

THE TOP 11 NEW CAPABILITIES IN PTC WINDCHILL 11

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PTC®





markem·imaje



GE Industrial Solutions

Credit: Lockheed, Thales, PricewaterhouseCoopers, Y&R, Boeing, Eaton

- What version of Windchill are you using?
- What version of Creo are you using?
- Who is registered to attend LiveWorx?
- Who is planning on registering to attend LiveWorx?

PTC® Windchill® 11

Smart Connected PLM



SMART



CONNECTED



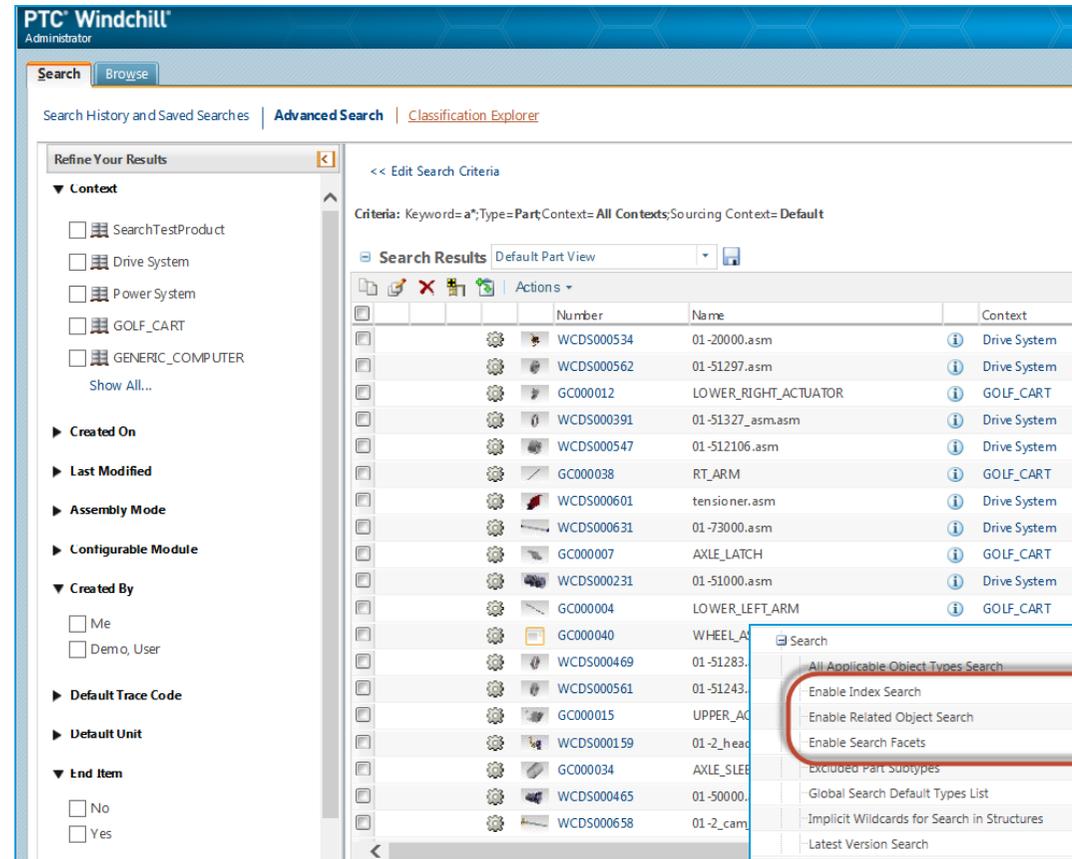
COMPLETE



FLEXIBLE

WINDCHILL SEARCH

- Find the right information faster with powerful new multifaceted search
- Improve information reuse and spend less time searching
- Seamlessly combines PartsLink classification search & traditional attribute search
- Leverage keywords and filters to experience a familiar, Web-style search



Find and reuse valuable PLM data faster

QUERY BUILDER

- Implemented with HTML (no longer an applet)
- Redesigned Graphical User Interface
- Make report template available in advanced search
- Documentation on Types

The screenshot displays the 'Previously' version of the PTC Query Builder interface. It features a table of report templates with columns for Name, Last Modified, Context, and Description. The table lists various report templates such as 'Project summary act...', 'Project status epp', and 'Project plan deliv...'. Below the table, there are buttons for 'New', 'Edit', and 'Delete'. The interface also shows a 'Report Templates' window with a search bar and a list of templates. A '11.0 F000' label is visible in the top right corner.

