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PTC Product Focus

Pro/ENGINEER ADVANCED ASSEMBLY

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PTC Product Focus

Working with Product Structure Views & Annotations in PDMLink?

What are Product Structure Views?

PDMLink offers the possibility to work with different product structures views.

Different actors within a digital product value chain, look at a product and constituent parts from different usage perspectives

- Design perspective
- Manufacturing planning perspective
- Maintenance perspective

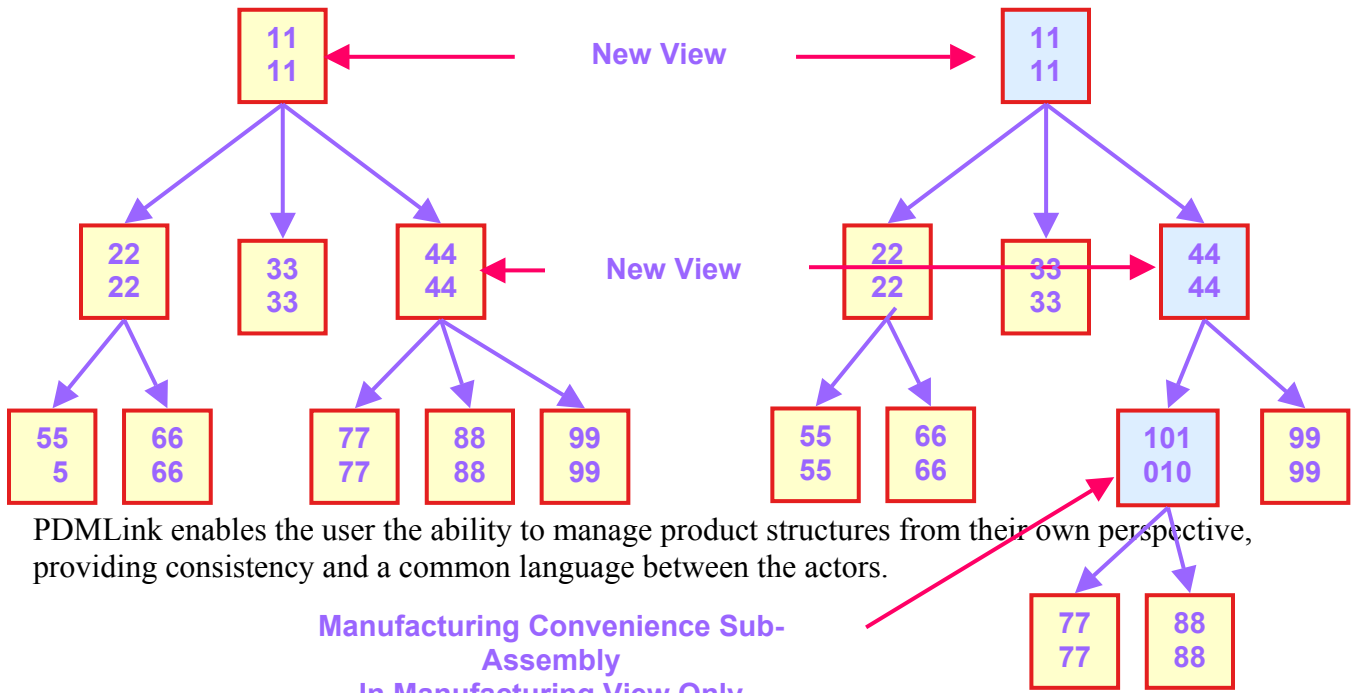
Usually labeled with an “As” prefix

- As-Designed
- As-Planned
- As-Built
- As-Maintained

Described in a chronological sequence, e.g. As-Designed comes before As-Planned
Carry a unique version designator, e.g. Part 123 Version A.A

As-

As-



PDMLink enables the user the ability to manage product structures from their own perspective, providing consistency and a common language between the actors.

**Manufacturing Convenience Sub-Assembly
In Manufacturing View Only**

Design View

Name	Number	Version	State	Quant
399859 - WX2211 Motorbike, A				

Manufacturing

Name	Number	Version	State	Quant
399859 - WX2211 Motorbike, A				
WX2211.ASM - wx2211.asm, A.A (Manufacturing)	wx2211.ASM	A.A	In Work	
0000000044 - Assembling operations, A (Manufacturing)				
2D_CONTOUR.PRT - 2d_contour.prt, A (Design)				
0000000043 - Milling operations, A (Manufacturing)				

Annotations

Customers may require an electronic change proposal mechanism that does not necessarily change the product structures in the PDM system database.

These proposals are shared

- In an ad-hoc fashion,
- or as part of a formal change process.

When the change is agreed upon, the proposal can be used to make the actual change.

General Requirements

Structure Markups will be created using Product Information Manager (PIM)

Structure Markup will support the annotation of

- “Uses” relationships
- Quantity
- Version
- Old parts to create new parts

All markups will be related to the top assembly node in markup session.

It will be possible to create multiple structure markups for each top assembly node.

