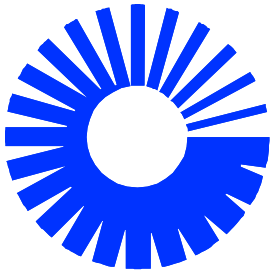

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PDMLink

Resolving Ghost Objects

Scott Armstrong – OECF

Nick Ely - Bloomington

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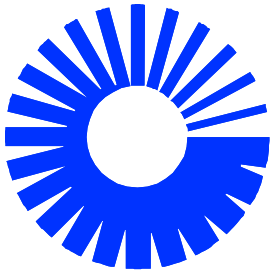

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Ghost Object Tips

Ghost Object: An incomplete CAD object created by PDMLink to satisfy a relationship from within Pro/E

Ghost Object Tips

Ghost Objects can be time consuming and complex to resolve and may require multiple methods defined within this document to resolve. In some cases you may not be able to remove the Ghost Object referenced and may need to recreate CAD Objects. You may also create a "fake" CAD Object that is named the same as the Ghost Object (*note: this is not recommended and is considered a violation of Otis' standard modeling, assembly, and drafting practices. This method may only be used by approval of Scott Armstrong, Ray Drennen, or Nick Ely after all other options have been exhausted*).

Suppressed Family Table Objects

In some cases Ghost Objects are created in a workspace due to suppressed family table objects. To resolve this type of Ghost Object you simply need to open and save the object to your workspace.

Pro/Program Objects

In some cases Ghost Objects are created in a workspace due to objects within Pro/Program that have not been brought into session. To resolve this type of Ghost Object you simply need to open and save the object to your workspace.

You may need to review the Pro/program and remove all execute statements referenced by the missing part numbers.

Merged Feature Objects

Some part files may contain a Ghost Object caused by a reference when a Merged Feature is created. There are two methods to resolve this issue. First try to open and save the referenced object to your workspace. If the object does not exist try to change the merged feature from dependant to independent by editing the definition of the feature.

Ghost Object Tips

Casper Ghosts

These are friendly Ghosts, there is no way to tell the difference by looking at them. If the Pro/E files have previously been checked in (not just uploaded) the Ghost are probably ok and you wont need to worry about them. There are two easy ways to fix Casper Ghosts:

1. Select the Ghost and click Update.
2. Go ahead and try and check in the items that you need to. PDMLink and Pro/E will sometimes create Ghosts and then it will remove them automatically upon check in. If you get an error check the event manager and if it is due to a Ghost proceed to the appropriate section to resolve.

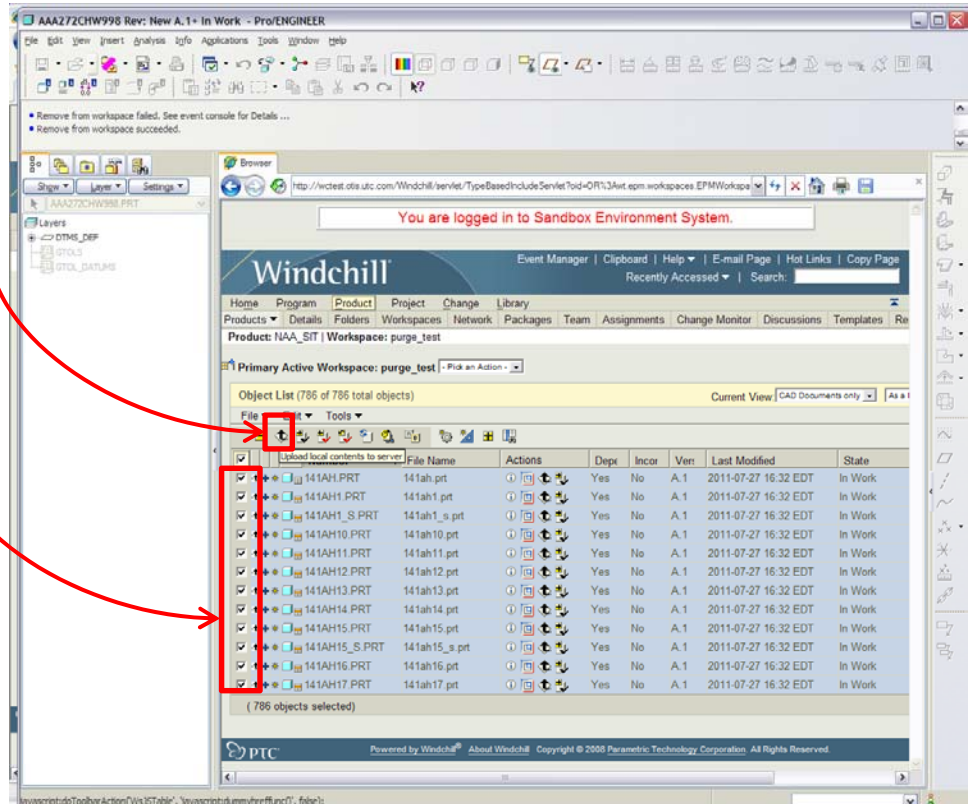
Ghost Object Tips

Referential Integrity Violation

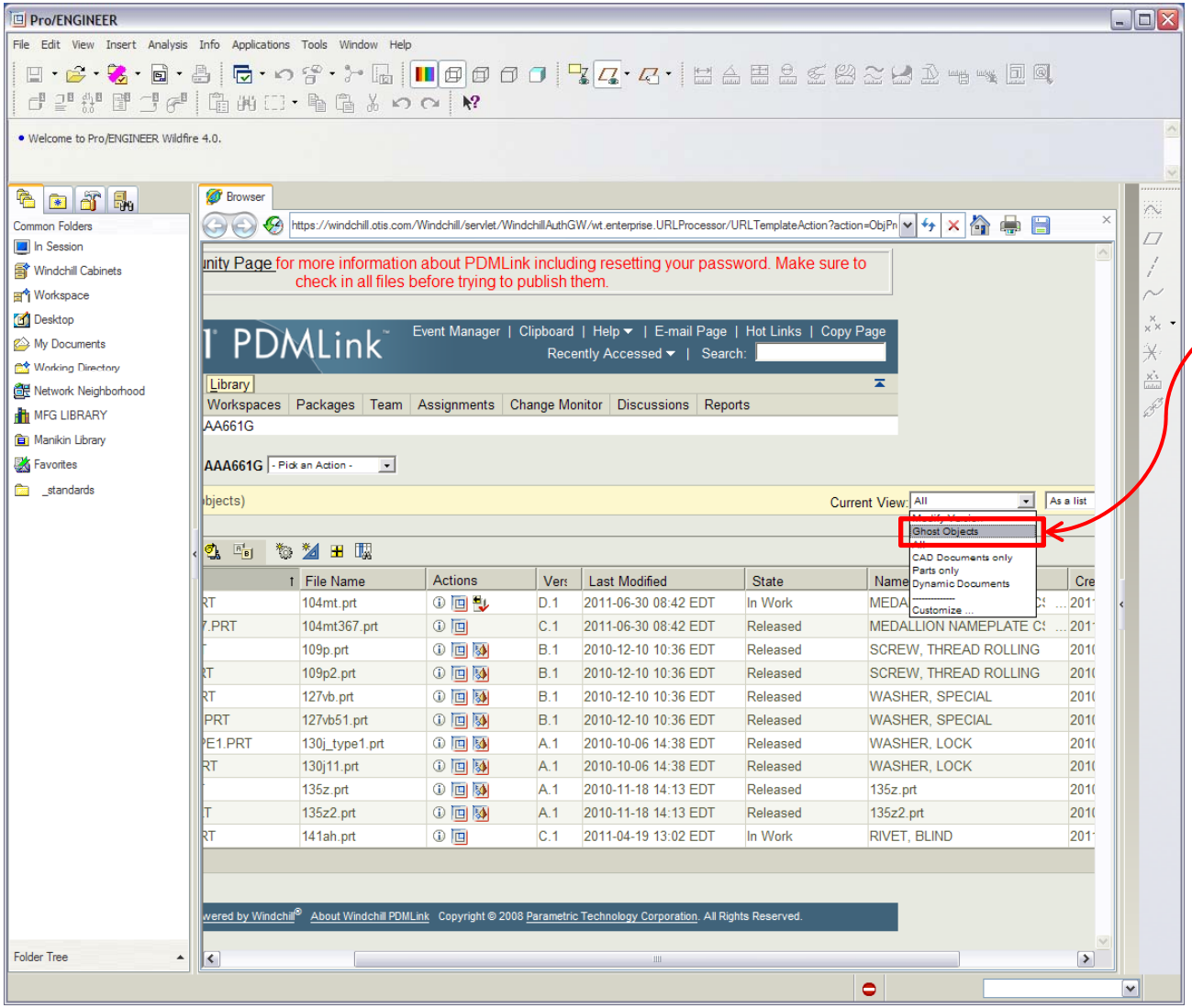
In some cases you may get this when you try and remove/delete a Ghost from your workspace. This simply means that there is an object on your server side workspace that is referencing the ghost (you can upload Ghosts and Pro/E files that reference Ghosts, but you cannot check them in). To resolve this you must upload the Pro/E files that had a reference to the Ghost before you broke the relationship.

Select Upload 2

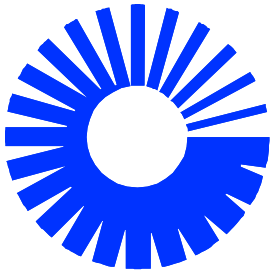
Select the Items to upload 1



Ghost Object Tips



You can change the view to only show Ghost Objects in your Workspace



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Removing Drawing Ghost Objects

Config.pro Method

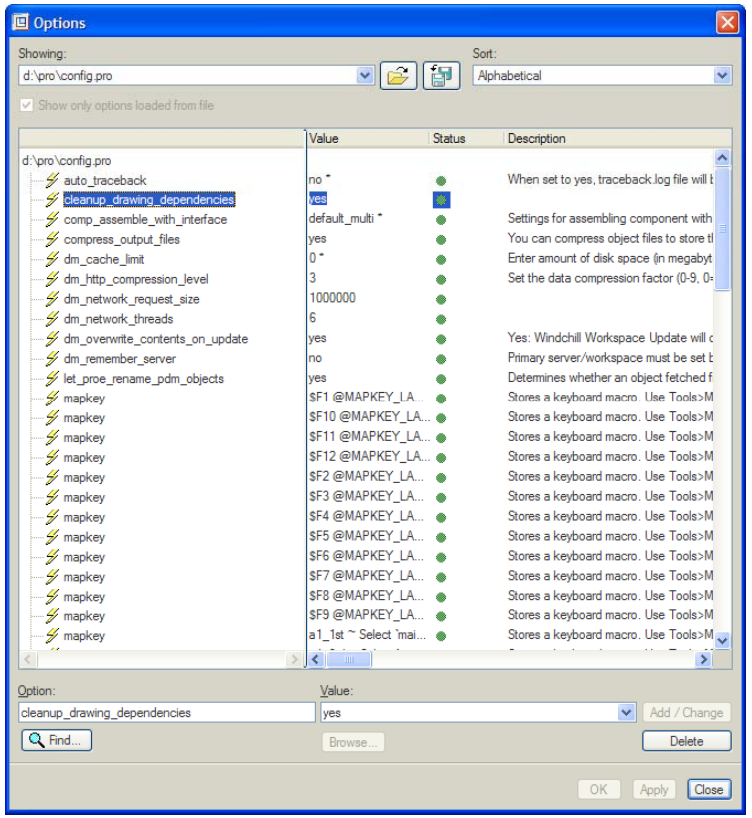
Removing Drawing Ghost Objects

Another method for removing ghost objects from a drawing is to set Pro Engineer configuration settings to allow for missing dependencies to be removed.

Note users must change the config.pro settings for this function to work.

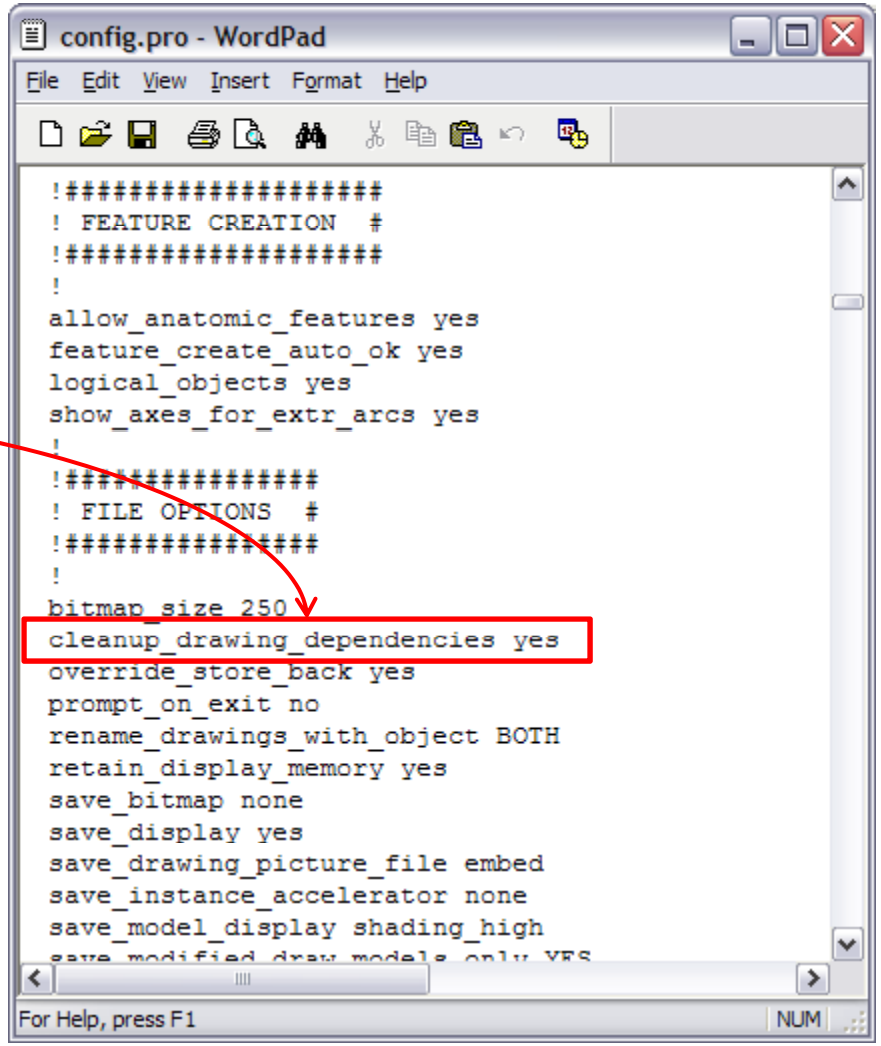
Perform the following steps to setup:

1. In Pro Engineer click Tools – Options
2. In the Options field type **cleanup_drawing_dependencies** (this is a hidden option and MUST be typed exactly)
1. In the Value field type Yes
2. Select the Add/Change button
3. Select Apply
4. Select OK
5. Select Close



Removing Drawing Ghost Objects

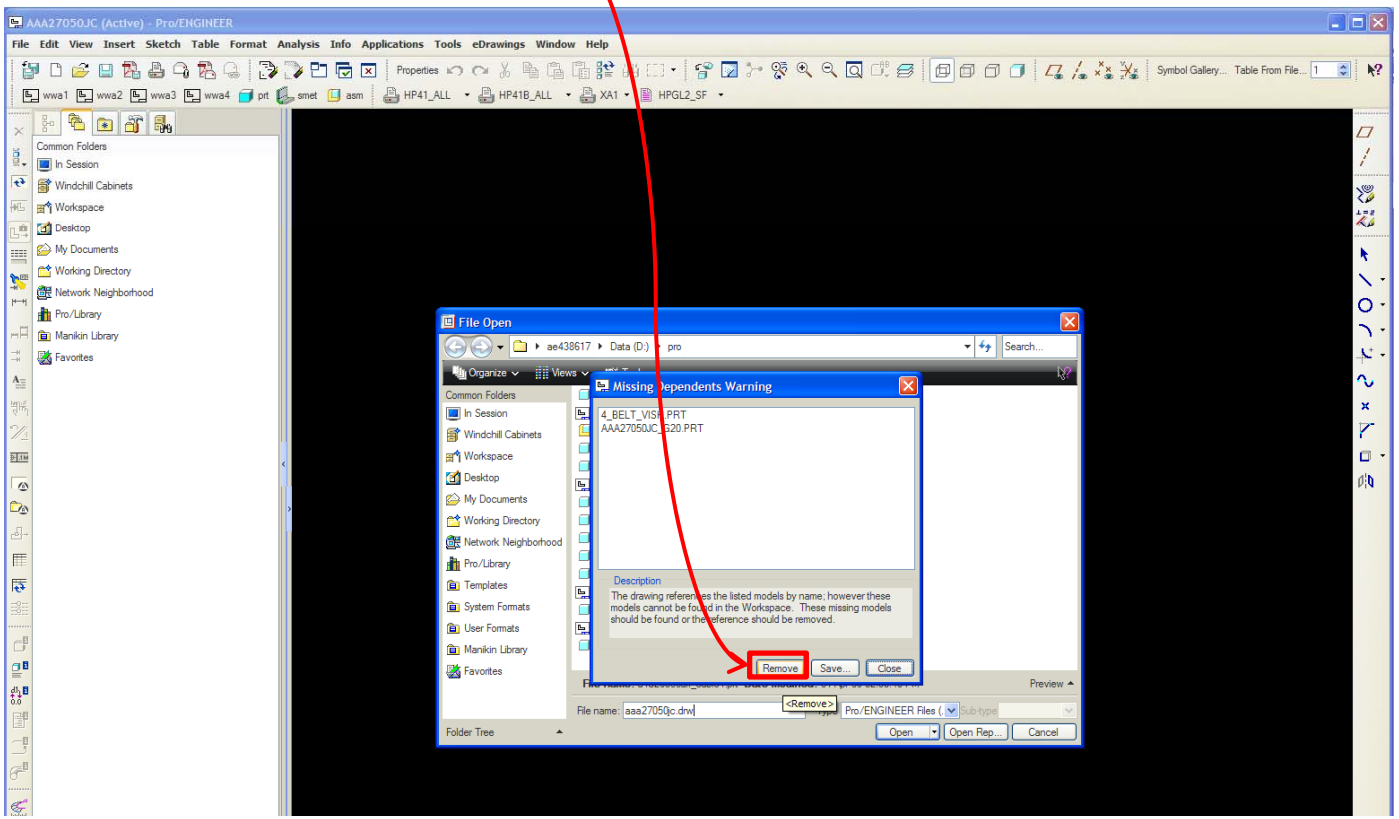
You may also edit
your config manually

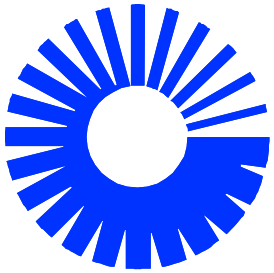


Removing Drawing Ghost Objects

When connected to PDMLink and opening a drawing that contains missing references the Missing Dependents Warning window will open.

