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PTC Product Focus

Windchill PDMLink Change Management Usability Features

In the [January 2007 edition of the Technical Specialists Newsletter](#), the benefits of Windchill maintenance releases were covered. The Windchill PDMLink 8.0 M020 maintenance release included a group of usability improvements to the PDMLink change package that are very beneficial to end users.

The usability improvements include:

- Copy and Paste action on Affected Data and Resulting Items tables
- Expand-All and Collapse-All actions on change information pages
- Propagate data from a Problem Report to a Engineering Change Request
- Propagate data from a Change Request to a Engineering Change Notice

Let's take a closer look at the improvements in the following sections.

Copy and Paste

Copying and pasting items to the Windchill PDMLink clipboard allows users to add items to change objects much more easily and quickly. A user may select multiple items from the Windchill PDMLink user interface and using the copy icon, add them to the clipboard for use in the change process. Figure 1 shows how to collect and copy the items from the product structure page of a small assembly. Note that from this page the user can collect multiple object types easily and copy them quickly to the clipboard.

The screenshot displays the Windchill PDMLink interface for a product structure. At the top, the product name is "GRAIN BIN EXT". Below this, various metadata fields are shown, including Organization ID (OEM), Responsible Product (Challenger 660 Combine), Number (147967), Name (GRAIN BIN EXT), Version (B.1), Type (Part), and Status (Checked in). A table of related reports is visible, showing "Single Level BOM" as the selected report. The main area is a product structure tree with a table of items. A red box highlights the "Copy" icon in the toolbar, with a red arrow pointing to it and the text "Select the objects and the copy icon". A dialog box in the center of the screen displays "Items copied to the clipboard: 19" and an "OK" button. The table below contains the following data:

Name	Actions	ID	Version	Context	State	Quantity	Line	Organization ID
GRAIN BIN EXT		147967	B.1 (Design)	Challenger 660 Combine	In Work			OEM
SKELETON, BIN EXT		9790_BIN_EXT_SKEL.PRT	A.2	Challenger 660 Combine	Released			OEM
Grain Flow Test		0213	A.2	Challenger 660 Combine	Released			OEM
GRAIN BIN EXT		9790_BIN_EXT.ASM	A.2	Challenger 660 Combine	Released			OEM
GRAIN BIN EXT		9790_BIN_EXT.DRW	A.2	Challenger 660 Combine	Released			OEM
CORNER PLATE, BIN EXT		147721	A.3 (Design)	Challenger 660 Combine	Released	4 each		OEM
CORNER PLATE, BIN EXT		GB_104194.PRT	A.3	Challenger 660 Combine	Released			OEM
COVER, INSPECT		147475	A.4 (Design)	Challenger 660 Combine	Released	4 each		OEM
COVER, INSPECT		GB_104180.PRT	A.3	Challenger 660 Combine	Released			OEM
COVER, INSPECT		GB_104180.DRW	A.1	Challenger 660 Combine	Released			OEM
END PLATE, BIN EXT		147598	A.4 (Design)	Challenger 660 Combine	Released	2 each		OEM
END PLATE, BIN EXT		GB_104214.DRW	A.1	Challenger 660 Combine	Released			OEM
END PLATE, BIN EXT		GB_104214.PRT	A.3	Challenger 660 Combine	Released			OEM
MINT PLATE, CORNER		147352	A.4 (Design)	Challenger 660 Combine	Released	4 each		OEM
MINT PLATE, CORNER		GB_104201.PRT	A.3	Challenger 660 Combine	Released			OEM
MINT PLATE, CORNER		GB_104201.DRW	A.1	Challenger 660 Combine	Released			OEM
SIDE PLATE, BIN EXT		147944	A.4 (Design)	Challenger 660 Combine	Released	2 each		OEM
SIDE PLATE, BIN EXT		GB_104169.DRW	A.1	Challenger 660 Combine	Released			OEM
SIDE PLATE, BIN EXT		GB_104169.PRT	A.3	Challenger 660 Combine	Released			OEM

Figure 1 – Showing items successfully collected and copied to the Windchill PDMLink clipboard.

Once the objects are copied to the clipboard they can be added as affected items to a Problem Report (PR) or an Engineering Change Request (ECR), or they can be added as resulting items to an Engineering Change Notice (ECN). The clipboard data can be used multiple times if needed as well, and is not overwritten until a new copy is made. Figure 2 shows the result of pasting the copied items from the clipboard to the affected data tab on a Problem Report.

