Hardware Notes - Pro/ENGINEER Wildfire 5.0 and Creo Elements/Pro 5.0

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Platform Support			
Partner	Operating System	Operating System levels	Supported Processors (CPU)
Microsoft	Windows Vista Business 64-bit Edition Windows Vista Ultimate 64-bit Edition Windows Vista Enterprise 64-bit Edition	Base OS, Service Pack 1 and 2	**Intel Processors:** Pentium Xeon Core Duo/Core 2 Duo (Including Quad-Core chips) or **AMD Processors:** Opteron Dual Core/Quad-Core
	Windows Vista Business 32-bit Edition Windows Vista Ultimate 32-bit Edition Windows Vista Enterprise 32-bit Edition	Base OS, Service Pack 1 and 2	
	Windows XP Professional x64 Edition	Base OS, Service Pack 2	
	Windows XP Professional Edition; Windows XP Home Edition	Base OS, Service Pack 1, 2 and 3	
	Windows 7* Professional 64-bit Edition Windows 7* Ultimate 64-bit Edition Windows 7* Enterprise 64-bit Edition	Base OS	
	Windows 7* Professional 32-bit Edition Windows 7* Ultimate 32-bit Edition Windows 7* Enterprise 32-bit Edition	Base OS	
	Windows Server 2008 R2 64-bit Edition	Base OS	
SUN	Solaris (64-bit only)	10	Intel and AMD Opteron family
NOTES			
This operating system is listed in the matrix in gray to provide customers with information that can be used for early planning purposes. The target maintenance release as shown is subject to change without prior notice and the actual maintenance release build and/or build date may be different. Customers are encouraged to refer back to this document regularly for updated information and contact PTC Product Management before making critical deployment decisions.			
Pro/ENGINEER Wildfire 5.0 and Creo Elements/Pro 5.0 do not support HP-UX or Sun Solaris SPARC [1, 2]			
There are currently no plans to support Creo 1.0 on Sun Solaris 10.			
* Introductory support for Pro/ENGINEER on Windows 7 is available starting M010. Full support available starting M040.			

System Requirements					
		Windows XP, Vista, 7		Solaris	
		Minimum	**Recommended**	**Minimum**	**Recommended**
Main Memory (RAM)		256 MB [b]	1024 MB or higher [a]	256 MB	1024 MB or higher
Available Disk Space	Pro/ENGINEER and Creo Elements/Pro 5.0	2.0 GB	2.5 GB or higher	2.5 GB	3.0 GB or higher
	Pro/ENGINEER Mechanica Wildfire 5.0 and Creo Elements/Pro Mechanica 5.0	2.0 GB	3.0 GB or higher	3.0 GB or higher	3.5 GB or higher
Swap Space		500 MB	2048 MB or higher	500 MB	2048 MB or higher
CPU speed		500 MHz	2.4 GHz or higher	See above table for individual vendor processor support	
Internal Browser Support		One of the following: • Microsoft Internet Explorer 9.0 **(with M110 release and later)** • Microsoft Internet Explorer 8.0 **(with official release)** • Microsoft Internet Explorer 7.0 • Microsoft Internet Explorer 6.0 (SP1 or later) • Mozilla based browser (embedded with Pro/Engineer and Creo element/Pro 5.0)		Mozilla based browser (embedded with Pro/Engineer and Creo Elements/Pro 5.0)	
Monitor		1280 x 1024 (or higher) resolution support with 24-bit or greater color			
Network		Microsoft TCP/IP Ethernet Network Adapter		TCP/IP Ethernet Network Adapter	
Mouse		Microsoft-approved 3-button mouse		3-button mouse	
File systems		NTFS		All vendor-supported file systems.	
Misc.		DVD drive			
NOTES					
[a] For Windows XP only. For 32-bit operating systems, the Windows limit is 2.0GB. For Windows XP you must enable the /3GB switch in order to utilize RAM greater than 2.0GB.					

[b] For Windows Vista minimum RAM is 512MB

Limitations of 32-bit Windows platforms

When considering upgrade from any release of Pro/ENGINEER Wildfire to Creo Elements/Pro 5.0 and using this product for operations on large assemblies, customers must analyze whether their current 32-bit hardware is sufficient for large assembly operations. PTC recommends that in any case where customers are currently using /3Gb switch on 32-bit hardware to support large assembly operations while running Pro/ENGINEER Wildfire, customers must upgrade to 64-bit hardware for these operations while running Creo Elements/Pro 5.0. PTC will no longer support out of memory conditions on 32-bit hardware when the /3Gb switch is.