The main window is titled 'Edit Report Template - Parts Report'. It has tabs for 'Properties', 'Tables and Joins', 'Select or Constrain', 'Criteria', and 'Sort'. The 'Tables and Joins' tab is active, showing a diagram of relationships between report templates. The diagram includes nodes for 'Report', 'Report Template Reference', 'Report Template', 'Report Template To Report Template', 'Report Template View', 'Data Monitor', 'Report Criteria Reference', and 'Saved Report'. Green arrows indicate the relationships between these nodes.

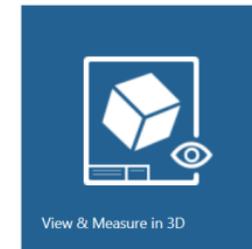
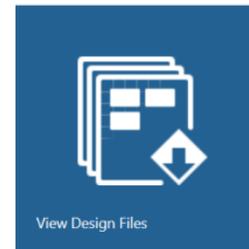
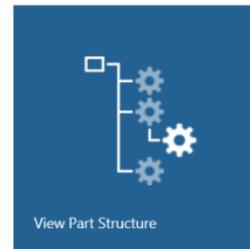
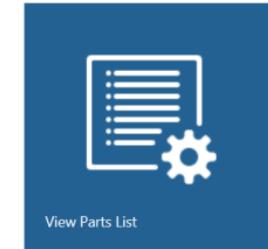
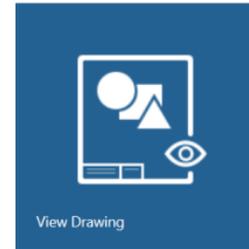
A 'Select Types to Add' dialog box is open, showing a list of report templates. The list includes 'Report', 'Report Template', 'Report Template To Report Template', 'Reported Against', 'Reported Against Ifc', 'Reported Against Variance Eff', 'Saved Report', 'Saved Report Data Monitor Foreign Key Link', 'Saved Report Holder', 'Saved Report To Report Template Link', 'Security Audit Report Query', and 'Third Party Report Model Data'. The dialog box has a search bar and a 'Displayed Items: 25 Total Items: 2248' indicator.

ROLE-BASED APPS

- **Drive innovation** with smarter PLM access for all stakeholders
- **Unleash the value of your product data** for more timely and accurate decisions
- **Improve adoption** with “instant skills”: highly intuitive / context-driven
- **Future expansion:** easily add apps; include data from other systems

PTC® Navigate

Welcome demo



Access and impact just the data relevant to your role

BILL OF MATERIALS MANAGEMENT

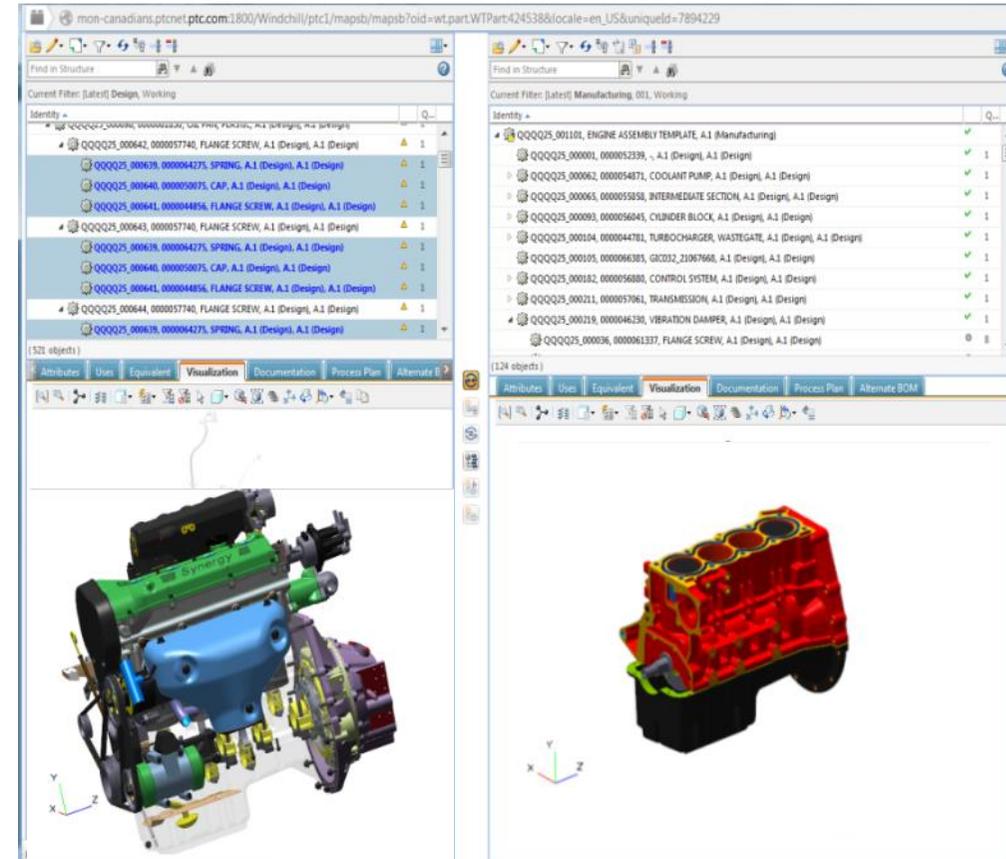
- Advance product development from drawing-centric to parts-centric approach
- Unleash the full power of Windchill to manage a complete, multidimensional BoM
- Support better decisions throughout the organization for faster time to market
- Improved visualization, parts support, variant logic sharing with ERP, Cadence support, and flexible change management

