Best Practice: Removing Ghost Objects related to models

This best practice guide describes how to remove ghost objects from a workspace that are related to either assemblies or components.

Whenever there is a parent/child dependency to an object that is not in session, Pro/ENGINEER will create an incomplete (ghost) CAD Document (CADDoc) in the active Workspace during File -> Save of the parent object. No warning message is given during save, but the object will

display in the Workspace with an incomplete object icon.

The best practice would be to avoid creating incomplete CADDocs during Checkin by having all required dependencies in the Workspace when saving within Pro/ENGINEER. If this isn't possible, incomplete CADDocs will need to removed.

Justification:

Removal of ghost objects from workspaces is a necessary step to being able to check in work into Windchill.

Procedure:

After finding ghost objects in your workspace, these are the steps needed to remove them from the workspace.

File	Edit View			18								
	Add to Workspace		Remove	Remove Upload		Check Out Undo Check C		Update	Auto Associate Parts		Create Part Create CAD Document	
Г	1		Compare status	Number		File Name	A	ctions	Status	Version	Last Updated	
Г	*	D		13374IN	T.ASM	13374int.asm	G)	New	1.1	2009-03-04 11:35:58 CD	
	*			MMD_G	ENERIC.PRT	mmd_generic.	prt 🛈		New	1.1	2009-03-04 11:35:58 CD	
Г	*			MMD IN	STANCE.PRT	mmd instance	.prt G		New	1.1	2009-03-04 11:35:58 CD	

Determine Course of Action

- 1. Start Pro/E if needed and switch to the Workspace with the ghost objects, as needed.
- 2. Determine if you need the missing object. In most cases the missing or ghost object is not needed, and was created by copying objects or some other activity.

Ghost is needed Actions:

If the object is needed, search Windchill and local drives for the object. If the object is not found in Windchill, it might be located on a hard drive or network drive.

When the missing Pro/ENGINEER file can be located, follow the instructions below in order to update the incomplete CAD Doc.

- 1. Add the complete CAD document to the workspace, either from Windchill Commonspace or from a local drive.
- 2. Click on the details icon to show the information page for the ghost object.



3. In the Actions menu, choose Replace.



- 4. Search or Browse for existing CAD Documents. Or enter a filename.
- 5. Refresh the workspace and upload any documents that need uploading. The ghost object should no longer exist.

Ghost is NOT needed Actions:

- 1. If the object is NOT needed, first try deleting the object from the workspace.
- 2. Check the event manager for failures. If there is a failure to remove the object, then the parent of the ghost will need to be found and fixed.

С	Conflicts (1 of 1 total objects)									
	Retry Options: Set									
		Name	±.	Retry Option	Description	Number				
	•	xcu113-laser2.prt			Cannot check in place holder d	XCU113-LASER2.PRT				
	(0 objects selected)									
Conflict Description:										
Ca	Cannot check in place holder document CAD Part - xcu113-laser2.prt, 1.1.									

Refer to the <u>BPG-Windchill Removing Ghosts</u> document for more details on investigating the root cause and parents of ghost objects.

3. Parts that were in interchange assemblies will retain their link to the interchange assembly unless specifically deleted. This is one cause of ghosts. Other causes are assembly references, relations, or drawing references. Having suppressed assembly members can also create ghost objects.

For more information on drawing ghosts, see <u>BPG-Windchill Removing Drawing Ghosts</u>

4. Once the parent object is known, open the object in Pro/E and use the Reference Viewer in the Info menu.



- 5. Once the Reference Viewer opens, check for any External References to the ghost object. Investigate the references and remove them.
- 6. If no external references are listed, change the Reference Filter to Dependencies.

🔲 Reference View	wer
File View Actio	ns
Reference Filters	Paths
Show:	References
	Dependencies

7. Look for the ghost object in the dependency list. If found, right click on the object, and choose "Break Dependencies". Close the reference viewer.

80939.PRT						
80939_CLOSED.P						
XCU113-LASE Parents	Retrieve Ref Break Dependencies					
	Info +					
	Find Paths					

8. Save the parent model. The ghost model may be removed automatically, if not: Once the references to the ghost object are addressed, the ghost object can be removed from the workspace.

Remove from Workspace											
Current Configuration: None Depende	Current Configuration: None Dependents										
Object List (1 of 1 total objects)	Cı	Current View: Default 💽 As a List 🗨 🔤									
Configuration -	Configuration -										
Parts Generics Family Table Drawings	Image: Second										
□ Name	File Name	Version		Collection Rule	Last Modified	State					
□ + * □ xcu113-laser2.prt	xcu113-laser2.prt	1.1	1	Initially Selected	2011-05-23 10:09 CDT	In Work					
(0 objects selected)	(0 objects selected)										

9. The remaining parts in the workspace can now be checked in successfully.