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Enhancement Details

Pro/INTRALINK

[Document Management and Desktop Integration](#)

Windchill 10.0 brings some major enhancements to the usability of Windchill document management. In addition to streamlining the HTML user interface, Windchill 10.0 desktop integration dramatically improves and simplifies the creation and editing of Microsoft Office documents. A newly introduced extension to Windchill Desktop Integration allows users to view Windchill folders and interact with Windchill documents as a natural extension to their file system in the Windows explorer.

[Product Structure and Configuration Management](#)

Windchill PDMLink 10.0 provides significant enhancements in editing and viewing product structures within the browser environment. Additionally, there is a new filter capability providing robust configuration control to display interesting product configurations including by configuration specification, spatial location, and attributes. Further improvements are made in the areas of product structure compare and history display.

[Windchill 10.0 General Usability Improvements](#)

Windchill 10.0 incorporates a significant number of improvements that streamline any user's experience and make work within Windchill more efficient.

Enhancement Details

Windchill

[CAD Adapters for WWGM](#)

Windchill 10.0 introduces several enhancements to the Workgroup Managers for SolidWorks, NX, Autodesk Inventor and AutoCAD. These include enhancements to data import/export, the support for CAD document Soft Types and improved template and drawing support. In addition, specific functional improvements have been made to SolidWorks which include support for SolidWorks Toolbox, Virtual Components and Exclude from BOM.

[Change Management](#)

Change management in Windchill PDMLink 10.0 has been enhanced in several key areas, including improved flexibility in creating and sequencing change tasks, new and improved change reports, abilities to create problem reports and variances in projects, and updates to disposition capabilities.

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[Interference Detection and Management Services](#)

Windchill 10.0 offers a new optional module to detect, manage and report interferences in heterogeneous CAD products.

[Manufacturing Process Planning](#)

Windchill MPMLink 10.0 simplifies the BOM transformation process, improves process plan re-use and leverages part machining information from Creo Elements/Pro.

[Package Enhancements](#)

Work Packages have several new features for Windchill 10.0 – notably STAMP/TDP enhancements.

[Print Services](#)

Windchill 10.0 offers a new optional module to simplify the process of printing content from Windchill.

[Product and Project Interoperability](#)

Windchill ProjectLink 10.0 facilitates concurrent and design outsourcing in a collaborative environment.

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[Project Planning and Execution](#)

Windchill ProjectLink 10.0 provides more advanced planning capabilities to create robust and detailed project plans, resulting in improved interactions with Microsoft Project.

[Requirements Traceability](#)

Windchill RequirementsLink 10.0 continues to enhance core capabilities released with 9.1 M030 and introduces new features for improved productivity and user experience.

[Security Labels and Agreements](#)

Security labels and agreements have been enhanced to allow selection of a specific revision of an object covered by an agreement, a range of revisions, or all revisions within a specific beginning and ending date. Security labels and agreements have also been enhanced to allow extending an agreement to include related change objects of the primary object and the agreement effects.

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Business Reporting is a reporting framework that uses industry leading Cognos 8.4 Business Intelligence to increase information visibility and access for business decision makers and to help reduce reporting costs by providing users with the capability to quickly develop and distribute robust reports using your Windchill data.

[Windchill PLM Connector](#)

Windchill PLM Connector now has support for remote CAD adapters.

[Windchill Workgroup Manager for ECAD](#)

The ECAD Workgroup Managers now use the common Windchill Workgroup Manager framework used by other Workgroup Managers.

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Enhancement Details

Windchill Supplier Management

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Enhancement Details

Windchill Workgroup Manager for AutoCAD

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[Windchill 10.0 General Usability Improvements](#)

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[Windchill PLM Connector](#)

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Enhancement Details

Windchill Workgroup Manager for Autodesk Inventor

[CAD Adapters for WWGM](#)

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Enhancement Details

Windchill Workgroup Manager for CADDS 5

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[Windchill PLM Connector](#)

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Enhancement Details

Windchill Workgroup Manager for CATIA V5

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[Windchill PLM Connector](#)

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Enhancement Details

Windchill Workgroup Manager for ECAD

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[Windchill Workgroup Manager for ECAD](#)

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Enhancement Details

Windchill Workgroup Manager for Mathcad

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[Windchill PLM Connector](#)

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Enhancement Details

Windchill Workgroup Manager for SolidWorks

[CAD Adapters for WWGM](#)

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Enhancement Details

Windchill Workgroup Manager for UGS NX

[CAD Adapters for WWGM](#)

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Enhancement Details

2D Design

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Enhancement Details

3rd Party MCAD Data Management

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Enhancement Details

Access Control

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Enhancement Details

Change Processing

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Enhancement Details

Configuration management

[Product Structure and Configuration Management](#)

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Enhancement Details

Document Management

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Enhancement Details

ECAD Data Management

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Enhancement Details

Federation

[Windchill PLM Connector](#)

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Enhancement Details

Infrastructure

[Serviceability and Windchill Administration Improvements](#)

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Enhancement Details

Integrations

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Enhancement Details

Manufacturing Parts and BOMs

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[Windchill 10.0 General Usability Improvements](#)

Windchill 10.0 incorporates a significant number of improvements that streamline any user's experience and make work within Windchill more efficient.

Enhancement Details

Design Outsourcing

[Interference Detection and Management Services](#)

Windchill 10.0 offers a new optional module to detect, manage and report interferences in heterogeneous CAD products.

[Package Enhancements](#)

Work Packages have several new features for Windchill 10.0 – notably STAMP/TDP enhancements.

[Product and Project Interoperability](#)

Windchill ProjectLink 10.0 facilitates concurrent and design outsourcing in a collaborative environment.

[Project Planning and Execution](#)

Windchill ProjectLink 10.0 provides more advanced planning capabilities to create robust and detailed project plans, resulting in improved interactions with Microsoft Project.

[Windchill 10.0 General Usability Improvements](#)

Windchill 10.0 incorporates a significant number of improvements that streamline any user's experience and make work within Windchill more efficient.

