

Hardware Notes - Creo 8.0

Creo Parametric

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| Platform Support | | |
|--|--|--|
| Partner | Operating System | Operating System levels |
| Microsoft | Windows 10 Pro 64-bit Edition ² Windows 10 Pro for Workstations 64-bit Edition ² Windows 10 Enterprise 64-bit Edition ² | Version 1909 Version 2004 Version 20H2 Version 21H1 Version 21H2 |
| | Windows 10 Enterprise LTSC 64-bit Edition ² | Version 1809 |
| | Windows Server 2019 ¹ | Base OS |
| | Windows Server 2016 ¹ | Base OS |
| NOTES | | |
| 1. Windows Server 2016 and 2019 are supported in Batch Mode only and are not supported on Creo Schematics. | | |
| 2. PTC has not tested and does not support the Resilient File System (ReFS) with Creo. | | |

| System Requirements | | |
|---|--|--------------------|
| | Operating System | Recommended amount |
| Main Memory (RAM) | Windows 10 64-bit | 4GB or higher |
| | Windows Server 2016, 2019 | 4GB or higher |
| Internal Browser Support | One of the following: <ul style="list-style-type: none"> • Microsoft Internet Explorer 11.0 • Embedded Chromium Browser | |
| Browser Support for PTC Creo 8.0 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 High DPI and Dual Monitors Supported | |
| Network | Microsoft TCP/IP Ethernet Network Adapter | |
| Mouse | Microsoft-approved 3-button mouse | |
| File systems | NTFS - Universal Naming Convention (UNC) ² | |
| Misc. | DVD drive | |
| CPU | For Generative Design, the following CPUs are recommended: <ul style="list-style-type: none"> • Intel – Haswell and newer microarchitecture (mid-2013 and newer) • AMD – Piledriver and newer microarchitecture (mid-2012 and newer) | |
| NOTES | | |
| 1. Creo Simulation Live requires a dedicated NVIDIA CUDA-based GPU with a minimum of 4GB of video RAM and latest NVIDIA drivers | | |
| 2. PTC does not test any specific technologies which provide UNC support (Samba, DFS, WebDAV, NAS appliances, etc.) | | |
| 3. Render Studio supports GPU processing, but requires a NVIDIA RTX CUDA-based card with a minimum of 4GB of video RAM and the latest NVIDIA Driver | | |

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 8.0, a PTC certified or supported hardware configuration is recommended. Graphics cards that support at least OpenGL 4.0 are recommended for Creo 8.0.

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.

Certified and Supported Graphics Cards (GPUs)

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 8.0 shipment.

Creo Simulation Live, Creo Generative Topology Optimization and Creo Render Studio have additional graphics card and related memory requirements. Please check your hardware compatibility for these applications using the PTCHardwareCheck tool available for download at [PTC.COM](#).

| Workstation Vendor | Certified and Supported Graphics Cards | | |
|------------------------|--|--------|-------|
| | AMD (ATI) | NVIDIA | INTEL |
| Acer | No | Yes | No |
| Asus | No | Yes | No |
| Dell | Yes | Yes | No |
| HP | Yes | Yes | Yes |
| Lenovo | Yes | Yes | Yes |

Supported Peripherals and Accessories

| 3D Controllers for Creo 8.0 | | |
|--|---------------------|---------------------------|
| 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 |
| SpaceMouse® Enterprise | 10.4.9 or later | Certified |
| SpacePilot® Pro | 10.4.9 or later | Certified |
| SpaceMouse® Pro Wireless | 10.4.9 or later | Certified |
| SpaceMouse® Pro | 10.4.9 or later | Certified |
| SpaceMouse® Wireless | 10.4.9 or later | Certified |
| SpaceNavigator® for Notebooks | 10.4.9 or later | Certified |
| SpaceNavigator® | 10.4.9 or later | Certified |
| CadMouse | 10.4.9 or later | Certified |
| Plotters and Printers | | |
| Creo 8.0 supports HPGL, HPGL/2 and PostScript standard plotting formats. In addition, Creo 8.0 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. | | |

