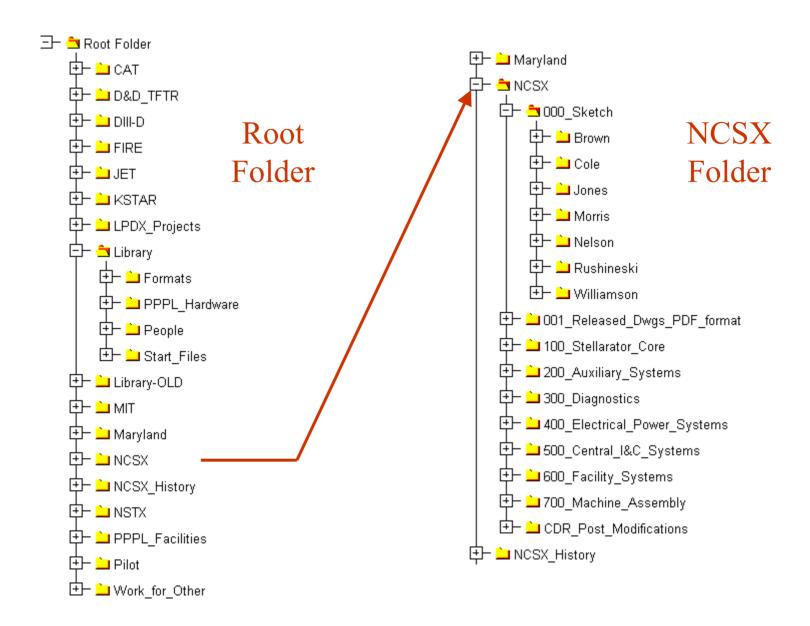
Pro/E and INTRALINK Use and Training

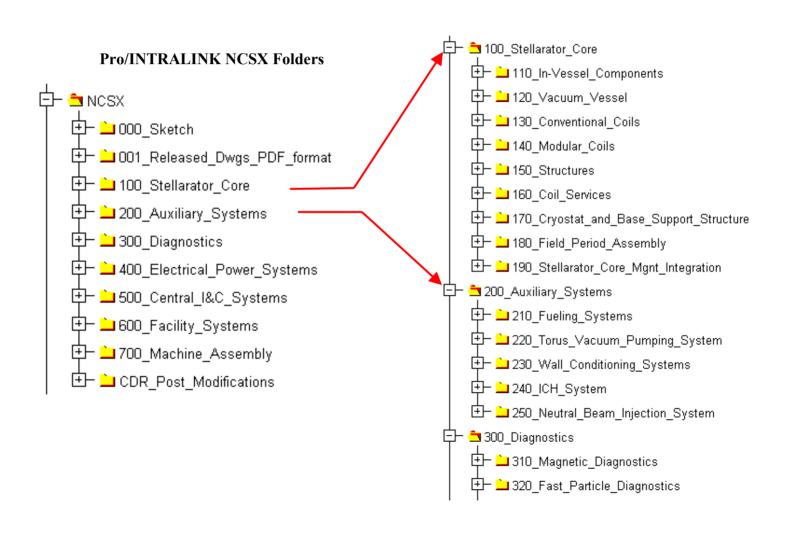
T Brown, M Cole NCSX Project Meeting Wednesday, July 24 Working with ProEngineer, ProINTRALINK is a data management tool that allows users to collaborate, track design iterations, relationships, configuration changes and store data in a central database.

By defining object types (.drw, .dxf, .xls, .pdf,...) you can use INTRALINK to store, manage and launch all types of files.

INTRALINK Folder Structure



The NCSX Folder Scheme Follows the Project WBS Structure



NCSX Drawing Numbering System

Typical No.: S 0 4 E 1 2 3 - 0 0 1

- S Defines the stellarator project (NCSX)
- 04 Defines the system concept number (eliminated with the start of PD).
- 123 WBS defined numbers. Following the 3rd level WBS designation is optional.
- 001 Drawing numbers. For mechanical numbers. 0 thru 10 saved for top level assemblies.

To obtain a number an engineer/designer/drafter takes the next number in the Commonspace folder being worked in and saves the object to Commonspace. Temporary "Sketch" names can also be used and later changed to an official number.

PPPL INTRALINK RELEASE LEVELS

Conceptual Design

Preliminary Design

Prototype

Final Design

Fabrication

Drawings stay at Rev 0 until released to Fabrication.

Drawings will show Release level and INTRALINK version number.

Release Level Release Procedure

Each INTRALINK folder will have a predefined set of release procedures, typically approvals will be made by the level 1 WBS manager and sub level WBS managers.

Conceptual Design

Preliminary Design

Prototype

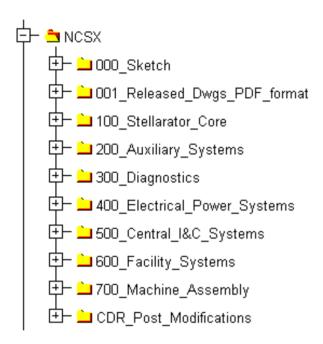
Final Design

Fabrication

Anyone can promote, designated WBS managers can approve.