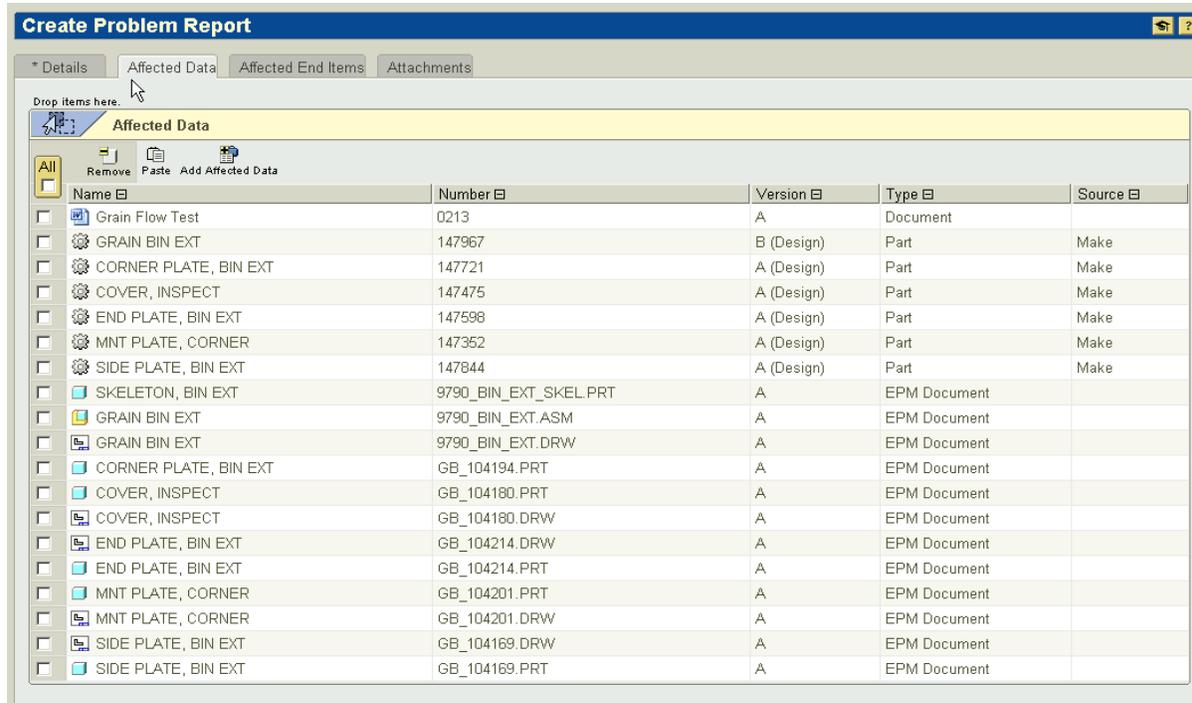


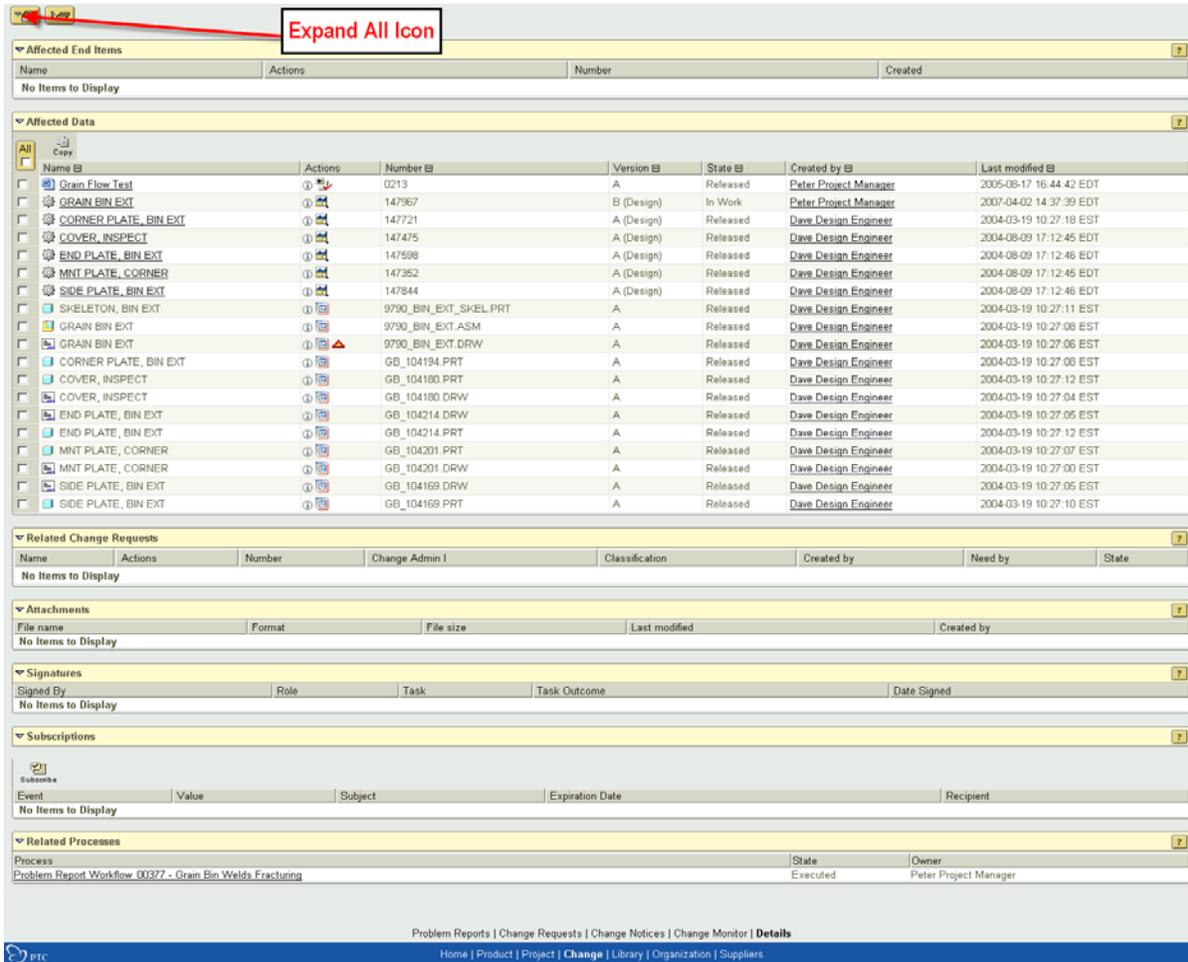
Figure 2 – Showing Objects successfully pasted to the Problem Report form.

The enhanced copy and paste feature expands the flexibility of the Windchill change forms and gives users a nice method to add data quickly.