Select Remove to break missing references. 1





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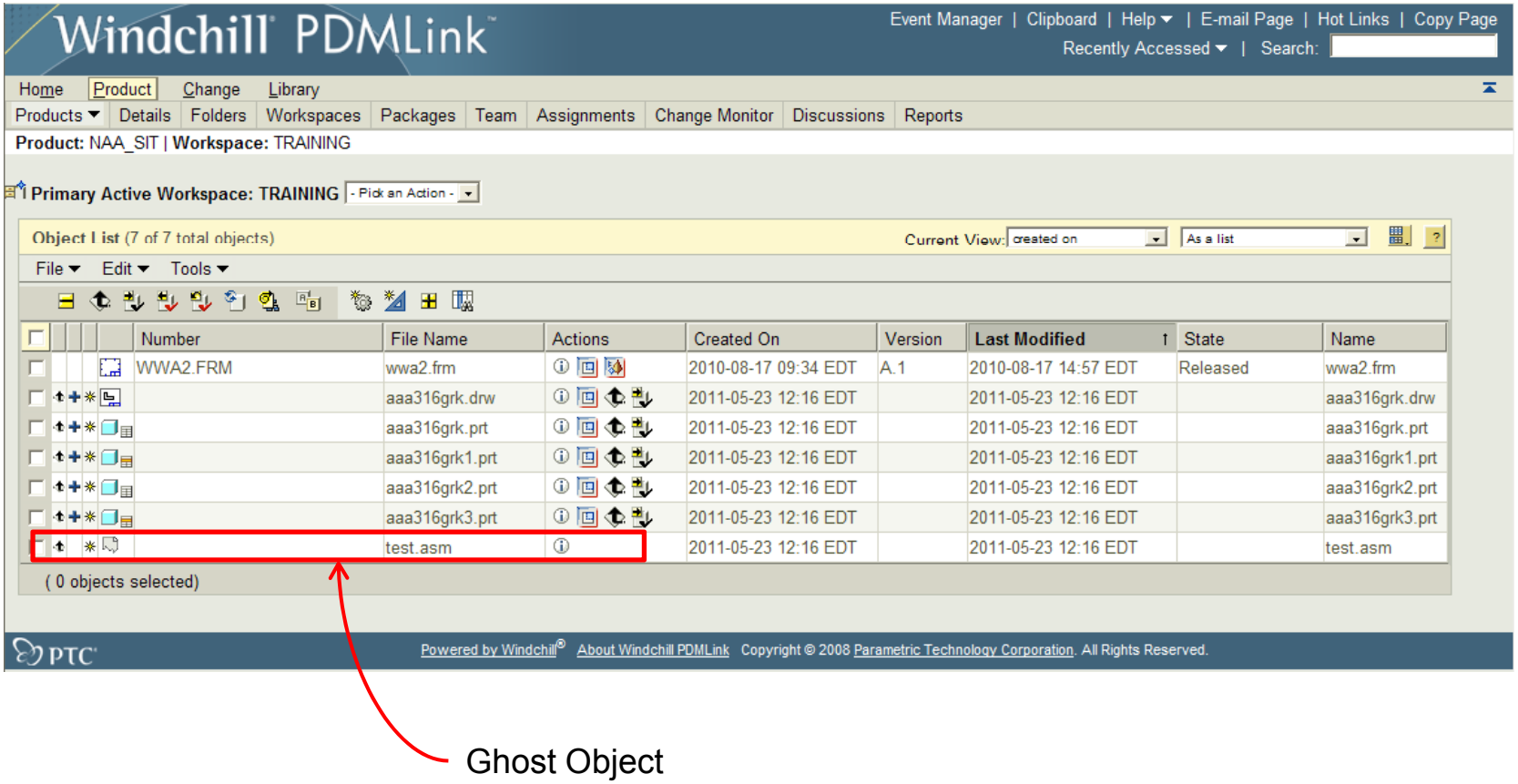
Removing Drawing Ghost Objects

Removing Drawing Ghost Objects

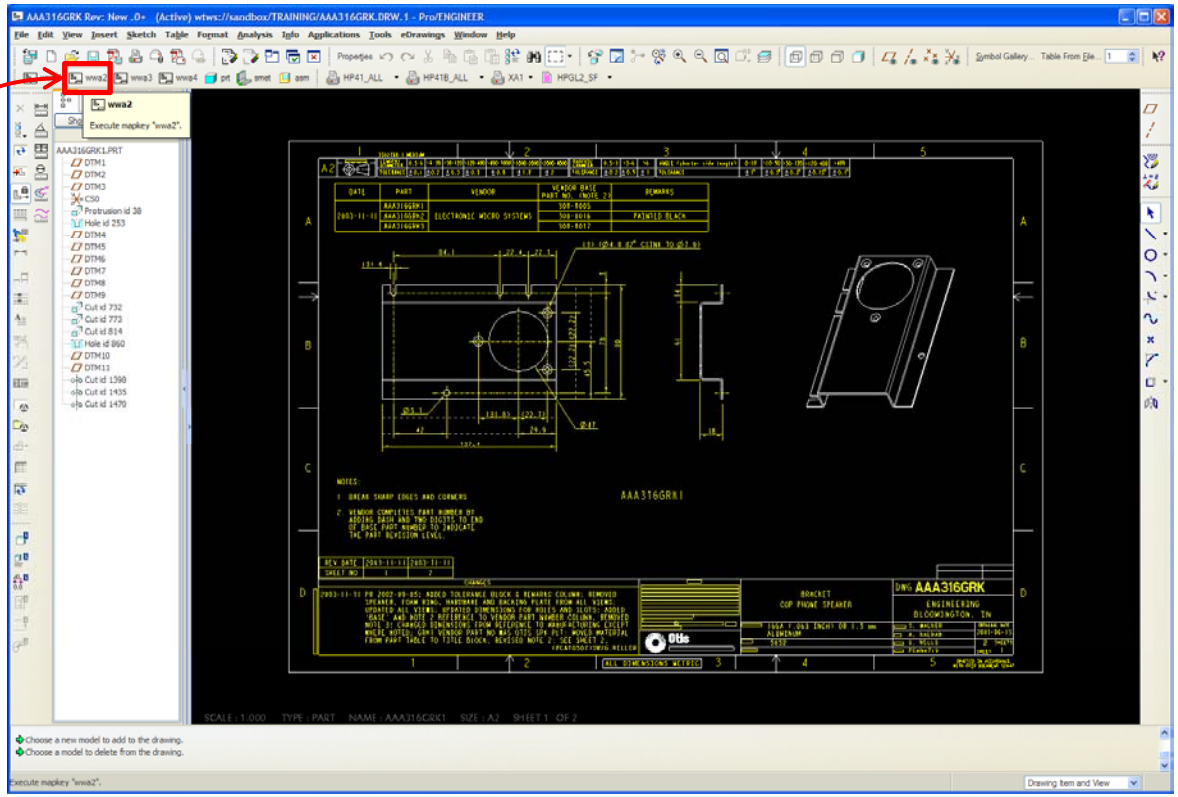
In some cases a user may find a ghost object that is not related to a CAD part or assembly but is associated to the drawing CAD Object only.



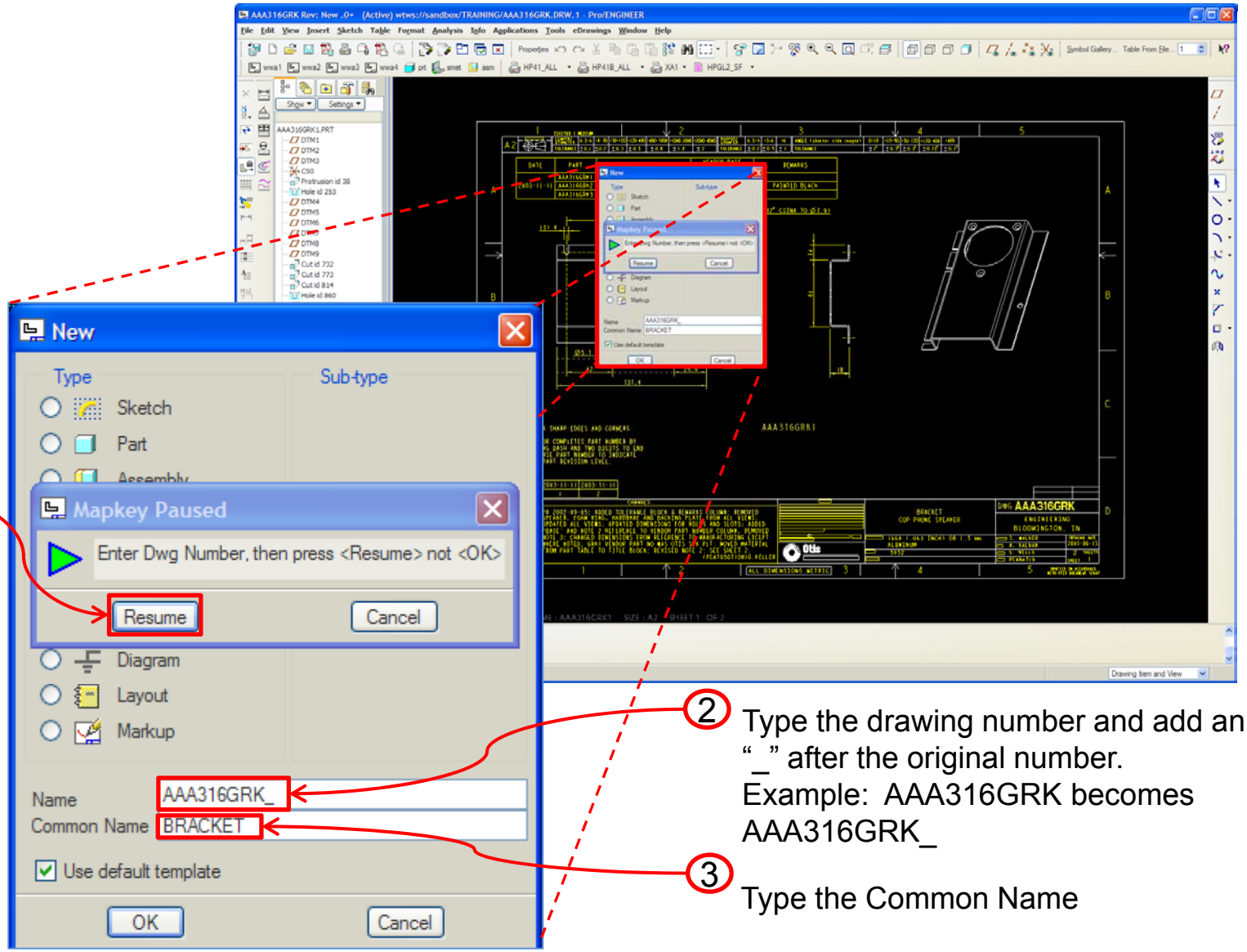
Removing Drawing Ghost Objects

1

Create a drawing that is the same size and the units as the original (in this example the drawing is size A2 and is metric).



