



Visual Enterprise Generator Supported File Formats (current at 16 December 2011 for version 7.0)

These lists are organized alphabetically by the file format.

Formats supported by Visual Enterprise Generator

CAD File Formats

File Format	Type	Extension	Import	Export	Module	Version/Notes
CATIA4	3D Part	DLV, MODEL, SESSION, EXP	Yes		CATIA	Up to 4.24
CATIA5	3D Assembly	CATPART, CATPRODUCT, CATSHAPE	Yes		CATIA	R7- R20 SP5
CATIA5	3D Assembly	CGR	Yes		CATIA	R10 to R20 SP5.
IGES Files	3D Part Assembly/2D	IGES, IGS	Yes		CoreCAD	Up to Version 5.2.
Inventor Assembly	3D Assembly	IAM	Yes		CoreCAD	Two reading methods: 1. "Import Inventor Solid": V10 to V2011 2. "Quick view": up to 2011 (requires free Inventor 2011 viewer installed on machine).
Inventor Part	3D Part	IPT	Yes		CoreCAD	Two reading methods: 1. "Import Inventor Solid": V10 to V2011 2. "Quick view": up to 2011 (requires free Inventor 2011 viewer installed on machine).
MicroStation CAD Graphic	3D /2D	DGN	Yes		CoreCAD	Versions 95, SE, J, 7, and 8, v8i
Parasolid CAD File	3D Part	X_B, X_T, XMT, XMT_TXT	Yes		CoreCAD	Up to version 22.
SolidEdge 3D CAD Model Assembly	3D Assembly	ASM	Yes		CoreCAD	Versions 10 - 20. ST1, ST2, ST3
SolidEdge 3D CAD Model Part	3D Part	PAR	Yes		CoreCAD	Versions 10 - 20. ST1, ST2, ST3
SolidWorks Files	3D Assembly (SLDASM) 3D Part (SLDPRT)	SLDASM, SLDLFP, SLDPRT	Yes		CoreCAD	Two reading methods: 1. "Import Solidworks solid": 2000 to 2011. 2. "Quick view": Versions 97-2011.
Standard ACIS Text File	3D Part	SAT	Yes		CoreCAD	Release 16 and earlier.
STEP Files	3D Assembly/Part	STEP, STP	Yes	*Yes	CoreCAD	AP203 E2 and AP214. *Only saves solids/surfaces .
JT File	3D Assembly/Part	JT	Yes	*Yes	JTPMI	Versions 9.3 and earlier. Supports PMI data through JTPMI.
Pro/ENGINEER Assembly	3D Assembly	ASM, XAS	Yes		Pro/E ProExplorer	2001 to Wildfire 5.
Pro/ENGINEER Neutral Part File	3D Assembly/Part	NEU	Yes		Pro/E ProExplorer	Versions 14 - Wildfire 5.
Pro/ENGINEER Part	3D Part	PRT, XPR	Yes		Pro/E ProExplorer	2001 to Wildfire 5.
NX Parts and Assemblies	3D Part	PRT	Yes		Unigraphics	Unigraphics 2009 Reader: 15 to NX7.5

2D CAD Drawing File Formats

File Format	Type	Extension	Import	Export	Module	Version/Notes
CATIA4 and 5 Drawings	2D CAD Drawing	CATDRAWING, MODEL	Yes		CATIA	R10 to R20 SP5
Pro/ENGINEER Drawing	2D CAD Drawing	DRW	Yes		Pro/E	2001 to Wildfire 5
SolidWorks Files	2D CAD Drawing	SLDDRW	Yes		CoreCAD	Versions 97-2011.
Unigraphics Drawing	2D CAD Drawing	PRT	Yes		NX	NX to NX7.5