Once the data is correctly copied to the change objects, then the user can take advantage of the improved expand and collapse function for usability and the data propagation functions discussed below.

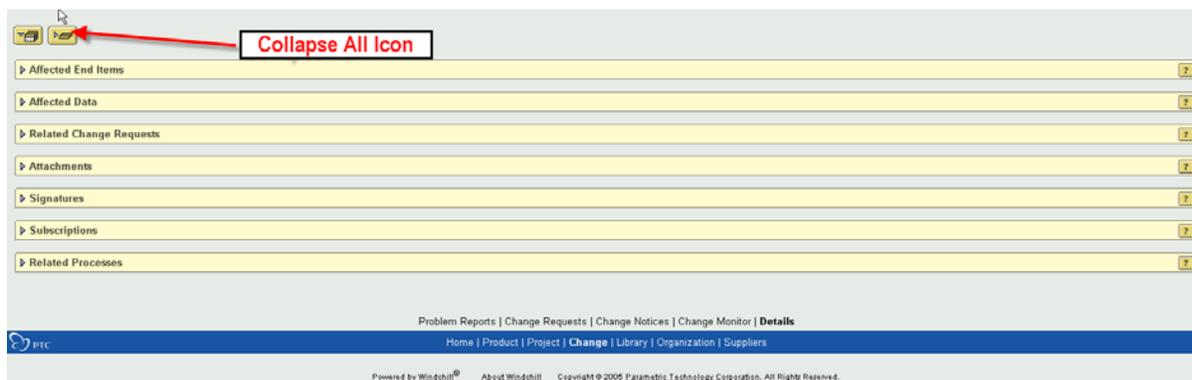
Expand-All and Collapse-All

Expand-All and Collapse-All can help a user quickly view a change object form and filter the level of detail that needs to be shown improving the ability to read the page, and refresh the form. Figures 3 and 4 below, show the expand-all and collapse-all icons and the behavior observed when selecting them.



The screenshot shows a PTC Problem Report form with the 'Expand All Icon' selected. The form is fully expanded, showing detailed data for affected end items, affected data, related change requests, attachments, signatures, subscriptions, and related processes. The 'Affected Data' section contains a table with columns: Name, Actions, Number, Version, State, Created by, and Last modified. The table lists various items such as Grain Flow Test, GRAIN BIN EXT, CORNER PLATE, BIN EXT, COVER, INSPECT, END PLATE, BIN EXT, MNT PLATE, CORNER, SIDE PLATE, BIN EXT, SKELETON, BIN EXT, GRAIN BIN EXT, CORNER PLATE, BIN EXT, COVER, INSPECT, END PLATE, BIN EXT, MNT PLATE, CORNER, SIDE PLATE, BIN EXT, and SIDE PLATE, BIN EXT. The 'Related Change Requests' section shows a table with columns: Name, Actions, Number, Change Admin, Classification, Created by, Need by, and State. The 'Attachments' section shows a table with columns: File name, Format, File size, Last modified, and Created by. The 'Signatures' section shows a table with columns: Signed By, Role, Task, Task Outcome, and Date Signed. The 'Subscriptions' section shows a table with columns: Event, Value, Subject, Expiration Date, and Recipient. The 'Related Processes' section shows a table with columns: Process, State, and Owner. The footer of the form includes the PTC logo and navigation links: Home | Product | Project | Change | Library | Organization | Suppliers.

Figure 3 – Problem Report form with expand all icon selected. All sections of the form are fully expanded



The screenshot shows a PTC Problem Report form with the 'Collapse All Icon' selected. The form is fully collapsed, showing only the section headers: Affected End Items, Affected Data, Related Change Requests, Attachments, Signatures, Subscriptions, and Related Processes. The footer of the form includes the PTC logo and navigation links: Home | Product | Project | Change | Library | Organization | Suppliers. At the bottom, it also includes the text: Powered by Windchill, About Windchill, Copyright © 2005 Parametric Technology Corporation. All Rights Reserved.

Figure 4– Problem Report form with collapse all icon selected. All sections of the form are collapsed.

Data Propagation for Change Objects

Data propagation across the change objects has been a highly requested addition to the Windchill change package. With the release of Windchill PDMLink 8.0 M020, this is a standard offering giving end users a nice usability improvement!

The usability improvement provides the ability for users to propagate change object information from the Problem Report (PR) to the Engineering Change Request (ECR) and from the ECR to the Engineering Change Notice (ECN). To enable this feature a site preference must be set by the Windchill administrator. The preference can be set in the Windchill preference manager. The preference is **/wt/change2/PropagateChangeItems** set at the site level with a value of true. Once the preference is set any newly created ECR from a PR or ECN from an ECR, prompts the user to propagate the data. Figure 5 below shows the preference administrator with the value set for reference

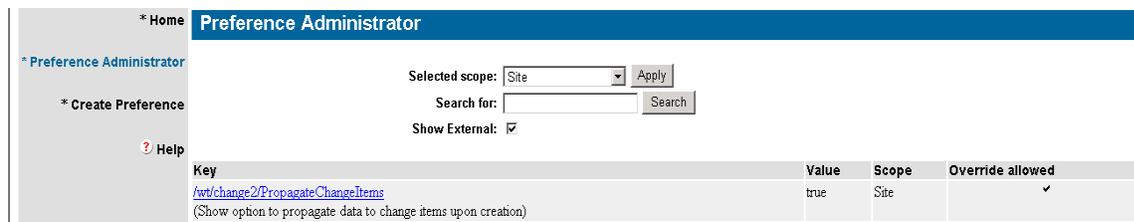


Figure 5 – Preference administrator showing the propagate change items preference syntax and value.