Removing Drawing Ghost Objects



4 Click Resume

2 Type the drawing number and add an "_" after the original number. Example: AAA316GRK becomes AAA316GRK_

3 Type the Common Name

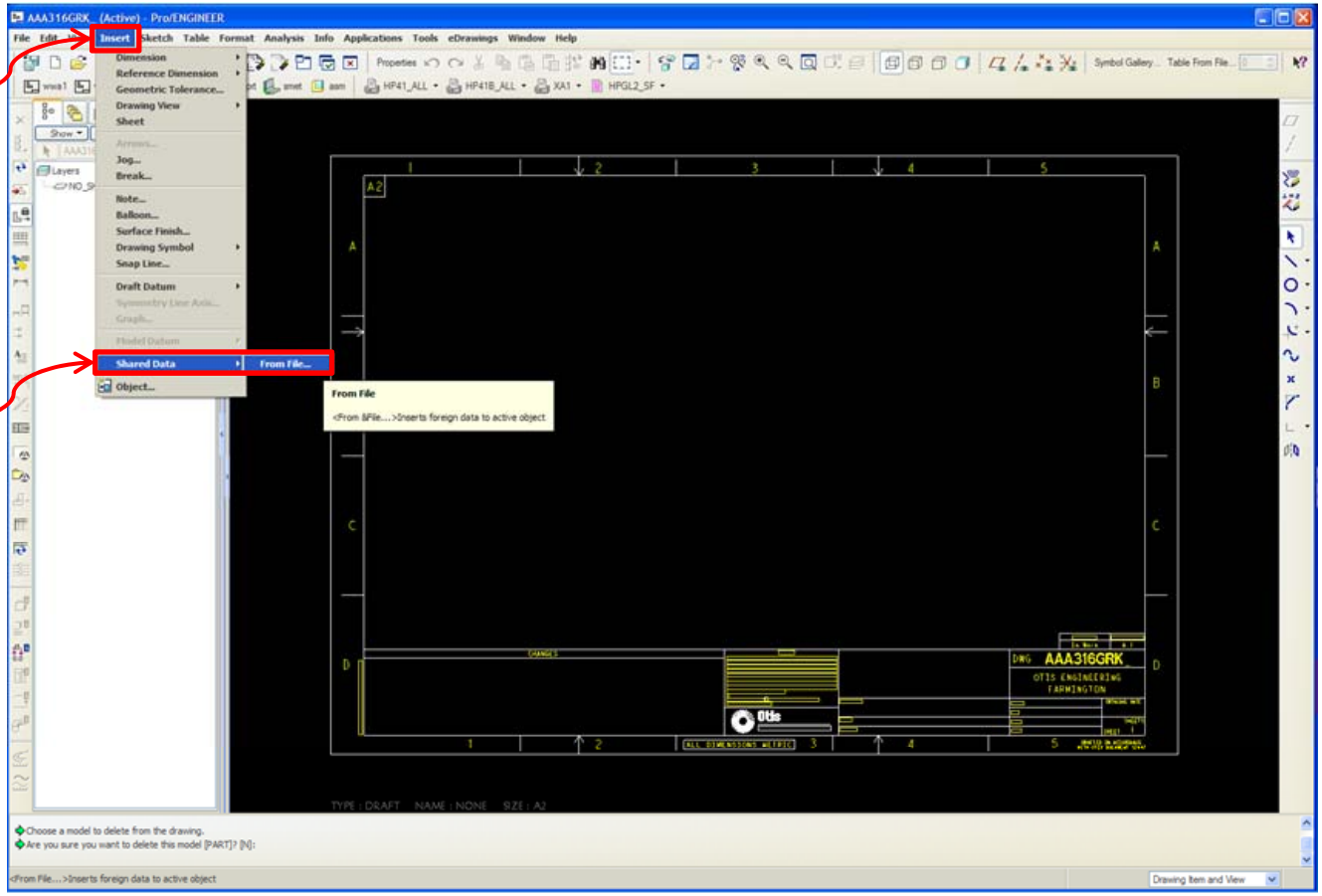
Removing Drawing Ghost Objects

5

Click: Insert

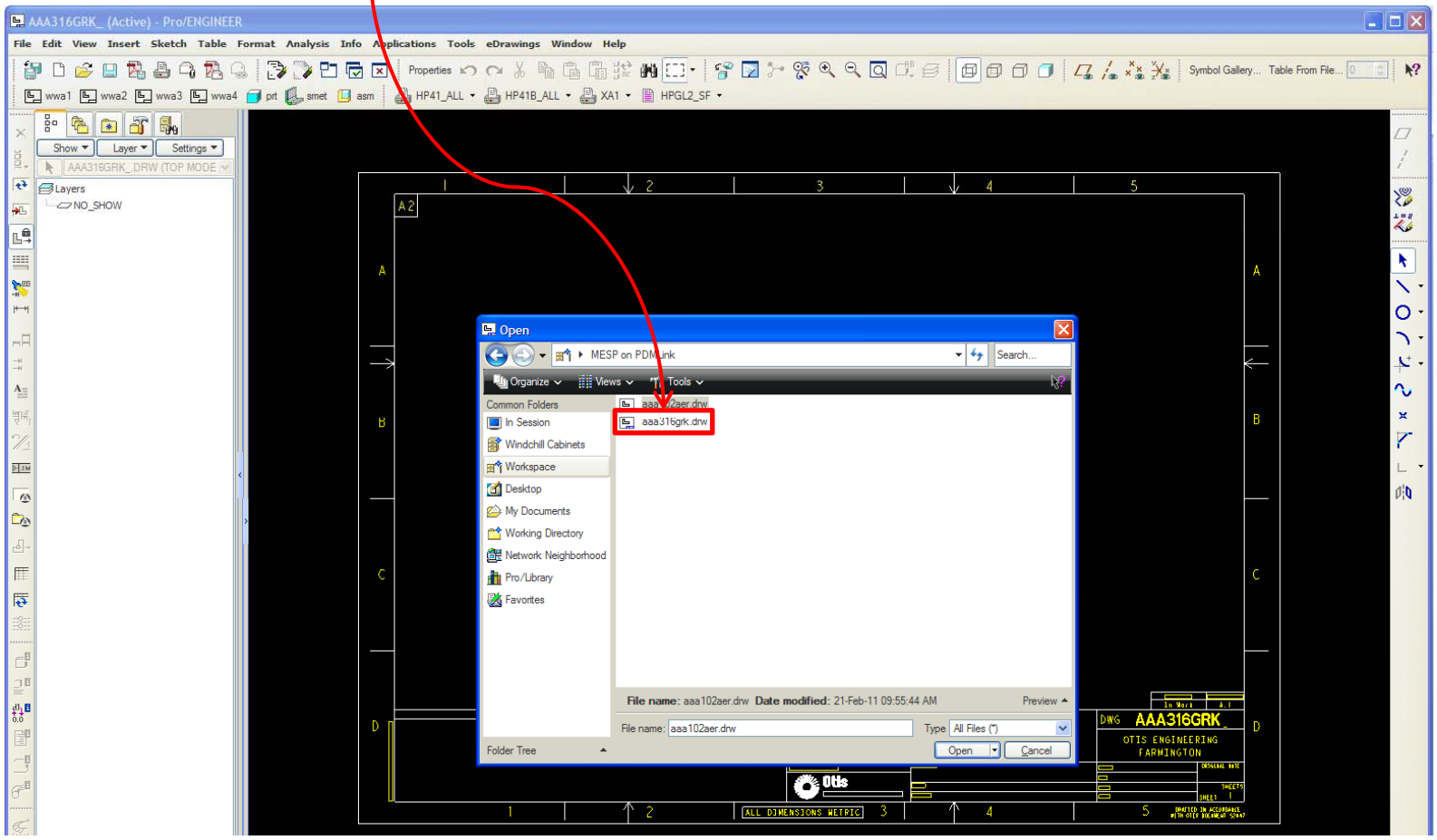
6

Click: Shared Data
– From File

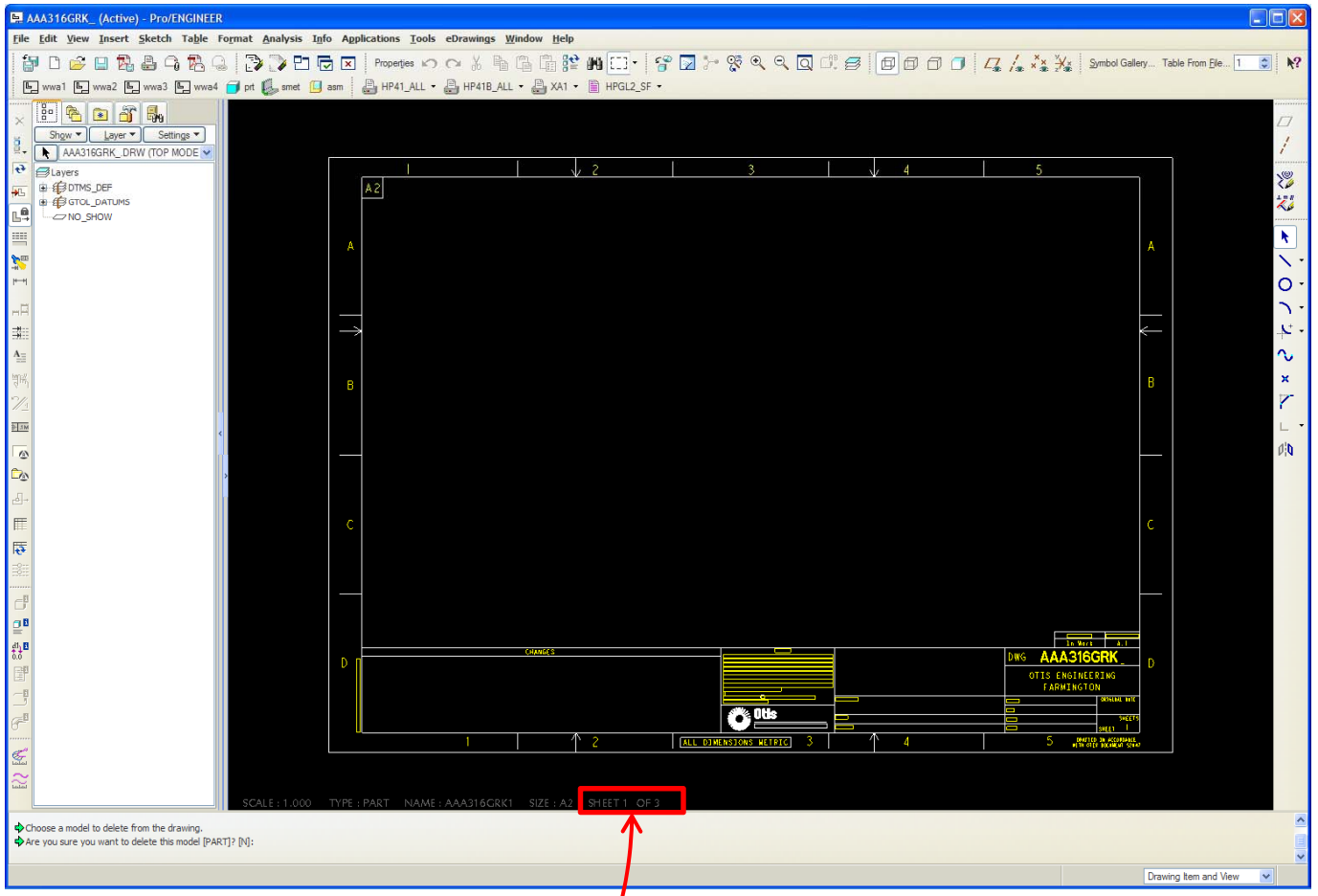


Removing Drawing Ghost Objects

7 Select the drawing containing the Ghost Objects. In this example the drawing is AAA316GRK.



Removing Drawing Ghost Objects

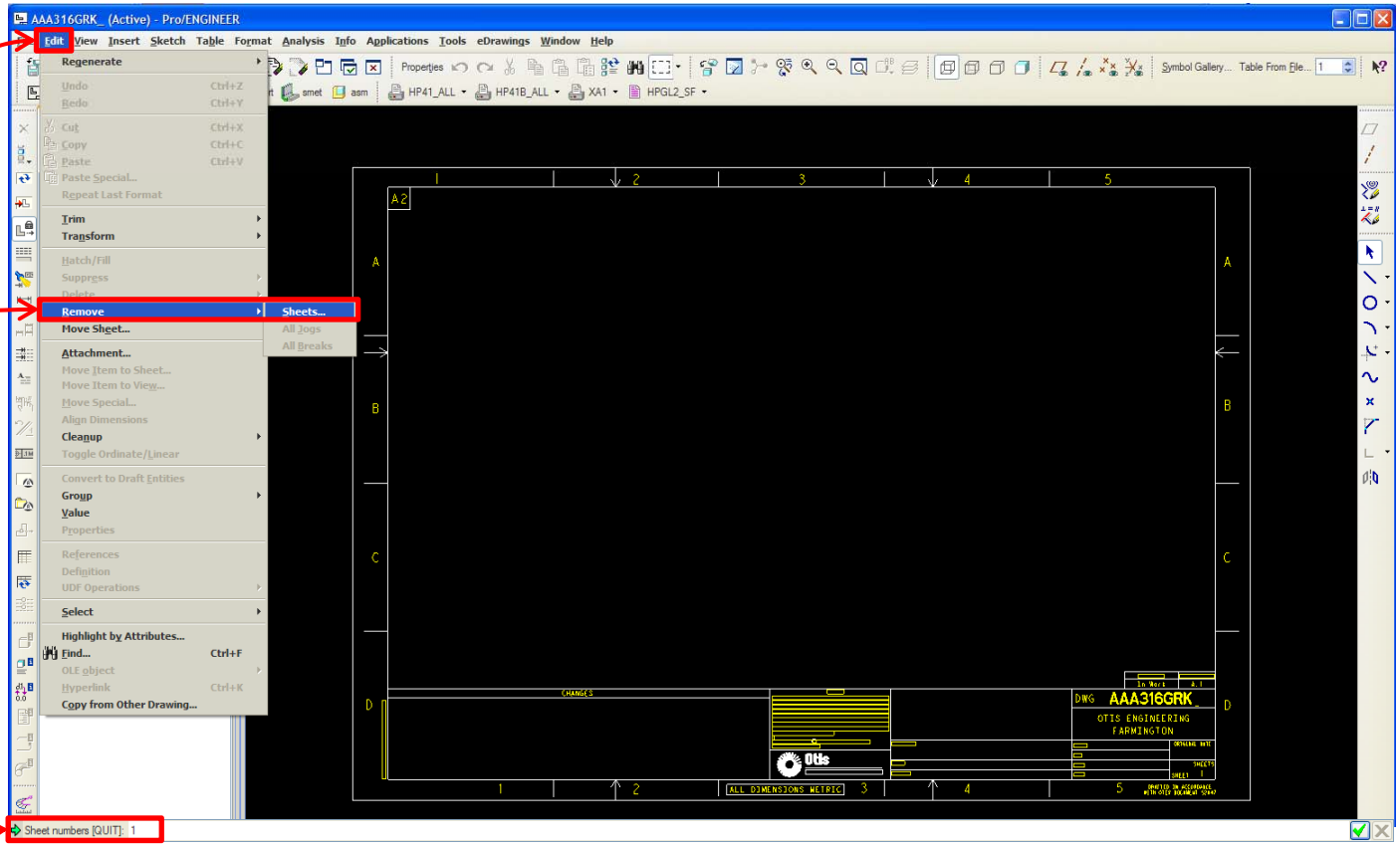


You will notice that the drawing now contains 3 sheets. The drawing AAA316GRK has been imported into drawing AAA316GRK_