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2D File Formats

File Format	Type	Extension	Import	Export	Module	Version/Notes
Adobe Encapsulated PostScript	2D Vector (Drawing)	EPS	Yes	Yes*		Version 15 and above files require Adobe Illustrator installed on machine. *Export via Vector Illustration. Standard 2D. No export options.
Adobe Illustrator Vector Graphic	2D Vector (Drawing)	AI	Yes	Yes*		Version 15 and above files require Adobe Illustrator installed on machine. *Export via Vector Illustration
Adobe Photoshop Document	2D Raster (Image)	PSD	Yes			
Autodesk Animator Graphic	2D Raster (Image)	CEL	Yes			
Digital Imaging and Communications in Medicine Image	2D Raster (Image)	DCM	Yes	Yes		Medical MRI file format.
DirectX DirectDraw Surface	2D Raster (Image)	DDS	Yes			
EA/Amiga Interchange File Format	2D Raster (Image)	IFF	Yes			
Enhanced Metafile	2D Vector (Drawing)	EMF	Yes			
Flexible Precision Buffer Map	2D Raster (Image)	FLX	Yes			
FLIC Animator Animation (flc)	2D Raster (Image)	FLC	Yes			
FLIC Animator Animation (fli)	2D Raster (Image)	FLI	Yes			
Graphics Interchange Format	2D Raster (Image)	GIF	Yes			
JPEG 2000 J2K	2D Raster (Image)	J2K	Yes			
JPEG 2000 JP2	2D Raster (Image)	JP2	Yes	Yes		
JPEG 2000 JPC	2D Raster (Image)	JPC	Yes	Yes		
JPEG Image	2D Raster (Image)	JPX	Yes			
JPEG 2000 JPX	2D Raster (Image)	JPEG, JPG,	Yes	Yes		
JEDMICS C4 Compressed Image	2D Vector (Drawing)	C4	Yes			
Maya Interchange File Format	2D Raster (Image)	IFF	Yes	Yes*		* Requires Maya to be installed.
OpenEXR Bitmap	2D Raster (Image)	EXR	Yes	Yes		
Portable Network Graphics	2D Raster (Image)	PNG	Yes	Yes		
Portable Pixelmap Graphic	2D Raster (Image)	PPM	Yes	Yes		
Publisher's Paintbrush Bitmap Graphic	2D Raster (Image)	PCX	Yes			
Radiance Picture	2D Raster (Image)	HDR	Yes			
Scalable Vector Graphic	2D Vector (Drawing)	SVG	Yes	Yes*		*Export via Vector Illustration
Silicon Graphics Image	2D Raster (Image)	RGB, RGBA, INT, INTA	Yes			
SOFTIMAGE Picture	2D Raster (Image)	PIC	Yes			
Tagged Image File Format	2D Raster (Image)	TIF, TIFF	Yes	Yes*		With multipage support.
TGA File	2D Raster (Image)	TGA	Yes	Yes		
Windows Bitmap Graphic	2D Raster (Image)	BMP, DIB	Yes	Yes		No export options
Windows Cursor File	2D Raster (Image)	CUR	Yes			
Windows Icon File	2D Raster (Image)	ICO	Yes			
Windows Metafile	2D Vector (Drawing)	WMF	Yes			
Windows Run Length Encoded Bitmap	2D Raster (Image)	RLE	Yes			



