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

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### Platform Support

<table>
<thead>
<tr>
<th>Partner</th>
<th>Operating System</th>
<th>Operating System levels</th>
<th>Supported Processors (CPU)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Microsoft</strong></td>
<td>Windows Vista Business 64-bit Edition</td>
<td>Base OS, Service Pack 1 and 2</td>
<td><strong>Intel Processors:</strong> Pentium, Xeon, Core Duo/Core 2 Duo (Including Quad-Core chips) or <strong>AMD Processors:</strong> Opteron Dual Core/Quad-Core</td>
</tr>
<tr>
<td></td>
<td>Windows Vista Ultimate 64-bit Edition</td>
<td>Base OS, Service Pack 1 and 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows Vista Enterprise 64-bit Edition</td>
<td>Base OS, Service Pack 1 and 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows XP Professional x64 Edition</td>
<td>Base OS, Service Pack 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows XP Professional Edition; Windows XP Home Edition</td>
<td>Base OS, Service Pack 1, 2 and 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows 7* Professional 64-bit Edition</td>
<td>Base OS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows 7* Ultimate 64-bit Edition</td>
<td>Base OS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Windows 7* Enterprise 64-bit Edition</td>
<td>Base OS</td>
<td></td>
</tr>
<tr>
<td>SUN</td>
<td>Solaris (64-bit only)</td>
<td>10</td>
<td>Intel and AMD Opteron family</td>
</tr>
</tbody>
</table>

**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.

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

<table>
<thead>
<tr>
<th></th>
<th>Windows XP, Vista, 7</th>
<th>Solaris</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Minimum</strong></td>
<td><strong>Recommended</strong></td>
<td><strong>Minimum</strong></td>
</tr>
<tr>
<td>Main Memory (RAM)</td>
<td>256 MB *</td>
<td>1024 MB or higher *</td>
</tr>
<tr>
<td>Available Disk Space</td>
<td>Pro/ENGINEER and Creo Elements/Pro 5.0</td>
<td>2.0 GB</td>
</tr>
<tr>
<td></td>
<td>Pro/ENGINEER Mechanica Wildfire 5.0 and Creo Elements/Pro Mechanica 5.0</td>
<td>2.0 GB</td>
</tr>
<tr>
<td>Swap Space</td>
<td>500 MB</td>
<td>2048 MB or higher</td>
</tr>
<tr>
<td>CPU speed</td>
<td>500 MHz</td>
<td>2.4 GHz or higher</td>
</tr>
<tr>
<td>Internal Browser Support</td>
<td>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 Mozilla based browser (embedded with Pro/Engineer and Creo Elements/Pro 5.0)</td>
<td>Mozilla based browser (embedded with Pro/Engineer and Creo Elements/Pro 5.0)</td>
</tr>
<tr>
<td>Monitor</td>
<td>1280 x 1024 (or higher) resolution support with 24-bit or greater color</td>
<td></td>
</tr>
<tr>
<td>Network</td>
<td>Microsoft TCP/IP Ethernet Network Adapter</td>
<td>TCP/IP Ethernet Network Adapter</td>
</tr>
<tr>
<td>Mouse</td>
<td>Microsoft-approved 3-button mouse</td>
<td>3-button mouse</td>
</tr>
<tr>
<td>File systems</td>
<td>NTFS</td>
<td>All vendor-supported file systems.</td>
</tr>
<tr>
<td>Misc.</td>
<td>DVD drive</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES**

* 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.
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.

<table>
<thead>
<tr>
<th>Workstation Vendors</th>
<th>AMD (ATI)</th>
<th>NVIDIA</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hewlett-Packard</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Dell</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>IBM</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Fujitsu-Siemens</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Fujitsu</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Lenovo</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Sun</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>
## Supported Peripherals and Accessories

### 3D Controllers (Pro/ENGINEER and Creo Element/Pro 5.0 only)
Please refer to [http://www.3dconnexion.com/software/](http://www.3dconnexion.com/software/) for specific driver information.