Removing Drawing Ghost Objects

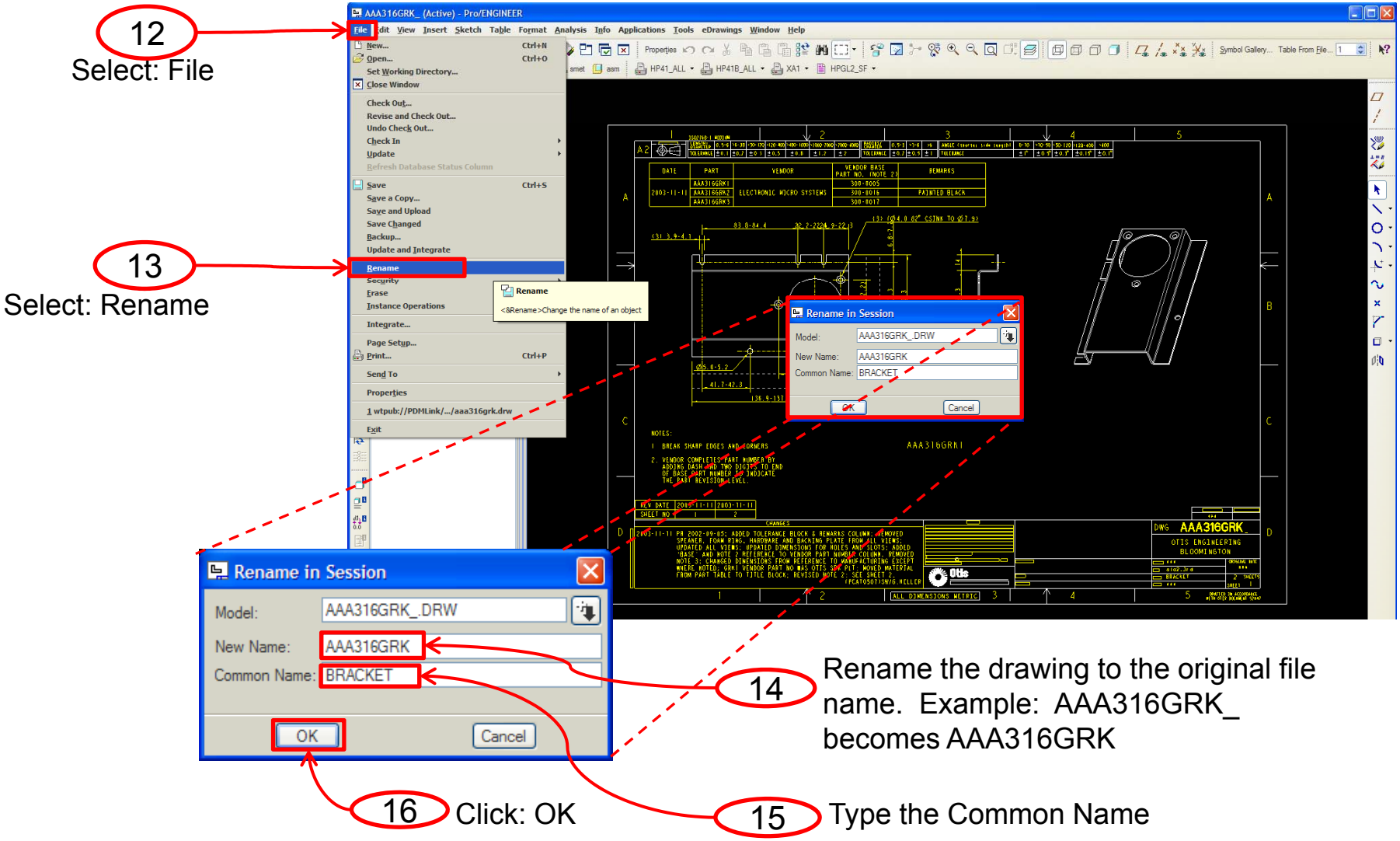
Select: Edit 9

10
Select: Remove
- Sheets



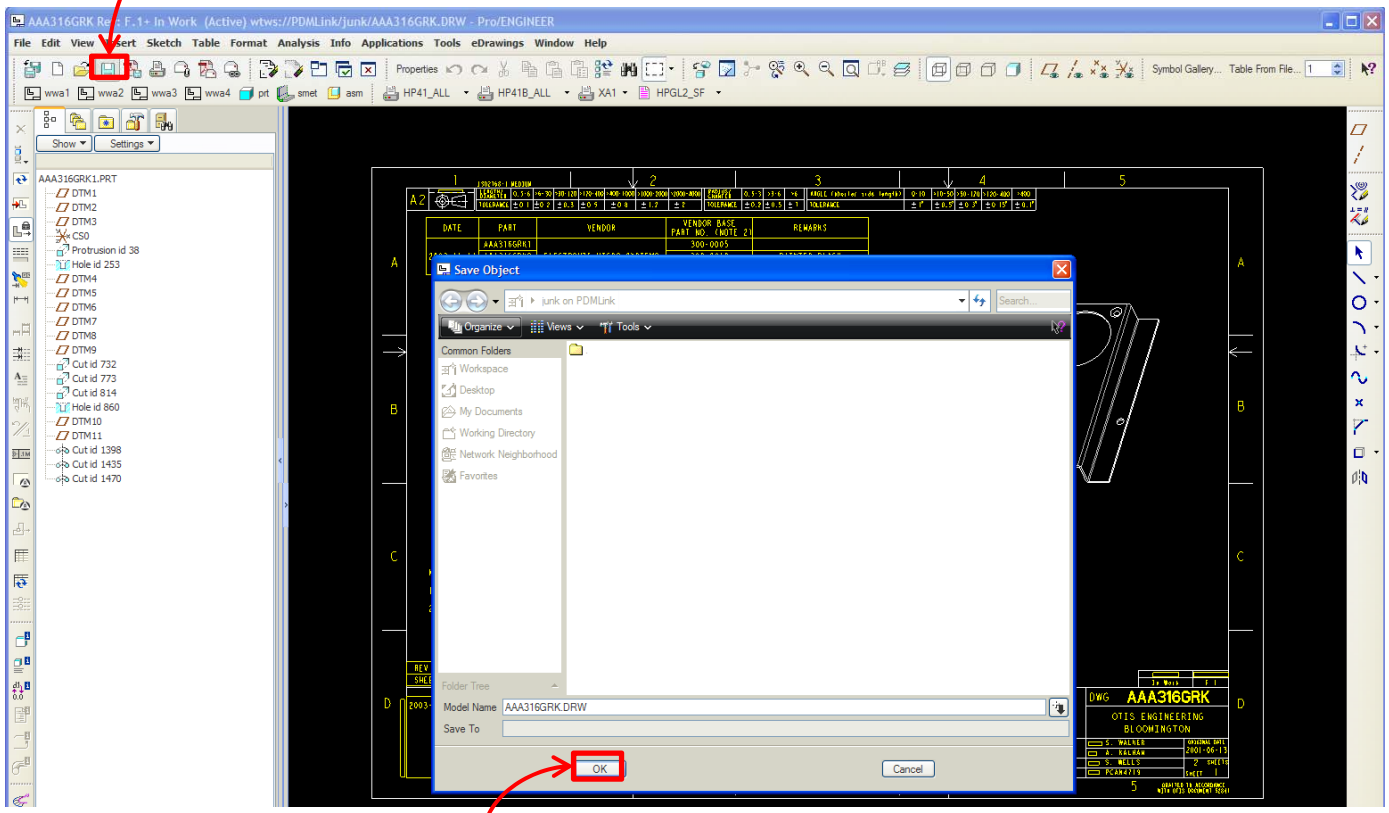
11
Type “1” to remove sheet 1

Removing Drawing Ghost Objects



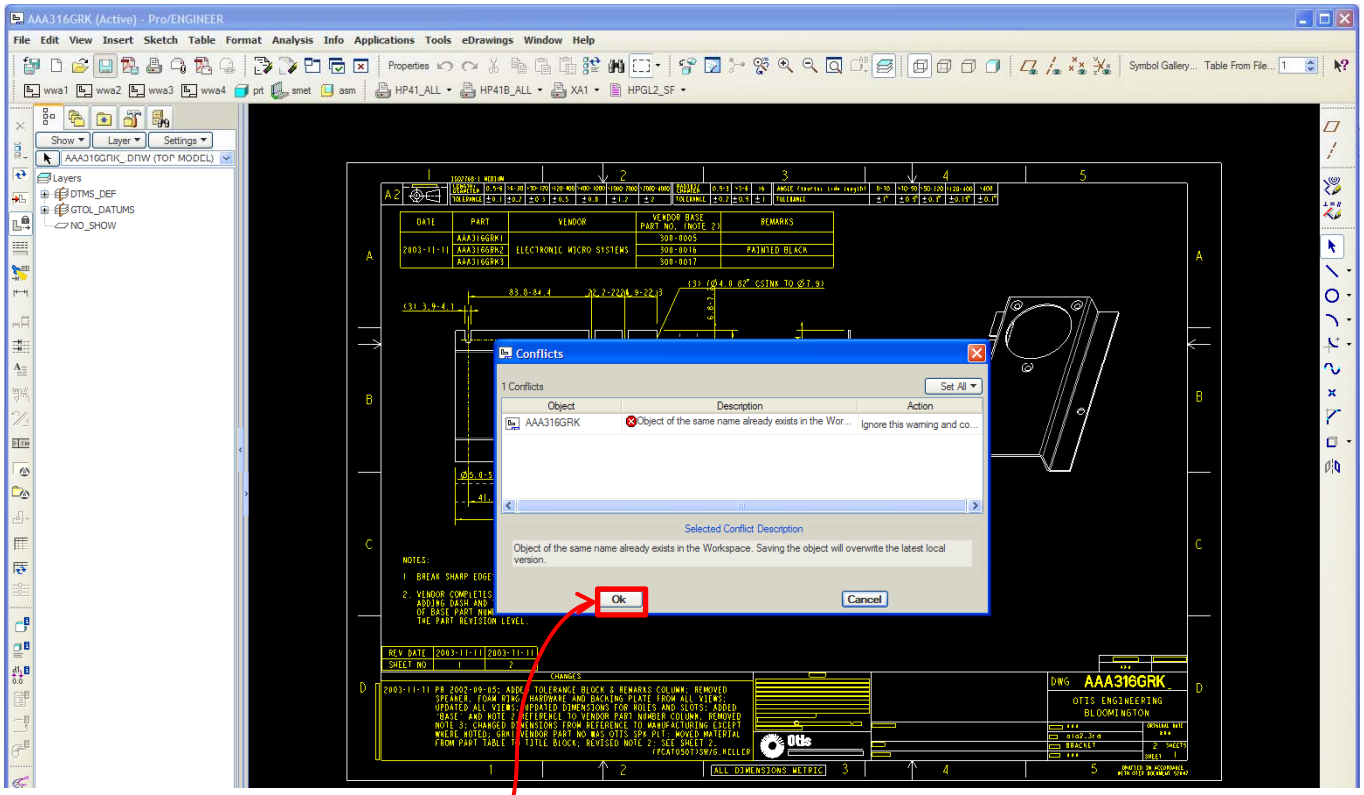
Removing Drawing Ghost Objects

17 Select: Save



Select: OK 18

Removing Drawing Ghost Objects

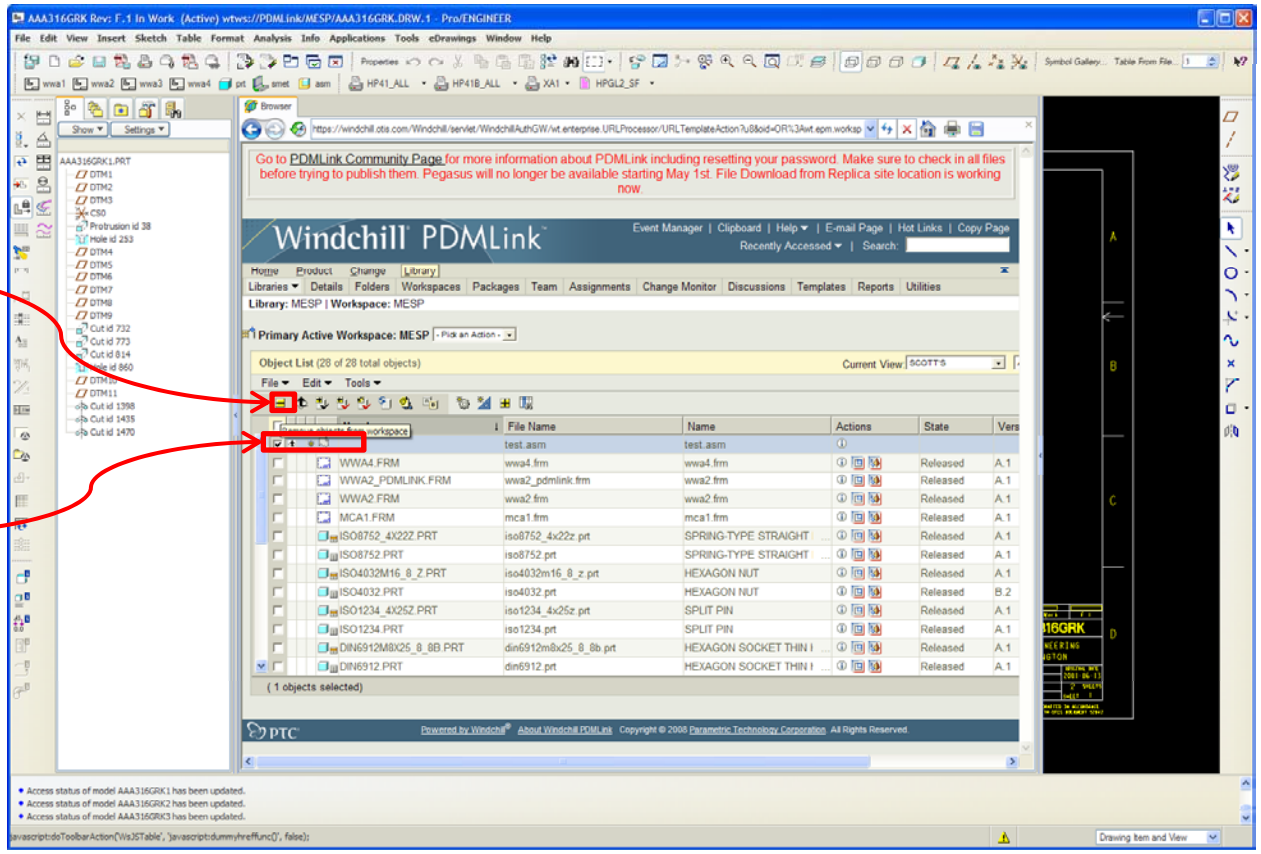


Removing Drawing Ghost Objects

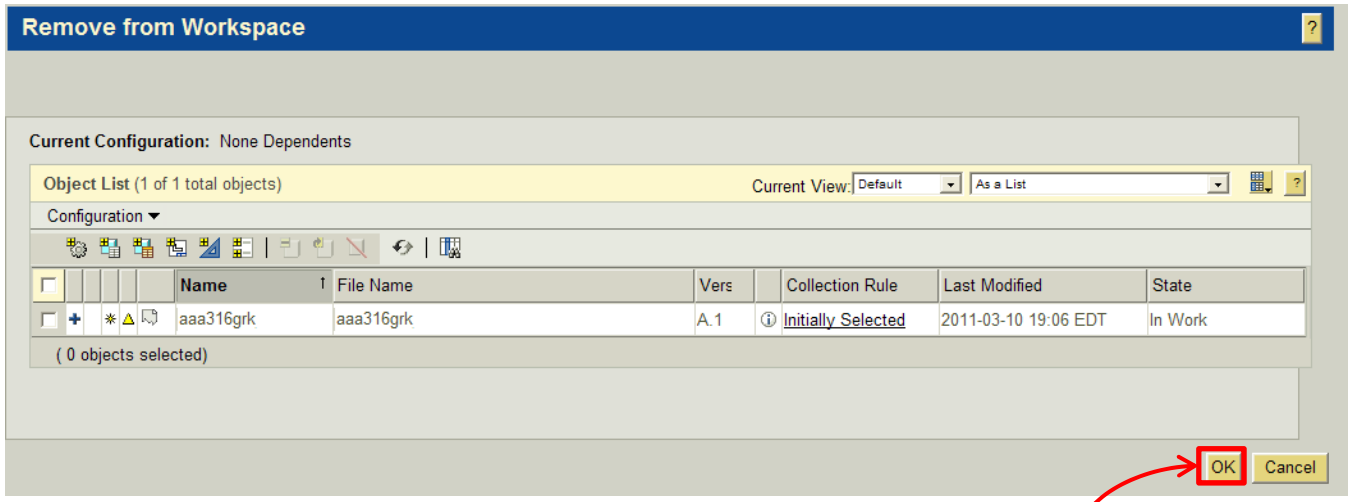
20 Return to the Active Workspace

22
Click the Remove From Workspace Icon

Click on the Ghost Object
21

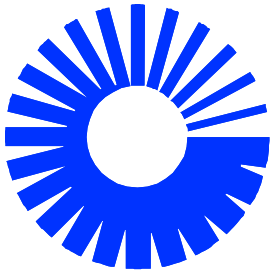


Removing Drawing Ghost Objects



Select: OK 23

24 Return to your workspace and verify that the Ghost Object has been removed.



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Removing Assembly Ghost Objects

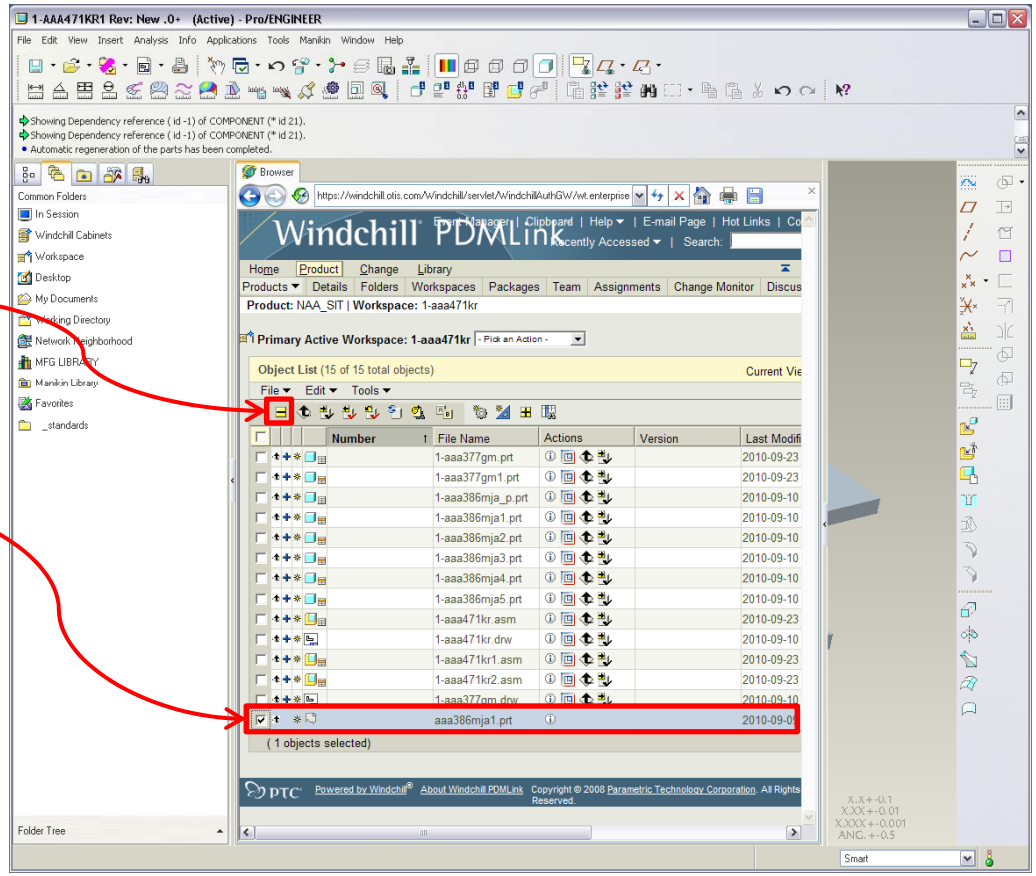
Removing Assembly Ghost Objects

Purpose: To remove Ghost objects (missing dependencies) from an assembly

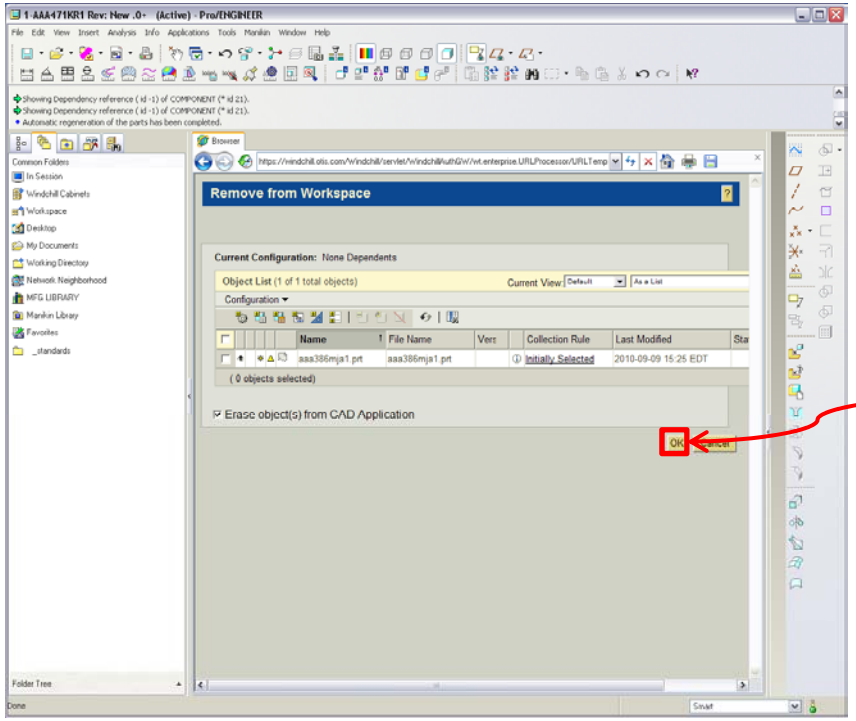
NOTE: It is assumed that you have already launched Pro/E and are viewing your Workspace to have seen a ghost object and that you have the config.pro option “cleanup_drawing_dependencies” set to “yes” which will remove any ghost’s due to missing drawing dependencies.