Graphics Information

For 3D-hardware acceleration, an OpenGL graphics card must be used that has been tested in a PTC-certified configuration. To ensure the compatibility of a graphics driver with Pro/ENGINEER Wildfire 5.0 and Creo Elements/Pro 5.0, a PTC-certified hardware configuration is recommended.

For users of Direct3D on Windows Vista **March 2009 release of the Direct3D 10.0 End User Run Time libraries** must be installed. In addition Medium to High-End graphics card that fully supports Direct3D 10.0 is recommended for adequate performance. Visit Microsoft website for more information about downloading and installing Direct3D.

Dual Monitor Support

Limited dual monitor support is provided in Pro/ENGINEER Wildfire 5.0 and Creo Elements/Pro 5.0 on the Windows platform. PTC has successfully performed limited testing of some graphics card models from AMD(ATI) and NVIDIA that support dual monitor capabilities. If your graphics card is certified for Pro/ENGINEER Wildfire 5.0 and Creo Elements/Pro 5.0 and provides dual monitor support**, PTC expects that it will run in this mode without issue. PTC will provide limited support to resolve issues arising when running in dual monitor mode, however, the entire solution will not be submitted for formal certification as a complete configuration.

Note: in the event that dual monitor mode fails, we advise use of Span mode as a workaround.

**Please consult with AMD, NVIDIA, or the hardware platform partner to confirm the availability of this functionality with a given graphics card that has been certified with Pro/ENGINEER Wildfire 5.0 and Creo Elements/Pro 5.0.

Certified and Supported Graphics Cards

PTC provides Customer Support for all certified and/or supported graphics cards. Please note that graphics cards are part of a fully-certified or supported configuration (e.g., machine, model, operating system, graphics card and driver).

PTC does not certify or support graphic cards independently from the configurations in which they are certified or supported. Please refer to the linked partner pages for specific configurations.

Additional support information will be added to this table as our platform partners complete certifications in preparation for production shipment of Wildfire 5.0.

Supported Graphics Cards			
Partners	**Graphics Hardware Vendors**		
Workstation Vendors	**AMD (ATI)**	**NVIDIA**	**Other**
Hewlett-Packard	Yes	Yes	No
Dell	Yes	Yes	No
IBM	No	No	No
Fujitsu-Siemens	No	No	No
Fujitsu	No	Yes	No
Lenovo	Yes	Yes	No
Sun	No	Yes	No

Supported Peripherals and Accessories

	Windows (XP, XP x64, Vista)	Sun Solaris
3D Controllers (Pro/ENGINEER and Creo Element/Pro 5.0 only) Please refer to http://www.3dconnexion.com/software/ for specific driver information.		
SpaceNavigator	Certified	Certified
SpaceNavigator for Notebooks	Certified	Certified
SpaceExplorer 3DX	Certified	Certified
SpacePilot 3DX	Certified	Certified

Plotters and Printers

Pro/ENGINEER and Creo Elements/Pro 5.0 supports HPGL, HPGL/2, PostScript, Calcomp, Gerber and Versatec standard plotting formats. In addition, Pro/ENGINEER and Creo Elements/Pro 5.0 supports the Microsoft Print Manager.

If you do not see your printer/plotter on the list below, please refer to the Introduction and Support Policy .

Emulation

Various manufacturers produce printers and plotters that may be compatible with or emulate a device that is supported by PTC. Please be aware that such devices are not tested by PTC and therefore, may not produce correct plotted output. If you are using a device which emulates a printer or plotter listed in the tables below, PTC Technical Support will attempt to provide support by using a similar certified device. Any support pertaining to compatibility with a supported plotter or the correctness of emulation can only be made by the manufacturers of the device in question, and not by PTC.

The Microsoft Printer Manager creates an emulation of what appears on the screen and attempts to print this. Since this emulation is between the Print Manager driver and the printer/plotter driver, quality and results may vary. You may choose to try a certified PTC printer/plotter driver, which has been optimized for high quality printing.

