

## Hardware Notes - Creo 3.0

Parametric, Direct, Layout, Schematics, Options Modeler, Simulate

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Platform Support		
Partner	Operating System	Operating System levels
Microsoft	Windows 10 Professional 64-bit Edition <sup>3</sup> Windows 10 Enterprise 64-bit Edition <sup>3</sup> Windows 10 Enterprise 2015 LTSB 64-bit Edition <sup>3</sup>	Base OS
	Windows Server 2012 R2 64-bit Standard Edition <sup>1&amp;2</sup>	Base OS
	Windows 8.1 32 and 64-bit Edition Windows 8.1 Pro 32 and 64-bit Edition	Base OS, Update (KB 2919355)
	Windows 8 32 and 64-bit Edition Windows 8 Pro 32 and 64-bit Edition	Base OS
	Windows 7 Professional 32 and 64-bit Edition Windows 7 Ultimate 32 and 64-bit Edition Windows 7 Enterprise 32 and 64-bit Edition	Base OS, Service Pack 1
<b>NOTES</b>		
1. Windows Server 2012 R2 is supported on Creo 3.0 M040 and later.		
2. Windows Server 2012 R2 is supported in Batch Mode only and is NOT supported for Creo Schematics.		
3. Windows 10 is supported on Creo 3.0 M060 and later.		
Windows XP and Windows Server 2008 support is discontinued for Creo 3.0.		

System Requirements		
	Operating System	Recommended amount
Main Memory (RAM)	Windows 10 64-bit	4GB or higher
	Windows Server 2012 R2	4GB or higher
	Windows 8.1 64-bit	4GB or higher
	Windows 8.1 32-bit	3GB <sup>1</sup>
	Windows 8 64-bit	4GB or higher
	Windows 8 32-bit	3GB <sup>1</sup>
	Windows 7 64-bit	4GB or higher
	Windows 7 32-bit	3GB <sup>1</sup>
Internal Browser Support	One of the following: <ul style="list-style-type: none"> <li>• Microsoft Internet Explorer 11.0</li> <li>• Microsoft Internet Explorer 10.0</li> <li>• Microsoft Internet Explorer 9.0</li> <li>• Microsoft Internet Explorer 8.0</li> <li>• Embedded Chromium Browser (M010 and later)</li> </ul>	
Browser Support for PTC Creo 3.0 Help Center	PTC Creo Help supports Internet Explorer 9.0 and later, and Mozilla Firefox 10.0.1 and later. The Help Center opens in your default browser.	
Monitor	1280 x 1024 (or higher) resolution support with 24-bit or greater color	
Network	Microsoft TCP/IP Ethernet Network Adapter	
Mouse	Microsoft-approved 3-button mouse	
File systems	NTFS - Universal Naming Convention (UNC) <sup>2</sup>	
Misc.	DVD drive	
<b>NOTES</b>		
1. 32-bit operating systems can physically allocate only 3GB of RAM. RAM greater than 3GB (if installed) will remain un-utilized.		
2. PTC does not test any specific technologies which provide UNC support (Samba, DFS, WebDAV, NAS appliances, etc.)		

### Limitations of 32-bit Windows platforms

Due to inherent hardware memory limitations of 32-bit platforms, PTC will no longer offer technical support for “out of memory conditions” on 32-bit hardware for Creo 3.0. PTC recommends customers planning on upgrading to Creo 3.0 should consider moving to 64-bit hardware as 32-bit platforms will not allow you to experience the best Creo performance and may not be supported on future versions of Creo.

## 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 Creo 3.0, a PTC certified or supported hardware configuration is recommended. Graphics cards that support at least OpenGL 4.0 are recommended for Creo 3.0.

PTC recognizes that customers can benefit from using latest graphics driver and performance optimizations and improvements made by PTC's Graphics Hardware Partners. With new workstations being continuously certified by PTC, the most current graphics drivers used in the certification process can now be re-applied to previously certified configurations, as long as the configuration belongs to the same combination of workstation and graphics hardware families.

## Dual Monitor Support

Limited dual monitor support is provided in Creo 3.0. PTC has successfully performed limited testing of some graphics card models from AMD and NVIDIA that support dual monitor capabilities. If your graphics card is certified for Creo 3.0 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.

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

\*\*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 Creo 3.0.

## Certified and Supported Graphics Cards

PTC provides Customer Support for all certified and supported graphics cards. Graphics cards are part of a fully-certified or supported configuration (such as a workstation model, operating system, graphics card, graphics card driver).