Release Scheme Promotion Authorization

Pro/INTRALINK NCSX Folders



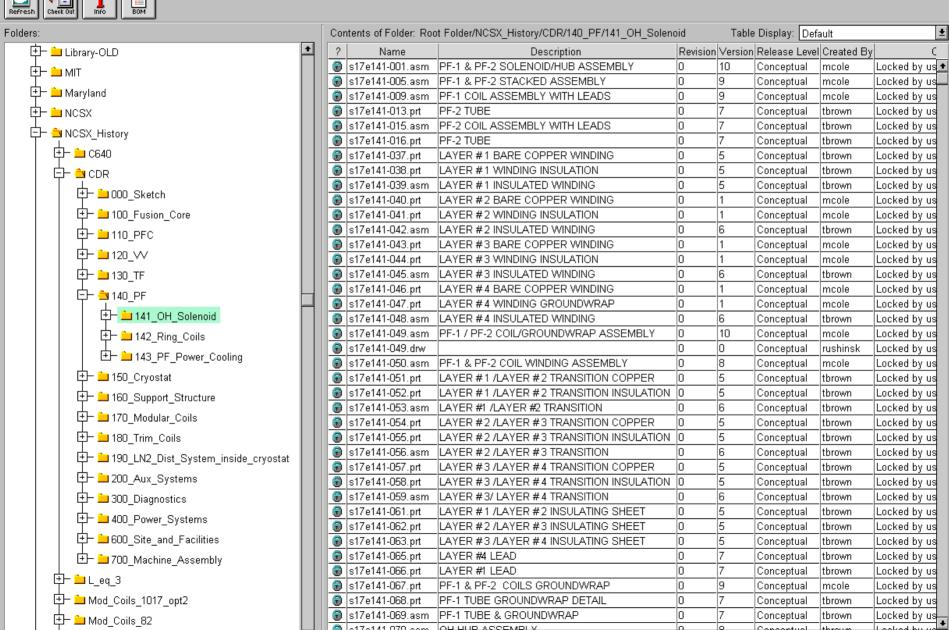
Release Scheme

WBS ORGANIZATON	WBS managers			
Stellarator Core Systems	Nel	Nelson		
VV and In-Vessel Components	Gor	Goranson		
Coil Systems	Will	Williamson		
Modular Coils		Williamson		
Convensional Coils		Kalish		
Coil Support Structure		Feder		
Coil Services		?		
Cryostat and Base Structure	?			
Cryostat		Gettelfinger		
Base Structure		Kalish		
Field Period Assembly	Chr	Chrzanowski		
Auxiliary Systems	Duc	Dudek		
Diagnostics	Joh	Johnson		
Fueling Systems	Bla	Blanchard		
Vacuum Pumping	Bla	Blanchard		
Wall Conditioning	Bla	Blanchard		
Neutral Beams	Ste	Stevenson		
Cryogenic System	Get	Gettelfinger		
Electrical Power	Ran	Ramakrishman		
Central I&C	Olia	Oliaro		
Water Systems	Duc	Dudek		
Utility Systems	Duc	Dudek		
Bakeout Systems	Kali	sh		
Test Cell Prep and Machine Asmbly	Per	ry		

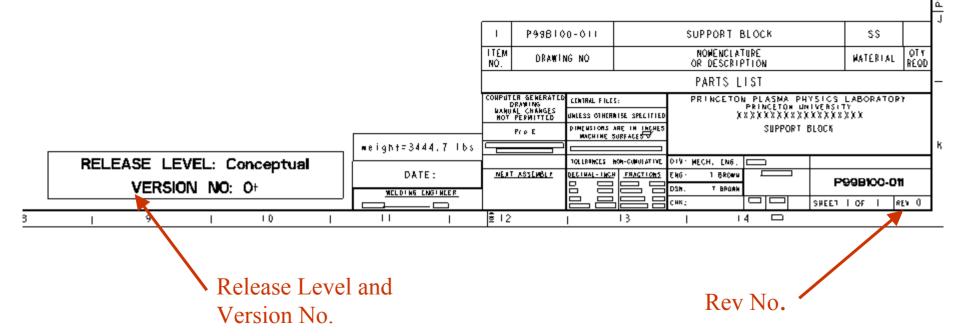
CD / PD / Prototype / FD /Fabrication

Object Display Bookmarks Tools Reports Help

Typical INTRALINK Common Space Display



In addition to Revision number, the Release Level and Version number is added to the drawing format automatically to indicate the drawing release status.