[Windchill PLM Connector](#)

Windchill PLM Connector now has support for remote CAD adapters.

Enhancement Details

Detailed Design

[CAD Adapters for WWGM](#)

Windchill 10.0 introduces several enhancements to the Workgroup Managers for SolidWorks, NX, Autodesk Inventor and AutoCAD. These include enhancements to data import/export, the support for CAD document Soft Types and improved template and drawing support. In addition, specific functional improvements have been made to SolidWorks which include support for SolidWorks Toolbox, Virtual Components and Exclude from BOM.

[CAD Data Management and CAD Driven Product Structures](#)

Windchill 10.0 introduces several improvements to CAD data management with the primary focus on relating CAD data to part and product structures. Most notable improvements include increased flexibility when creating product structures from CAD and the introduction of enterprise top down design capabilities, allowing product structure edits to be pushed back into CAD.

[Document Management and Desktop Integration](#)

Windchill 10.0 brings some major enhancements to the usability of Windchill document management. In addition to streamlining the HTML user interface, Windchill 10.0 desktop integration dramatically improves and simplifies the creation and editing of Microsoft Office documents. A newly introduced extension to Windchill Desktop Integration allows users to view Windchill folders and interact with Windchill documents as a natural extension to their file system in the Windows explorer.

[Interference Detection and Management Services](#)

Windchill 10.0 offers a new optional module to detect, manage and report interferences in heterogeneous CAD products.

[Product Structure and Configuration Management](#)

Windchill PDMLink 10.0 provides significant enhancements in editing and viewing product structures within the browser environment. Additionally, there is a new filter capability providing robust configuration control to display interesting product configurations including by configuration specification, spatial location, and attributes. Further improvements are made in the areas of product structure compare and history display.

[Windchill 10.0 General Usability Improvements](#)

Windchill 10.0 incorporates a significant number of improvements that streamline any user's experience and make work within Windchill more efficient.

[Windchill Workgroup Manager for ECAD](#)

The ECAD Workgroup Managers now use the common Windchill Workgroup Manager framework used by other Workgroup Managers.

Enhancement Details

Manufacturing Outsourcing

Product and Project Interoperability

Windchill ProjectLink 10.0 facilitates concurrent and design outsourcing in a collaborative environment.

Project Planning and Execution

Windchill ProjectLink 10.0 provides more advanced planning capabilities to create robust and detailed project plans, resulting in improved interactions with Microsoft Project.

Enhancement Details

Manufacturing Process Management

[Manufacturing Process Planning](#)

Windchill MPMLink 10.0 simplifies the BOM transformation process, improves process plan re-use and leverages part machining information from Creo Elements/Pro.

[Product Structure and Configuration Management](#)

Windchill PDMLink 10.0 provides significant enhancements in editing and viewing product structures within the browser environment. Additionally, there is a new filter capability providing robust configuration control to display interesting product configurations including by configuration specification, spatial location, and attributes. Further improvements are made in the areas of product structure compare and history display.

[Windchill 10.0 General Usability Improvements](#)

Windchill 10.0 incorporates a significant number of improvements that streamline any user's experience and make work within Windchill more efficient.

Enhancement Details

Program Management

[Interference Detection and Management Services](#)

Windchill 10.0 offers a new optional module to detect, manage and report interferences in heterogeneous CAD products.

Enhancement Details

Requirements Capture & Management

[Requirements Traceability](#)

Windchill RequirementsLink 10.0 continues to enhance core capabilities released with 9.1 M030 and introduces new features for improved productivity and user experience.

Enhancement Details

Technical Information Creation & Delivery

[Document Management and Desktop Integration](#)

Windchill 10.0 brings some major enhancements to the usability of Windchill document management. In addition to streamlining the HTML user interface, Windchill 10.0 desktop integration dramatically improves and simplifies the creation and editing of Microsoft Office documents. A newly introduced extension to Windchill Desktop Integration allows users to view Windchill folders and interact with Windchill documents as a natural extension to their file system in the Windows explorer.

[Product Structure and Configuration Management](#)

Windchill PDMLink 10.0 provides significant enhancements in editing and viewing product structures within the browser environment. Additionally, there is a new filter capability providing robust configuration control to display interesting product configurations including by configuration specification, spatial location, and attributes. Further improvements are made in the areas of product structure compare and history display.

[Windchill 10.0 General Usability Improvements](#)

Windchill 10.0 incorporates a significant number of improvements that streamline any user's experience and make work within Windchill more efficient.

Enhancement Details

Variant Design & Generation

[Interference Detection and Management Services](#)

Windchill 10.0 offers a new optional module to detect, manage and report interferences in heterogeneous CAD products.

[Product Structure and Configuration Management](#)

Windchill PDMLink 10.0 provides significant enhancements in editing and viewing product structures within the browser environment. Additionally, there is a new filter capability providing robust configuration control to display interesting product configurations including by configuration specification, spatial location, and attributes. Further improvements are made in the areas of product structure compare and history display.

[Windchill 10.0 General Usability Improvements](#)

Windchill 10.0 incorporates a significant number of improvements that streamline any user's experience and make work within Windchill more efficient.

Enhancement Details

Verification & Validation

[Interference Detection and Management Services](#)

Windchill 10.0 offers a new optional module to detect, manage and report interferences in heterogeneous CAD products.

[Requirements Traceability](#)

Windchill RequirementsLink 10.0 continues to enhance core capabilities released with 9.1 M030 and introduces new features for improved productivity and user experience.

Enhancement Details

Document Management and Desktop Integration

Windchill 10.0 brings some major enhancements to the usability of Windchill document management. In addition to streamlining the HTML user interface, Windchill 10.0 desktop integration dramatically improves and simplifies the creation and editing of Microsoft Office documents. A newly introduced extension to Windchill Desktop Integration allows users to view Windchill folders and interact with Windchill documents as a natural extension to their file system in the Windows explorer.

