

PTC®

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**PTC Windchill® What's New**  
PTC Windchill 10.2 M030

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## About This Guide

This document summarizes the new and changed functionality in PTC Windchill 10.2 M030. There are four main categories, each containing entries with easily scannable titles, the product or products that are affected, and a concise benefit statement denoting the value of each change or new feature.

For more detailed information regarding how these features and changes are implemented, see the 10.2 M030 section of the *PTC Windchill New and Changed for This Release* in the PTC Windchill Help Center.

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### Note

Numerous enhancements have been made to the *PTC Windchill What's New* documentation. The topic format is cleaner and more streamlined, and topic titles have been improved for scanability in the table of contents. We have also added a benefits statement in each topic that tells you right away how the functionality benefits your site. To provide feedback on these enhancements or share additional ideas for improvement, send an email to [documentation@ptc.com](mailto:documentation@ptc.com).

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This section of the PTC Windchill 10.2 M030 *PTC Windchill New and Changed for This Release* contains changes that are relevant to administrators who deploy and configure the target system.

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## AddColumns Tool Enhancements

Product: PTC Windchill

### Benefit

The AddColumns tool now provides more detailed reporting of the current standard attribute column configuration in the system, as well as a simplified means for correcting any inconsistencies found.

## Business Administrative Change Promotion Utility

Product: PTC Windchill

### Benefit

Automates the repetitive and tedious task of manually managing and promoting administrative changes from a test or pre-production PTC Windchill system to a production PTC Windchill system. Allows PTC Windchill administrators to review a report of administrative object changes during a specific time period.

## CAPA Functionality Enhancements

Product: PTC Windchill PDMLink, PTC Windchill Quality Solutions, PTC Windchill CAPA

### Benefit

Several new features to enhance the way actions are handled throughout the lifecycle of a CAPA.

## Customer Experience Functionality Enhancements

Product: PTC Windchill PDMLink, PTC Windchill Quality Solutions, PTC Windchill Customer Experience Management

### Benefit

Track failure modes and effects, as well as edit an object, without affecting the workflow. Updated labels reflect the correct customer experience terminology.

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## Customize Drag-and-Drop Targets

Product: PTC Windchill

### Benefit

Supports action windows that include more than one possible drop zone.

## Deprecated APIs Removed

Product: PTC Windchill

### Benefit

PTC Windchill functionality that was previously only available via customization is now part of the out-of-the-box product.

## Document Management: ZIP File Size Control

Product: PTC Windchill

### Benefit

Administrators can limit how many documents can be uploaded at one time through the **Upload Documents from Compressed File** action.

## Enumeration Access for Non-Administrative PTC Windchill PartsLink Users

Product: PTC Windchill PartsLink

### Benefit

Non-administrative PTC Windchill PartsLink users can now be granted access to manage global enumerations and enumeration organizers in the **Type and Attribute Management** utility.

## Failure Modes and Effects in Quality Management

Product: PTC Windchill PDMLink, PTC Windchill Quality Solutions

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## Benefit

Create lists of failure modes and effects, and then associate them with various parts in the system. Add failure modes and effects to parts independently or as part of the customer experience process.

# Part-to-Document Relationship Constraints

Product: PTC Windchill PDMLink, PTC Windchill ProjectLink

## Benefit

Identify specific document types be related to specific part types because part-to-document relationships support relationship constraints.

# Part Insert Existing Window Can Be Configured to Modify Attributes

Product: PTC Windchill PDMLink

## Benefit

Modify the attributes that appear on the **Insert Existing** window for parts to filter the search by attributes other than the default attributes.

# Property for Export List to File

Product: PTC Windchill

## Benefit

Exclude columns that are exported during **Export List to File**.

# PTC System Monitor 4.0 Release Support

Product: PTC Windchill PDMLink, PTC Windchill ProjectLink, PTC Windchill MPMLink, PTC Windchill PartsLink, PTC Windchill Options and Variants

## Benefit

Improved monitoring and diagnostics for PTC Windchill and several optional modules using the PTC System Monitor 4.0 release. Performance and scalability improvements in the Dynatrace 6.1 architecture.

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## PTC Windchill and PTC Creo View Visualization Getting Started Guide

Products: PTC Windchill, PTC Creo View

### Benefit

The first iteration of the *PTC Windchill and PTC Creo View Visualization Getting Started Guide* is released.