From the PR example above, when a new ECR is created from the existing PR, the user is prompted whether or not to propagate the data to the ECR. See Figure 6 below.

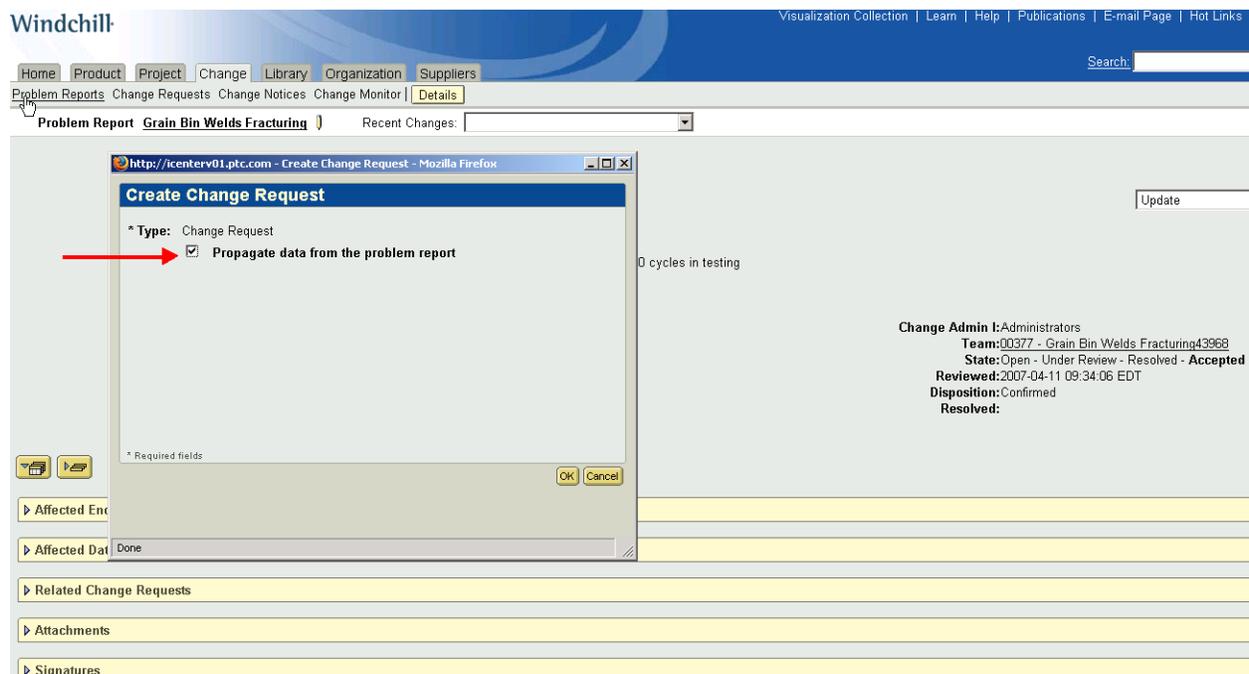


Figure 6 – Newly available propagate data pick prompting the user to copy selective data across change objects.

If the user selects the check box here, the data from the PR in the following fields will be copied to the ECR form. See Figure 7 below.

The screenshot shows a 'Details' tab with sub-tabs: 'Affected Data', 'Affected End Items', and 'Attachments'. The form contains the following fields:

- Responsible Product:** Challenger 660 Combine
- Type:** Problem Report
- * Problem Report name:** Grain Bin Welds Fracturing
- Reported by:** Peter Project Manager
- * Problem Report classification:** Design Issue
- * Priority level:** High
- * Problem description:** Corner welds are fracturing after an average of 100,000 cycles in testing

Red circles highlight the sub-tabs and the 'Problem Report name', 'Problem Report classification', and 'Problem description' fields. A red box labeled 'Fields Propagated to ECR' has arrows pointing to the 'Affected Data', 'Affected End Items', and 'Attachments' sub-tabs, and to the 'Problem Report name', 'Problem Report classification', and 'Problem description' fields. 'OK' and 'Cancel' buttons are at the bottom right.

Figure 7 – PR form with data fields that will be propagated to the ECR form, and all Affected Data, Affected End Items, and Attachments.

The Resulting ECR form after create is now partially filled in with the values copied from the PR. See Figures 8 and 9 for the resulting ECR form and the propagated data fields.

The screenshot shows a 'Create Change Request' window with tabs: 'Affected Data', 'Affected End Items', 'Attachments', and 'Associated Problem Reports'. The form contains the following fields:

- Responsible Product:** Challenger 660 Combine
- Type:** Change Request
- * Change Request name:** Grain Bin Welds Fracturing
- * Change Request classification:** Design Issue
- * Change Request description:** Corner welds are fracturing after an average of 100,000 cycles in testing
- Proposed solution:** (Empty text area)
- * Priority level:** Low
- Need by:** (Calendar icon) (MM/DD/YYYY)
- Recurring Cost Estimate:** (Empty text field)
- Non Recurring Cost Estimate:** (Empty text field)
- Submit:** Now Later

Red circles highlight the 'Affected Data', 'Affected End Items', and 'Attachments' tabs, and the 'Change Request name', 'Change Request classification', and 'Change Request description' fields. A red box labeled 'Propagated Data from PR Form' has arrows pointing to the 'Affected Data', 'Affected End Items', and 'Attachments' tabs, and to the 'Change Request name', 'Change Request classification', and 'Change Request description' fields. 'OK' and 'Cancel' buttons are at the bottom right.