Product Information

Product	Arbortext Content Manager Pro/INTRALINK Windchill Windchill PDMLink Windchill ProjectLink
PTC Support Release	10.0
Product Functional Area	Document Management Structured Content Management Windchill
User Interface Location	
Processes, Initiatives, and Best Practices	Detailed Design Technical Information Creation & Delivery

Benefits and Description

General document management improvements in HTML pages:

- The preference that controls document name uniqueness has been expanded to allow a customer to specify uniqueness within a folder or a context.
- Icons are provided for out-of-the-box document types.
- Document creation process has been streamlined by combining and optimizing the “New Document” and “New Document from Template” pages.
- Improved Document Structure browser now uses the same common component as the Part Structure browser.
- The check-in page displayed after editing document attributes has been simplified.
- A default file path value of “My Documents” is set out of the box. This preference defines the folder location where files will be downloaded from Windchill.

Improvements to Desktop Integration:

- By using Windchill Desktop Integration, users will see a much improved Windchill document management experience. For example, when a user downloads an office document they will be prompted for checkout as the document opens in a Microsoft Office application. When the user closes the document (or exits the Microsoft Office application), they will be prompted for check-in. This makes updating Windchill-managed documents a simpler, more streamlined operation.
- A new option is provided with Desktop Integration to allow the user to remove the local file following a successful check-in.
- When using Microsoft Office Applications, the user has access to Windchill folders using application menus such as File>Open (To open an existing document from Windchill), File>Save As... (To create a new Windchill document from the currently open document).

Windchill in Windows Explorer:

- New with Windchill 10.0 is a seamless integration with Windows Explorer. This allows the user to see Windchill as a location in “My Computer”, and to browse product, libraries, projects, and folders using familiar Windows Explorer techniques.
- Windchill files can be opened by double-click.
- Additional actions are available on a right-click mouse menu.
- Windchill attributes are shown in the Windows Explorer columns.
- New Windchill documents can be created by dragging from the desktop into Windows Explorer.

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Windchill Document Management

Enhancement Details

Product Structure and Configuration Management

Windchill PDMLink 10.0 provides significant enhancements in editing and viewing product structures within the browser environment. Additionally, there is a new filter capability providing robust configuration control to display interesting product configurations including by configuration specification, spatial location, and attributes. Further improvements are made in the areas of product structure compare and history display.

Product Information

Product	Arbortext Content Manager Pro/INTRALINK Windchill Windchill PDMLink Windchill ProjectLink
PTC Support Release	10.0
Product Functional Area	Configuration management Product Structure and BOM Management Product Structures, BOMs, and Configurations
User Interface Location	
Processes, Initiatives, and Best Practices	Change & Configuration Management Detailed Design Manufacturing Process Management Technical Information Creation & Delivery Variant Design & Generation

Benefits and Description

Key capabilities of Windchill PDMLink 10.0 includes the ability to:

- Edit and view part structures in the new HTML based Product Structure Browser (PSB):
 - View and edit product structures.
 - Update product structures with new and existing parts.
 - Edit part usage attributes in the Uses Tab.
 - ProductView embedded into the PSB allows visualization of the parts with cross selection highlighting and spatial filtering.
 - View and update related information such as documents, CAD documents, requirements and more.
 - Occurrences tab allows viewing and editing of Reference Designator and other occurrence specific information.
 - Ribbon-like toolbar organized around user needs.
 - Quickly find parts in the structure tree with Find in Structure search which highlights matches and gives quick navigation to the next or previous match.
 - Launch compare tools, reports, add to project, packages and more as well as create changes and promotion requests from PSB.
 - Configure display for user preference with 2 and 3 panel views and drag panels across views.
- Filter tool allows the creation of rich part configurations:
 - Create configuration specification filters with multiple levels to create real world configuration needs.
 - Filter product structures based upon spatial location (sphere or box filter) or proximity to a component.
 - Create filters based upon part and usage attributes.
 - Configuration, spatial and attribute filters are combined to create sophisticated filters for product structure.
- Timeline History Component:
 - Single graphical component that captures and displays maturity, revision, move, rename and save-as history.
 - Add filters to the timeline to see items based upon view, revision, date and text filters.
- Structure Compare:
 - Launch from PSB, information pages or folder browser.
 - Set the filter criteria for two parts being compared.
 - Compares difference in structures across levels of the structure.

- Differences between structures are highlighted by icon color as well as tooltips.
 - Differences in usage attributes, child parts, replacement parts, or if there is no equivalent part from one side to another.
 - Back and forward buttons allow easy navigation from one difference to the next.
 - Tabs in the structure compare tool also give more information on differences in part and usage attributes.
 - Visualization information is accessible to see the parts being compared as well.
- Integer Series:
 - Users can now create tailored Integer series for revisions schemes similar to Havard and Milspec series.
 - These are defined and managed in the wt.properties file
 - They can be applied to any Version controlled object with similar techniques to other available series.

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Product Structure Browser (PSB)



Structure Compare

Enhancement Details

Windchill 10.0 General Usability Improvements

Windchill 10.0 incorporates a significant number of improvements that streamline any user's experience and make work within Windchill more efficient.

Product Information

Product	Arbortext Content Manager Pro/INTRALINK Windchill Windchill Enterprise Systems Integration Windchill Integration for Rational ClearCase Windchill MPMLink Windchill PDMLink Windchill ProjectLink Windchill Supplier Management Windchill Workgroup Manager for AutoCAD Windchill Workgroup Manager for Autodesk Inventor Windchill Workgroup Manager for CADD5 5 Windchill Workgroup Manager for CATIA V5 Windchill Workgroup Manager for Mathcad Windchill Workgroup Manager for SolidWorks Windchill Workgroup Manager for UGS NX
PTC Support Release	10.0
Product Functional Area	Usability
User Interface Location	
Processes, Initiatives, and Best Practices	Change & Configuration Management Design Outsourcing Detailed Design Manufacturing Process Management Technical Information Creation & Delivery Variant Design & Generation

Benefits and Description

Windchill gets a major facelift in Windchill 10.0. The most immediately noticeable improvement is the modern, clean, and crisp color scheme and redesigned icons. Windchill 10.0 uses a sophisticated and dynamic widget set.

