

Ref this user posting. Example below of one way to handle.

Trying to keep proper configuration control and properly using Creo -Windchill integration.

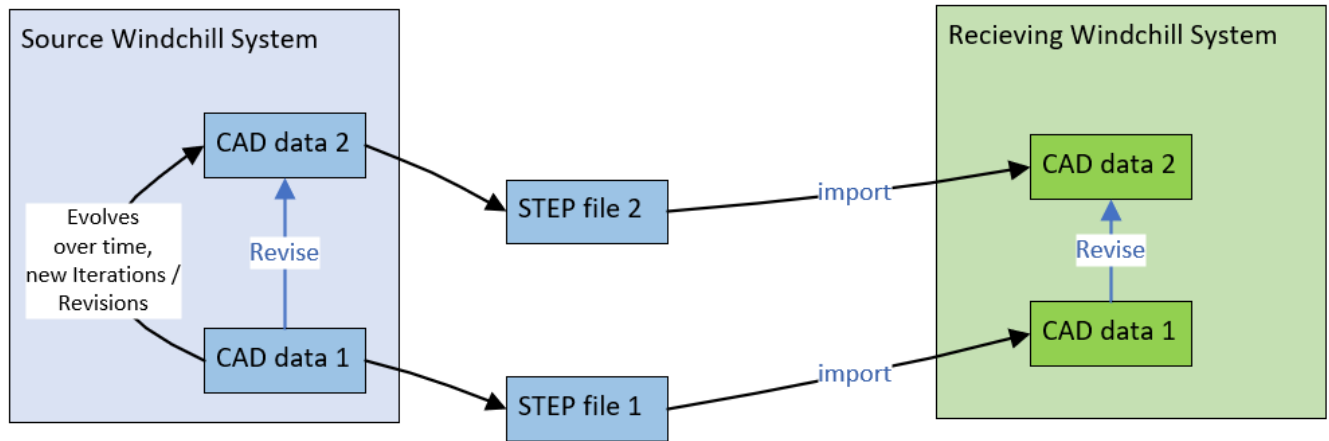


rfoley 1-Newbie

06-27-2022 10:40 AM

I am using Windchill Aerospace & Defense Release 11.1 and Datecode with CPS Mo20-CPS17

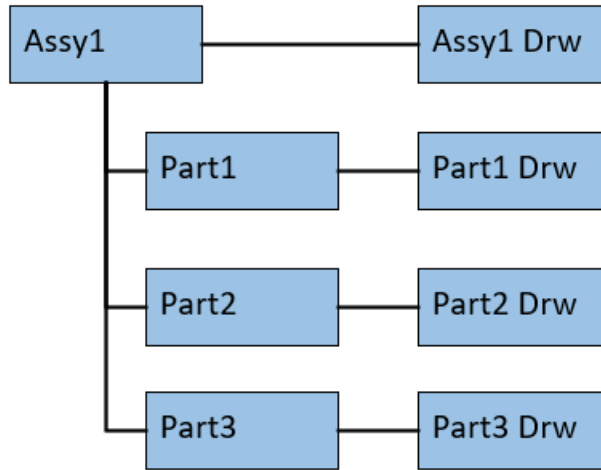
I am looking for the best way to update CAD Documents that originated from a STEP (ISO 10303) file. I have a new delivery in STEP format. 95% of the objects that will be created on import are common.