Select the Remove from Workspace Icon 2

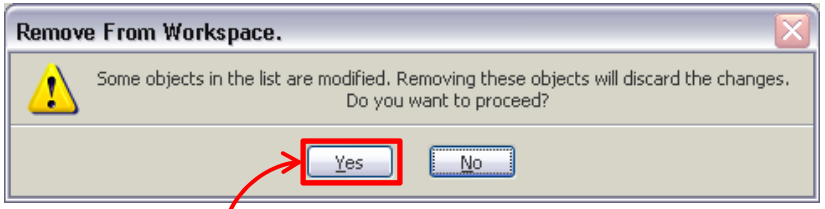
Select the Ghost Object 1



Removing Assembly Ghost Objects



3 Select OK

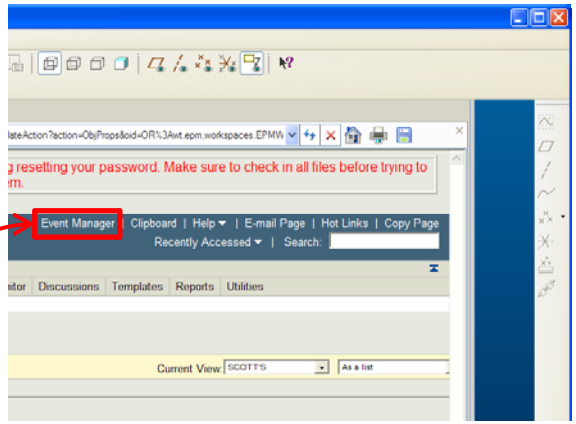


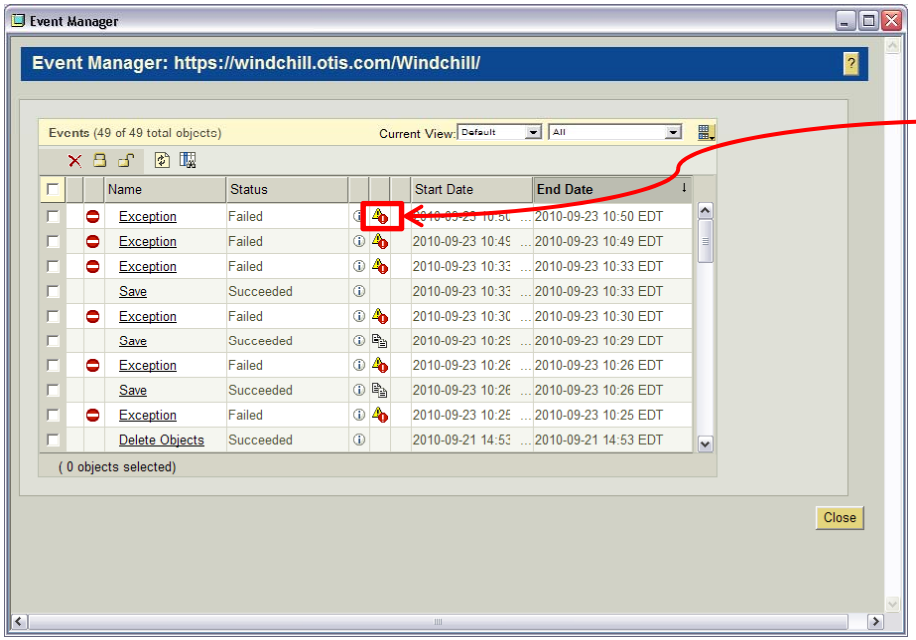
Select Yes 4

If this succeeded you will be returned to your Workspace, and you have successfully removed the Ghost, and are done.
If you are returned to the screen in step 3 proceed to step 5.

Removing Assembly Ghost Objects

Select the Event Manager 5

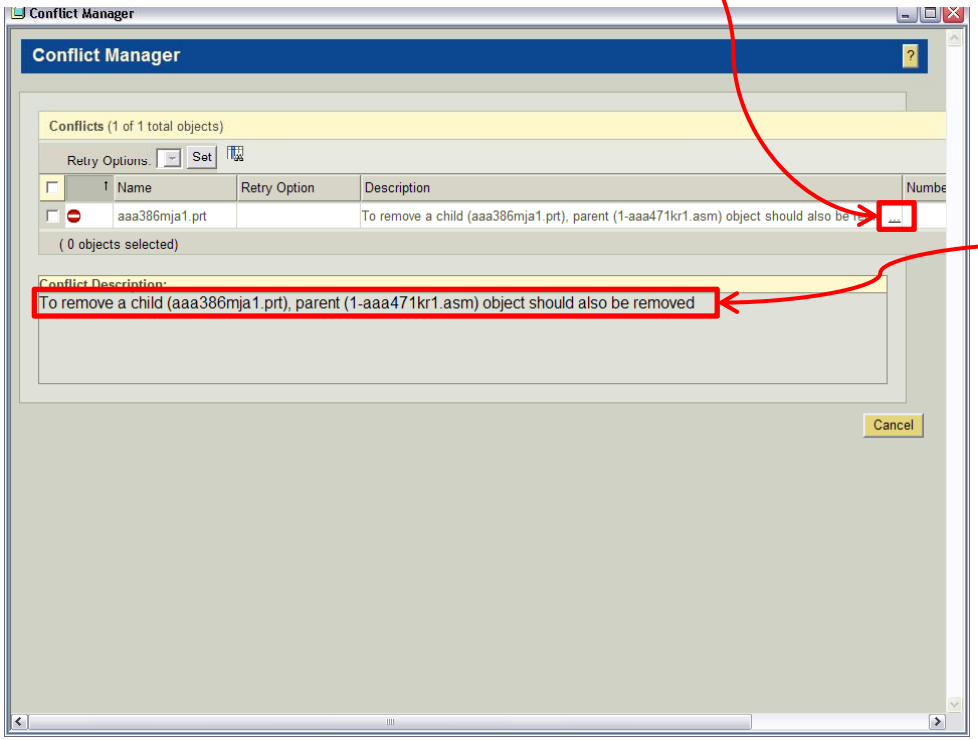




6 Select the warning sign to view detailed information.

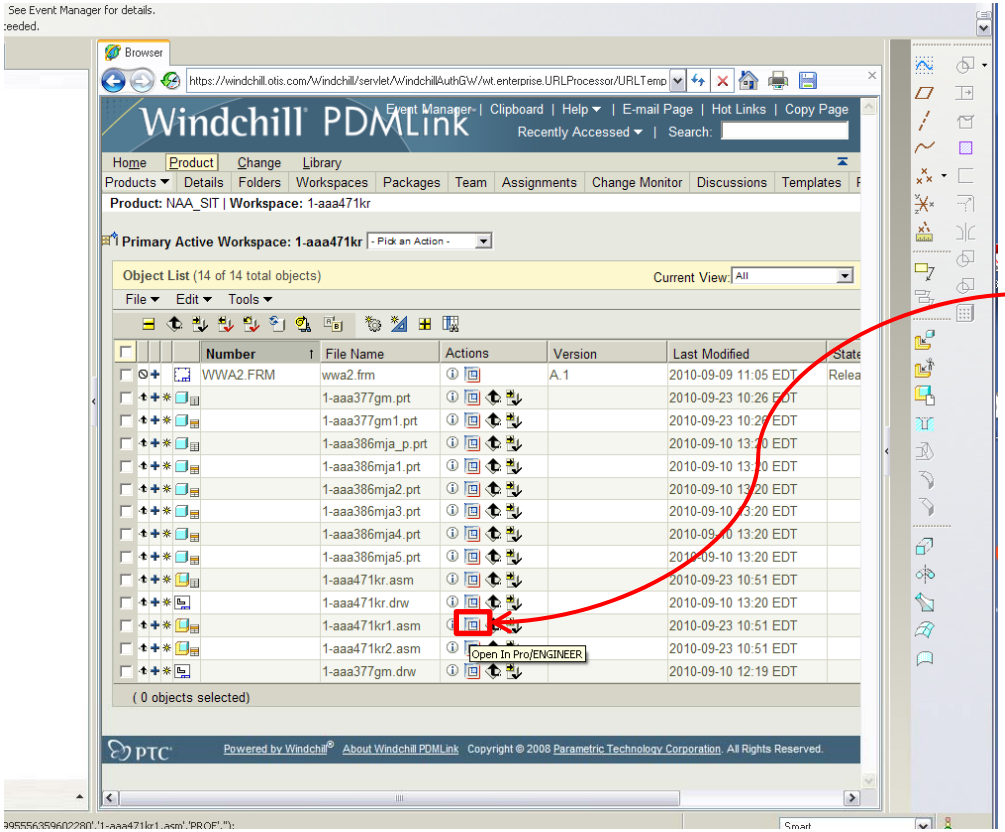
Removing Assembly Ghost Objects

Click to Display in Conflict Description area (7)



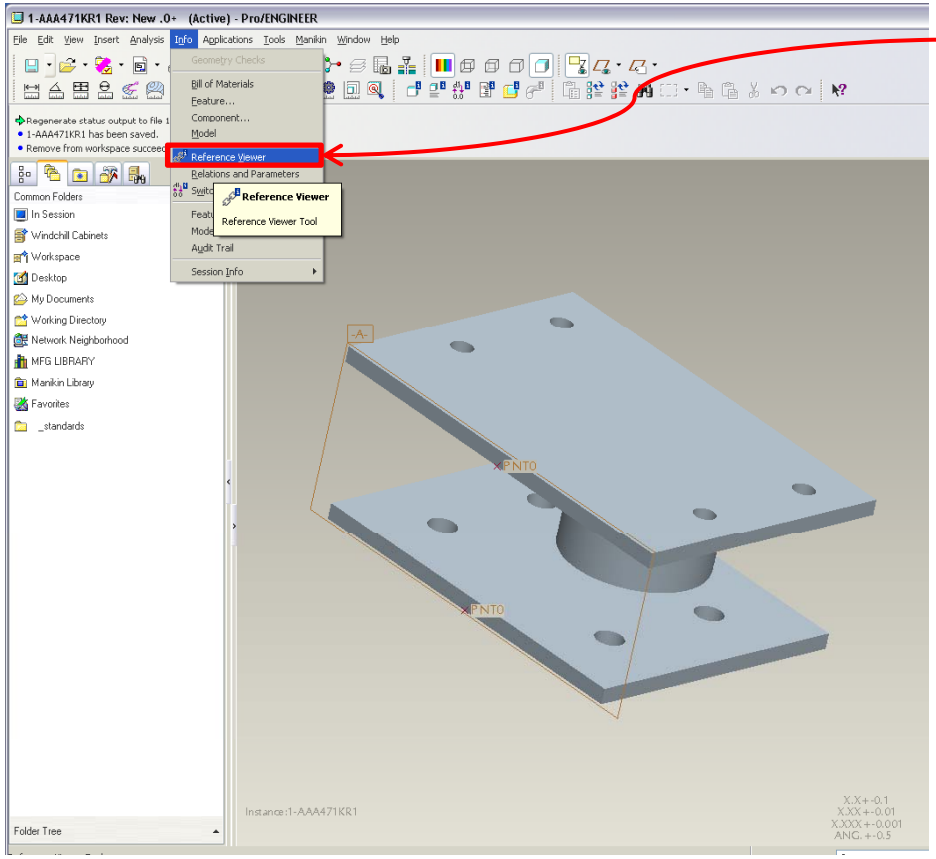
(8) Verify the error is assembly related. Notice that the Conflict Description references the assembly 1-AAA471KR1.

Removing Assembly Ghost Objects



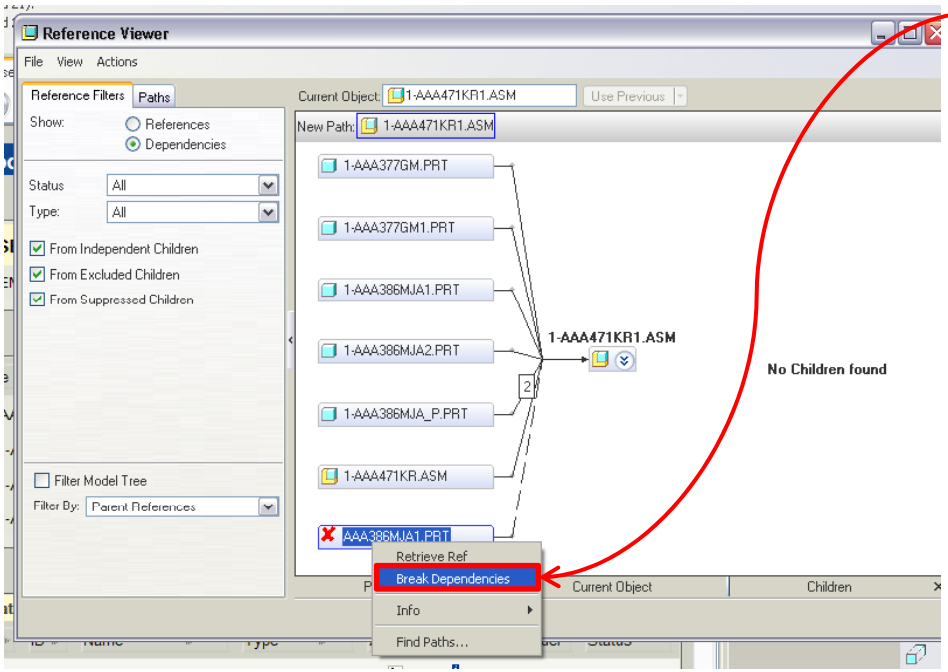
9 Open the assembly in your Workspace that was referenced in the Conflict Description, and select the “Open In Pro/ENGINEER” button.

Removing Assembly Ghost Objects



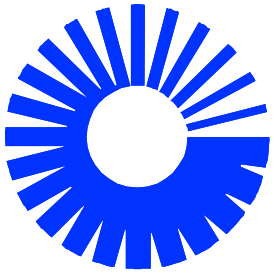
10 Select Info – Reference Viewer.

Removing Assembly Ghost Objects



11 Locate the missing reference(s), they should have a big red X next to them. Right click on them and select “Break Dependencies”. After all missing references have been deleted; close the reference viewer (to return to the Pro/E assembly), regenerate the assembly, save the assembly, and return to the workspace view. Note that the Ghost will still be in the workspace.

12 Refer back to steps 2 & 3 to remove the Ghost Objects. The remove command should now succeed and you should be returned to a Ghost-free Workspace.



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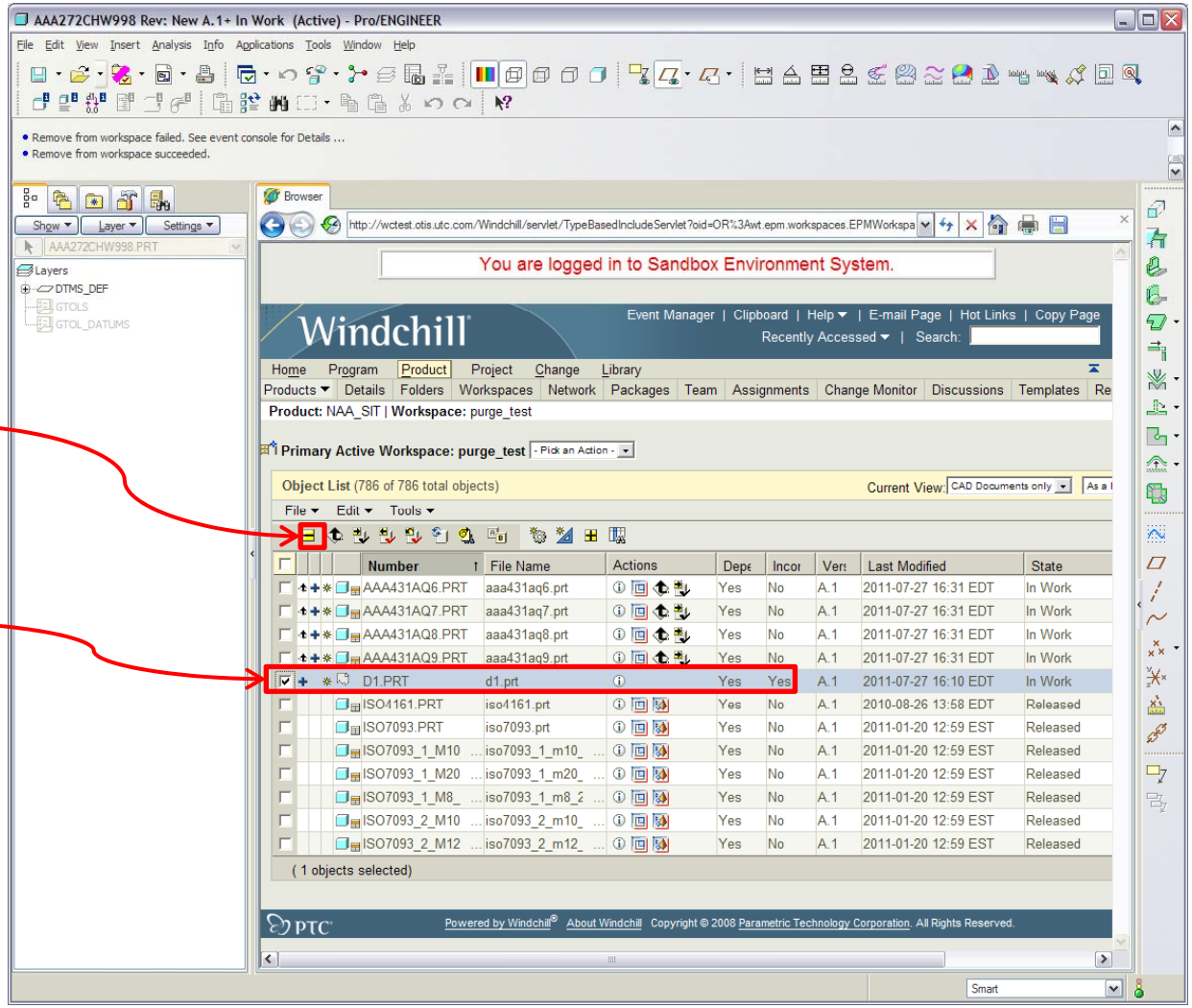
Removing Family Table Parameter Ghost Objects

Removing Parameter Ghost Objects

Sometimes Pro/Program assemblies will cause ghost objects from parameter values. If the assembly was previously checked into PDMLink successfully, it is unlikely that you will have to worry about this type of ghost object.