PTC does not certify or support graphic cards independently from the configurations in which they are certified or supported. Refer to the official PTC [Platform Support](#) web page for specific hardware partners and available configurations.

Additional certified and supported workstation hardware information will be added to the PTC [Platform Support](#) web page as our hardware partners complete certifications in preparation for production Creo 3.0 shipment.

Workstation Vendor	Certified and Supported Graphics Cards		
	AMD (ATI)	NVIDIA	INTEL
<a href="#">Dell</a>	Yes	Yes	No
<a href="#">Cisco</a>	No	Yes	No
<a href="#">Fujitsu</a>	Yes	Yes	No
<a href="#">HP</a>	Yes	Yes	Yes
<a href="#">IBM</a>	No	Yes	No
<a href="#">Lenovo</a>	Yes	Yes	Yes
<a href="#">Microsoft</a>	No	No	Yes
<a href="#">MSI</a>	No	Yes	No
<a href="#">Toshiba</a>	No	Yes	No

## Desktop Virtualization Environment Support

PTC supports the following PTC Creo Applications to work in Virtualized Desktop Environments:-

- PTC Creo 3.0 Parametric
- PTC Creo 3.0 Direct
- PTC Creo 3.0 Layout
- PTC Creo 3.0 Simulate
- PTC Creo 3.0 Options Modeler

Refer to the official PTC [Platform Support](#) web page for specific hardware partners and available configurations.

## Supported Peripherals and Accessories

### 3D Controllers for Creo 3.0

Please refer to <http://www.3dconnexion.com/service/drivers.html> for specific driver information. Using the latest driver provided by 3DConnexion is fully supported by PTC.

Device	3DxSoftware version	Status
SpaceExplorer	3.16.1	<a href="#">Certified</a>
SpaceMouse Pro	3.16.1	<a href="#">Certified</a>
SpaceNavigator	3.16.1	<a href="#">Certified</a>
SpaceNavigator for Notebooks	3.16.1	<a href="#">Certified</a>
SpacePilot Pro	3.16.1	<a href="#">Certified</a>

### Plotters and Printers

Creo 3.0 supports HPGL, HPGL/2 and PostScript standard plotting formats. In addition, Creo 3.0 supports the Microsoft Print Manager.

#### Emulation

Various manufacturers produce printers and plotters that may be compatible with or emulate a device that use a format which is supported by PTC. Most devices are not specifically tested by PTC and therefore, may not produce correct plotted output. PTC Technical Support will attempt to provide support for any printer which is using a standard supported format, but only to the extent of verifying the output to a previously tested and readily available printer. Any support pertaining to 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.

### 3D Printers

To speed up the development of Additive Manufacturing functionality, PTC is partnering with Stratasys, a manufacturer for 3D printing equipment, to streamline 3D printing workflows by using direct interaction between PTC Creo and supported Stratasys 3D printers. Support for additional printers is planned.

PTC Creo 3.0 M040 and later supports 3D Printing.

<a href="#">Objet500 Connex3</a> Objet Studio 9.2.11.6581 prerequisite.	<a href="#">Certified</a>
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## Supported MCAD Systems

You can integrate several MCAD systems with Creo 3.0

Platforms	Creo Elements/Direct (all languages)	CATIA (English only)	Unigraphics (English only)
32-bit Windows 7, 8 and 8.1	18.1	n/a	NX7
64-bit Windows 7, 8 and 8.1	18.1	n/a	NX7

## Supported Finite Element Solvers

You can integrate several Finite Element Solvers with Creo 3.0 for use in FEM mode. The following table lists the supported Finite Element Solvers and platforms.

Platforms	NASTRAN	ANSYS
32-bit Windows 7, 8 and 8.1	2012	14.5
64-bit Windows 7, 8 and 8.1	2012	14.5