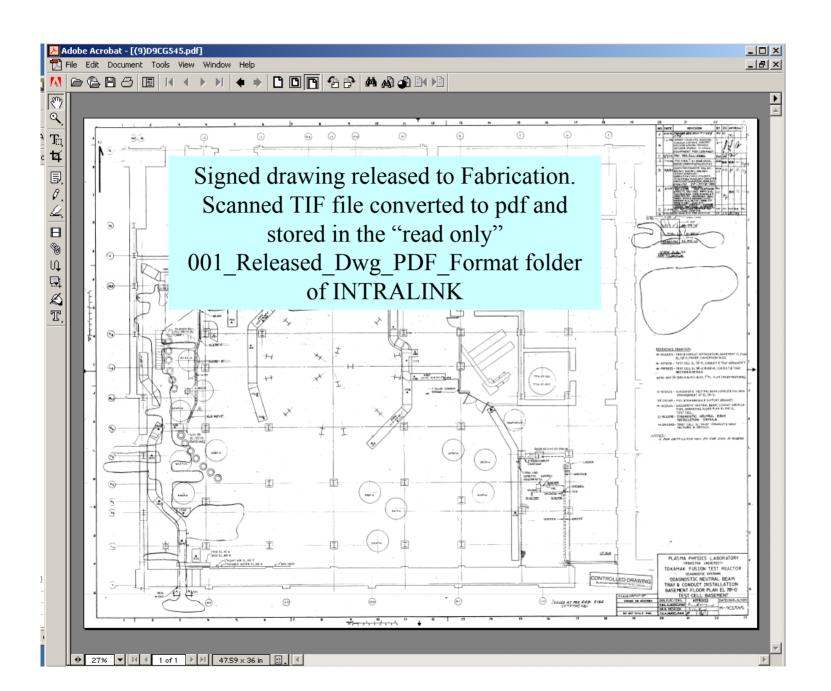


What files would be stored in INTRALINK?

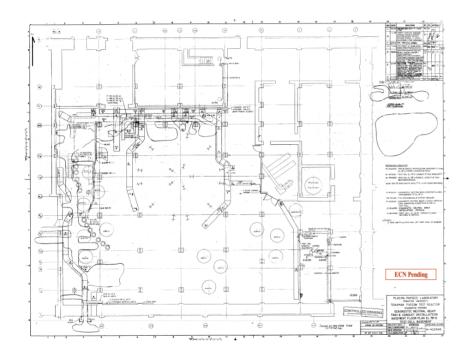
INTRALINK can store many document types.

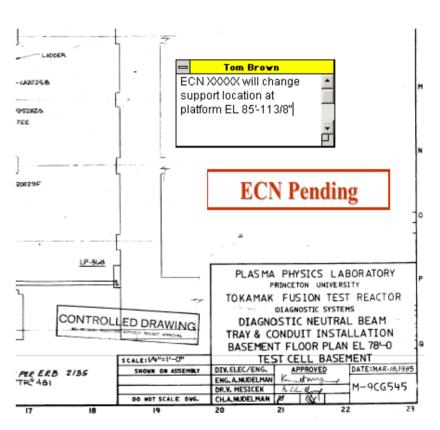
One option is to store all files under configuration control. This would include all CAD models and drawings, specification documents, interface control documents, etc..

Also, a released drawing folder will collect E-size pdf files of all released drawings. Write access will be restricted to one individual.



If a change is required for an approved drawing a customized Acrobat stamp stating "ECN Pending" can be placed on the drawing. Expanding the note will summarize the ECN.





Training for ProINTRALINK and ProEngineer							
ProINTRALINK	roINTRALINK ProEngine		User Type				
Hutch Neilson		Hutch Neilson					
Bob Simmons		Bob Simmons					
Phil Heitzenroeder		Phil Heitzenroeder					
Wayne Reiersen		Wayne Reiersen	2				
Jim Chrzanowski		Jim Chrzanowski					
Erik Perry		Erik Perry					
Larry Dudek	Mac	Larry Dudek					
Judy Malsbury		Judy Malsbury	1				
Frank Malinowski		Frank Malinowski	1				
Dave Johnson		Dave Johnson					
Russ Feder		Russ Feder	4				
Geoff Gettelfinger		Geoff Gettelfinger					
Lane Roquemore		Lane Roquemore					
Mike Kalish		Mike Kalish	3 - 4				
Bill Blanchard		Bill Blanchard	2				
Tim Stevenson		Tim Stevenson					
Henry Kugel		Henry Kugel					
Bob Ellis		Bob Ellis	3				
Steve Raftopoulos		Steve Raftopoulos					
Doug Loesser		Doug Loesser					
Charlie Neumeyer		Charlie Neumeyer	2				
Art Brooks		Art Brooks	2 - 3				
Raki Ramakrishman	Electrical						
Jerry Siegel							
Rick Van Kirk							
Jim Nelson							
Frank Jones							
Don McBride							
Dick Debonis							

Training for Pro/INTRALINK and ProEngineer

Note: We believe it's possible to access INTRALINK using a Mac by running a PC emulator.

User type of	designation for ProEngineer				
(0) No interest in knowing how to use the PorEngineer CADD software.					
(1) Viewer.	Views models and drawings.				
(2) Novice.	(2) Novice. Develops simple concept models and some drawing details.				
(3) Expert. Can use many features of ProE; develops detail models and drawings.					
(4) Master. Masters ProE. Develops complex models with NCSX type surfaces/geometries as well					
as drawing details. Also can use ProMechanica to develop FEA models/analysis.					sis.