Step
 CAD 1 data checked in, released at Rev A in source Windchill system

Images

CAD Data 1 Details



Actions Drawing - **assy1.drw, A.1**

Details **Content** Related Objects Changes

Visualization and Attributes | More Attributes

Actions Assembly - **assy1.asm, A.1**

Details **Structure** Content Related Objects

Visualization and Attributes | More Attributes

assy1.asm	ASSY1.ASM	A.1
part1.prt	PART1.PRT	A.1
part2.prt	PART2.PRT	A.1
part3.prt	PART3.PRT	A.1

Relationship Report By Drawings

Number	Version	State
ASSY1.DRW	A.1	Released
ASSY1.ASM	A.1	Released
PART1.DRW	A.1	Released
PART1.PRT	A.1	Released
PART2.DRW	A.1	Released
PART2.PRT	A.1	Released
PART3.DRW	A.1	Released
PART3.PRT	A.1	Released

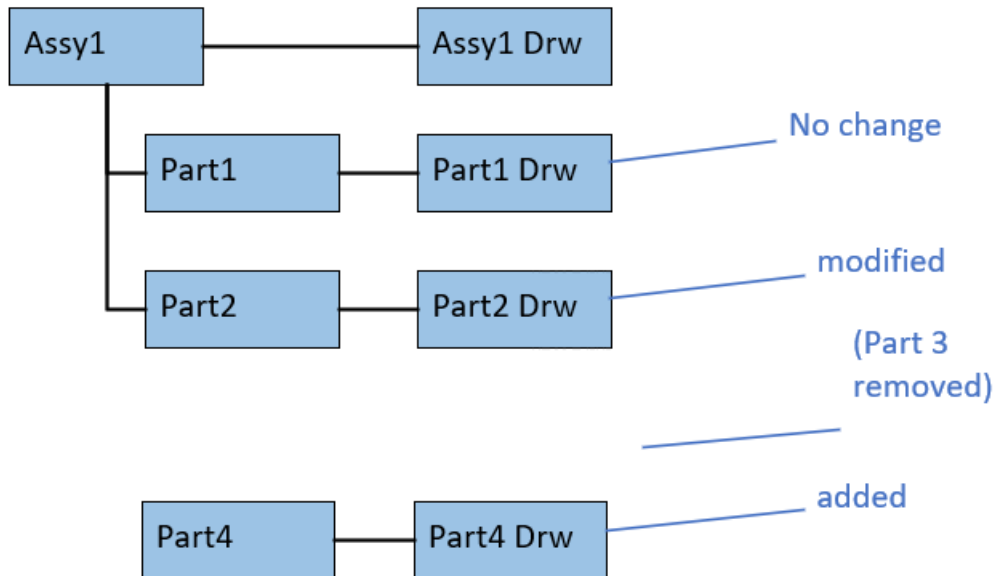
This data exported to STEP, provided to owners of receiving Windchill system.

CAD data 1 checked into receiving Windchill system

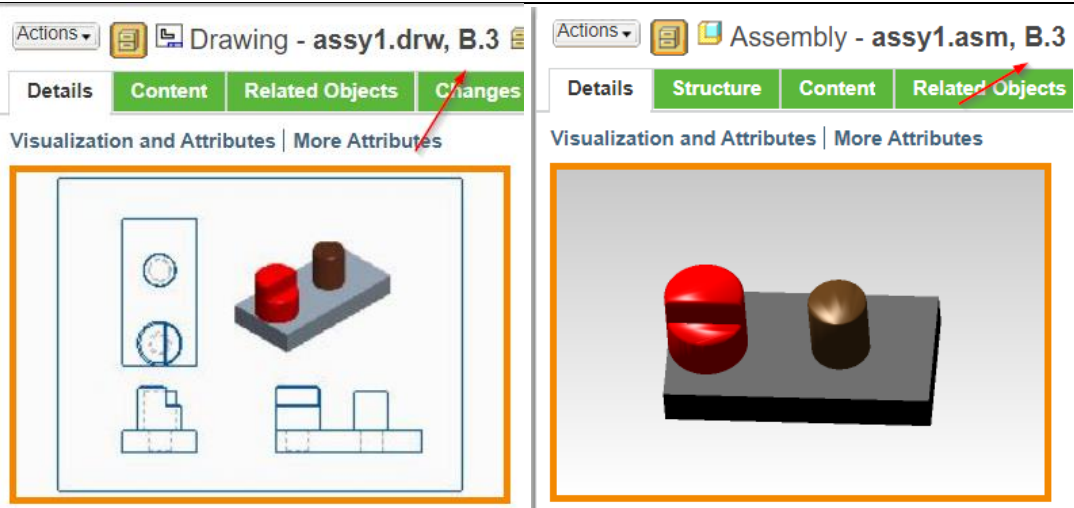
All data checked in as new; is exact duplicate of source