Figure 8 – Resulting ECR form with propagated data fields from the PR.

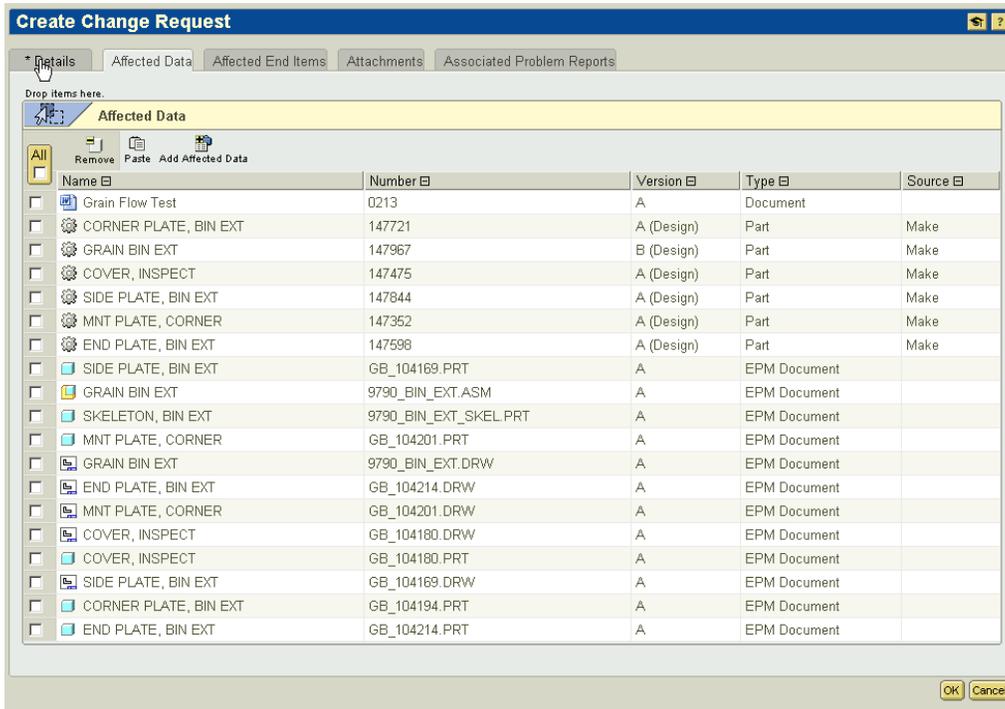


Figure 9 – Resulting ECR form with propagated Affected Data from the PR example.

The same type of propagation utility is available when creating a new ECN from an existing ECR with a slight difference in what type of data is propagated. The table below shows the data fields that are supported and propagated across the change objects when created.

Propagated Data Fields		
	Problem Report	Change Notice
Modeled Attributes	Name, Description, Classification	Name, Description, Need By
Soft Attributes	Not Supported	Not Supported
File Attachments	All	All
Affected End Items	All	Not Applicable
Affected Items	All	Not Supported

Figure 10 – Table showing propagated data fields (left column) from PR to ECR (middle column) and ECR to ECN (right column).

Taking advantage of these features can save time, reduce manual effort to create changes, and improve consistency of the data captured in the change process.

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Tips of the Month

Speedy Quick Welds

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Tips of the Month

Windchill PDMLink Clipboard –Collection Tips for Change Objects

Collection Tips

The copy and paste selections are available in numerous places in the Windchill PDMLink user interface. With the release of PDMLink 8.0 M020 they are now available on change object forms for attaching affected and resulting items to the change objects. See the [PTC Product Focus section](#) for a quick overview of the new usability features in the Windchill PDMLink change package. Depending on the type of data you are trying to gather, the ease of collection can be facilitated by navigating to the correct page in Windchill PDMLink. The following are a few simple tips on where to find the data before copying to the clipboard in the most efficient manner.

For example, if you are trying to gather related Windchill parts and structure, navigating to the properties page for the top level object is the most straightforward. See Figure 1 below for example.

Organization ID: OEM
Responsible Product: Challenger 660 Combine
Number: 147967
Name: GRAIN BIN EXT
Version: B.1
Type: Part
Status: Checked in

View: Design
Assembly Mode: Separable
Source: Make
Default Unit: each

Created By: Peter Project Manager
Created: 2007-04-02 14:37:39 EDT
Updated By: Peter Project Manager
Last Updated: 2007-04-02 14:37:39 EDT

Team Name: 147967 (OEM) - GRAIN BIN EXT B (Design)41868
State: In Work - Released - Cancelled
Location: / Challenger 660 Combine

Name	Actions	Number	Version	Context	State	Quantity	Line	Organization ID
GRAIN BIN EXT		147967	B.1 (Design)	Challenger 660 Combine	In Work			OEM
CORNER_PLATE_BIN_EXT		147721	A.3 (Design)	Challenger 660 Combine	Released	4 each		OEM
COVER_INSPECT		147475	A.4 (Design)	Challenger 660 Combine	Released	4 each		OEM
END_PLATE_BIN_EXT		147598	A.4 (Design)	Challenger 660 Combine	Released	2 each		OEM
MNT_PLATE_CORNER		147352	A.4 (Design)	Challenger 660 Combine	Released	4 each		OEM
SIDE_PLATE_BIN_EXT		147844	A.4 (Design)	Challenger 660 Combine	Released	2 each		OEM

Figure 1 – Product structure home page with copy icon.

Often times a user is trying to gather multiple related types of data to copy. The product structure page can be useful here as well. See Figure 2 below, and note that WTParts, CAD Files, and Documents can be gathered here.

