent development, as PTC Windchill can track all related activities and convey that information to other members of the design team

- Utilize status icons to quickly inform CATIA V5 designers and other users about the condition of CATIA V5 data within PTC Windchill

- Allow users to rename CATIA V5 designs in PTC Windchill and subsequently update the file relationships in CATIA V5

- Enable copying of CATIA V5 designs and structures in PTC Windchill and subsequently update the file relationships in CATIA V5

- Register multiple versions of CATIA V5 and intelligently load CATIA models in the appropriate CATIA V5 version

Embed PTC Windchill in the CATIA V5 application

- Open CATIA V5 files, stored in PTC Windchill, directly from CATIA V5

- Perform key PTC Windchill actions, such as Open, Check-In and Check-Out, directly from the CATIA V5 environment

- Inform CATIA V5 users on any relevant PTC Windchill events via pop-up messaging system

- Upload CATIA V5 files to the PTC Windchill database using background processes

- Use a comprehensive set of preferences to personalize and streamline your CATIA V5 interaction with PTC Windchill

Exchange and share design data in a collaborative environment

- Enable controlled sharing of CATIA V5 data across the enterprise

- Utilize generic visualization collaboration tools to provide visibility of CATIA V5 designs to the entire enterprise, regardless of whether users have access to or knowledge of CATIA V5

- Make CATIA V5 design data available to external audiences that have proper system access

Platform specifications

- Prerequisite: PTC® Windchill® PDMLink®, PTC® Windchill® ProjectLink™

- Operating Systems: Microsoft Windows® 7, Vista, and XP

- Browser: Internet Explorer® and Mozilla Firefox®

- Languages: English, Japanese, French, German, Korean, Simplified Chinese

For the most up-to-date platform support information, visit: PTC.com/partners/hardware/current/support.htm

NOTE: The timing of any product release, including any features or functionality, is subject to change at PTC's discretion.