## PTC Windchill Extension for ThingWorx

Product: PTC Windchill

### Benefit

Customers and partners can rapidly build ThingWorx connected applications that both consume and create PTC Windchill information.

## Search: New Property criteriaDisplayLength

Product: PTC Windchill

### Benefit

Changes to the **Search History and Saved Searches** tab provide a more concise and readable search history.

## Third Party Platform Support Updates

Product: PTC Windchill

### Benefit

PTC Windchill has been updated to work with additional third party products or releases.

## Type and Attribute Management Enhancements

Product: PTC Windchill

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## **Benefit**

Additional data types and functions are now supported for calculated attribute formulas. The editing of localizable property values has been simplified.

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This section of the PTC Windchill 10.2 M030 *PTC Windchill New and Changed for This Release* contains changes that are relevant to administrators or trainers who create training for end users of the target system.



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## Brazilian Portuguese Now Supported

Product: PTC Windchill

### Benefit

Users can now install PTC Windchill in Brazilian Portuguese.

## Build Process: Improvements for Flexible Components Uses Links

Product: PTC Windchill PDMLink

### Benefit

Improvements to the build process allow the creation of single usage links for flexible components.

## CAD Structure: Open in Creo View Enhancements

Product: PTC Windchill PDMLink

### Benefit

Create a design context based on the CAD structure and open the design context in Creo View using the new **Open Context In ► Open in Creo View** action.

## Calendar: User Interface Redesign

Product: PTC Windchill

### Benefit

The PTC Windchill calendar utility is now implemented using HTML. With this conversion comes a redesigned user interface, easier date selection, and access to the standard **Find User** search.

## Desktop Integration: Multi-Document Actions from Windows Explorer

Product: PTC Windchill

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## Benefit

Complete the following actions in Desktop Integration for Windows Explorer on multiple documents at one time: **Check Out**, **Check In**, **Undo Checkout**, and **Set State**.

# Document Management: Email Document Action

Product: PTC Windchill

## Benefit

Email primary content directly from the PTC Windchill browser.

# Document Management: Indicators, File Name Search, and Folder Contents Drag-and-Drop

Product: PTC Windchill

## Benefit

A variety of document usability enhancements make it easier to search for and identify primary content.

# Editing Attachments: New User Interface

Product: PTC Windchill PDMLink, PTC Windchill Workgroup Managers

## Benefit

The new **Edit Attachments** user interface allows files to be dropped directly into an **Edit Attachments** table row, and for multiple files to be added, edited, or deleted in a single session with the interface.

# Excel Import and Export: Export Importable Spreadsheet Enhancements

Product: PTC Windchill PDMLink Platform Structures module

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## Benefit

Modify BOMs for multiple parent parts in a matrix worksheet using the **BOM Table** option from the **Export Importable Spreadsheet** window.

# Excel Import and Export: Import From Spreadsheet Changes

Product: PTC Windchill PDMLink

## Benefit

Java is no longer required to import Excel spreadsheets.

# Heterogeneous Assemblies with Creo Unite

Product: PTC Windchill PDMLink

## Benefit

The Creo-Windchill interaction now supports using untranslated, native third-party components in Creo assemblies.

# Manage Security Action Name Change

Product: PTC Windchill PDMLink, PTC Windchill ProjectLink, PTC Arbortext Content Manager

## Benefit

Directly manage access control permissions or security label values for an object using the new **Manage Security** submenu.

# Multi-Object Actions

Product: PTC Windchill

## Benefit

Perform checkout, checkin, and undo checkout operations on multiple objects of different types.

---

## **New Manufacturing Associative Product Structure Browser**

Product: PTC Windchill, PTC Windchill MPMLink

### **Benefit**

PTC Windchill MPMLink now provides a Manufacturing Associative Product Structure Browser (MAPSB) to facilitate BOM transformations.

## **Options and Variants: Ability to Revise Local Choice Rules**

Product: PTC Windchill PDMLink

### **Benefit**

Create multiple versions of the local rules using the Revise action and submit them to the change process.

## **Options and Variants: Assigning Basic and Advanced Expressions on Part Occurrences**

Product: PTC Windchill PDMLink

### **Benefit**

Assign basic and advanced expressions to the individual occurrences of a part in the product structure.