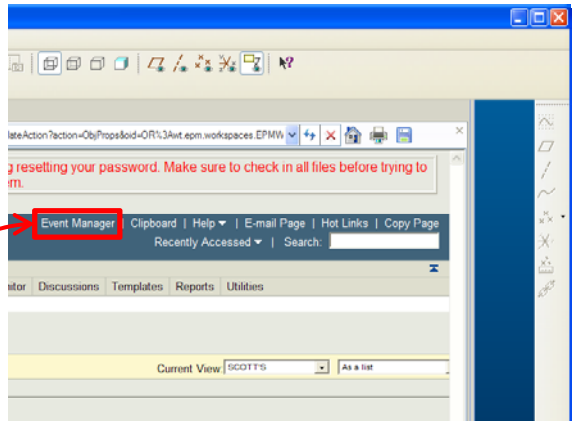
Select the Remove from Workspace Icon 2

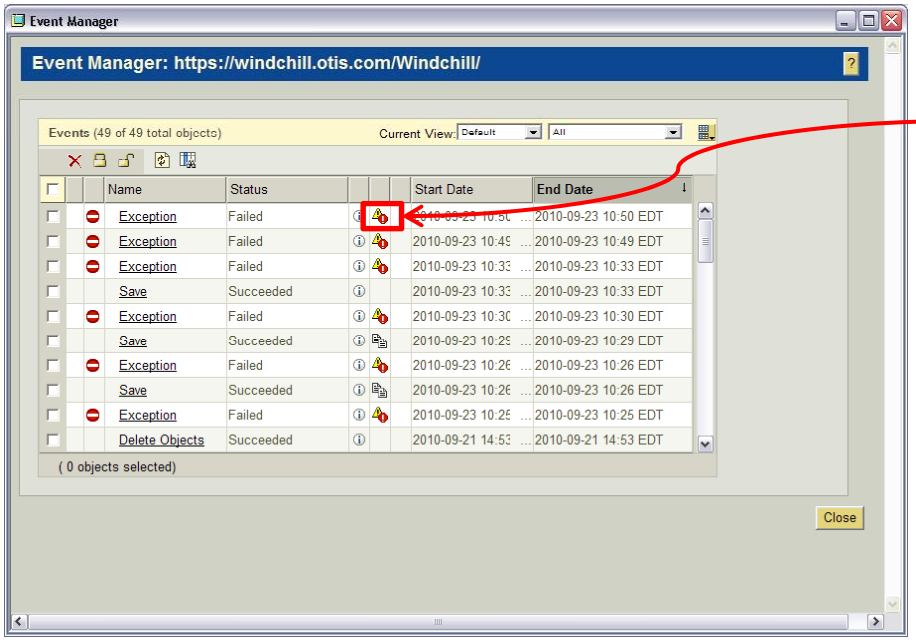
Select the Ghost Object 1



Removing Parameter Ghost Objects

Select the Event Manager 3

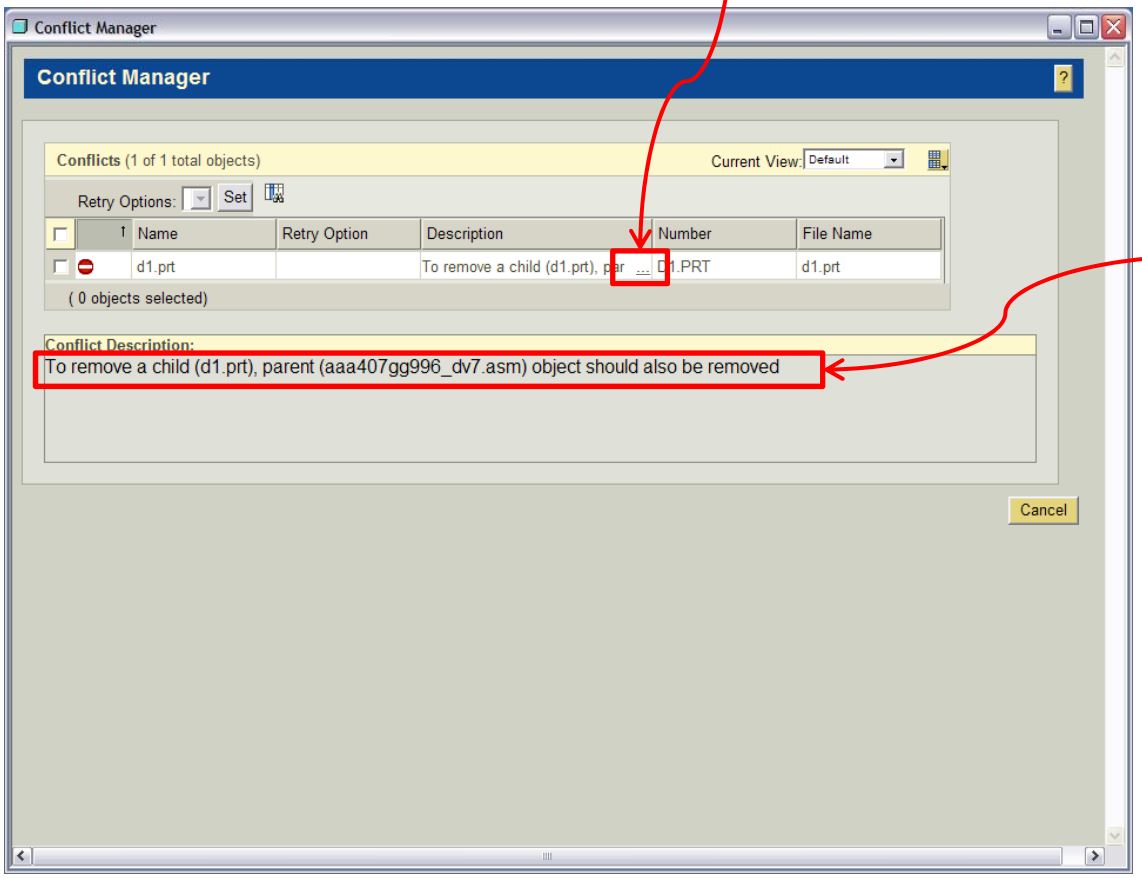




4 Select the warning sign to view detailed information.

Removing Parameter Ghost Objects

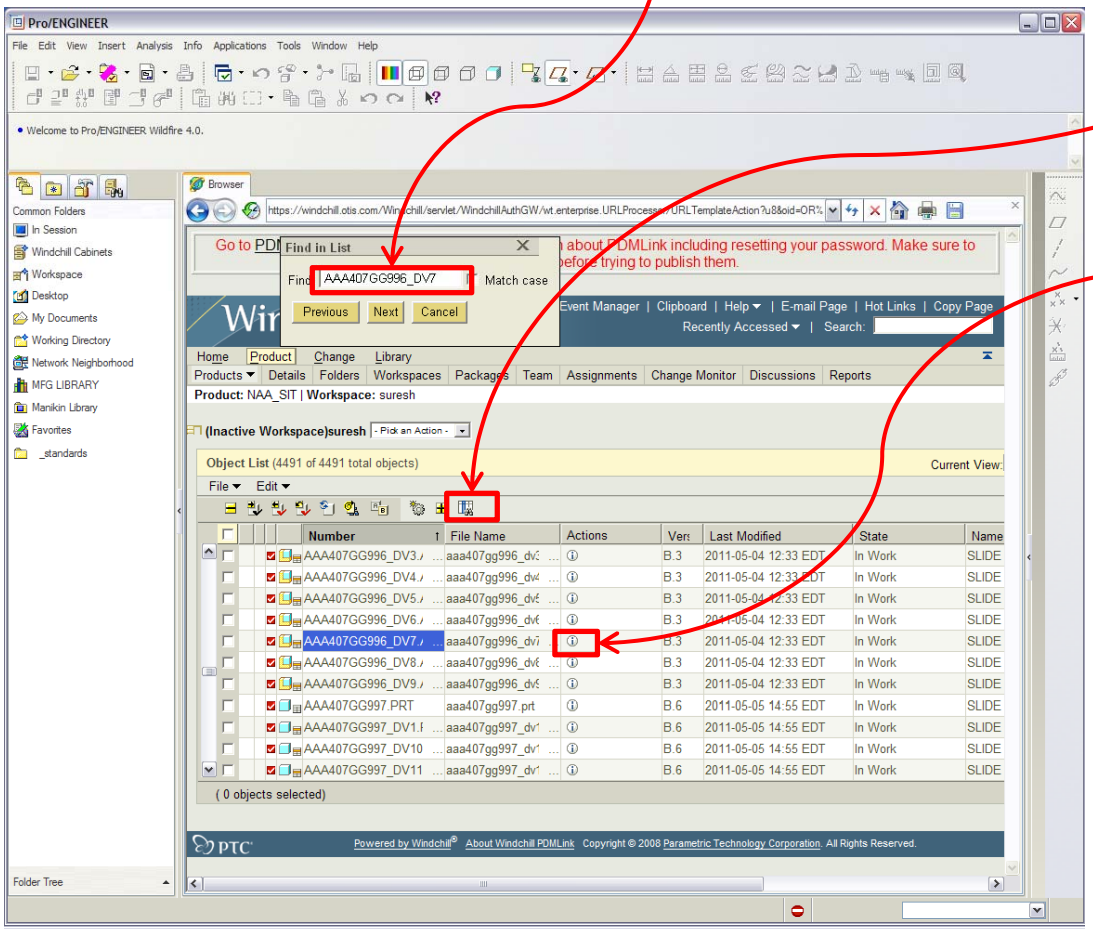
5 Click to Display in Conflict Description area



6 Verify the error is assembly related. Notice that the Conflict Description references the assembly AAA407GG996_DV7, this is an instance and you will need to open its generic.

Removing Parameter Ghost Objects

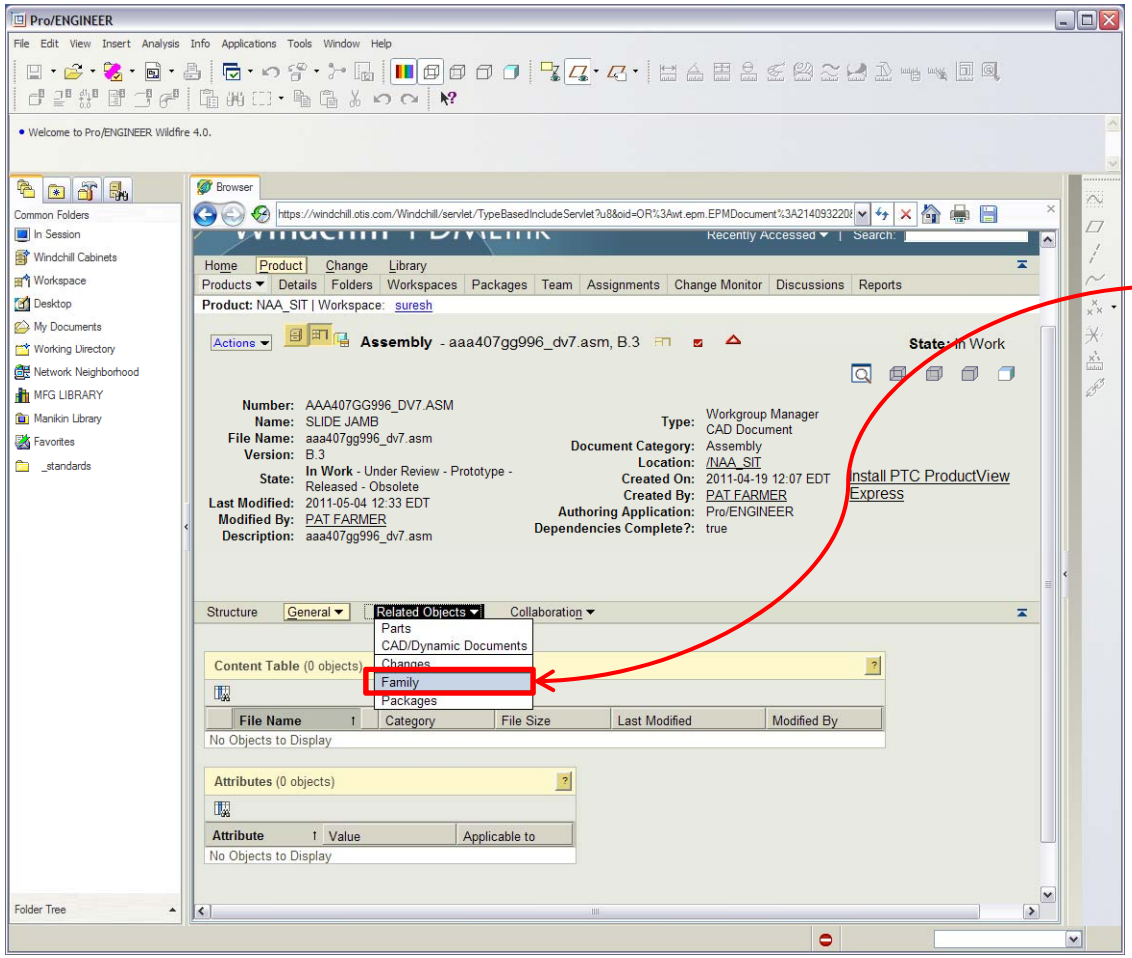
8 Type the name of the instance and press enter



