











Pro/ENGINEER® Interface for Unigraphics with Associative Topology BusTM (ATB)
Pro/ENGINEER Wildfire® Series Overview

Asa Trainer Director, Product Management August 2009

Rev G



Pro/ENGINEER Interface for Unigraphics with ATB

Import and Export

- Parts and Assemblies
 - individual bodies & multi-body structure
- ATB Enabled (for import)
- Entity Support
 - Brep and Facet Geometry
 - Datum points and curves
 - Layers, Visibility, and Colors

Licensing

- Requires a license and install of UG
 - Required licenses are: (assemblies), (gateway), and (solid_modeling)
- A separately-licensed module of Pro/ENGINEER

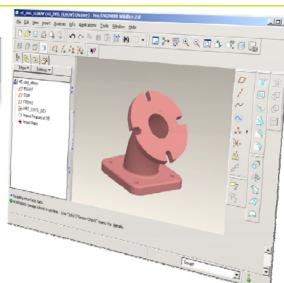
Distributed Pro/BATCH Support

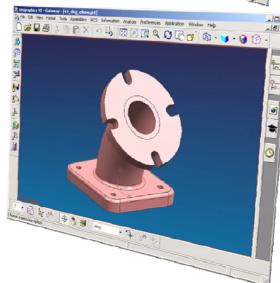
 Requires Pro/ENGINEER Interface for Unigraphics with ATB Unattended Edition license (CPT-3323-L)





Unigraphics NX4 or NX5







Associative Topology Bus

Associative

- One-directional associativity: UG to Pro/ENGINEER
- Pro/ENGINEER Translated Image Model (TIM)
- Contains link to Source (UG) object

Topology

- Maps geometry IDs from UG to Pro/ENGINEER
- Maintains geometry IDs as changes are made

Bus

- Checks for changes in the UG (Source) object
- Update import geometry based on changes in Source object
- Change Link, Make Independent





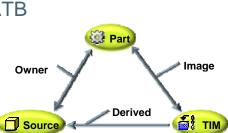


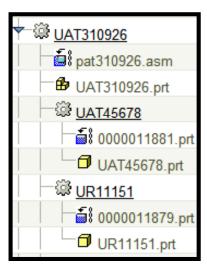
New in Pro/ENGINEER Wildfire 4.0 and PDMLink 9.1



Heterogeneous Design-In-Context (HDIC)

- Multi-CAD (Pro/ENGINEER, UG, CATIA V5) support in Windchill PDMLink
- Represent complete mixed CAD product structure in Pro/ENGINEER and Windchill.
- One WT Part one source CAD Document multiple image CAD Documents
- Open UG CAD Documents in Pro/ENGINEER to create ATB "image" CAD Documents.
- ATB enables: Check Status, Change Link, Make Independent, and (associative) Update on Pro/ENGINEER TIM (image) models
- Required Components
 - Pro/ENGINEER Wildfire 4.0 M060 or later
 - Pro/ENGINEER Interface for Unigraphics with ATB
 - Unigraphics NX4 or NX5
 - Windchill Workgroup Manager for Unigraphics
 - PDMLink 9.1 F000 or later





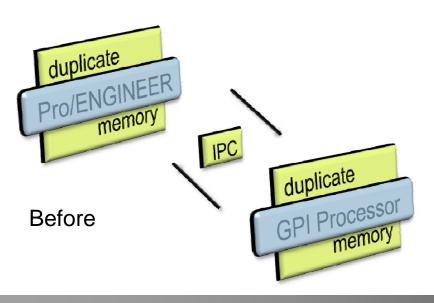


New in Pro/ENGINEER Wildfire 5.0

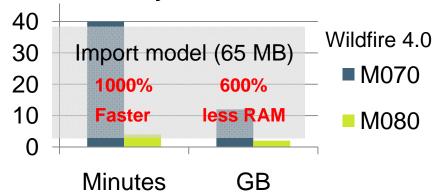
Pro ENGINEER WILDELRESSO

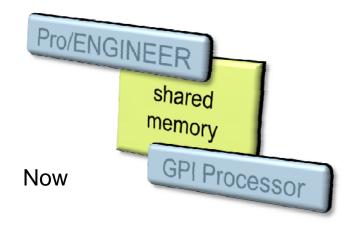
Shared Memory

- Limited to GPI-based processors
 - CATIA V5, CGR, JT, ProductView, UG, Autodesk Inventor, and CADDS5
- Introduced in Pro/ENGINEER Wildfire 4.0 (M080)
- Benefits
 - Reduced processing time
 - Reduced memory (RAM) usage



