# Hardware Notes - Pro/ENGINEER Wildfire 5.0

## Table of Content

Last updated: September 11, 2009

| Platform Support | | | |
|---|---|---|---|
| Partner | Operating System | Operating System levels | CPU |
| Microsoft | Windows Vista Business x64 Edition<br>Windows Vista Ultimate x64 Edition<br>Windows Vista Enterprise x64 Edition | Base OS, Service Pack 1 | Intel Pentium/Xeon/Core Duo/Core 2 Duo family<br>AMD Opteron family |
| | Windows Vista Business Edition<br>Windows Vista Ultimate Edition<br>Windows Vista Enterprise Edition | Base OS, Service Pack 1 | Intel Pentium/Xeon/Core Duo/Core 2 Duo family<br>AMD Opteron family |
| | Windows XP Professional x64 Edition | Base OS,<br>Service Pack 2 | Intel Pentium/Xeon/Core Duo/Core 2 Duo family<br>AMD Opteron family |
| | Windows XP Professional Edition;<br>Windows XP Home Edition | Base OS,<br>Service Pack 1, 2 and 3 | Intel Pentium/Xeon/Core Duo/Core 2 Duo family<br>AMD Opteron family |
| | Windows 7* Professional x64 Edition<br>Windows 7* Ultimate x64 Edition<br>Windows 7* Enterprise x64 Edition | Base OS | Intel Pentium/Xeon/Core Duo/Core 2 Duo family |
| | Windows 7* Professional Edition<br>Windows 7* Ultimate Edition<br>Windows 7* Enterprise Edition | Base OS | Intel Pentium/Xeon/Core Duo/Core 2 Duo family |
| SUN | Solaris (64-bit only) | 10 | Intel and AMD Opteron family |

**NOTES**

Pro/ENGINEER Wildfire 5.0 does not support HP-UX or Sun Solaris SPARC

* Introductory support for Pro/ENGINEER on Windows 7 is planned for M010. 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 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.

There are currently no plans to support Pro/ENGINEER on Windows Vista beyond Service Pack 1.

Running Pro/Engineer on a server operating system is not supported currently.

| System Requirements | | | | | |
|---|---|---|---|---|---|
| | | Windows XP, Vista | | Solaris | |
| | | Minimum | Recommended | Minimum | Recommended |
| Main Memory (RAM) | | 256 MB [b] | 1024 MB or higher | 256 MB | 1024 MB or higher |
| Available Disk Space | Pro/ENGINEER | 2.0 GB | 2.5 GB or higher [a] | 2.5 GB | 3.0 GB or higher |
| | Pro/ENGINEER with Pro/ENGINEER Mechanica Wildfire 5.0 | 2.0 GB | 3.0 GB or higher [a] | 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:<br>• Microsoft Internet Explorer 8.0 **(with official release)**<br>• Microsoft Internet Explorer 7.0<br>• Microsoft Internet Explorer 6.0 (SP1 or later)<br>• Mozilla based browser (embedded with Pro/Engineer) | | Mozilla based browser (embedded with Pro/Engineer) | |
| Monitor | | 1280 x 1024 (or higher) resolution support with 24-bit or greater color | | 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. | | CD-ROM or DVD drive | | CD ROM or 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

## 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, 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 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 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.

## 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 | No | No |
| Lenovo | Yes | Yes | No |
| Sun | No | Yes | No |

| Supported Peripherals and Accessories | | |
|---|---|---|
| | Windows (XP, XP x64, Vista) | Sun Solaris |
| **3D Controllers (Pro/ENGINEER 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 supports HPGL, HPGL/2, PostScript, Calcomp, Gerber and Versatec standard plotting formats. In addition, Pro/ENGINEER 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 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 |

## Supported MCAD Systems

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

| Platforms | CATIA Release 4.2.4 (English only) | Unigraphics Release – UG/Open (English only) |
|---|---|---|
| 32-bit Windows XP and Windows Vista | n/a | NX4 and NX5 |
| 64-bit Windows XP and Windows Vista | n/a | NX4 only |
| Intel and AMD Based SUN Solaris x64 | 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 for use in FEM mode. The following table lists the supported Finite Element Solvers and platforms.

| Platforms | NASTRAN 2008r1 | ANSYS 11.0 SP1 |
|---|---|---|
| 32-bit Windows XP and Windows Vista | x | x |
| 64-bit Windows XP and Windows Vista | x | x |
| Intel and AMD Based SUN Solaris x64 | x | x |

## Platform Support for Data Exchange

| Processor | Format | Import / Export | 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<br>*.she – Format generated by Windows on export<br>*.asc – (import) | I/E | Yes | Yes | No |
| PDF | *.pdf – Direct drawing export | E | Yes | Yes | No |
| ProductView | *.ed (structure) & *.plt (drawing)<br>*.edz (compressed structure and drawings)<br>*.pvs (structure) & *.plt (drawing)<br>*.pvz (packaged structure and drawings) | E | Yes | Yes | Yes |
| SET | *.set | E | Yes | Yes | Yes |
| STEP | *.stp – (import/export)<br>*.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<br>Requires installation of and licensing for Autodesk Inventor | I | Yes | Yes | No |
| CATIA V4 | *.model – (import/export)<br>*.exp, *.session – (import)<br>Requires Interface for CATIA II license | I/E | Yes | No | No |
| CATIA V5 | *.CATPart<br>*.CATProduct<br>*.cgr - Facet Only<br>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<br>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)<br>*.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)<br>*.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<br>*.pdt | I | Yes | Yes | Yes |
| ProductView | *.ed (structure) & *.ol (models)<br>*.edz (compressed structure and models)<br>*.pvs (structure) & *.ol (models)<br>*.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<br>Requires installation of SolidWorks or SolidWorks Explorer and a license of SolidWorks. | I | Yes | Yes | No |
| STEP | *.stp – (import/export)<br>*.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)<br>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<br>*.mdc – For component placement files<br>*.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.<br>*.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)<br>*.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. | | | | | | |