Adherence to configuration management business rules will be the responsibility of the user.

General Capabilities

Structure annotations will be stored in the Windchill database so that users can search for, retrieve and modify them.

Parts that have been annotated up will not be locked.

Only one user at a time will be able to modify a structure annotation set.

It will be possible to “Apply” a structure annotation set, causing all annotated parts to be modified in the Windchill database.

Capabilities

Create / Open from the PIM

Annotation Types

Add Child

New Child

- Remove
- Revise
- Save As
- Change Quantity

!Cut / Copy / Past Parts
!Revert Selected Annotation
!Save Annotation Set
!Apply Annotation Set

The screenshot shows a software window titled "Structure Annotation: Alternative A (Move slipper mount page assembly)". The interface includes a menu bar (File, Edit, Annotations), a toolbar, and a main table with columns: Chg, Name, Number, Qty, Rev, and Comments. A tree view on the left shows a hierarchical structure of parts. A console at the bottom displays the message "Existing structure has been duplicated".

Chg	Name	Number	Qty	Rev	Comments
*	Tandem_Wheels	TMP-0001	1	A	
+	Slipper_Mount	5000-310	4	A	
+	Undercarriage	5000-210	2	B	
↔	Fender_12	5000-311	3	A	
	Ubolt	5000-309	2	A	
-	Spring_bracket	5000-308	2	A	
	Slipper_Spring	5000-307	2	A	
	Dust_Cover	5000-306	2	A	
	Axle_Cover	5000-305	1	A	
	Tire_12	5000-304	2	D	
	Shaft_Bearing	5000-303	2	C	
	Hub	5000-302	2	A	
	Axle	5000-301	1	A	
*	Lock_Washer	TMP-0005	1	A	
+	Spring_bracket	5000-308	1		

Callouts in the image point to various actions:

- Save As**: Points to the "Save" menu item.
- Revise**: Points to the "Rev" column in the table.
- Change Quantity**: Points to the "Qty" column in the table.
- Add**: Points to the "+" icon in the "Chg" column.
- Remove Child**: Points to the "-" icon in the "Chg" column.
- New**: Points to the "*" icon in the "Chg" column.
- Cut, Copy Paste**: Points to the "↔" icon in the "Chg" column.
- Revert Annotation**: Points to the "Revert Selected Annotation" menu item.

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Tips of the Week

Flatten Quilt Features & Bend Solid Features

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Tips of the Week

Part Definitions

What is a part in Windchill?

- Place holder in a physical product structure model
- Can be either a component or an assembly
- Described by:
 - Attributes
 - Relationships to other parts
 - Attachments to Documents containing data

Part information is stored on two objects

- The Part Master
- The Part Version

What is a Part Master?

- Records information about Parts that does not change with the creation of new versions
- Represents “Form, Fit & Function” required by assembly
- Is hidden from the Windchill user

- Has attributes such as:
 - Name (Shaft)
 - Number (12345)

What is a Part Version?

- Records information that is unique to a specific point in a Part’s design life cycle
- Caries a version designator such as “A” or “1”
- References Windchill Documents which are unique to that version such as:
 - Specifications

- CAD models

All Revisions of a specific Part are “Form, Fit and Function” compatible and may be substituted one for another

Serialized Part - Definition

A Part Occurrence with a serial number

Example: blades in jet engine plane (same part number and version, but blades need to be track separately with serial number)

- Serial numbered part represents a part, typically provided by a supplier, that can be individually identified by its serial number.
- A serial numbered part is a kind of part (i.e. it is a sub-class of WTPart); however, serial numbered parts do not have part-to-part usages with child parts
- Serialized Part is a part that can be allocated and assigned a serial number.

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Announcements

Customer PTC E-Newsletter Survey

For the past 2 years I've been sending you our Customer PTC E-Newsletter such as this one.

In an attempt to deliver the highest quality and create the most value we would like to use this survey to further our "Learning" Relationship with you, our Customers. Even if you are a first time recipient of the newsletter, please feel free to share your comments on this one you're reading.

It will not take longer than a few minutes to fill out this quick survey as your input is invaluable and we greatly appreciate your input. Please click on the following link to begin:

[To Enter Survey, Please Click](#)

Please note it may be impossible to "Customize" the newsletter to meet every individual request however we will attempt to integrate as many ideas as possible.

Thank-you very much for your time and feedback as we try to improve this value-added service.

PTC Sponsored Events

Click below to see PTC sponsored events:

<http://www.ptc.com/company/news/events/index.htm>

Click on the poster to gain access to the Product First Virtual Event resource center!! See the software and pick up a screen-saver or two.



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. Future plans include several foreign-language editions of Profiles for our many international readers. Currently, Profiles is printed in English and Japanese.

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, 2003 Your local Pro/Engineer User Groups
<http://www.prouser.org/rugs/>

Upcoming, 2003 Pro/USER International Conference
<http://www.prouser.org/>

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/E 2001 Student Edition!

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

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 products 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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