The screenshot displays the PTC Windchill software interface. On the left, a tree view shows the product structure for 'Drive System'. The main area features a 3D CAD model of a mechanical assembly with various colored components. A 'Summary' pop-up window is visible over a part of the model, showing dimensions: Diameter: 30.000 mm, Area: 302.159 mm², Perimeter: 74.173 mm, and Height: 25.000 mm. On the right, a 'Table' is shown with columns for 'Traffic Light', 'Percent Complete', and 'Progress Bar'. The table contains multiple rows of data, including status indicators (colored circles) and progress bars. At the bottom, a status bar shows 'end and value both undefined 0000001305' and 'dvp1 DVPART1'.

Accurate, reliable decisions for every stakeholder

BILL OF MATERIALS: TRANSFORM & COMPARE

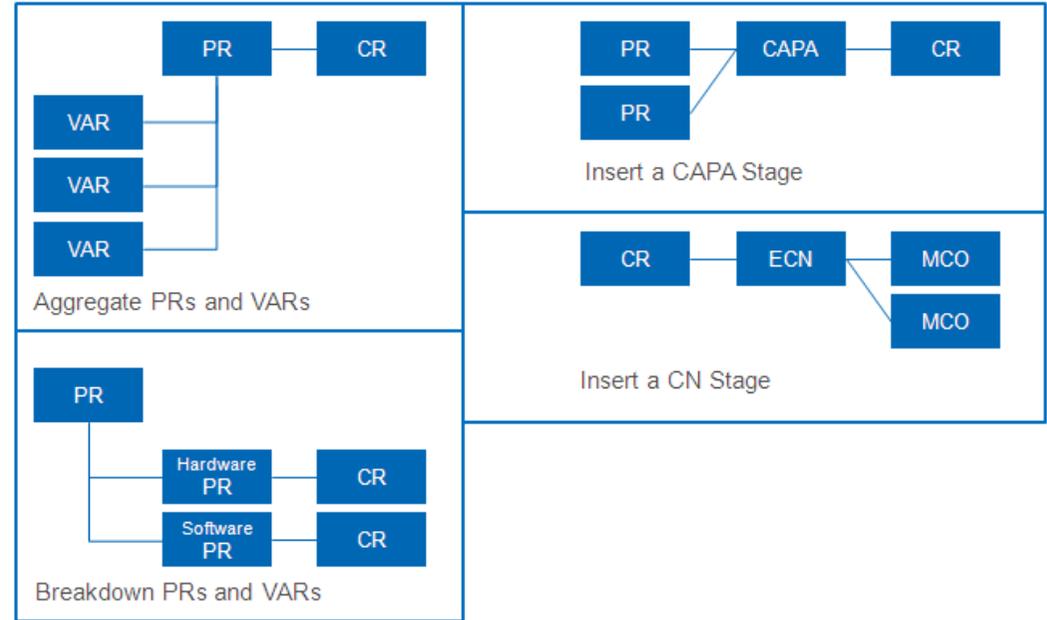
- Enable faster Time to Manufacturing while reducing errors and lowering FPY
- Streamlined MPMLink UI enhances speed, accuracy, ease-of-use, and collaboration
- Highly visual user experience for BOM transformation, plant-specific attributes on mBOM, Associativity on part and occurrence level, and conformity analysis between eBOM and mBOM



Parallel design and manufacturing planning

CHANGE MANAGEMENT

- **Flexible** Change Associations
- Provide the ability to **configure links** between Change objects
- **Provide constraints** to enforce the use of correct types and cardinality on the links
- **Updated OOTB workflows** to support closure through a workflow process based on change associations