Changes are made in source system, resulting in CAD data 2

CAD Data 2 Details



- Revise Assy1 model and drawing; modify this
- Revise Part2 model and drawing; modify this
- New Part4 model and drawing



assy1.asm	ASSY1.ASM	B.3	←
part1.prt	PART1.PRT	A.2	
part2.prt	PART2.PRT	B.2	←
part4.prt	PART4.PRT	A.2	←

Relationship Report By Drawings

File	Number	Version	State
ASSY1.DRW	ASSY1.DRW	B.3	Released
ASSY1.ASM	ASSY1.ASM	B.3	Released
PART1.DRW	PART1.DRW	A.1	Released
PART1.PRT	PART1.PRT	A.2	Released
PART2.DRW	PART2.DRW	B.3	Released
PART2.PRT	PART2.PRT	B.2	Released
PART4.DRW	PART4.DRW	A.1	Released
PART4.PRT	PART4.PRT	A.2	Released

This data again exported to STEP, labeled appropriately (CAD data 2 for this example), provided to owners of receiving Windchill system.

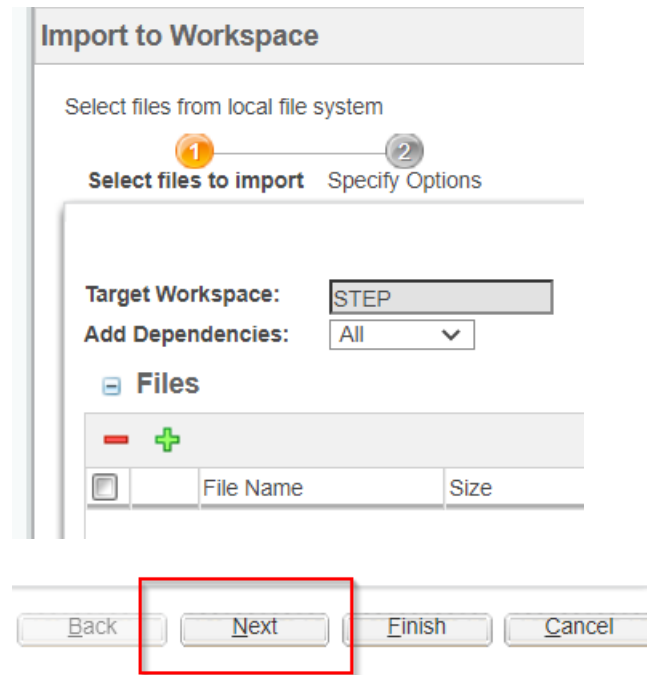
Receiving system gets CAD data 2, import

Key step: Use workspace to Import, select for each to bring in as modified or reuse existing, or bring in as new

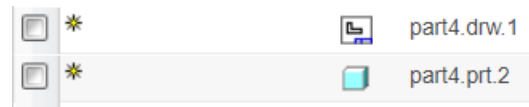
- Assy1 model and drawing << modified, so new Revision, import
- Part1 model and drawing << no change, so reuse existing
- Part2 model and drawing << modified, so new Revision, import
- Part3 model and drawing << no longer used in assy, not modified so no action
- Part4 model and drawing << bring in as new

Important – have to first import the STEP file into Creo, then save all the individual files locally, then import these to workspace.

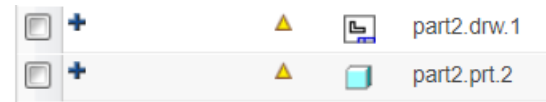
Import to workspace queries the system and compares data being imported. User can select what to do with each item. Essentially to select “Next” rather than Finish at this point.