7 If you are not sure of the generic for the instance from step 6 search for it in workspace

9 Click the info button

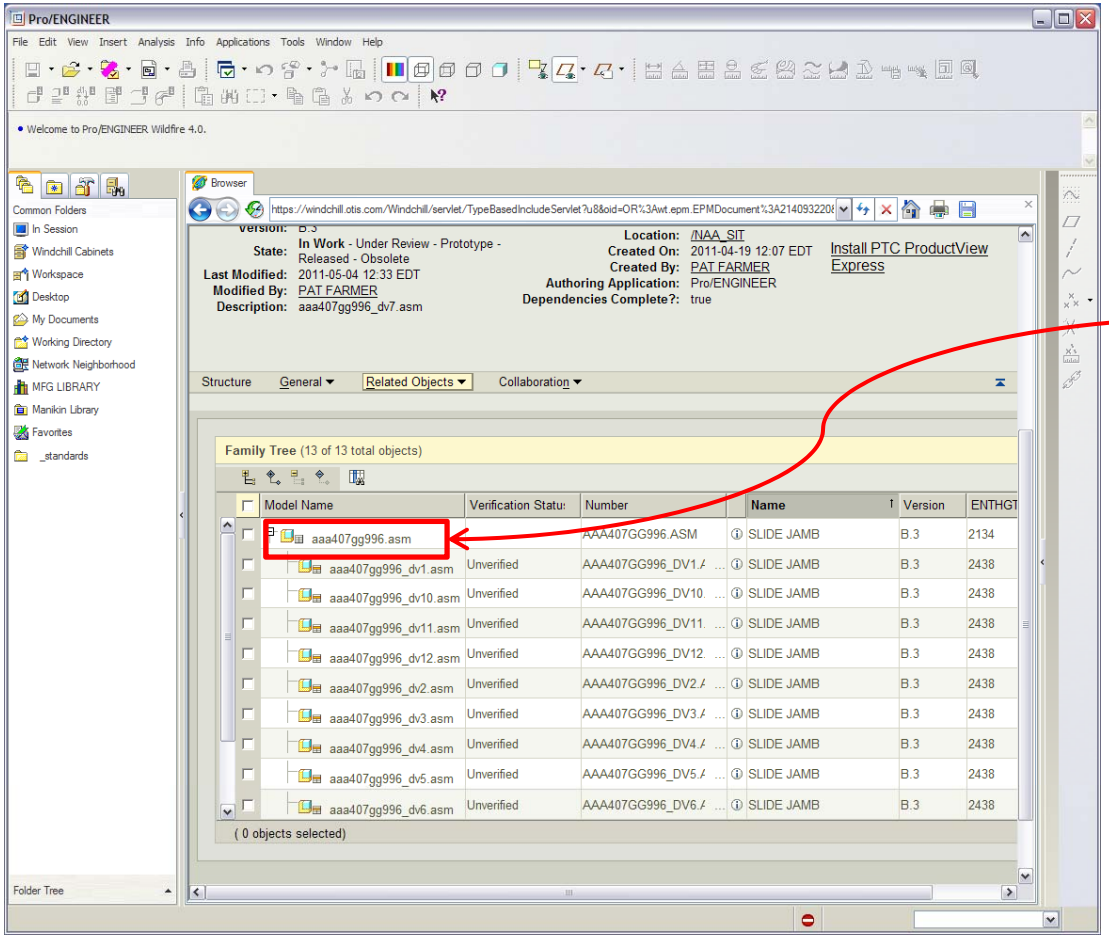
Removing Parameter Ghost Objects



10

Select Related Objects ➔ Family

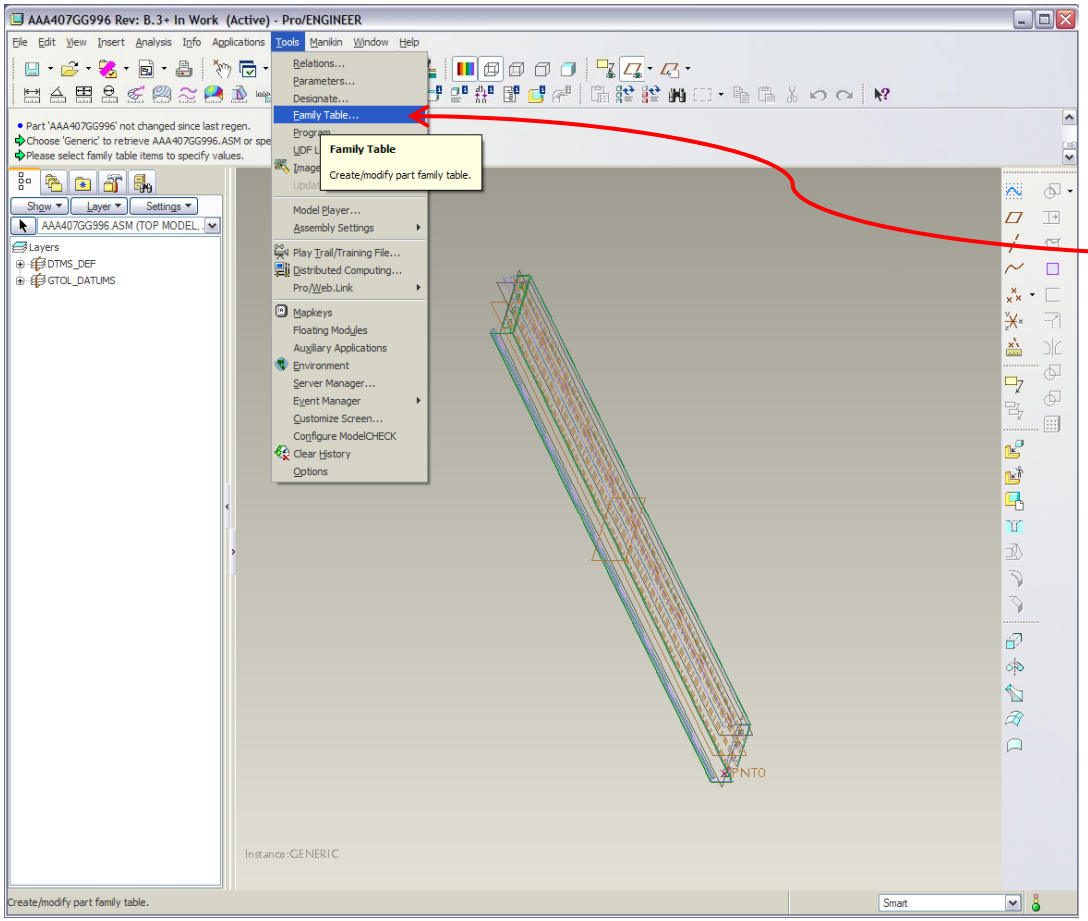
Removing Parameter Ghost Objects



11

This is the Generic. Open in Pro/E

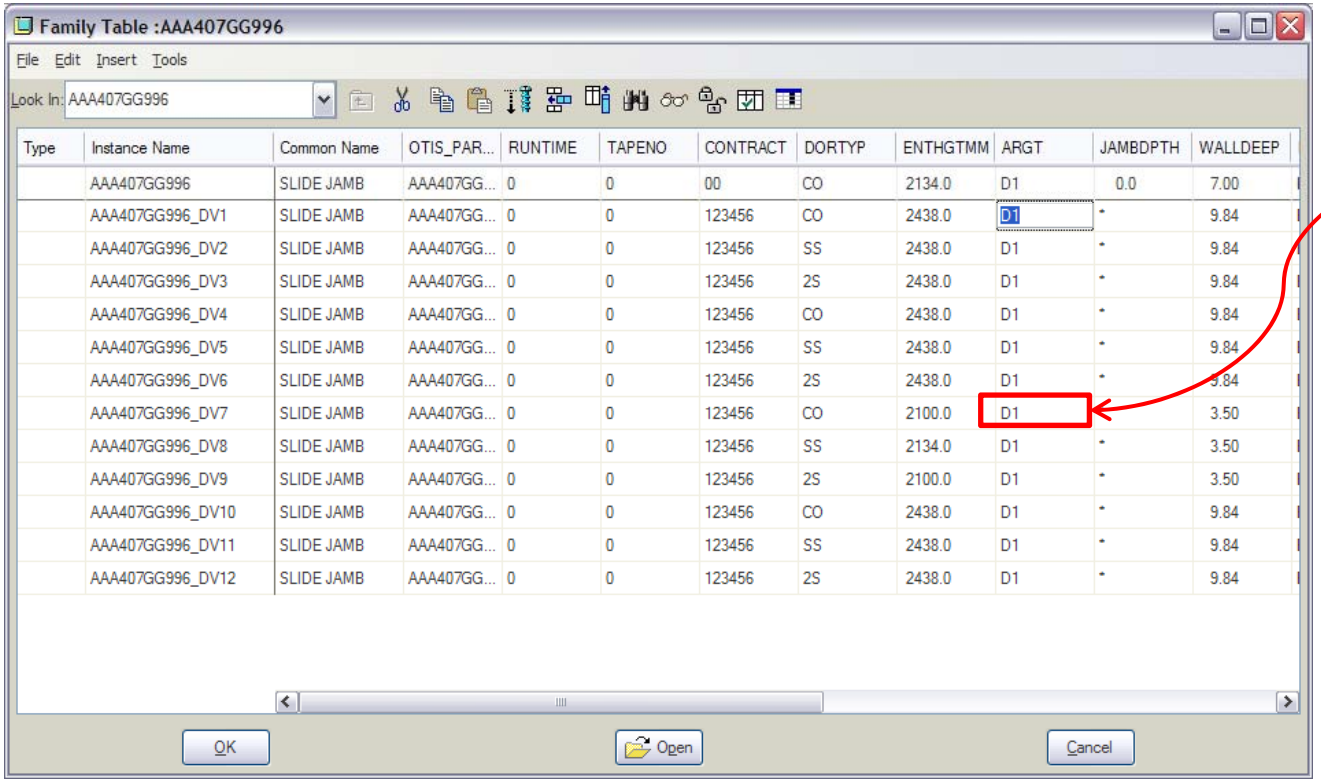
Removing Parameter Ghost Objects



12

Select Tools➔ Family Table

Removing Parameter Ghost Objects



Type	Instance Name	Common Name	OTIS_PAR...	RUNTIME	TAPENO	CONTRACT	DORTYP	ENTHGTMM	ARGT	JAMBDPTH	WALLDEEP
	AAA407GG996	SLIDE JAMB	AAA407GG...	0	0	00	CO	2134.0	D1	0.0	7.00
	AAA407GG996_DV1	SLIDE JAMB	AAA407GG...	0	0	123456	CO	2438.0	D1	*	9.84
	AAA407GG996_DV2	SLIDE JAMB	AAA407GG...	0	0	123456	SS	2438.0	D1	*	9.84
	AAA407GG996_DV3	SLIDE JAMB	AAA407GG...	0	0	123456	2S	2438.0	D1	*	9.84
	AAA407GG996_DV4	SLIDE JAMB	AAA407GG...	0	0	123456	CO	2438.0	D1	*	9.84
	AAA407GG996_DV5	SLIDE JAMB	AAA407GG...	0	0	123456	SS	2438.0	D1	*	9.84
	AAA407GG996_DV6	SLIDE JAMB	AAA407GG...	0	0	123456	2S	2438.0	D1	*	9.84
	AAA407GG996_DV7	SLIDE JAMB	AAA407GG...	0	0	123456	CO	2100.0	D1	*	3.50
	AAA407GG996_DV8	SLIDE JAMB	AAA407GG...	0	0	123456	SS	2134.0	D1	*	3.50
	AAA407GG996_DV9	SLIDE JAMB	AAA407GG...	0	0	123456	2S	2100.0	D1	*	3.50
	AAA407GG996_DV10	SLIDE JAMB	AAA407GG...	0	0	123456	CO	2438.0	D1	*	9.84
	AAA407GG996_DV11	SLIDE JAMB	AAA407GG...	0	0	123456	SS	2438.0	D1	*	9.84
	AAA407GG996_DV12	SLIDE JAMB	AAA407GG...	0	0	123456	2S	2438.0	D1	*	9.84

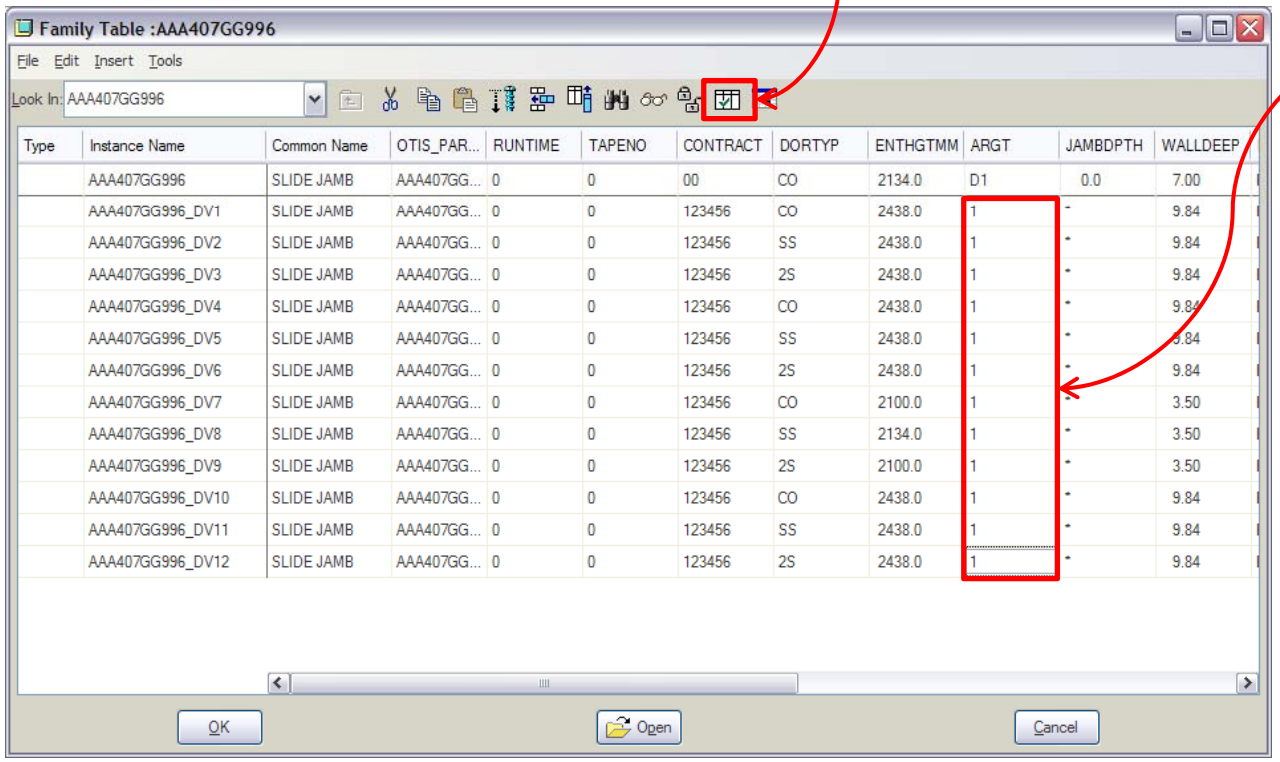
13

Find the value in the table

Removing Parameter Ghost Objects

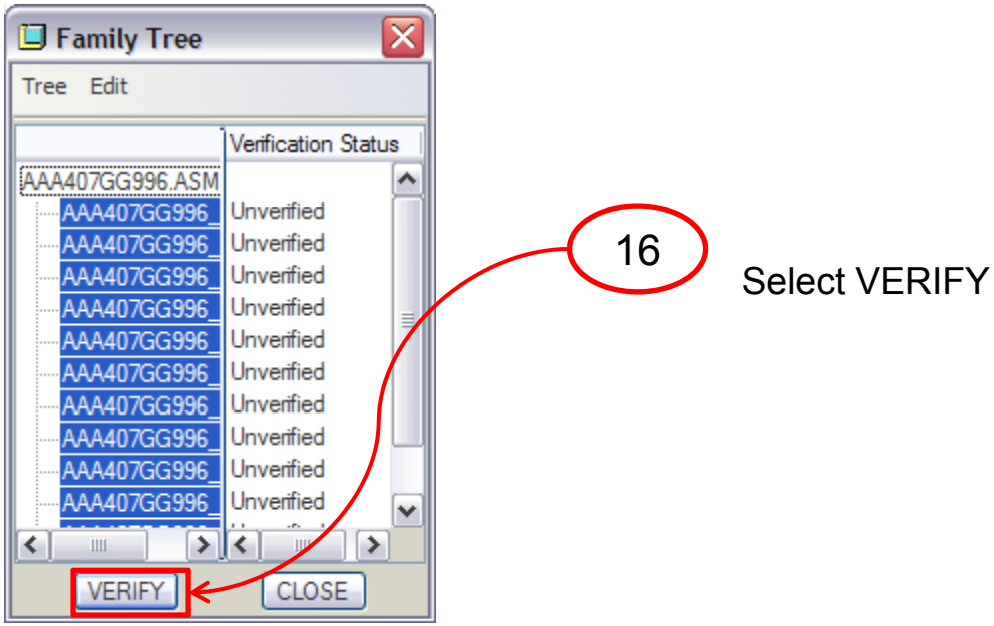
15 Change all the values in that column to something besides the original value.