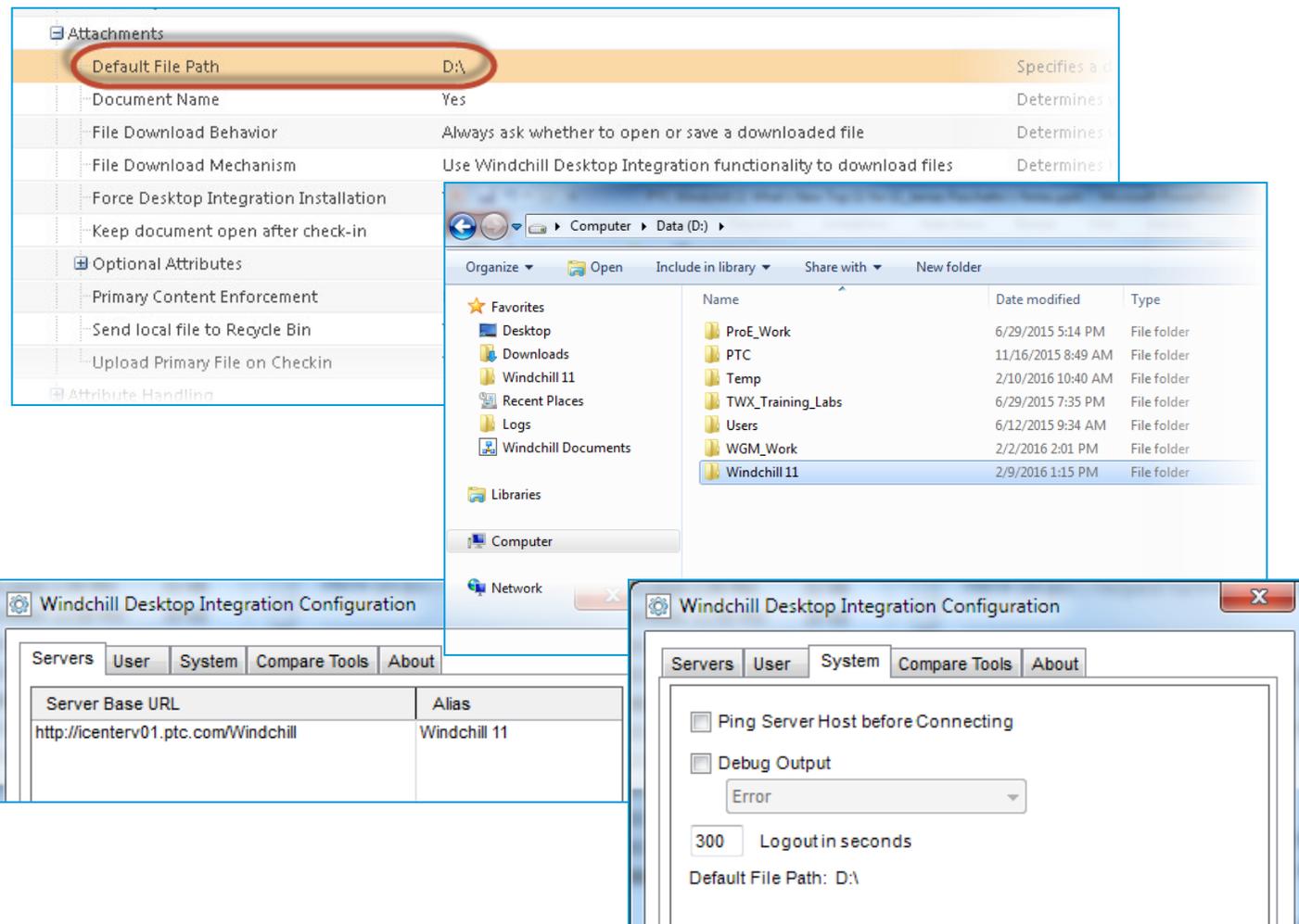
Change Association Rules All (5 objects)