## Platform Support for Data Exchange

Processor	Format	Import / Export	Platform	
			Windows 32-bit	Windows 64-bit
<b>Image Formats</b>				
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
EPS	*.eps – Save a Copy of parts and assemblies, export parts and assemblies via Distributed Pro/BATCH	E	Yes	Yes
GIF	*.gif – import via Image Editor, used in style feature as trace sketch	I	Yes	Yes
HDR	*.hdr – import via Image Editor	I	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
PDF	*.pdf – Save a Copy of parts, assemblies and drawings, export parts and assemblies via Distributed Pro/BATCH	E	Yes	Yes
Picture	*.pic – Save a Copy of parts, assemblies and drawings	E	Yes	Yes
PNG	*.png – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes
PTC Bumpmap	*.tx1 – Edit via Image Editor	I/E	Yes	Yes
PTC Color Texture	*.tx4 – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes
PTC Decal	*.tx3 – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes
PTC Image	*.imf – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes
RGB	*.rgb – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes
RLA	*.rla - Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes
Session Texture	*.mem – Import via Image Editor	I	Yes	Yes
Shaded Image	*.shd – Edit via Image Editor, Save a Copy of parts and assemblies	I/E	Yes	Yes
SHIMA-SEIKI	*.pic – Edit via Image Editor, used in style feature as trace sketch	I/E	Yes	Yes
TGA	*.tga – Edit via Image Editor, used in style feature as trace sketch	I/E	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
<b>2D Formats</b>				
Adobe Illustrator	*.ai	I	Yes	Yes
CGM	*.cgm	I/E	Yes	Yes
DWG	*.dwg	I/E	Yes	Yes
DXF	*.dxf	I/E	Yes	Yes

IGES	*.igs	I/E	Yes	Yes
Medusa	s.* – Format generated by UNIX on export *.she – Format generated by Windows on export *.asc – (import)	I/E	Yes	Yes
PDF	*.pdf – Direct drawing export	E	Yes	Yes
Creo Elements/View & Creo View	*.ed (structure) & *.plt (drawing) *.edz (compressed structure and drawings) *.pvs (structure) & *.plt (drawing) *.pvz (packaged structure and drawings)	E	Yes	Yes
STEP	*.stp – (import/export) *.step – (import)	I/E	Yes	Yes
Stheno	*.tsh	I/E	Yes	Yes
<b>3D Formats</b>				
ACIS	*.acs	I/E	Yes	Yes
Autodesk Inventor	*.iam, *.ipt	I	Yes	Yes
CATIA V4	*.model – (import/export) *.exp, *.session – (import) Requires PTC Creo CATIA V4 Collaboration Extension license for export and update	I/E	Yes	No
CATIA V5	*.CATPart *.CATProduct *.cgr - Facet Only Requires PTC Creo CATIA V5 Collaboration Extension license for export and update	I/E	Yes	Yes
DWG	*.dwg – import with embedded ACIS, export facet geometry	I/E	Yes	Yes
DXF	*.dxf – import with embedded ACIS, export facet geometry	I/E	Yes	Yes
Granite	*.g	I/E	Yes	Yes
JT	*.jt Requires Interface for JT license	I/E	Yes	Yes
IBL	*.ibl	I	Yes	Yes
ICEM	*.icm	I	Yes	Yes
IGES	*.igs – (import/export) *.iges – (import)	I/E	Yes	Yes
Neutral	*.neu	I/E	Yes	Yes
Optegra visualize	*.gbf Facet Only	E	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
PDF	*.pdf – Direct model export	E	Yes	Yes
Points	*.pts	I	Yes	Yes
Creo Elements/View & Creo View	*.ed (structure) & *.ol (models) *.edz (compressed structure and models) *.pvs (structure) & *.ol (models) *.pvz (packaged structure and models)	I/E	Yes	Yes
Render	*.slp – Facet Only	E	Yes	Yes
Rhino	*.3dm	I	Yes	Yes
SolidEdge	*.par, *.asm.	I	Yes	Yes
SolidWorks	*.sldprt, *.sldasm.	I/E	Yes	Yes
STEP	*.stp – (import/export) *.step – (import)	I/E	Yes	Yes
STL	*.stl – Facet Only	I/E	Yes	Yes
U3D	*.u3d	E	Yes	Yes
Unigraphics	*.prt (UG format) Requires PTC Creo UG/NX Collaboration Extension license for export and update	I/E	Yes	Yes
VDA	*.vda	I/E	Yes	Yes
VRML	*.wrl – Facet Only	I/E	Yes	Yes
Wavefront	*.obj	I	Yes	Yes
<b>ECAD Formats</b>				
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
DAZIX	*.edn – Neutral file of the board outline and component placement. Dazix refers to this	I/E	Yes	Yes

	as a core file. *.edp – Profile file that contains component outlines. Dazix refers to this as a library file			
EDMD	*.idx	I/E	Yes	Yes
IDF	*.emn – (import/export) *.emp – library file (import)	I/E	Yes	Yes
Neutral	*.nwf	I/E	Yes	Yes
Creo Schematics	*.xml	I	Yes	Yes
Visula	*.evs	I/E	Yes	Yes

**NOTES**

Object Linking and Embedding (OLE) may provide additional format support but is dependent on operating system, installed software components, and third-party support for OLE.