## **Options and Variants: Support for Aliases in Logical Expressions**

Product: PTC Windchill PDMLink

### **Benefit**

Aliases allow you to efficiently manage reusable segments of logic.

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## Options and Variants: Support for Independent Expressions

Product: PTC Windchill PDMLink

### Benefit

Author and revise expressions independently of the product structure items to which they are assigned.

## Options and Variants: Support for Options and Choices with Numeric Values

Product: PTC Windchill PDMLink

### Benefit

Add numeric values to choices to improve the efficiency of maintaining rules, assigned expressions, and aliases.

## Options and Variants: Support for Using an Alternate Logic for Option Filtering

Product: PTC Windchill PDMLink

### Benefit

Alternate logic provides a different way to filter the overloaded product structure, allowing companies to choose the method that is most efficient for their needs.

## Options and Variants: Support the Ability to Load Variant Specifications

Product: PTC Windchill PDMLink

### Benefit

Load variant specifications and variant products for an overloaded product structure in PTC Windchill using a command-line application.

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## Options and Variants: Various Usability Enhancements to Choice Selection, Expressions, and Choice Rules

Product: PTC Windchill PDMLink

### Benefit

Various enhancements improve the user experience when working with choices, expressions, and choice rules.

## Part Where Used Table Displays Alternate View Versions

Product: PTC Windchill MPMLink

### Benefit

Alternate view versions now appear in the **Where Used** table for parts.

## Part Where Used Table has Export Actions

Product: PTC Windchill PDMLink

### Benefit

Export where used information for parts quickly and easily using the **Export to List** actions available on the **Where Used** table.

## PTC Windchill Help Center Changes

Product: PTC Windchill

### Benefit

A number of enhancements have been made to the PTC Windchill Help Center for PTC Windchill 10.2 M030.

## PTC Windchill ProjectLink: Multiple Role Assignments

Product: PTC Windchill

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## Benefit

You can now create resource assignments that are shared among a group of users.

# PTC Windchill ProjectLink: New Gantt Explorer Interface

Product: PTC Windchill

## Benefit

Starting in PTC Windchill ProjectLink 10.2 M030, the project Gantt explorer will be implemented using HTML and provide a streamlined interface.

# PTC Windchill ProjectLink: Project Baselines

Product: PTC Windchill

## Benefit

Starting at 10.2 M030, you can create baselines to track progress for project plans.

# PTC Windchill Service Parts Open in SAPSB Option

Product: PTC Windchill Service Parts

## Benefit

When a part is opened in the Service Associative Part Structure Browser (SAPSB), the application also displays the BOM associated with the selected part. Any associated upstream or downstream BOM is also presented. The **Open in Service Associative Part Structure Browser** option launches the HTML version of the application for improved performance.

# Save As: Enhanced Handling of Family Tables and Circular References

Product: PTC Windchill PDMLink

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## Benefit

Enhanced functionality to the **Save As** process allows you to more easily deal with family tables and circular dependents.

## Save As: Pruning of Part Structures

Product: PTC Windchill PDMLink

## Benefit

Save As can now be used to “prune” overloaded part structures of components not needed in the saved-as structure.

## Search: Improved Search History Readability

Product: PTC Windchill

## Benefit

Changes to the **Search History and Saved Searches** tab provide a more concise and readable search history.

## Security Labels: Edit Security Labels Action

Product: PTC Windchill PDMLink, PTC Windchill ProjectLink, PTC Arbortext Content Manager

## Benefit

Save time and unnecessary searching by allowing users to collect objects related to the initially selected object and view and update security label values on all related objects at the same time.

## Security Labels: Related Agreements Table

Product: PTC Windchill PDMLink, PTC Windchill ProjectLink, PTC Arbortext Content Manager



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### **Benefit**

Enhanced ability to view and easily identify the agreements associated with an object.

## **Unique Device Identification in eMDRs**

Product: PTC Windchill PDMLink, PTC Windchill Quality Solutions

### **Benefit**

Add unique device identification (UDI) information to electronic medical device reporting (eMDR).

## **Visible Drag-and-Drop Target**

Product: PTC Windchill

### **Benefit**

The drag-and-drop target better signals to users whether the drop action is allowed.