	Number	Association Type	Enabled	Role A Type	Role B Type	Context	Cardinality	Owning Role	Required Role	Link Type
<input type="checkbox"/>	PTC000002	Change Process	<input checked="" type="checkbox"/>	Change Request	Change Notice	Site	1:many or many:1	Role B	None	Change Process Link
<input type="checkbox"/>	PTC000004	Change Reference	<input checked="" type="checkbox"/>	Flexible Change Item	Flexible Change Item	Site	many:many	Role A	None	Change Reference Link
<input type="checkbox"/>	000021	Change Process	<input checked="" type="checkbox"/>	myDeviation	myProblem Report	Site	many:1	Role B	None	Change Process Link
<input type="checkbox"/>	PTC000001	Change Process	<input checked="" type="checkbox"/>	Problem Report	Change Request	Site	1:many or many:1	Role B	None	Change Process Link
<input type="checkbox"/>	PTC000003	Change Process	<input checked="" type="checkbox"/>	Variance	Change Request	Site	1:many or many:1	Role B	None	Change Process Link

(0 objects selected)

DOCUMENT MANAGEMENT

- Greater control with **single, common local file** location
- **Consistent** behavior using Desktop Integration and HTML UI
- View **Windchill folders** and interact with Windchill documents as a natural extension to their file system in the Windows explorer



AUTOMATIC PROJECT UPDATES

- Enable individual **collaboration projects** for automatic updates
- **Saved filters** are defined and available for updating shared information
- Advanced **project synchronization users** group

The screenshot shows a project configuration form with the following fields and values:

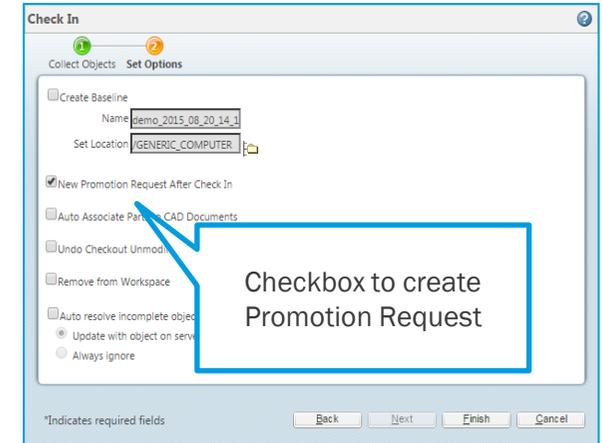
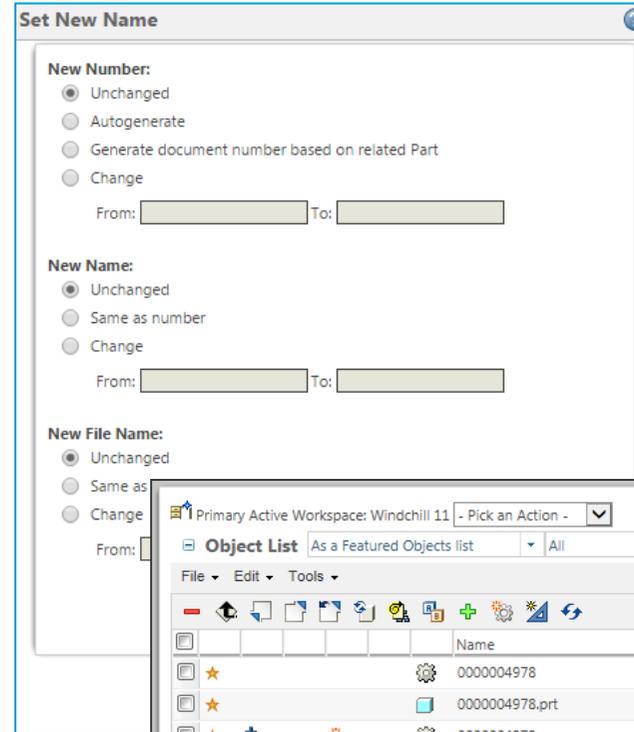
- Type: Project
- Attributes:
 - * Name: Project Synchronize Shared Content
 - Description: Synchronization Project Example
 - * Owner: cbergquist
 - Phase: Kickoff
 - * Private Access: Default
 - Invitation Message: (empty)
 - Number: 000009
 - Category: New Product Introduction
 - Business Unit: (empty)
 - Site: (empty)
 - Budget: \$100000
 - Scope: (empty)
 - Sharing Filter: (empty)
 - Synchronize Sharing: Scheduled synchronization
 - Synchronization User: cbergquist (with a dropdown menu showing Administrator and cbergquist)

Callout boxes provide the following explanations:

- Top Callout:**
 - Specifies the “Saved Filter” that will be used for determining objects that require synchronization
 - The “Latest” filter is applied by default when not specified
 - All “Saved Filters” are defined in the context of a user and are available for use by other users involved in the project
- Middle Callout:**
 - Specifies the project chooses to be updated using the scheduled automatic update
- Bottom Callout:**
 - Specifies the user that will be responsible for processing the automatic update
 - Eligible users include:
 - The Owner of the project
 - Any user in the *Project Synchronization Users* group.