<table>
<thead>
<tr>
<th>Peripheral</th>
<th>Windows (XP, XP x64, Vista)</th>
<th>Sun Solaris</th>
</tr>
</thead>
<tbody>
<tr>
<td>SpaceNavigator</td>
<td>Certified</td>
<td>Certified</td>
</tr>
<tr>
<td>SpaceNavigator for Notebooks</td>
<td>Certified</td>
<td>Certified</td>
</tr>
<tr>
<td>SpaceExplorer 3DX</td>
<td>Certified</td>
<td>Certified</td>
</tr>
<tr>
<td>SpacePilot 3DX</td>
<td>Certified</td>
<td>Certified</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Plotter</th>
<th>Windows XP</th>
<th>Sun Solaris</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP T1200</td>
<td>Certified</td>
<td>Not supported *</td>
</tr>
<tr>
<td>HP Designjet 1055CM+</td>
<td>Certified</td>
<td>Certified</td>
</tr>
<tr>
<td>HP Designjet 800PS</td>
<td>Certified</td>
<td>Certified</td>
</tr>
<tr>
<td>HP Designjet 5500PS</td>
<td>Certified</td>
<td>Certified</td>
</tr>
<tr>
<td>HP Designjet copier cc800PS</td>
<td>Certified</td>
<td>Certified</td>
</tr>
<tr>
<td>HP Designjet 4000</td>
<td>Certified</td>
<td>Certified</td>
</tr>
</tbody>
</table>

#### Printers

<table>
<thead>
<tr>
<th>Printer</th>
<th>Windows XP</th>
<th>Sun Solaris</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP deskjet 1220cps</td>
<td>Certified</td>
<td>Certified</td>
</tr>
<tr>
<td>HP color inkjet cp1700ps</td>
<td>Certified</td>
<td>Certified</td>
</tr>
<tr>
<td>HP business inkjet 2600dn</td>
<td>Certified</td>
<td>Certified</td>
</tr>
</tbody>
</table>

#### 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 Creo Elements/Pro Mechanica 5.0. The following table lists the supported MCAD systems and platforms.

<table>
<thead>
<tr>
<th>Platforms</th>
<th>CoCreate Modeling (all languages)</th>
<th>CATIA (English only)</th>
<th>Unigraphics (English only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>32-bit Windows XP and Windows Vista</td>
<td>16.50</td>
<td>n/a</td>
<td>NX6</td>
</tr>
<tr>
<td>64-bit Windows XP and Windows Vista</td>
<td>16.50</td>
<td>n/a</td>
<td>NX6</td>
</tr>
<tr>
<td>Intel and AMD Based SUN Solaris x64</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

**NOTES**
- n/a for Sun Solaris 64-bit (Sparc) except for CADD/OPTEGRA SUPPORT ONLY

## Supported Finite Element Solvers

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

<table>
<thead>
<tr>
<th>Platforms</th>
<th>NASTRAN</th>
<th>ANSYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>32-bit Windows XP and Windows Vista</td>
<td>2008</td>
<td>12.0</td>
</tr>
<tr>
<td>64-bit Windows XP and Windows Vista</td>
<td>2008</td>
<td>12.0</td>
</tr>
<tr>
<td>Intel and AMD Based SUN Solaris x64</td>
<td>2008</td>
<td>12.0</td>
</tr>
</tbody>
</table>