The next most noticeable feature is the Navigator component. Users have told us that they very seldom use the navigation links in the previous Windchill versions. So Windchill 10.0 gets them out of the way. Navigation and Search are now performed in the Navigator. This will make the search results always available: users don't need to hit the browser back-button, causing the search to be re-executed, in order to go back to the search results.

Next are the table improvements. Tables are a major data presentation component in and Windchill 10.0 significantly improves their usability and functionality:

- Tables never overflow the page. If a table has more columns than can fit in the browser page, you will use the table's horizontal scrollbar to see those columns.
- The table view dropdown menu is always in view.
- Create views more dynamically by hiding, resizing, and shifting columns then click "Save As View".
- Scrolling rather than paging, as scrolling is more natural for users. Significant performance improvements were added in order to make scrolling possible. (*Note: Windchill will resort to paging after a few thousand rows of data.*)
- Tables will size themselves to the available space. That is, tables will grow and shrink (to display more or less rows) to fit the vertical space available on the page.
- "Find in Table" and "Find in Tree" allow users to quickly find data in large data sets. These allow users to display only those rows that match the criteria that they type in the filter box.

Other improvements include:

- Breadcrumbs: Placed above the page's content area, breadcrumbs orient users as to where they are in the application.
- Header and Footer: To declutter the UI and provide more vertical real estate, the page footer was removed and

- all the header links have been consolidated into the **Quick Links** menu.
- To make it clearer for the user and the system what to search on, a search type dropdown menu is added to the Windchill 10.0 header.
- The Search UI is significantly streamlined and modernized.
- Windchill 10.0 provides a **Search History and Saved Searches** page. This page shows a list of the recently executed searches and the list of the user's saved searches.

Multimedia

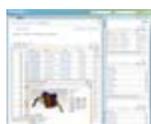
Images



Usability Improvements



Windchill 10.0 User Interface



Windchill 10.0 User Interface: Thumbnail Navigator

Enhancement Details

CAD Adapters for WWGM

Windchill 10.0 introduces several enhancements to the Workgroup Managers for SolidWorks, NX, Autodesk Inventor and AutoCAD. These include enhancements to data import/export, the support for CAD document Soft Types and improved template and drawing support. In addition, specific functional improvements have been made to SolidWorks which include support for SolidWorks Toolbox, Virtual Components and Exclude from BOM.

Product Information

Product	Windchill Windchill PDMLink Windchill ProjectLink Windchill Workgroup Manager for AutoCAD Windchill Workgroup Manager for Autodesk Inventor Windchill Workgroup Manager for SolidWorks Windchill Workgroup Manager for UGS NX
PTC Support Release	10.0
Product Functional Area	Windchill
User Interface Location	
Processes, Initiatives, and Best Practices	Detailed Design

Benefits and Description

- **Data Exchange - Import/Export Workspace** - Users who want to import assemblies, drawings, parts and their dependents are now able to perform this functionality within the context of the Workgroup Manager without needing to explicitly open the data in the CAD application. This provides a quick and efficient method for getting content into and out of the WWGM environment without having to write a package file. Note that the import process does require access to the CAD application in order to extract CAD metadata for import.
- **CAD Document Soft Types** - Windchill Workgroup Managers now support soft types of CAD documents, allowing customers to define meaningful sets of attributes for different types of CAD data (for example, forging vs. casting, mechanical vs. electrical).
- **Functional WWGM API** - Users will have the ability to perform basic Windchill commands in a programming environment. Commands such as check-in and check-out will be part of this functional offering.
- **Create New CAD Doc from HTML User Interface using a Template** - This feature allows users to create CAD documents using templates representative of the CAD application. To create a new CAD document the user can either create it from within the HTML user interface or through traditional means within the authoring CAD application.
- **Support for SolidWorks Toolbox** - Continuation of SolidWorks Toolbox support in Windchill 10.0. Improvement in conflict handling for Toolbox parts that pre-exist in the Windchill environment.
- **Support for SolidWorks Virtual Components** - New capability that allows dependents within a virtual assembly to be excluded from Windchill. Previously virtual component parts were exposed when created and stored within a virtual assembly.
- **SolidWorks Support for "Exclude from BOM"** - This new capability provides support for the SolidWorks Exclude from BOM feature. When the user enables this option within SolidWorks any assembly and its dependents (or component) will be omitted from the Windchill Part Structure.

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Exclude from BOM

Enhancement Details

Change Management

Change management in Windchill PDMLink 10.0 has been enhanced in several key areas, including improved flexibility in creating and sequencing change tasks, new and improved change reports, abilities to create problem reports and variances in projects, and updates to disposition capabilities.

Product Information

Product	Windchill Windchill PDMLink Windchill ProjectLink
PTC Support Release	10.0
Product Functional Area	Change Processing Windchill
User Interface Location	
Processes, Initiatives, and Best Practices	Change & Configuration Management

Benefits and Description

Key capabilities of Windchill PDMLink 10.0 includes the ability to:

- Sequence change tasks. Tasks can be sequenced so that some tasks will only start after tasks in the previous sequence are finished. This allows changes to follow a more logical timing based upon work completion. (This capability requires that Windchill ProjectLink is installed.)
 - Sequencing is supported for both normal and revised change notices.
 - Support is added for updating the order of change tasks that are both revised and unrevised.
 - Controlled by a preference setting.
- Create change tasks without assigning an assignee or reviewer at creation. There is a preference which defines at which life cycle state these must be populated.
- Allow reviewer to be optional on change tasks. This is controlled by a preference setting.
- Promotion Request simplification with 50% reduction in steps to create a promotion request.
 - Additional data can be added to the promotion request through **Paste** or **Add Items** action as well as through the collector.
 - Promotion Requests now support soft types and soft attributes.
 - Promotion Request link is displayed on **Authorization / Released On** column of **Version History** table (of the object being promoted).
- Disposition now has three disposition fields out-of-the box including On Order, Work-In-Process and Finished. Values for these fields are controlled by the type manager and can be unique for each field. Fields can be added or removed through customization support for those needing more or less disposition fields.
- Change notice summary report enhancements include signatures and related changes. Summary reports are also added for all other change types. Reports are now easily accessed from the Actions pull down for all change types.
- Implementation status report for a change notice gives a report of all change tasks with details for **Assignee**, **Reviewer**, **State** and more.
- Pending change indicator updated for improved performance.
- Related Work items table added for changes that enable views of child change objects as well as any related workflow tasks for the parent and the children.
 - Workflow tasks can be reassigned from this table as well.
- Affected end items tables and window steps can be disabled through a preference setting if not used.
- Mass change supports adding and removing documents to parts. Link type is respected and selection method depends on preference value for part to document association logic. Filtering by view is also supported.
- Problem reports and variances (deviation and waiver) can be created in the scope of a project.

- Ability to create in a project is preference controlled.
- Can be tied back and closed out by a **Change Request** in a product or library.
- Affected items added to these must be shared from a product or library.

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Change Notice

Enhancement Details

Interference Detection and Management Services

Windchill 10.0 offers a new optional module to detect, manage and report interferences in heterogeneous CAD products.

Product Information

Product	Creo Elements/View Windchill Windchill PDMLink
PTC Support Release	10.0
Product Functional Area	Product Structures, BOMs, and Configurations Structured Content Management
User Interface Location	
Processes, Initiatives, and Best Practices	Change & Configuration Management Design Outsourcing Detailed Design Program Management Variant Design & Generation Verification & Validation

Benefits and Description

Windchill 10.0 offers a new optional module to automate the process of detecting, managing and reporting interferences in 3D product models.

Key enhancements and features include:

Define interference job - The user can define the parameters of the interference test, prior to submission. This includes:

- Interference check type: clearance checks and interference checks.
- Tolerance values on the interference check.
- Input data definition - which CAD models are to be checked.
- Grouping definitions - enables the interference checking of sub-partitions of the CAD model against each other. For example, check for interferences between electrical and steelwork models.
- Scheduling - define the time and recurrence frequency of executing the interference job.

Automated job queuing and execution - Interference jobs submitted to the system are automatically queued and passed to an available "interference worker" (a batch mode invocation of Creo Elements/View) when one becomes available.

Dynamic groups - Search groups and dynamic groups enable the automatic population and creation of component and assembly groupings on the basis of meta-data or product structure hierarchy. This enables the definition of interference jobs to be resilient to changes in work in progress models (components being added or removed). The grouping definitions also enable the ongoing support for interference checking of configurable product structures, including the use of expansion criteria to support options and variants.

Scalable architecture - The use of "Interference Workers" which are separate to, but communicate with, the Windchill server providing a flexible environment to address interference checking throughput needs. As desired throughput grows, more interference workers can be added to the system.

Support for heterogeneous CAD models - The interference detection subsystem provides interference checking upon the compact and accurate Creo Elements/View viewable 3D objects. These can be published from a variety of CAD packages by means of the Creo Elements/View adapters; enabling the processing of heterogeneous CAD models.

Report navigation - Users can easily and graphically navigate the interference report directly from the Windchill user interface, enabling rapid understanding of the interference check results.

Integration with Creo Elements/View - Users of Creo Elements/View benefit from a rich interaction between the desktop application and the interference content managed in Windchill.

Interference report comparison - Interference reports can be compared to understand which interferences still exist, which are new and which have been resolved.

Assignment of interference resolution tasks - Users can assign interference resolution tasks to team members to enable subsequent actions. The recipient of the task can view their list of "Assigned Interferences". Additionally, there is a customization entry point to enable customer-specific logic to automatically assign the interference task to the appropriate recipient.

Support for configuration specifications and expansion criteria - The interference job definition enables the use of configuration specifications and predefined expansion criteria in order to check a configurable product for interferences and clearance violations.

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Windchill Interference Detection and Management Services

Enhancement Details

Manufacturing Process Planning

Windchill MPMLink 10.0 simplifies the BOM transformation process, improves process plan re-use and leverages part machining information from Creo Elements/Pro.

Product Information

Product	Windchill Windchill MPMLink Windchill PDMLink
PTC Support Release	10.0
Product Functional Area	Manufacturing Parts and BOMs Manufacturing Process and Resource Management Manufacturing Process Plans Windchill
User Interface Location	
Processes, Initiatives, and Best Practices	Manufacturing Process Management

Benefits and Description

Windchill MPMLink 10.0 continues to provide core capabilities that enable the rich definition of manufacturing deliverables.

Key capabilities of Windchill MPMLink 10.0 includes the ability to:

- Expose part machining information to Windchill MPMLink. This includes not only exposing the part machining steps but also related resources and time and cost breakdowns.
- Define and manage complex manufacturing deliverables based on the ATO model. This includes the propagation of critical ATO information from the eBOM to the mBOM and finally to the process plan.
- Enable process plan reuse by supporting part allocations from multiple assemblies to one Process Plan and multi-level BOM allocation
- Streamline BOM transformation process with the introduction of a new "dual structure editor" and new "shortcut" actions for most common tasks.
- Reconcile and propagate changes from the eBOM to the mBOM reducing non-conformity error.
- Print the work instruction for shop-floor users and off-line viewing.

Enhancement Details

Package Enhancements

Work Packages have several new features for Windchill 10.0 – notably STAMP/TDP enhancements.