CAD DATA MANAGEMENT

- Start a new **promotion request** during check-in
- Improved workspace performance: feature object list in workspace
- Support for **auto-numbering CAD documents** with a file extension included
- **Synchronize** a new CAD document number with its related Windchill part base number
- **Enhanced** Rename support. Multi select non related objects to rename



Primary Active Workspace: Windchill 11 - Pick an Action -

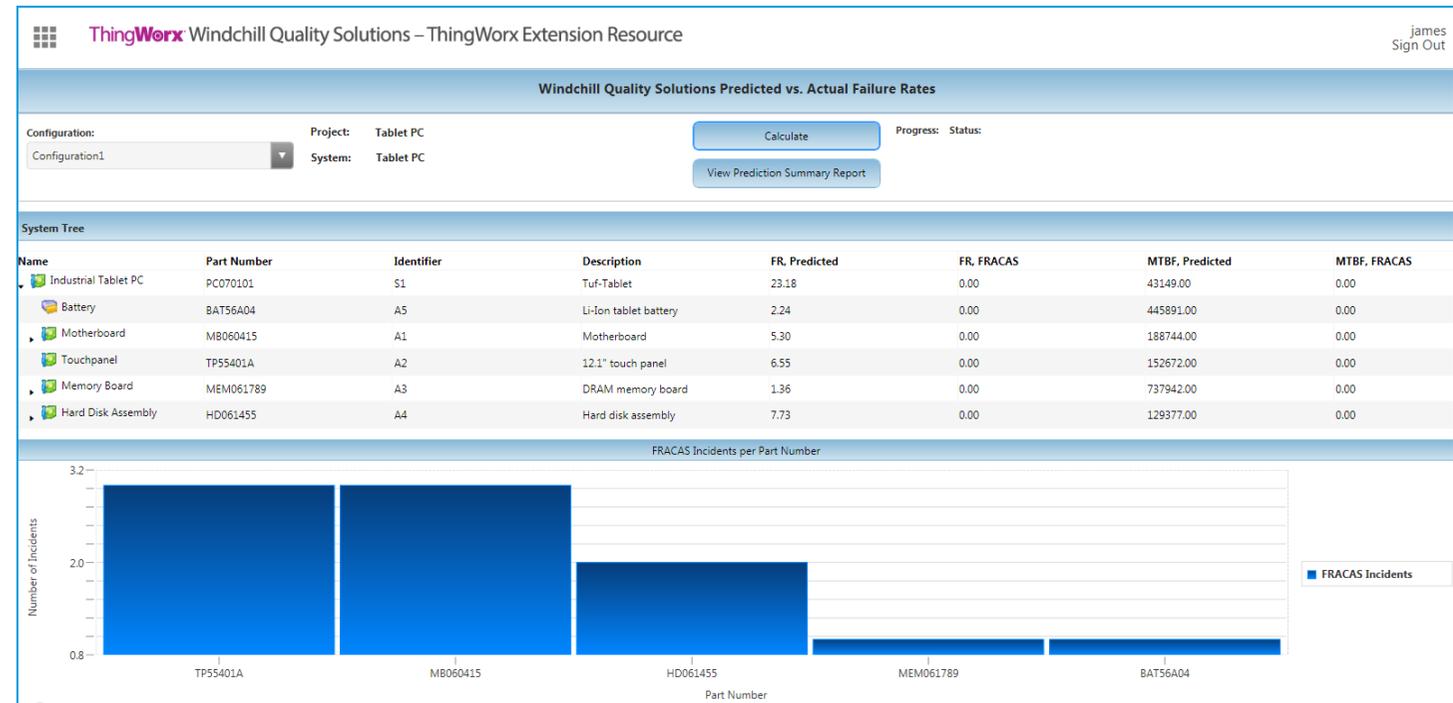
Object List As a Featured Objects list All (11 of 73 objects)