Organization ID: OEM
Responsible Product: Challenger 660 Combine
Number: 147967
Name: GRAIN BIN EXT
Version: B.1
Type: Part
Status: Checked in

View: Design
Assembly Mode: Separable
Source: Make
Default Unit: each

Created By: Peter Project Manager
Created: 2007-04-02 14:37:39 EDT
Updated By: Peter Project Manager
Last Updated: 2007-04-02 14:37:39 EDT

Team Name: 147967 (OEM) - GRAIN BIN EXT B (Design)41868
State: In Work - Released - Cancelled
Location: / Challenger 660 Combine

Related Reports: Single Level BOM **Generate Report** **Current View:** Default **Go**

Actions	Number	Version	Context	State	Quantity	Line	Organization ID
<input checked="" type="checkbox"/>	147967	B.1 (Design)	Challenger 660 Combine	In Work			OEM
<input checked="" type="checkbox"/>	9790_BIN_EXT_SKEL.PRT	A.2	Challenger 660 Combine	Released			OEM
<input type="checkbox"/>	Grain Flow Test	A.2	Challenger 660 Combine	Released			OEM
<input checked="" type="checkbox"/>	9790_BIN_EXT.ASM	A.2	Challenger 660 Combine	Released			OEM
<input checked="" type="checkbox"/>	9790_BIN_EXT.DRW	A.2	Challenger 660 Combine	Released			OEM
<input checked="" type="checkbox"/>	147721	A.3 (Design)	Challenger 660 Combine	Released	4 each		OEM
<input checked="" type="checkbox"/>	GB_104194.PRT	A.3	Challenger 660 Combine	Released			OEM
<input checked="" type="checkbox"/>	147475	A.4 (Design)	Challenger 660 Combine	Released	4 each		OEM
<input checked="" type="checkbox"/>	GB_104180.PRT	A.3	Challenger 660 Combine	Released			OEM
<input checked="" type="checkbox"/>	GB_104180.DRW	A.1	Challenger 660 Combine	Released			OEM
<input checked="" type="checkbox"/>	147598	A.4 (Design)	Challenger 660 Combine	Released	2 each		OEM
<input checked="" type="checkbox"/>	GB_104214.DRW	A.1	Challenger 660 Combine	Released			OEM
<input checked="" type="checkbox"/>	GB_104214.PRT	A.3	Challenger 660 Combine	Released			OEM
<input checked="" type="checkbox"/>	147352	A.4 (Design)	Challenger 660 Combine	Released	4 each		OEM
<input checked="" type="checkbox"/>	GB_104201.PRT	A.3	Challenger 660 Combine	Released			OEM
<input checked="" type="checkbox"/>	GB_104201.DRW	A.1	Challenger 660 Combine	Released			OEM
<input checked="" type="checkbox"/>	147844	A.4 (Design)	Challenger 660 Combine	Released	2 each		OEM
<input checked="" type="checkbox"/>	GB_104169.DRW	A.1	Challenger 660 Combine	Released			OEM
<input checked="" type="checkbox"/>	GB_104169.PRT	A.3	Challenger 660 Combine	Released			OEM

Figure 2 – Multiple related object selection for copy and paste from the product structure page.

If a user desires to collect related CAD files and copy them to the Windchill PDMLink clipboard, a good place to gather them from is the Updates page on the PDMLink home page. Assuming that the models have been recently touched in a workspace, they are available here with the needed dependants collected, making it easy to gather them for copy to the clipboard. See Figure 3 below.

The screenshot shows the Windchill interface with the 'Updates' page selected. The page title is 'Welcome, Peter Project Manager' and the user is logged in as 'Peter Project Manager'. The 'Updates' section is expanded, showing a table of recent updates. A red circle highlights the 'Copy' button in the top left corner of the table area. The table contains the following data:

Name	Number	Actions	State	Last Modified	Version	Context
END PLATE, BIN EXT	147598	See Actions	Released	Apr 11, 2007, 11:59 AM	A.5 (Design)	Challenger 660 Combine
SIDE PLATE, BIN EXT	147844	See Actions	Released	Apr 11, 2007, 11:59 AM	A.5 (Design)	Challenger 660 Combine
MNT PLATE, CORNER	147352	See Actions	Released	Apr 11, 2007, 11:59 AM	A.5 (Design)	Challenger 660 Combine
GRAIN BIN EXT	147967	See Actions	Released	Apr 11, 2007, 11:59 AM	A.5 (Design)	Challenger 660 Combine
GRAIN BIN EXT	147967	See Actions	In Work	Apr 11, 2007, 11:59 AM	B.2 (Design)	Challenger 660 Combine
COVER, INSPECT	147475	See Actions	Released	Apr 11, 2007, 11:59 AM	A.5 (Design)	Challenger 660 Combine
CORNER PLATE, BIN EXT	147721	See Actions	Released	Apr 11, 2007, 11:59 AM	A.4 (Design)	Challenger 660 Combine
CORNER PLATE, BIN EXT	GB_104194.PRT	See Actions	Released	Apr 11, 2007, 11:59 AM	A.4	Challenger 660 Combine
END PLATE, BIN EXT	GB_104214.PRT	See Actions	Released	Apr 11, 2007, 11:59 AM	A.4	Challenger 660 Combine
MNT PLATE, CORNER	GB_104201.PRT	See Actions	Released	Apr 11, 2007, 11:59 AM	A.4	Challenger 660 Combine
GRAIN BIN EXT	9790_BIN_EXT.ASM	See Actions	Released	Apr 11, 2007, 11:59 AM	A.3	Challenger 660 Combine
SIDE PLATE, BIN EXT	GB_104169.PRT	See Actions	Released	Apr 11, 2007, 11:59 AM	A.4	Challenger 660 Combine
COVER, INSPECT	GB_104180.PRT	See Actions	Released	Apr 11, 2007, 11:59 AM	A.4	Challenger 660 Combine
SKELETON, BIN EXT	9790_BIN_EXT_SKEL.PRT	See Actions	Released	Apr 11, 2007, 11:59 AM	A.3	Challenger 660 Combine
Grain Bin Welds Fracturing	16407	See Actions	Resolved	Apr 11, 2007, 11:36 AM		Challenger 660 Combine

Figure 3 – CAD document collection from the recent updates page.