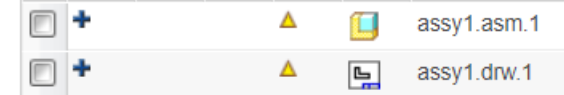
Part4 is brought in as new (no user decision; this is reported to represent 95% of the data in general)



Part2 is modified and is brought in as modified data; needs to be Revised



Assy1 is modified and is brought in as modified data; needs to be Revised



Note: Part3 has been removed from the assembly and is not listed in the import.

Result of Import after selections

					Number ↑	Version
<input type="checkbox"/>	★	↕	+		ASSY1.ASM	A.2
<input type="checkbox"/>	★	↕	+		ASSY1.DRW	A.2
<input type="checkbox"/>	★				PART1.DRW	A.2
<input type="checkbox"/>	★				PART1.PRT	A.3
<input type="checkbox"/>	★	↕	+		PART2.DRW	A.2
<input type="checkbox"/>	★	↕	+		PART2.PRT	A.2
<input type="checkbox"/>	★	↕	+	⚙️		
<input type="checkbox"/>	★	↕	+	⚙️		

Receiving system check in

Can process all at once or incrementally, as desired.

Modified objects Revised in single step.

Revise

Current Settings: Required dependents, Latest : Working

Object List As a List All

					Number ↑	Version	New Revision
<input type="checkbox"/>					ASSY1.ASM	A.2	B
<input type="checkbox"/>					ASSY1.DRW	A.2	B
<input checked="" type="checkbox"/>					PART2.DRW	A.2	B
<input type="checkbox"/>					PART2.PRT	A.2	B
<input type="checkbox"/>					PART3.PRT	A.2	B

All checked in; note that part4 is new (Rev A)

Check In

1 Collect Objects 2 Set Options

Current Settings: All dependents

Object List As a List All

File Edit

<input type="checkbox"/>					Version	Number
<input type="checkbox"/>					B.1	ASSY1.ASM
<input type="checkbox"/>					B.1	ASSY1.DRW
<input type="checkbox"/>					A.2	PART1.DRW
<input type="checkbox"/>					A.3	PART1.PRT
<input type="checkbox"/>					B.1	PART2.DRW
<input type="checkbox"/>					B.1	PART2.PRT
<input type="checkbox"/>					B.1	PART3.PRT
<input type="checkbox"/>						
<input type="checkbox"/>						









Receiving system state change

After checkin

	assy1.asm	ASSY1.ASM	B.1
	part1.prt	PART1.PRT	A.3
	part2.prt	PART2.PRT	B.1
	part3.prt	PART3.PRT	B.1

<input type="checkbox"/>		Number	Version	State
<input type="checkbox"/>		ASSY1.DRW	B.1	In Work
<input type="checkbox"/>		ASSY1.ASM	B.1	In Work
<input type="checkbox"/>		PART1.DRW	A.2	Released
<input type="checkbox"/>		PART1.PRT	A.3	Released
<input type="checkbox"/>		PART2.DRW	B.1	In Work
<input type="checkbox"/>		PART2.PRT	B.1	In Work
<input type="checkbox"/>		PART3.DRW	A.2	Released
<input type="checkbox"/>		PART3.PRT	B.1	In Work

Bring to Released (set state, Promotion, or ECN as needed)

Number	Version	State
 ASSY1.DRW	B.1	Released
 ASSY1.ASM	B.1	Released
 PART1.DRW	A.2	Released
 PART1.PRT	A.3	Released
 PART2.DRW	B.1	Released
 PART2.PRT	B.1	Released
 PART3.DRW	A.2	Released
 PART3.PRT	B.1	Released

CAD data 1 >> CAD data 2 cycle complete.
Repeat for each submitted set of changes.