Product Information

Product	Windchill Windchill PDMLink Windchill ProjectLink
PTC Support Release	10.0
Product Functional Area	Performance, Import/Export, and Replication Work Packages
User Interface Location	
Processes, Initiatives, and Best Practices	Design Outsourcing

Benefits and Description

Windchill 10.0 package enhancements:

- Export only sharing of most business objects
- Extensible package types with OOTB options:
 - Configurable behavior by type
 - Supplier and Customer default types
- Enhanced collection and filtering:
 - Approved, unincorporated changes
 - Security label values
 - Next higher assembly
 - Depth control
 - Black Box
 - Specified exclusions
- Change Objects as seed objects
- Customizable static manifest file
- Improved package attachments
- Improved delivery capabilities:
 - File chunking for media based delivery
 - Recipient specific security filtering when creating delivery .zip files
 - Delta packages that deliver only changes from a previous reference package
 - Depth control
 - Black Box Filter, allowing you to pick a top-level object but not include child objects in the structure
 - Specified exclusions

Enhancement Details

Print Services

Windchill 10.0 offers a new optional module to simplify the process of printing content from Windchill.

Product Information

Product	Windchill Windchill PDMLink Windchill ProjectLink
PTC Support Release	10.0
Product Functional Area	Visualization
User Interface Location	
Processes, Initiatives, and Best Practices	

Benefits and Description

Windchill 10.0 offers a new optional module to streamline the process of printing Windchill content on enterprise printers.

Key enhancements and features include:

Define print job - The user can define which content is to be sent to which printer.

Simplified data collection - The user can easily "collect" the content to be sent to the printer using standard Windchill mechanisms, such as all drawings associated with an assembly.

Automated job queueing and execution - Print jobs submitted to the system are automatically queued and passed to an available "print worker" (a batch mode invocation of Creo Elements/View) when one becomes available.

Import printer definitions into Windchill - The Windchill administrator can provide printer definitions to Windchill to enable subsequent use of the printers from the Windchill user interface. The printer definition includes printer name, color support, paper size (for example A3), which file types may be printed on this printer, and default scale. This also enables the definition of the default printer to use for different data types. For example, "JPEG images are to be sent to Printer X".

Automated drawing size and orientation extraction - When CAD drawings are published with the appropriate Creo Elements/View CAD adapter, the size and orientation of the drawing are extracted in order to subsequently send them to an appropriate printer (in the appropriate printer mode), when submitted for printing.

Scalable architecture - The use of "print workers" which are separate to, but communicate with, the Windchill server provides a flexible environment to address growing printing throughput needs. As desired throughput grows, more print workers can be added to the system.

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Windchill Print Services

Enhancement Details

Product and Project Interoperability

Windchill ProjectLink 10.0 facilitates concurrent and design outsourcing in a collaborative environment.

Product Information

Product	Windchill Windchill PDMLink Windchill ProjectLink
PTC Support Release	10.0
Product Functional Area	Windchill
User Interface Location	
Processes, Initiatives, and Best Practices	Design Outsourcing Manufacturing Outsourcing

Benefits and Description

Key capabilities of Windchill ProjectLink 10.0 includes the ability to:

- Check-out design data multiple times to multiple projects facilitating alternative design proposals.
- Identify and resolve potential identity conflicts in the project for CAD documents before sending them to PDM. Tools are provided to resolve the conflicts by renaming the CAD document or overriding the project CAD document by the PDM content.
- Clearly see from the object information page all the projects and folders location where an object is shared, checked-out, sent to PDM, superseded, or abandoned.
- Optionally provide a visual indication when a shared object is out of date.
- Allow selective update of out-of-date objects in a project folder.
- Create a baseline in a project.

Enhancement Details

Project Planning and Execution

Windchill ProjectLink 10.0 provides more advanced planning capabilities to create robust and detailed project plans, resulting in improved interactions with Microsoft Project.

Product Information

Product	Windchill Windchill ProjectLink
PTC Support Release	10.0
Product Functional Area	Project Management and Execution Project Plans
User Interface Location	
Processes, Initiatives, and Best Practices	Design Outsourcing Manufacturing Outsourcing

Benefits and Description

Windchill ProjectLink 10.0 continues to provide core capability for project planning and execution. ProjectLink Enhance Project Planning capability released with 9.1 MO30 provided customers with better tools for detailed project management and better compatibility with Microsoft Project and has become the default for project plan creation and execution with this release. However, based on your project template selection you will still be able to create and execute project plans using the "classic" Windchill ProjectLink scheduling approach.

Key capabilities of Windchill Projectlink 10.0 include the ability to:

- Create activity and milestone descriptions.
- Define milestones with multiple associated deliverables, including the option to link deliverable completion to activity completion.
- Subscribe to an activity, milestone, and deliverable.
- Automatically execute project plan, with an email notification mechanism to resources when an activity become active. This is similar to the "auto-execution with task" process in the "classic" project planning tool of ProjectLink.
- Define activity with date constraints, such as start date, end date and deadline.

Enhancement Details

Requirements Traceability

Windchill RequirementsLink 10.0 continues to enhance core capabilities released with 9.1 M030 and introduces new features for improved productivity and user experience.

Product Information

Product	Windchill Windchill MPMLink Windchill PDMLink Windchill ProjectLink
PTC Support Release	10.0
Product Functional Area	Windchill
User Interface Location	
Processes, Initiatives, and Best Practices	Requirements Capture & Management Verification & Validation

Benefits and Description

Key enhancements and features include:

- **User Interface Enhancements** - This enhancement streamlines and simplifies the creation of requirement objects through the updated user interface. In addition, users can now import requirements authored in Microsoft Word directly to a specified folder and use spell checker in editor
- **Support for Images through Microsoft Word Import** - This enhancement allows users to include images along with rich text description through Microsoft Word import.
- **Multi-Select Save-As on Requirements** - Users can select requirement objects from across multiple specifications and folders, and duplicate them by using the save-as operation. This includes the ability to save requirements directly into a new or existing specification or folder. In addition, users can collect any upstream/downstream requirements during the save-as process.
- **Establish Multiple Traceability** - Users can create multiple traceability links between objects managed across specifications, collections, and product structures. Includes ability to create different kinds of trace links and automatic checks for traceability constraints, allowing users to only create links that are permissible.
- **Specification Templates** - This feature allows users to create new specification template and save existing specification as a template. The template can be enabled, disabled or hidden in a context.
- **Offline Package Viewer** - This feature allows users to create a package containing requirements and specifications for offline viewing. The package maintains specification structure and includes a simplified information page with active hyperlinks for quick online access.
- **RequirementsLink COGNOS reports** - This includes addition of new report to generate full description on specification including upstream and downstream links. Existing traceability reports is also enhanced to include capability to generate reports between two sets of objects managed in a specification, collection or product structure.
- **Flowdown to MPMLink Objects** - This enhancement allows users to create trace links to MPMLink objects (process plans, sequence, operations, and manufacturing capabilities).
- **Routing support for Requirements in Project** - Users can use Windchill ProjectLink routing capabilities for review and approval of requirement objects.