Plotters		
	Windows XP	**Sun Solaris**
HP T1200	Certified	**Not supported ***
HP Designjet 1055CM+	Certified	Certified
HP Designjet 800PS	Certified	Certified
HP Designjet 5500PS	Certified	Certified
HP Designjet copier cc800PS	Certified	Certified
HP Designjet 4000	Certified	Certified
Printers		
HP deskjet 1220cps	Certified	Certified
HP color inkjet cp1700ps	Certified	Certified
HP business inkjet 2600dn	Certified	Certified

NOTES

***** Due to fact that hardware manufacturer does not provide drivers for this platform.

Supported MCAD Systems

You can integrate several MCAD systems with Pro/ENGINEER Mechanica Wildfire 5.0 and and Creo Elements/Pro Mechanica 5.0. The following table lists the supported MCAD systems and platforms.

Platforms	CoCreate Modeling (all languages)	CATIA (English only)	Unigraphics (English only)
32-bit Windows XP and Windows Vista	16.50	n/a	NX6
64-bit Windows XP and Windows Vista	16.50	n/a	NX6
Intel and AMD Based SUN Solaris x64	n/a	n/a	n/a
NOTES			
n/a for Sun Solaris 64-bit (Sparc) except for CADDS/OPTEGRA SUPPORT ONLY			

Supported Finite Element Solvers

You can integrate several Finite Element Solvers with Pro/ENGINEER Mechanica Wildfire 5.0 and and Creo Elements/Pro Mechanica 5.0 for use in FEM mode. The following table lists the supported Finite Element Solvers and platforms.

Platforms	NASTRAN	ANSYS
32-bit Windows XP and Windows Vista	2008	12.0
64-bit Windows XP and Windows Vista	2008	12.0
Intel and AMD Based SUN Solaris x64	2008	12.0

Platform Support for Data Exchange

Processor	Format	Import / Export	Platform		
			32-bit Windows XP and Windows Vista	64-bit Windows XP and Windows Vista	Intel and AMD Based SUN Solaris x64
Image Formats					
BMP	*.bmp – Edit via Image Editor, used in style feature as trace sketch, export parts and assemblies via Distributed Pro/BATCH	I/E	Yes	Yes	Yes
EPS	*.eps – Save a Copy of parts and assemblies, export parts and assemblies via Distributed Pro/BATCH	E	Yes	Yes	Yes
GIF	*.gif – import via Image Editor, used in style feature as trace sketch	I	Yes	Yes	Yes
HDR	*.hdr – import via Image Editor	I	Yes	Yes	Yes
JPEG	*.jpg – Edit via Image Editor, used in style feature as trace sketch, Save a Copy of parts and assemblies, export parts, assemblies and drawings via Distributed Pro/BATCH	I/E	Yes	Yes	Yes
PDF	*.pdf – Save a Copy of parts, assemblies and drawings, export parts and assemblies via Distributed Pro/BATCH	E	Yes	Yes	No
Picture	*.pic – Save a Copy of parts, assemblies and drawings	E	Yes	Yes	Yes
PNG	*.png – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes	Yes
PTC Bumpmap	*.tx1 – Edit via Image Editor	I/E	Yes	Yes	Yes
PTC Color Texture	*.tx4 – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes	Yes
PTC Decal	*.tx3 – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes	Yes