Supported MCAD Systems

You can integrate several MCAD systems with Creo 8.0

| Platforms | Creo Elements/Direct (all languages) | CATIA (English only) | Unigraphics (English only) |
|---------------------|--------------------------------------|----------------------|----------------------------|
| 64-bit Windows 10.0 | 18.1 | n/a | NX7 |

Supported Finite Element Solvers

You can integrate several Finite Element Solvers with Creo 8.0 for use in FEM mode. The following table lists the supported Finite Element Solvers and platforms.

| Platforms | NASTRAN | ANSYS |
|---------------------|---------|-------|
| 64-bit Windows 10.0 | 2012 | 18.0 |

Platform Support for Data Exchange

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

| 2D Formats | | | |
|-------------------|---|-----|-----|
| Adobe Illustrator | *.ai | I | Yes |
| CGM | *.cgm | I/E | Yes |
| DWG | *.dwg | I/E | Yes |
| DXF | *.dxf | I/E | Yes |
| IGES | *.igs | I/E | Yes |
| Medusa | s.* – Format generated by UNIX on export *.she – Format generated by Windows on export *.asc – (import) | I/E | Yes |
| PDF | *.pdf – Direct drawing export | E | Yes |
| Creo View | *.ed (structure) & *.plt (drawing) *.edz (compressed structure and drawings) *.pvs (structure) & *.plt (drawing) *.pvz (packaged structure and drawings) | E | Yes |
| STEP | *.stp – (import/export) *.step – (import) | I/E | Yes |
| Stheno | *.tsh | I/E | Yes |
| 3D Formats | | | |
| ACIS | *.acs | I/E | Yes |
| Autodesk Inventor | *.iam, *.ipt | I | Yes |
| CATIA V4 | *.model – (import/export) *.exp, *.session – (import) Requires PTC Creo CATIA V4 Collaboration Extension license for export and update | I/E | No |
| CATIA V5 | *.CATPart *.CATProduct *.cgr - Facet Only Requires PTC Creo CATIA V5 Collaboration Extension license for export and update | I/E | Yes |
| DWG | *.dwg – import with embedded ACIS, export facet geometry | I/E | Yes |
| DXF | *.dxf – import with embedded ACIS, export facet geometry | I/E | Yes |
| Granite | *.g | I/E | Yes |
| JT | *.jt Requires Interface for JT license | I/E | Yes |
| IBL | *.ibl | I | Yes |
| ICEM | *.icm | I | Yes |
| IGES | *.igs – (import/export) *.iges – (import) | I/E | Yes |
| Neutral | *.neu | I/E | Yes |
| Optegra visualize | *.gbf Facet Only | E | Yes |
| Parasolid 3D | *.xmt, *.xmt_txt, *.x_t, *.xmt_neu, *.x_n *.xmt_bin, *.x_b – (import) *.x_t – (export) | I/E | Yes |
| PDF | *.pdf – Direct model export | E | Yes |
| Points | *.pts | I | Yes |
| Creo View | *.ed (structure) & *.ol (models) *.edz (compressed structure and models) *.pvs (structure) & *.ol (models) *.pvz (packaged structure and models) | I/E | Yes |
| Render | *.slp – Facet Only | E | Yes |
| Rhino | *.3dm | I | Yes |
| SolidEdge | *.par, *.asm. | I | Yes |
| SolidWorks | *.sldprt, *.sldasm. | I/E | Yes |
| STEP | *.stp – (import/export) *.step – (import) | I/E | Yes |
| STL | *.stl – Facet Only | I/E | Yes |
| U3D | *.u3d | E | Yes |
| Unigraphics | *.prt (UG format) Requires PTC Creo UG/NX Collaboration Extension license for export and update | I/E | Yes |
| VDA | *.vda | I/E | Yes |
| VRML | *.wrl – Facet Only | I/E | Yes |

| | | | |
|--|--|-----|-----|
| Wavefront | *.obj | I | 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 |
| 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 |
| EDMD | *.idx | I/E | Yes |
| IDF | *.emn – (import/export) *.emp – library file (import) | I/E | Yes |
| Neutral | *.nwf | I/E | Yes |
| Creo Schematics | *.xml | I | Yes |
| Visula | *.evs | I/E | 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. | | | |