	Name	Number	File Name	Actions	Version	State
★	0000004978	0000004978			A.1	In Work
★	0000004978.prt	0000004978.PRT	0000004978.prt		A.1	In Work
★	0000004979	0000004979			A.1	In Work
★	0000004979.drw	0000004979.DRW	0000004979.drw		A.1	In Work
★	0000004979.prt	0000004979.PRT	0000004979.prt		A.1	In Work
★	4904000_front_sus_asm.asm	4904000_FRONT_SUS_ASM.ASM	4904000_front_sus_asm.as...		A.2	In Work
★	4904025.prt	4904025.PRT	4904025.prt		A.1	Released
★	4934002.asm	4934002.ASM	4934002.asm		A.2	In Work
★	brake_disk_swx.sldprt	BRAKE_DISK_SWX.SLDPRPT	brake_disk_swx.sldprt		A.4	Released
★	front wheel drawing	FRONT_WHEEL.DRW	front_wheel.drw		A.2	In Work
★	front_wheel_ass.asm	FRONT_WHEEL_ASS.ASM	front_wheel_ass.asm		A.11	In Work

(0 objects selected)

CONNECTED QUALITY

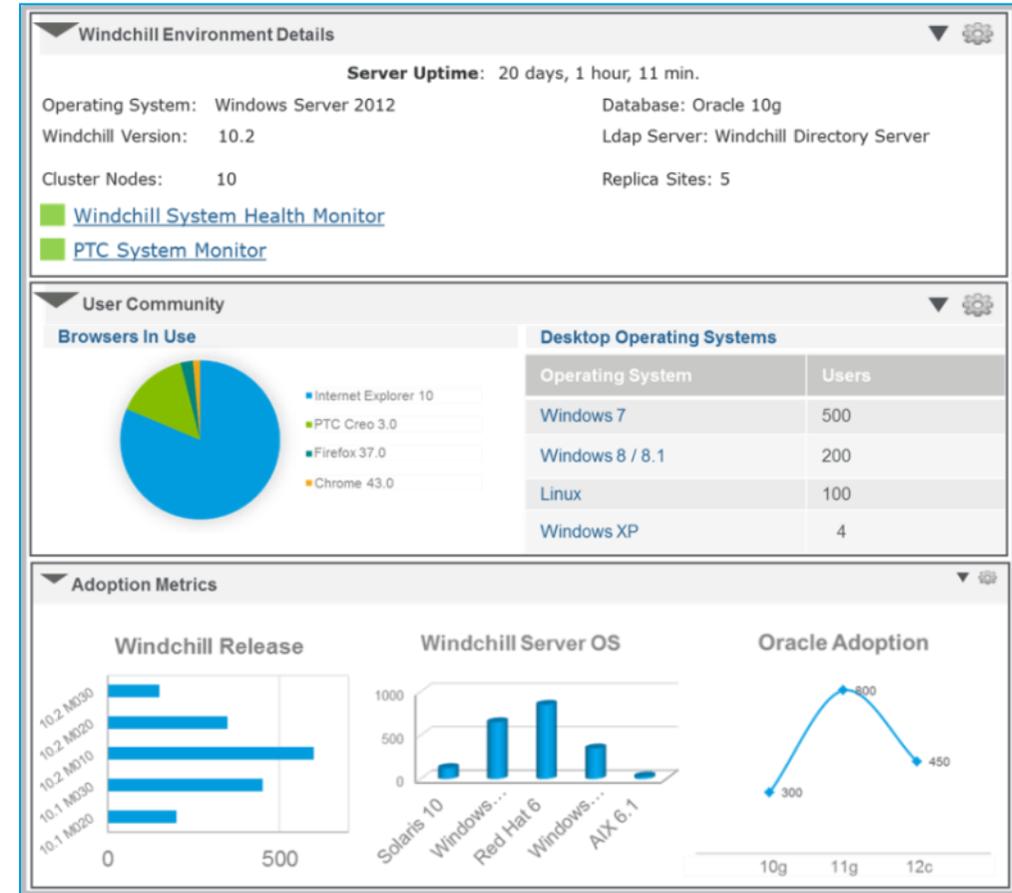
- **Improve quality** by informing processes with smart, connected product data
- **Increase speed and accuracy** of root cause analysis and CAPA, reducing CoPQ
- **Deliver more quality data** throughout more of the organization than ever before
- **Improve next-generation designs** with visibility into fielded product performance



Learn from the product's operational behavior

PERFORMANCE ADVISOR

- Windchill is now smart and connected, improving end-user and admin experience
- Deeper, better insight into feature usage, adoption, and performance of your system
- Proactive support delivered more quickly, reducing IT, admin burden
- Secure, compliant collection & analysis of Windchill's performance across users