PTC Image	*.imf – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes	Yes
RGB	*.rgb – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes	Yes
RLA	*.rla - Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes	Yes
Session Texture	*.mem – Import via Image Editor	I	Yes	Yes	Yes
Shaded Image	*.shd – Edit via Image Editor, Save a Copy of parts and assemblies	I/E	Yes	Yes	Yes
SHIMA-SEIKI	*.pic – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes	Yes
TGA	*.tga – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes	Yes
TIFF	*.tif – Edit via Image Editor, used in style feature as trace sketch, Save a Copy of parts, assemblies and drawings, export parts and assemblies via Distributed Pro/BATCH	I/E	Yes	Yes	Yes
2D Formats					
Adobe Illustrator	*.ai	I	Yes	Yes	Yes
CGM	*.cgm	I/E	Yes	Yes	Yes
DWG	*.dwg	I/E	Yes	Yes	No
DXF	*.dxf	I/E	Yes	Yes	Yes
IGES	*.igs	I/E	Yes	Yes	Yes
Medusa	s.* – Format generated by UNIX on export *.she – Format generated by Windows on export *.asc – (import)	I/E	Yes	Yes	No
PDF	*.pdf – Direct drawing export	E	Yes	Yes	No
ProductView	*.ed (structure) & *.plt (drawing) *.edz (compressed structure and drawings) *.pvs (structure) & *.plt (drawing) *.pvz (packaged structure and drawings)	E	Yes	Yes	Yes
SET	*.set	E	Yes	Yes	Yes
STEP	*.stp – (import/export) *.step – (import)	I/E	Yes	Yes	Yes
Stheno	*.tsh	I/E	Yes	Yes	No
3D Formats					
ACIS	*.acs	I/E	Yes	Yes	Yes
Autodesk Inventor	*.iam, *.ipt Requires installation of and licensing for Autodesk Inventor	I	Yes	Yes	No
CATIA V4	*.model – (import/export) *.exp, *.session – (import) Requires Interface for CATIA II license	I/E	Yes	No	No
CATIA V5	*.CATPart *.CATProduct *.cgr - Facet Only Requires Interface for CATIA V5 license	I/E	Yes	Yes	No
DWG	*.dwg – with embedded ACIS	I	Yes	Yes	No
DXF	*.dxf – with embedded ACIS	I	Yes	Yes	Yes
Granite	*.g	I/E	Yes	Yes	Yes
JT	*.jt Requires Interface for JT license	I/E	Yes	Yes	No
IBL	*.ibl	I	Yes	Yes	Yes
ICEM	*.icm	I	Yes	Yes	Yes
IGES	*.igs – (import/export) *.iges – (import)	I/E	Yes	Yes	Yes
Neutral	*.neu	I/E	Yes	Yes	Yes
Optegra visualize	*.gbf Facet Only	E	Yes	Yes	Yes
Parasolid 3D	*.xmt, *.xmt_txt, *.x_t, *.xmt_neu, *.x_n *.xmt_bin, *.x_b – (import) *.x_t – (export)	I/E	Yes	Yes	Yes
PDF	*.pdf – Direct model export	E	Yes	Yes	No
Points	*.pts	I	Yes	Yes	Yes
Pro/DESKTOP	*.des *.pdt	I	Yes	Yes	Yes
ProductView	*.ed (structure) & *.ol (models) *.edz (compressed structure and models) *.pvs (structure) & *.ol (models) *.pvz (packaged structure and models)	I/E	Yes	Yes	Yes

Render	*.slp – Facet Only	E	Yes	Yes	Yes
Rhino	*.3dm	I	Yes	Yes	No
SET	*.set	I/E	Yes	Yes	Yes
SolidWorks	*.sldprt, *.sldasm Requires installation of SolidWorks or SolidWorks Explorer and a license of SolidWorks.	I	Yes	Yes	No
STEP	*.stp – (import/export) *.step – (import)	I/E	Yes	Yes	Yes
STL	*.stl – Facet Only	I/E	Yes	Yes	Yes
U3D	*.u3d	E	Yes	Yes	No
Unigraphics	*.prt (UG format) Requires UG license and installation	I/E	Yes	Yes	No
VDA	*.vda	I/E	Yes	Yes	Yes
VRML	*.wrl – Facet Only	I/E	Yes	Yes	Yes
Wavefront	*.obj	I	Yes	Yes	Yes
ECAD Formats					
Allegro	*.mdb – For board outline files *.mdc – For component placement files *.mdf – For footprint files, such as the ones in component outline libraries	I/E	Yes	Yes	Yes
DAZIX	*.edn – Neutral file of the board outline and component placement. Dazix refers to this as a core file. *.edp – Profile file that contains component outlines. Dazix refers to this as a library file	I/E	Yes	Yes	Yes
EDMD	*.idx	I/E	Yes	No	No
IDF	*.emn – (import/export) *.emp – library file (import)	I/E	Yes	Yes	Yes
Neutral	*.nwf	I/E	Yes	Yes	Yes
Routed Systems Designer	*.xml	I	Yes	Yes	Yes
Visula	*.evs	I/E	Yes	Yes	Yes
NOTES					
Object Linking and Embedding (OLE) may provide additional format support but is dependent on operating system (Windows only), installed software components, and third-party support for OLE.					