Shared Memory Performance & Resource





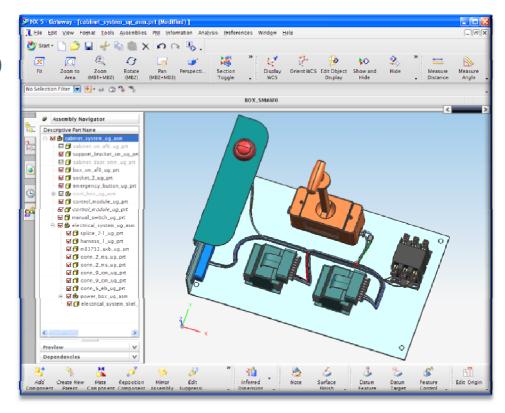


New in Pro/ENGINEER Wildfire 5.0



Geometry Export and Import

- Cables as geometry
 - Intf3d_out_cables yes | no (default)
 - Exact representation





New in Pro/ENGINEER Wildfire 5.0

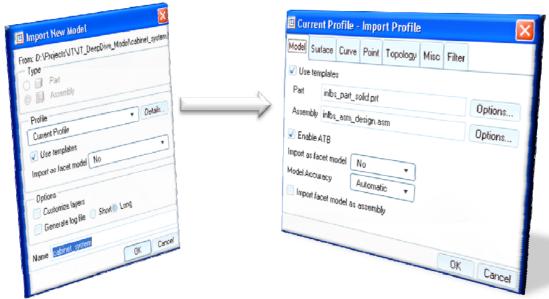


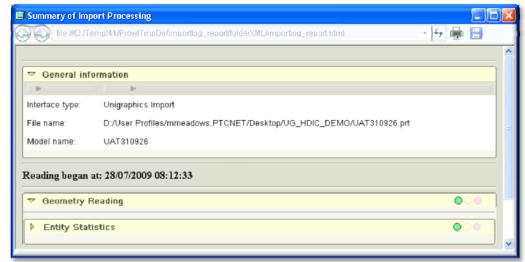
New Import Wizards

- Greater transparency of data exchange options
- Improved workflow
- Finer control of settings

Updated import log files

- XML format (*.xml)
- Log Options
 - Generate on Import
 - Short receipt
 - Long full log
 - None
 - Dynamically generate
 - Info > Data Exchange > Import Log
- Status Indicator







Platform Support

Pro/ENGINEER Interface for UG with ATB							
Platforms		Pro/ENGINEER Wildfire 4.0 ⁽¹⁾		Pro/ENGINEER Wildfire 5.0 ⁽²⁾			
os	Processor	32 bit	64 bit	32 bit	64 bit		
Windows XP	Pentium/Xeon	✓	√ (3)	✓	√		
Windows Vista	Pentium/Xeon	✓	√ (3)	✓	\checkmark		
HP-UX	PA8000	_	✓	_	_		
SUN Solaris	Ultra SPARC II	_	✓	_	_		
SUN Solaris	AMD & Intel	_	×	_	×		

- (1) **Pro/ENGINEER Wildfire 4.0 Platform Support Matrix**
- (2) **Pro/ENGINEER Wildfire 5.0 Platform Support Matrix**
- (3) Support for Windows 64 bit systems introduced in Unigraphics NX5.
- (4) Legend
 - ✓ Platform supported by Pro/ENGINEER and processor
 - ➤ Platform supported by Pro/ENGINEER, but not by processor
 - Platform not supported by Pro/ENGINEER



Version Support

Unigraphics Versions Support						
	Pro/ENGINEER Wildfire 3.0	Pro/ENGINEER Wildfire 4.0	Pro/ENGINEER Wildfire 5.0			
Unigraphics Import Versions ⁽¹⁾	V18 and NX	NX3 and NX4, NX5 (M020)	NX4 and NX5, NX6 (M030)			
Unigraphics Export Versions ⁽²⁾	V18 and NX	NX3 and NX4, NX5 (M020)	NX4 and NX5, NX6 (M030)			

- (1) Imports Unigraphics versions up compatible with the version of Unigraphics connected to Pro/ENGINEER.
- (2) Export format is defined by version of Unigraphics Pro/ENGINEER is connected to.
- (3) TPI 145483 details Unigraphics support in previous releases.













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