Multimedia

Images



Windchill RequirementsLink

Enhancement Details

Security Labels and Agreements

Security labels and agreements have been enhanced to allow selection of a specific revision of an object covered by an agreement, a range of revisions, or all revisions within a specific beginning and ending date. Security labels and agreements have also been enhanced to allow extending an agreement to include related change objects of the primary object and the agreement effects.

Product Information

Product	Windchill Windchill PDMLink Windchill ProjectLink
PTC Support Release	10.0
Product Functional Area	2D Design Access Control
User Interface Location	
Processes, Initiatives, and Best Practices	

Benefits and Description

In previous Windchill releases an agreement allowed access to all revisions on an object. In Windchill 10.0, agreements administrators have the ability to select only specific revisions or a range of revisions. This enables agreements administrators to restrict access to earlier design revisions of an object that they may not want an agreement to allow access to while allowing access to a later revision. Agreements administrators can also select a date range instead of a specific revision. For example, if the initial "released" revision of an object became available July 1, 2010, an agreements administrator could select that as the starting date, allowing access to the initial released and subsequent revisions of the object. All revisions prior to the July 1, 2010 date would be restricted.

Also, agreements administrators now have the option to automatically extend an agreement to cover related change objects. Prior to Windchill 10.0, a user had to explicitly include any or all related change objects into the agreement. By optionally allowing the agreements administrator to extend coverage to related changes, the process of finding the appropriate related changes is simplified, is much faster, and is less error prone. If desired, the agreements administrator can still explicitly include a related change as well.

Enhancement Details

Serviceability and Windchill Administration Improvements

Several new features are coming together to support simplified Windchill administration with an emphasis on the ability to service the Windchill product if necessary.

Product Information

Product	Windchill Windchill PDMLink Windchill ProjectLink
PTC Support Release	10.0
Product Functional Area	Infrastructure Installation and Administration
User Interface Location	
Processes, Initiatives, and Best Practices	

Benefits and Description

Windchill 10.0 has taken several strides forward in providing a more serviceable experience for system administrators. Some of these notable improvements are:

- With the System Configuration Collector, you can now gather all information necessary to assist in troubleshooting the issues that one might encounter in the administration of Windchill. Easily upload the relevant information to Technical Support, or remove business-sensitive information prior to uploading it.
- The System Static Configuration tool (Windchill Configuration Assistant) allows you to propagate more sensible settings for Windchill configuration parameters.
- All the passwords in property files are encrypted while causing no change in application behavior.
- In Windchill 10.0, we now have the option of storing key monitoring metrics in the database at a pre-defined sampling rate enabling better monitoring and troubleshooting. These metrics are also displayed in historical trend charts on the **Server Status** page and can also be exported out of the database for further analysis if required.
- There are several new operations available for the Vaulting and Replication MBeans. These MBean operations can be configured to send notifications on conditions such as vault overflow, folder count reaching maximum limit, root folder getting full and, vault status changes (such as offline, read-only).
- With Windchill 10.0, we have now Embedded Tomcat in the Methodserver. This results in increased performance and simplified Windchill deployment (one less component to deploy).

Enhancement Details

Windchill Business Reporting

Business Reporting is a reporting framework that uses industry leading Cognos 8.4 Business Intelligence to increase information visibility and access for business decision makers and to help reduce reporting costs by providing users with the capability to quickly develop and distribute robust reports using your Windchill data.

Product Information

Product	Arbortext Content Manager Windchill Windchill PDMLink Windchill ProjectLink
PTC Support Release	10.0
Product Functional Area	Infrastructure Installation and Administration Reporting
User Interface Location	
Processes, Initiatives, and Best Practices	

Benefits and Description

There are a number of exciting new features for reporting in Windchill10.0.

The most noticeable additions have been to the Reporting Infrastructure capability. You, as users, have asked for enhancements to QueryBuilder and other underlying reporting infrastructure and we have delivered the following with Windchill10.0:

- Instead of writing a jsp to leverage the java method and do programmatic post-processing (joins etc) outside of Windchill, you can use java methods directly in QueryBuilder, leveraging any java method someone might have shared with you at a community site or that you may have authored for a specific query.
- You can do sub-selects on existing report templates (QueryBuilder queries) or do a join of report templates in QueryBuilder. This allows you to leverage existing report templates (to avoid proliferating existing Report Templates) or do a join of existing report templates in your system.

In addition, there are enhancements to the Windchill Business Reporting (Cognos) framework. The most notable of these enhancements relates to Import/Export of Cognos based reports which simplifies moving a report across systems (for example, from development to testing to production). With Windchill10.0, you do not need to worry about exporting all of the Info*Engine tasks or QueryBuilder queries (with their dependencies) and relevant Cognos based report specification. Similarly, importing a report zip file updates the QueryBuilder queries and Info*Engine tasks, as well as the Cognos model and report specification.

Other improvements include:

- Simplified Administration – The reports on the Cognos page can now be organized in folders on the Windchill Business Reporting page.
- Report layouts in sync with modern, clean and crisp color and user interface scheme for Windchill 10.0.
- Several performance enhancements in Windchill-Cognos integration, all of which benefit users who have huge reports with large result sets.
- Windchill Business Reporting now includes latest version of Cognos BI solution from IBM (Cognos8.4.1). This newer version of Cognos is certified for latest platforms (browsers, server OS) and has enhanced portal support.
- Windchill10.0 has several new out-of-the-box reports including dashboard and monitor reports in the areas of change management, Windchill MPMLink, Windchill RequirementsLink and Windchill ProjectLink.