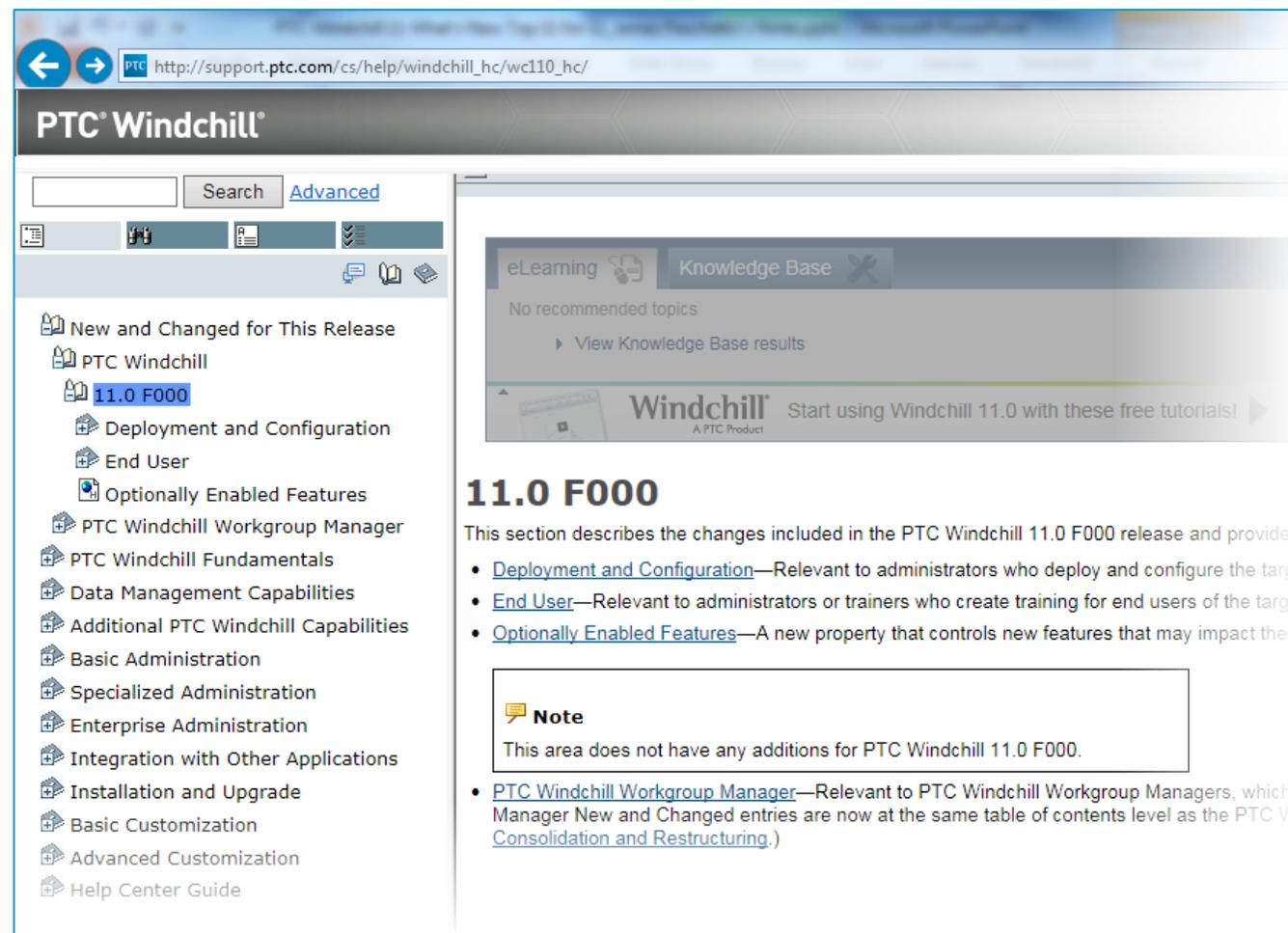


Smart, connected support

DEMONSTRATION

...AND MUCH MORE

- Advanced IP Protection
- NPI process improvements
- HTML Workflow Process Manager
- Creo Design Exploration Extension (DEX) with Windchill
- See the Windchill 11.0 Help for more information on all the enhancements - http://support.ptc.com/cs/help/windchill_hc/wc110_hc/



Continual PLM advancements

QUESTIONS

THHL20

Available between now and March 18th – Limited time only A \$300 discount off the all access registration package
Total cost for a 4 day pass = \$1195

PTC® Windchill® 11

PLM access for all stakeholders

▶ LEARN MORE IN THIS WEBCAST



SMART

- Register at <http://www.ptc.com/plm/smart> for our next webinar to learn how **role-based apps** can help your whole organization better utilize the product information in your PTC Windchill solution.
- Thursday, March 10th, 2016 at 11am EST.

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