If a user desires WTParts, CAD files or other, then either using search or the folders page can be efficient. The search page location technique provides flexibility and allows you to combine needed parameters to find the needed objects. The folder page provides a browsing approach to gather data for copy to the Windchill PDMLink clipboard. See Figure 4 and Figure 5 for examples of these.

The screenshot shows the Windchill search interface. At the top, there are navigation tabs: Home, Product, Project, Change, Library, Organization, and Suppliers. A search bar is located on the right. Below the navigation, there are links for Overview, Assignments, Updates, Checked-Out Work, Workspaces, Meetings, Notebook, Subscriptions, Reports, and Utilities. The search section includes options for Advanced Search and Classification Search, along with Saved Searches. The search criteria section allows defining the scope of the search, including search in (All Contexts), search for (Document, EPM Document, Part), and selecting search criteria (Name, Organization, Last Updated, Created). The search results section displays a table of results for the search term 'GRAIN BIN EXT'. A red arrow points to the 'Copy to Clipboard' icon in the search results table.

Search Criteria:
 Keyword:
 Show Results: With All of These Criteria With Any of These Criteria
 Results Per Page: 25
 Define Scope of Search: Search In: All Contexts Apply selection only to contexts I'm a member of.
 Search For: Document, EPM Document, Part [Customize...](#)
 Select Search Criteria:
 Name: GRAIN BIN EXT Number:
 Organization: Find...
 Last Updated: - Select Range - From: MM/DD/YYYY To: MM/DD/YYYY
 Created: - Select Range - From: MM/DD/YYYY To: MM/DD/YYYY
 Search Clear Save This Search

Search Results (4 items)

Name	Number	Thumbnail	Actions	Context	Version	State	Organization	Last Updated	Created
GRAIN BIN EXT	9790_BIN_EXT.ASM		See Actions	Challenger 660 Combine	A	Released	OEM	04/11/2007	11/12/2003
GRAIN BIN EXT	9790_BIN_EXT.DRW		See Actions	Challenger 660 Combine	A	Released	OEM	02/18/2004	11/13/2003
GRAIN BIN EXT	147967		See Actions	Challenger 660 Combine	A	Released	OEM	04/11/2007	02/18/2004
GRAIN BIN EXT	147967		See Actions	Challenger 660 Combine	B	In Work	OEM	04/11/2007	04/02/2007

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Figure 4 – Searching can be used to collect multiple objects related or unrelated for easy copying to the Windchill PDMLink clipboard.

The screenshot shows the Windchill 'Folders' page for the product 'Challenger 660 Combine'. The page displays a table of folders and their contents. A red circle highlights the 'Copy' button in the toolbar. The table has columns for Name, Actions, Number, Version, State, and Modified By. The 'Name' column lists various folders and files, including 'Body Panels', 'Design', 'Documents', 'Drive Axle', 'Engine Bay', 'Feeder Housing', 'Full Cab', 'Grain Bin', 'Grain Bin Extension', 'Drawings', 'CORNER PLATE, BIN EXT', 'COVER, INSPECT', 'END PLATE, BIN EXT', 'GRAIN BIN EXT', 'MNT PLATE, CORNER', 'SIDE PLATE, BIN EXT', 'CORNER PLATE, BIN EXT', 'COVER, INSPECT', 'END PLATE, BIN EXT', 'GRAIN BIN EXT', 'MNT PLATE, CORNER', 'SIDE PLATE, BIN EXT', 'SKELETON, BIN EXT', 'Grain Bin Frame', and 'Parkinn Brake'. The 'Actions' column contains 'See Actions' links. The 'Number' column contains file numbers like 'GB104194.DRW', 'GB_104180.DRW', 'GB_104214.DRW', '9790_BIN_EXT.DRW', 'GB_104201.DRW', 'GB_104169.DRW', 'GB_104194.PRT', 'GB_104180.PRT', 'GB_104214.PRT', '9790_BIN_EXT.ASM', 'GB_104201.PRT', 'GB_104169.PRT', '9790_BIN_EXT_SKEL.PRT'. The 'Version' column contains version numbers like 'A.1', 'A.2', 'A.3', 'A.4'. The 'State' column contains 'Released'. The 'Modified By' column contains names like 'Dave Design Engineer' and 'Peter Project Manager'.