## Platform Support for Data Exchange

### Image Formats

<table>
<thead>
<tr>
<th>Processor</th>
<th>Format</th>
<th>Platform</th>
<th>32-bit Windows XP and Windows Vista</th>
<th>64-bit Windows XP and Windows Vista</th>
<th>Intel and AMD Based SUN Solaris x64</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMP</td>
<td>*.bmp</td>
<td></td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>EPS</td>
<td>*.eps</td>
<td></td>
<td>E</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>GIF</td>
<td>*.gif</td>
<td></td>
<td>I</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>HDR</td>
<td>*.hdr</td>
<td></td>
<td>I</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>JPEG</td>
<td>*.jpg</td>
<td></td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>PDF</td>
<td>*.pdf</td>
<td></td>
<td>E</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Picture</td>
<td>*.pic</td>
<td></td>
<td>E</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>PNG</td>
<td>*.png</td>
<td></td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>PTC Bumpmap</td>
<td>*.tx1</td>
<td></td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>PTC Color Texture</td>
<td>*.tx4</td>
<td></td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>PTC Decal</td>
<td>*.tx3</td>
<td></td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Format</td>
<td>Description</td>
<td>I/E</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>-----</td>
<td>-----</td>
<td>----</td>
<td></td>
</tr>
<tr>
<td>PTC Image</td>
<td>*.imf – Edit via Image Editor, used in style feature as trace sketch</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>RGB</td>
<td>*.rgb – Edit via Image Editor, used in style feature as trace sketch</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>RLA</td>
<td>*.rla - Edit via Image Editor, used in style feature as trace sketch</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Session Texture</td>
<td>*.mem – Import via Image Editor</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Shaded Image</td>
<td>*.shd – Edit via Image Editor, Save a Copy of parts and assemblies</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SHIMA-SEIKI</td>
<td>*.pic – Edit via Image Editor, used in style feature as trace sketch</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>TGA</td>
<td>*.tga – Edit via Image Editor, used in style feature as trace sketch</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>TIFF</td>
<td>*.tiff – 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</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>2D Formats</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adobe Illustrator</td>
<td>*.ai</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>CGM</td>
<td>*.cgm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DWG</td>
<td>*.dwg</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>DXF</td>
<td>*.dxf</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>IGES</td>
<td>*.igs</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Medusa</td>
<td>*.a – Format generated by UNIX on export</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>*.she – Format generated by Windows on export</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*.asc – (import)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PDF</td>
<td>*.pdf – Direct drawing export</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ProductView</td>
<td>*.ed (structure) &amp; *.plt (drawing)</td>
<td>E</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>*.edz (compressed structure and drawings)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*.pvs (structure) &amp; *.plt (drawing)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*.pvz (packaged structure and drawings)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SET</td>
<td>*.set</td>
<td>E</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>STEP</td>
<td>*.stp – (import/export)</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>*.step – (import)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steno</td>
<td>*.tsh</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>3D Formats</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACIS</td>
<td>*.acs</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
| Autodesk Inventor   | *.iam, *.ipt
Requires installation of and licensing for Autodesk Inventor         | I/E | Yes | Yes| No |
<p>| CATIA V4            | *.model – (import/export)                                                  | I/E | Yes | No | No |
|                     | *.exp, *.session – (import)                                                 |     |     |    |
|                     | Requires Interface for CATIA II license                                     |     |     |    |
| CATIA V5            | *.CATPart                                                                  | I/E | Yes | Yes| No |
|                     | *.CATProduct                                                               |     |     |    |
|                     | *.cgr - Facet Only                                                          |     |     |    |
|                     | Requires Interface for CATIA V5 license                                     |     |     |    |
| DWG                 | *.dwg – with embedded ACIS                                                 | I/E | Yes | Yes| No |
| DXF                 | *.dxf – with embedded ACIS                                                 | I/E | Yes | Yes| Yes|
| Granite             | *.g                                                                        | I/E | Yes | Yes| Yes|
| JT                  | *.jt                                                                       | I/E | Yes | Yes| No |
|                     | Requires Interface for JT license                                          |     |     |    |
| IBL                 | *.ibl                                                                       | I/E | Yes | Yes| Yes|
| ICEM                | *.icm                                                                       | I/E | Yes | Yes| Yes|
| IGES                | *.igs – (import/export)                                                    | I/E | Yes | Yes| Yes|
|                     | *.iges – (import)                                                          |     |     |    |
| Neutral             | *.neu                                                                       | I/E | Yes | Yes| Yes|
| Optegra visualize   | *.gbl Facet Only                                                            | E   | Yes | Yes| Yes|
| Parasolid 3D        | *.xmt, *.xmt_txt, *.x_t, *.xmt_neu, *.x_n *.xmt_bin, *.x_b – (import)        | I/E | Yes | Yes| Yes|
|                     | *.x – (export)                                                             |     |     |    |
| PDF                 | *.pdf – Direct model export                                                | E   | Yes | Yes| No |
| Points              | *.pts                                                                      | I/E | Yes | Yes| Yes|
| Pro/DESKTOP         | *.des, *.pdt                                                                | I/E | Yes | Yes| Yes|
| ProductView         | *.edz (structure) &amp; *.ol (models)                                          | I/E | Yes | Yes| Yes|
|                     | *.pvs (structure) &amp; *.ol (models)                                          |     |     |    |
|                     | *.pvz (packaged structure and models)                                      |     |     |    |</p>
<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
<th>Readable</th>
<th>Importable</th>
<th>Exportable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Render</td>
<td>*.slp – Facet Only</td>
<td>E</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Rhino</td>
<td>*.3dm</td>
<td>I</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SET</td>
<td>*.set</td>
<td>I/E</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SolidWorks</td>
<td>*.slpt, *.sldasm</td>
<td>Requires installation of SolidWorks or SolidWorks Explorer and a license of SolidWorks.</td>
<td>I</td>
<td>Yes</td>
</tr>
</tbody>
</table>
| 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

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
<th>Readable</th>
<th>Importable</th>
<th>Exportable</th>
</tr>
</thead>
</table>
| 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.