14 Change all the values in that column to something besides the original value.



Type	Instance Name	Common Name	OTIS_PAR...	RUNTIME	TAPENO	CONTRACT	DORTYP	ENTHGTMM	ARGT	JAMBDPTH	WALLDEEP
	AAA407GG996	SLIDE JAMB	AAA407GG...	0	0	00	CO	2134.0	D1	0.0	7.00
	AAA407GG996_DV1	SLIDE JAMB	AAA407GG...	0	0	123456	CO	2438.0	1	"	9.84
	AAA407GG996_DV2	SLIDE JAMB	AAA407GG...	0	0	123456	SS	2438.0	1	"	9.84
	AAA407GG996_DV3	SLIDE JAMB	AAA407GG...	0	0	123456	2S	2438.0	1	"	9.84
	AAA407GG996_DV4	SLIDE JAMB	AAA407GG...	0	0	123456	CO	2438.0	1	"	9.84
	AAA407GG996_DV5	SLIDE JAMB	AAA407GG...	0	0	123456	SS	2438.0	1	"	9.84
	AAA407GG996_DV6	SLIDE JAMB	AAA407GG...	0	0	123456	2S	2438.0	1	"	9.84
	AAA407GG996_DV7	SLIDE JAMB	AAA407GG...	0	0	123456	CO	2100.0	1	"	3.50
	AAA407GG996_DV8	SLIDE JAMB	AAA407GG...	0	0	123456	SS	2134.0	1	"	3.50
	AAA407GG996_DV9	SLIDE JAMB	AAA407GG...	0	0	123456	2S	2100.0	1	"	3.50
	AAA407GG996_DV10	SLIDE JAMB	AAA407GG...	0	0	123456	CO	2438.0	1	"	9.84
	AAA407GG996_DV11	SLIDE JAMB	AAA407GG...	0	0	123456	SS	2438.0	1	"	9.84
	AAA407GG996_DV12	SLIDE JAMB	AAA407GG...	0	0	123456	2S	2438.0	1	"	9.84

Removing Parameter Ghost Objects



Removing Parameter Ghost Objects

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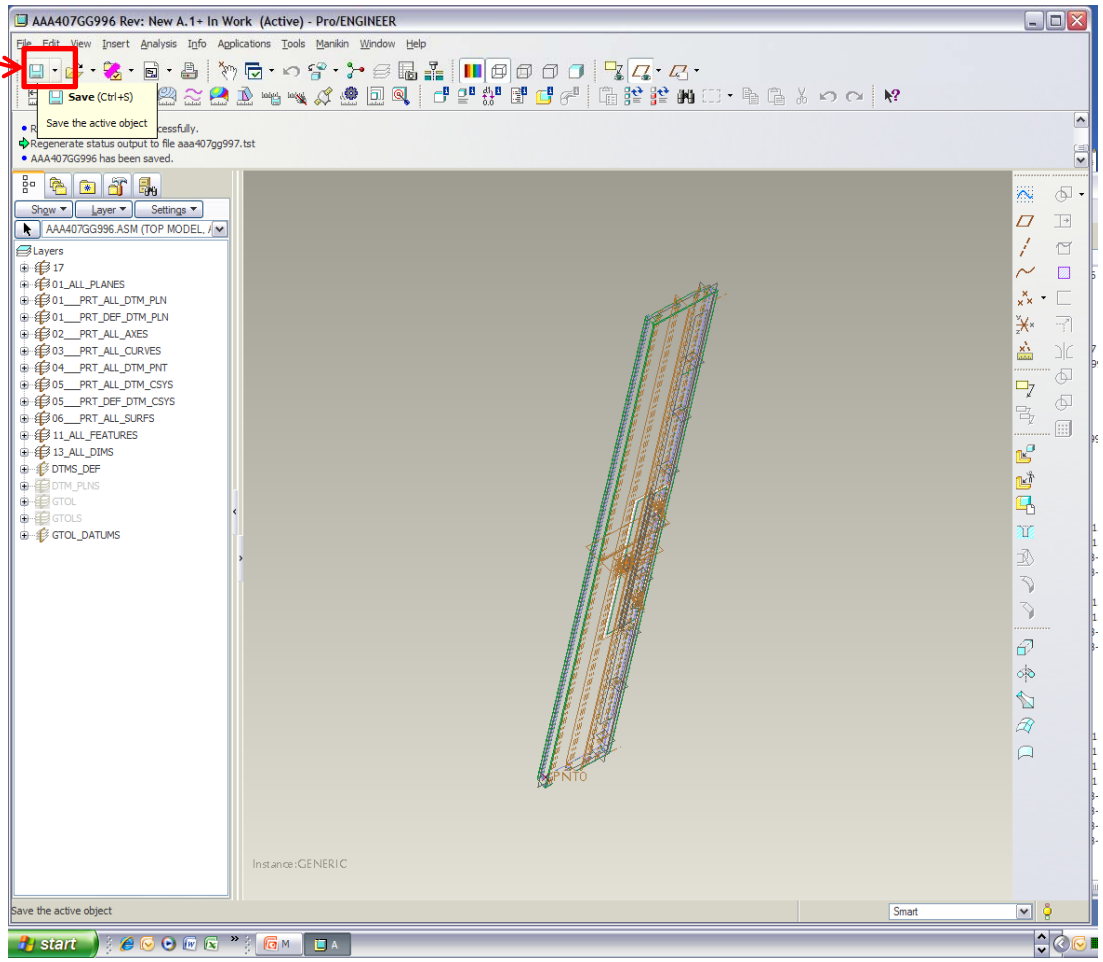
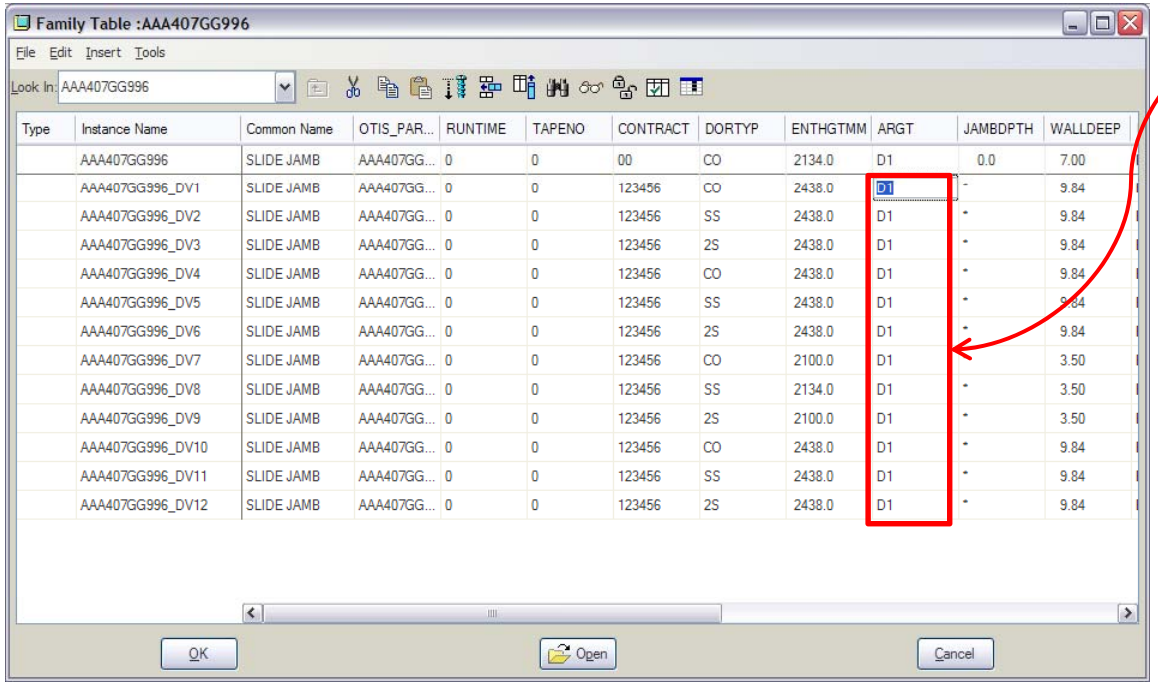
Click Save



Removing Parameter Ghost Objects



Type	Instance Name	Common Name	OTIS_PAR...	RUNTIME	TAPENO	CONTRACT	DORTYP	ENTHGTMM	ARGT	JAMBDPTH	WALLDEEP
	AAA407GG996	SLIDE JAMB	AAA407GG...	0	0	00	CO	2134.0	D1	0.0	7.00
	AAA407GG996_DV1	SLIDE JAMB	AAA407GG...	0	0	123456	CO	2438.0	D1	-	9.84
	AAA407GG996_DV2	SLIDE JAMB	AAA407GG...	0	0	123456	SS	2438.0	D1	-	9.84
	AAA407GG996_DV3	SLIDE JAMB	AAA407GG...	0	0	123456	2S	2438.0	D1	-	9.84
	AAA407GG996_DV4	SLIDE JAMB	AAA407GG...	0	0	123456	CO	2438.0	D1	-	9.84
	AAA407GG996_DV5	SLIDE JAMB	AAA407GG...	0	0	123456	SS	2438.0	D1	-	9.84
	AAA407GG996_DV6	SLIDE JAMB	AAA407GG...	0	0	123456	2S	2438.0	D1	-	9.84
	AAA407GG996_DV7	SLIDE JAMB	AAA407GG...	0	0	123456	CO	2100.0	D1	-	3.50
	AAA407GG996_DV8	SLIDE JAMB	AAA407GG...	0	0	123456	SS	2134.0	D1	-	3.50
	AAA407GG996_DV9	SLIDE JAMB	AAA407GG...	0	0	123456	2S	2100.0	D1	-	3.50
	AAA407GG996_DV10	SLIDE JAMB	AAA407GG...	0	0	123456	CO	2438.0	D1	-	9.84
	AAA407GG996_DV11	SLIDE JAMB	AAA407GG...	0	0	123456	SS	2438.0	D1	-	9.84
	AAA407GG996_DV12	SLIDE JAMB	AAA407GG...	0	0	123456	2S	2438.0	D1	-	9.84

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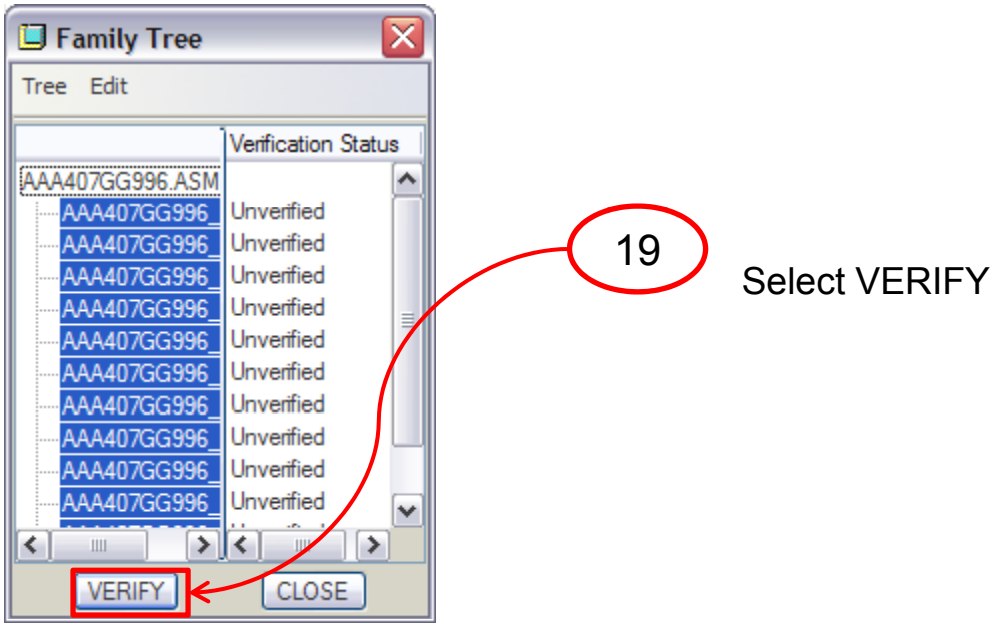
Change all the values **BACK** to the **original** value.

Removing Parameter Ghost Objects



Removing Parameter Ghost Objects

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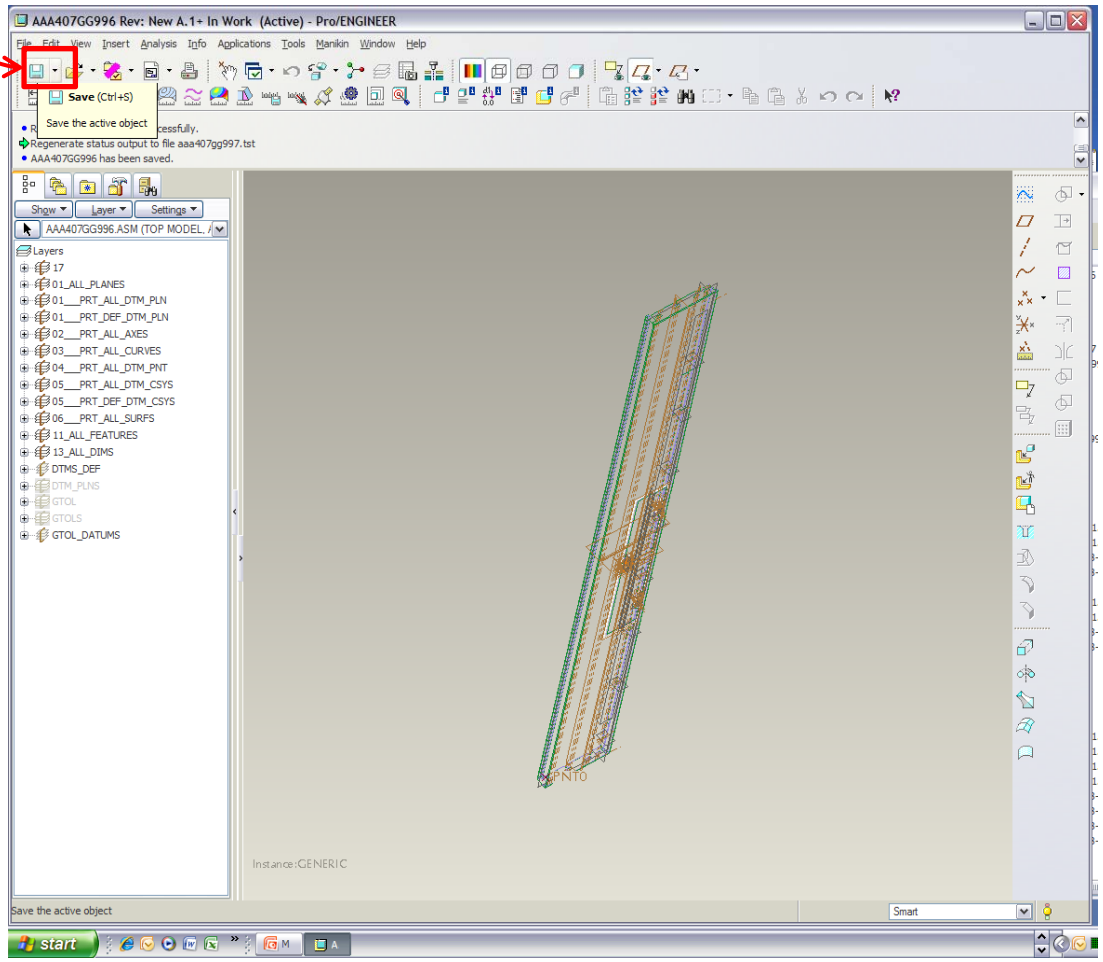
Click Save



Removing Parameter Ghost Objects

Select the Remove from Workspace Icon

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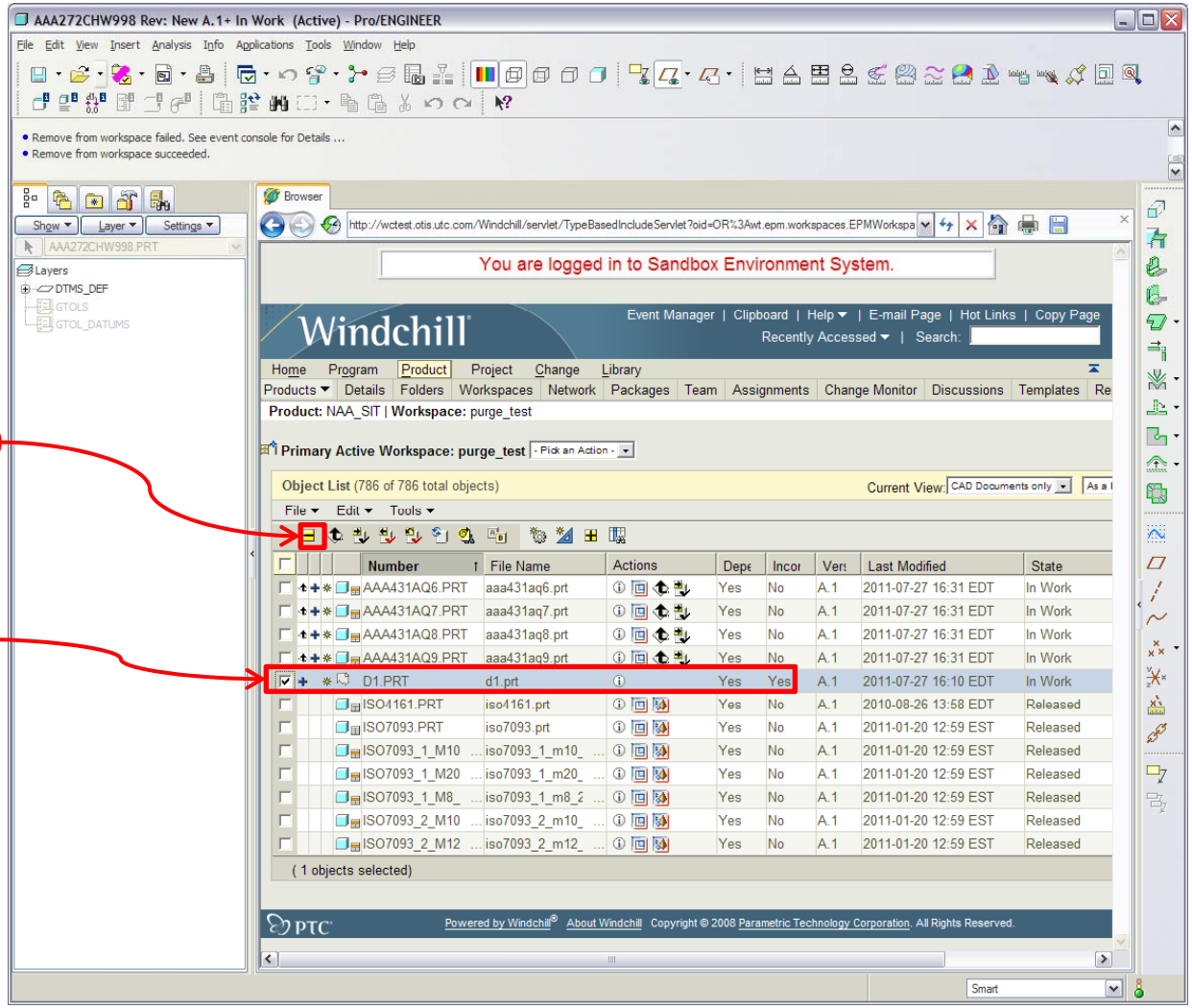
Go to your Workspace and Select the Ghost Object

21