## **Workflow: Native Task Form Templates**

Product: PTC Windchill

### **Benefit**

Create task form templates directly from PTC Windchill.

## **Workflow: Roles as Resource Pools and Unresolved Roles**

Product: PTC Windchill

### **Benefit**

When defining a resource pool in a workflow template, you can specify one or more roles to include in a resource pool. When defining a workflow, administrators can also now configure roles that do not undergo the role resolution process.

---

## Workspace Refresh Enhancements

Product: PTC Windchill PDMLink

### Benefit

Refresh of the workspace is now enhanced to stay better aligned with server changes; for example, you can configure your workspace to update file name changes on the server (formerly required a full Synchronization of the workspace).

## WVS: Ability to Display Unplaced Components in Part Structures

Product: PTC Windchill

### Benefit

Display unplaced components in Dynamic Part Structures.

## WVS: Enhanced Interference Detection for CAD Represented Parts

Product: PTC Windchill

### Benefit

Interference Detection wizard now supports the implementation of CAD Represented Part Groups and the assembly feature capability.

## WVS: New CAD Represented Parts Capability

Product: PTC Windchill

### Benefit

Designate Soft Types and global attributes as CAD Represented Parts for Dynamic Part Structure processing. Turn ON and OFF which groups of Soft Types and global attributes are enabled or disabled when Dynamic Part Structure processing is performed.

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# WVS: Show Assembly Features in Dynamic Structures

Product: PTC Windchill

## Benefit

Show assembly features in dynamic structures.



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## Optionally Enabled Features

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In PTC Windchill 10.2 M030, PTC provides a new property that controls new features that may impact the default user experience of established end-user capabilities. This new property is set to false by default to help minimize costs that may be associated with deploying new end-user functionality with a maintenance release. The features controlled by this property can be optionally enabled using the procedure below.

For information on the optionally enabled features, see the following topics:

- [Configuration Context Builder and Rule Management Improvements on page 30](#)
- [Import/Export User Interface Enhancements on page 30](#)
- [Publish to CAD Action and Mass Change Enhancements on page 30](#)
- [Replacement Parts Synchronized with CAD on page 30](#)

Use the following procedure to turn on the optionally enabled features:

1. As a site administrator, open a Windchill shell.
2. Run the following command:

```
xconfmanager -s Release.optIn=true -t <Windchill>/codebase/wt.properties -p  
where <Windchill> is the installed location of your PTC Windchill solution.
```

---

## Configuration Context Builder and Rule Management Improvements

Product: PTC Windchill PDMLink

### Benefit

Build and filter a configuration context more accurately with the inclusion of nonoccurrence parts in the structure, automatic part occurrence updates, and spatial rule filtering for individual nodes. This puts the building and filtering capability of configuration contexts on par with that of design contexts.

## Import/Export User Interface Enhancements

Product: PTC Windchill

### Benefit

The **Import/Export Management** utility has been updated with an HTML client that features a few minor updates to the user interface that make it more intuitive to use.

## Publish to CAD Action and Mass Change Enhancements

Product: PTC Windchill PDMLink

### Benefit

The new **Publish to CAD** action makes it more convenient to publish changes from a part structure to the associated CAD structure. You can also publish changes for multiple part structures during the mass change process.

## Replacement Parts Synchronized with CAD

Product: PTC Windchill PDMLink

### Benefit

Now when you replace a part, the occurrence data is maintained and the part can be synchronized with CAD.

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## PTC Windchill Workgroup Manager

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This section of the PTC Windchill 10.2 M030 *PTC Windchill New and Changed for This Release* contains changes that are relevant to PTC Windchill Workgroup Managers, which support the integration of authoring engineering applications with PTC Windchill.



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## Autodesk Inventor: Support for Autodesk Inventor Express Mode in PTC Windchill Workgroup Manager for Autodesk Inventor

Product: PTC Windchill Workgroup Manager for Autodesk Inventor

### Benefit

PTC Windchill Workgroup Manager for Autodesk Inventor now supports Autodesk Inventor Express Mode, which enables faster opening of large assemblies.

## Autodesk Inventor: Support for PTC Windchill File System in PTC Windchill Workgroup Manager for Autodesk Inventor

Product: PTC Windchill Workgroup Manager for Autodesk Inventor

### Benefit

Autodesk Inventor can now access files in PTC Windchill as though they were in folders on the local file system.