Name	Actions	Number	Version	State	Modified By
Body Panels	See Actions				
Design	See Actions				
Documents	See Actions				
Drive Axle	See Actions				
Engine Bay	See Actions				
Feeder Housing	See Actions				
Full Cab	See Actions				
Grain Bin	See Actions				
Grain Bin Extension	See Actions				
Drawings	See Actions				
CORNER PLATE, BIN EXT	See Actions	GB104194.DRW	A.1	Released	Dave Design Engineer
COVER, INSPECT	See Actions	GB_104180.DRW	A.1	Released	Dave Design Engineer
END PLATE, BIN EXT	See Actions	GB_104214.DRW	A.1	Released	Dave Design Engineer
GRAIN BIN EXT	See Actions	9790_BIN_EXT.DRW	A.2	Released	Dave Design Engineer
MNT PLATE, CORNER	See Actions	GB_104201.DRW	A.1	Released	Dave Design Engineer
SIDE PLATE, BIN EXT	See Actions	GB_104169.DRW	A.1	Released	Dave Design Engineer
CORNER PLATE, BIN EXT	See Actions	GB_104194.PRT	A.4	Released	Peter Project Manager
COVER, INSPECT	See Actions	GB_104180.PRT	A.4	Released	Peter Project Manager
END PLATE, BIN EXT	See Actions	GB_104214.PRT	A.4	Released	Peter Project Manager
GRAIN BIN EXT	See Actions	9790_BIN_EXT.ASM	A.3	Released	Peter Project Manager
MNT PLATE, CORNER	See Actions	GB_104201.PRT	A.4	Released	Peter Project Manager
SIDE PLATE, BIN EXT	See Actions	GB_104169.PRT	A.4	Released	Peter Project Manager
SKELETON, BIN EXT	See Actions	9790_BIN_EXT_SKEL.PRT	A.3	Released	Peter Project Manager
Grain Bin Frame	See Actions				
Parkinn Brake	See Actions				

Figure 5 – Multiple related or unrelated object types can be collected from the folders page and copied to the Windchill PDMLink clipboard.

Using the location techniques described above a user can collect various types of Windchill data, in a more efficient manner, and copy it to the Windchill PDMLink clipboard for use in the change objects and elsewhere.

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Announcements

Educational Resource Library

Learn things you always wanted to do - but didn't know you could.

This one stop educational resource library will help you learn more about PTC Solutions and provide you with technical materials developed by the product experts to help you become more productive.

Get tutorials, how-to videos and expert advice for:

- Pro/ENGINEER
 - Conceptual and Industrial Design
 - Detailed Design
 - Simulation/Analysis
 - Production
 - Design Collaboration
- Windchill PDMLink
- Windchill ProjectLink
- Pro/INTRALINK
- PTC Online Tools

Check out the [Educational Resource Library](#) today.

PTC Tips & Techniques Newsletter Archives

Miss an issue! Can't find that awesome technique you read about? Fear not, you can click on the link below and go through our Customer PTC E-Newsletter archives.

[Click Here To Access](#)

It's better than finding the Covenant of the Ark!

PTC Tips & Techniques Webcasts: Work Smarter. Not Harder.

Click below to see regularly scheduled Tips & Techniques technical Webcasts that are designed to provide you with the most popular time-saving tricks that Pro/ENGINEER users of all skill levels will find useful. Get more out of your maintenance dollars!

[Tips & Techniques: Work Smarter Not Harder!](#)

E-PROFILES IS HERE!!

We have been eagerly anticipating the debut of the new electronic version of Profiles Magazine and now it is here! This new web site will supplement the print edition of the magazine and will

provide new useful features not feasible with paper media. e-Profiles will provide you with 24x7, worldwide access to key information previously available exclusively in the print version. "Tips & Tricks," a popular feature pioneered by Pro/USER, has also moved to the web and will be expanded as the site matures.

Please take a few minutes to check out this new web site. We don't think you will be disappointed.

<http://profilesmagazine.com/>

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Upcoming Events & Training Class Schedules

Upcoming, 2007 Your local Pro/Engineer User Groups
<http://www.ptcuser.org/rugs/>

June 3 - 6, 2007 Tampa, Florida
PTC/USER World Event
<http://www.ptcuser.org/>

Events

Our seminars and conferences seek to provide you with relevant information regarding product development trends in your industry as well as innovative software learning experiences. Think of them as a constructive day off where you can share experiences and swap ideas with your peers.

If you can't manage to get away, we'll bring it to you. Check back often for regularly scheduled live webcast events.

[You're Invited to Attend...](#)

Please visit the [PTC Education Services](#) website for the latest training information including course descriptions, schedules, locations, and pricing.

- Attend a course at any PTC Center and receive a **free** copy of Pro/ENGINEER Wildfire Student Edition!

<http://www.ptc.com/services/edserv/index.htm>

Live Instructor-Lead Virtual PTC Training Courses

Virtual Classrooms provide interactive learning with a trained PTC instructor in convenient and manageable sessions that last approximately 4 hours over a series of days. It's easy to join a class right from your desk using a phone or voice-over IP technology.

Sessions are performed just like a traditional ILT (including interactive exercises where you and the instructor can work on lab exercises together) and feature some of our most popular ILT courses. These sessions cover the exact same material as the traditional ILT in-center courses. Also look for some of our most frequently requested mini-topics delivered in the same format that are only an hour - two hours in duration.

If you have any questions about these sessions or would like to see getting other courses, not on this list, on the schedule please feel free to contact me for more details. They are a great way to bring training to you without you having to worry about location or being out from work for long stretches.

You can register for these sessions just as you would for any normal ILT class either by:

1. calling order admin at <http://www.ptc.com/services/edserv/training/registra.htm> or
2. you can go to PTC University directly at <http://www.ptc.com/learning> and submit a registration request directly. All you have to do is search the catalog by typing in “virtual” in the search field and you will see a listing.

PTC

Note: This PTC E-Newsletter will continue to be used for the following:

- 1) Inform you on events related to PTC products (user groups, conferences, training schedules, etc.)
- 2) Educate you on solutions that are available at PTC
- 3) Tips & Techniques using PTC Products

Note: These messages are compiled in the local PTC office and will be distributed via e-mail.

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