Multimedia

Images



Windchill Business Reporting

Enhancement Details

Windchill PLM Connector

Windchill PLM Connector now has support for remote CAD adapters.

Product Information

Product	Windchill Windchill PDMLink Windchill Workgroup Manager for AutoCAD Windchill Workgroup Manager for CADD5 5 Windchill Workgroup Manager for CATIA V5 Windchill Workgroup Manager for ECAD Windchill Workgroup Manager for Mathcad Windchill Workgroup Manager for SolidWorks Windchill Workgroup Manager for UGS NX
PTC Support Release	10.0
Product Functional Area	Federation Integrations
User Interface Location	
Processes, Initiatives, and Best Practices	Design Outsourcing

Benefits and Description

Windchill PLM Connector for Windchill 10.0 supports remote CAD adapters including:

- Export assemblies: full and partial export
- Import assemblies: full and partial import

Enhancement Details

Windchill Workgroup Manager for ECAD

The ECAD Workgroup Managers now use the common Windchill Workgroup Manager framework used by other Workgroup Managers.

Product Information

Product	Windchill Windchill PDMLink Windchill ProjectLink Windchill Workgroup Manager for ECAD
PTC Support Release	10.0
Product Functional Area	ECAD Data Management Structured Content Management Windchill
User Interface Location	
Processes, Initiatives, and Best Practices	Detailed Design

Benefits and Description

Windchill 10.0 continues to provide capabilities to support ECAD Data Management in Windchill.

Improvements in Windchill 10.0:

- In Windchill 10.0, the ECAD Workgroup Manager is updated to use the Windchill Workgroup Manager common framework and the earlier Java-based client is now retired.
- The Windchill Workgroup Manager has been enhanced to support the following ECAD applications:
 - **Cadence:** Desing Entry HDL, Design Entry CIS (OrCAD CIS), Allegro PCB Editor, Allegro APD
 - **Mentor Graphics:** BoardStation XE, Expedition Enterprise, Design Capture, PADS Logic and PADS Layout
 - **Zuken:** CR5000 SD/BD, Design Gateway support is planned for an MOR
 - **Altium:** Summer/Winter 2009 release
- ECAD Data Management now utilizes workspaces and a client cache.
- ECAD Authoring tools can be invoked from the Windchill Workgroup Manager user interface.
- Improved BOM management in support of HDIC and TDD.
- Improved support for Design Variant BOMs.
- Hooks are now tied to actions rather than process.
- New user interface window to create ECAD design content holders in Windchill in support of common ECAD business processes.
- Out of the box ECAD EPM Documents and WTPart types in support of ECAD business processes.

Multimedia

Images



ECAD Demo

Enhancement Details

Workflow Process Administration Utility

A new workflow process administration utility simplifies the administrative effort for finding, tracking and troubleshooting workflow processes in your Windchill Systems.

Product Information

Product	Windchill Windchill PDMLink Windchill ProjectLink
PTC Support Release	10.0
Product Functional Area	Infrastructure Workflow/Teams/Lifecycles
User Interface Location	
Processes, Initiatives, and Best Practices	

Benefits and Description

In the past administrators were not able to easily find or fix workflow problems. To do so required system-level knowledge of queues and access at the organizational level of Windchill. It also required administrators to visit each container to find all the problematic processes. In Windchill 10.0 any product or project owner can find workflow processes and inspect their health in one click. There is no need to have system-level knowledge of queues or requirements. For those with organization or site-level access controls, they can find all workflow processes across the entire Windchill system in one view.

Enhancement Details

CAD Data Management and CAD Driven Product Structures

Windchill 10.0 introduces several improvements to CAD data management with the primary focus on relating CAD data to part and product structures. Most notable improvements include increased flexibility when creating product structures from CAD and the introduction of enterprise top down design capabilities, allowing product structure edits to be pushed back into CAD.

Product Information

Product	Windchill PDMLink Windchill ProjectLink
PTC Support Release	10.0
Product Functional Area	3rd Party MCAD Data Management Pro/ENGINEER Data Management Structured Content Management Windchill
User Interface Location	
Processes, Initiatives, and Best Practices	Detailed Design

Benefits and Description

Support for multiple CAD Document Soft Type definitions (also supported by Pro/INTRALINK):

- Ability to manage attributes at a more granular level
- Easily allow documents created for different disciplines to follow specific processes
- Map CAD authoring applications to specific CAD document type definition
- Map CAD document soft type to Part type definition to be applied by association rules

Introduction of structure compare tool - for comparing related CAD and Part structures. Side-by-side comparison user interface to view and understand difference between a CAD assembly structure and its related product structure:

- Status notification where differences exist
- Navigation tools to easily traverse large assembly structures
- Reporting tabs to provide further information for selected rows, reporting detailed uses information, related CAD/Part information, and attributes

Flexibility in editing CAD driven Product Structures - allowing users to make edits to CAD driven part structures to address known differences between the driving design data and the desired as-designed product structure, including the following capabilities:

- Editing of quantities for built parts in the product structure
- Deleting unwanted parts from the built structure
- Introduction of gathering part concept
- New simplified association user interface for creating and editing CAD to Part associations in the workspace

Introduction of Top Down Design Capabilities - Supporting the editing and creation of part structure and the ability to drive these changes into related design assemblies, including the following capabilities:

- Create New part with Added option for creation of related CAD document based on defined templates
- Editing of CAD driven Part structures including the ability to Add/Remove parts from structure
- Structure compare support - compare part structure edits to related CAD data:
 - Providing difference information
 - Selective build actions to update owner associated CAD assemblies
- The ability to build top down: pushing product structure changes to assembly edits
- Downstream retrieval of Windchill edit (top down) CAD assemblies
- Top Down Design is supported by the following CAD authoring applications:
 - Creo Elements/Pro 5.0
 - Catia V5
 - NX