## Autodesk Inventor: Support for Open in Inventor with last saved <Level of detail> in PTC Windchill Workgroup Manager for Autodesk Inventor

Product: PTC Windchill Workgroup Manager for Autodesk Inventor

### Benefit

PTC Windchill Workgroup Manager for Autodesk Inventor provides support for the <Level of detail> feature of assemblies during **Open** or when publishing representations.

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## **Cadence Team Design Option: User-Defined Derived Object Generation**

Product: Cadence Team Design Option

### **Benefit**

Administrators can now configure PTC Windchill Workgroup Manager for Cadence Team Design Option to generate user-defined derived objects such as ECAD artwork.

## **Cadence Team Design Option: Variant BOM Generation**

Product: PTC Windchill Workgroup Manager for Cadence Team Design Option

### **Benefit**

Users can now generate variant BOMs for a design.

## **CATIA V5: Preference to Improve Performance When Opening Large Assemblies from CATIA V5**

Product: PTC Windchill, PTC Windchill PDMLink, PTC Windchill Workgroup Manager for CATIA V5

### **Benefit**

Control the types of files that are downloaded and loaded when CATIA V5 assemblies are opened.

## **CATIA V5: File Synchronization Updates**

Product: PTC Windchill, PTC Windchill PDMLink, PTC Windchill Workgroup Manager for CATIA V5

### **Benefit**

Several important fixes for the file synchronization CAD worker increase the stability of the CAD worker as a service and improve the percentage of successful publication jobs.

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## **CATIA V5: User Experience Enhancements for PTC Windchill Workgroup Manager for CATIA V5**

Product: PTC Windchill, PTC Windchill PDMLink, PTC Windchill Workgroup Manager for CATIA V5

### **Benefit**

A number of changes have been made to enhance the user experience and improve performance.

## **Creo Elements/Direct Modeling: PDF Viewable Output Format for Creo Elements/Direct Modeling Annotation Drawings**

Product: Creo Elements/Direct Modeling

### **Benefit**

PDF is now supported as an additional viewable output format for Creo Elements/Direct Modeling Annotation drawings.

## **PTC Windchill Workgroup Manager Toolkit: Add to Workspace a Specific Version of an EPM Document by CAD Name, Revision, and Iteration**

Product: PTC Windchill Workgroup Manager Toolkit

### **Benefit**

Add to workspace a specific version of an EPM document by CAD name, revision, and iteration for the PTC Windchill Workgroup Manager Toolkit.

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## **PTC Windchill Workgroup Manager Toolkit: Enable Access to Non-cached Folder Objects**

Product: PTC Windchill Workgroup Manager Toolkit

### **Benefit**

Access is enabled to non-cached folder objects for the PTC Windchill Workgroup Manager Toolkit.

## **PTC Windchill Workgroup Manager Toolkit: Programmatic call to Windchill PDM actions in CATIA V5**

Product: PTC Windchill Workgroup Manager for CATIA V5

### **Benefit**

Use the programmatic call to Windchill PDM actions in CATIA V5 from PTC Windchill Workgroup Manager Toolkit.

## **PTC Windchill Workgroup Manager Toolkit: Support for PTC Windchill Workgroup Manager Toolkit**

Product: PTC Windchill Workgroup Manager Toolkit

### **Benefit**

Enhancements have been made to PTC Windchill Workgroup Manager Toolkit.

## **SolidWorks: Importing SolidWorks Templates Using Import to Workspace in PTC Windchill Workgroup Manager for SolidWorks**

Product: PTC Windchill Workgroup Manager for SolidWorks

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## Benefit

PTC Windchill Workgroup Manager for SolidWorks allows importing of SolidWorks templates within the PTC Windchill Workgroup Manager **Import to Workspace** user interface. This extends the WWGM import capability to templates in addition to Part and Drawing files.

# SolidWorks: Component ID Solution for PTC Windchill Workgroup Manager for SolidWorks

Product: PTC Windchill Workgroup Manager for SolidWorks

## Benefit

Once a Component ID is assigned during the first save to Workspace, the same Component ID is used for the same component in subsequent iterations, providing greater flexibility and consistency when assigning Component IDs in PTC Windchill Workgroup Manager for SolidWorks.