Formats supported by Visual Enterprise Generator

3D File Formats

File Format	Type	Extension	Import	Export	Module	Version/Notes
AutoCAD Design Web Format	3D /2D	DWF	Yes	Yes		Versions 7.3 and earlier, 2007-2010.
AutoCAD Drawing Interchange	3D /2D	DXF	Yes	Yes		Versions 12, 13, 14, 2000-2010. *Export is also via Vector Illustration.
AutoCAD Drawing Object	3D /2D	DWG	Yes	Yes		Versions 12, 13, 14, 2000-2010 (including Autodesk Architectural Desktop support).
AutoCAD Sheet Set File	3D /2D	DST	Yes			Versions 7 and earlier.
Autodesk 3D Studio	3D Scene	3DS	Yes	Yes		
Autodesk 3D Studio ASCII	3D Scene	ASC	Yes	Yes		
Autodesk 3D Studio Max ASCII	3D Scene	ASE	Yes			
Autodesk 3D Studio Project	3D Scene	PRJ	Yes			
AOFF File Format	3D Scene	GEO	Yes	Yes		
Caligari trueSpace Object	3D Scene	COB	Yes	Yes		
Caligari trueSpace Scene	3D Scene	SCN	Yes			
CINEMA 4D	3D Scene	C4D	Yes	Yes		Up to version 11.5
Collada	3D Scene	DAE	Yes	Yes		No export options.
Computer Graphics Metafile	2D Vector (Drawing)	CGM	Yes	Yes*		*Export: Version 3.0. Export via Vector Illustration. Supported by Illustration (ASCII and Binary).
DirectX Model	3D Scene	X	Yes	Yes		
FILMBOX	3D Scene	FBX	Yes	Yes		No export options.
Gerber File	3D Scene	GBR, GBP, GPT, GTL, GTO, GTS, GKO, GBL, GBP	Yes			All versions supported.
Hewlett-Packard Graphics Library	2D Vector (Drawing)	PLT, HPGL	Yes			HPGL1 and HPGL2
Imagine Geometry	3D Scene	IOB	Yes			
ISO G Code	3D Scene	ISO, NC	Yes			
LightWave 3D and Binary Object	3D Scene	LWO, LW	Yes*	Yes**		*Import: LightWave 5.6, 6.0, 7.0, 7.5., 9.0 **Export: version 6.0 (which is compatible with Lightwave 9.x).
LightWave Scene	3D Scene	LWS	Yes	Yes		
Max File	3D Scene	MAX	Yes	Yes		Versions 2009-2012. Requires 3ds Max and the DCOM plugin to be installed.
Maya ASCII Scene	3D Scene	MA	Yes	Yes		Versions 2009-2012 Requires Maya to be installed.
Maya Binary Scene	3D Scene	MB	Yes	Yes		Versions 2009-2012. Requires Maya to be installed.
Object File Format Vector Graphics	3D Scene	OFF	Yes	Yes		
Open Inventor File	3D Scene	IV	Yes	Yes		
OpenFlight Scene Description Database	3D Scene	FLT	Yes*	Yes		Version 13.0. *Import: Multigen API DLLs not required.
Points File	3D Scene	PTS	Yes			
Polygon Model Format	3D Scene	PLY	Yes			
Portable Graymap Graphics File	3D Scene	PGM	Yes			16-bit
POV-Ray RAW Triangle Format	3D Scene	RAW	Yes	Yes		
Power Render Object	3D Scene	PRO	Yes			Version 2.5.
Protein Data Bank	3D Scene	PDB	Yes			Version 2.5. Medical file format.
Rhinoceros 3D Model	3D Scene	3DM	Yes	Yes		Versions 1.0, 2.0, 3.0, 4.0. No Chem3D 3DM support.
Right Hemisphere Binary	3D Scene	RH	Yes	Yes*		*Export: Versions 3.5 and 4.0.



Formats supported by Visual Enterprise Generator

3D File Formats (continued)

File Format	Type	Extension	Import	Export	Module	Version/Notes
Silo3D	3D Scene	SIA	Yes	Yes		Version 1.0 only. No export options.
Google SketchUp Document	3D Scene	SKP	Yes	Yes		Version 5.0.295, 6.0, 7.0
SOFTIMAGE XSI	3D Scene	XSI	Yes*	Yes**		*Import: Versions 1.0, 3.0, 3.5. **Export: Versions 3.0 and 3.5.
Stereolithography File	Scene	STL	Yes	Yes		
Universal 3D	3D Scene	U3D	Yes	Yes		
Visual Design Stream	3D Scene	VDS	Yes	Yes		
Visual XML	3D Scene	RHZ		Yes		
Visual XML	3D Scene	VZXML, VMXML	Yes			
VRML Worlds	3D Scene	WRL, VRML	Yes*	Yes**		*Import: Versions 1.0 and 2.0 ASCII only. **Export: Version 2.0
Wavefront Object	3D Scene	OBJ	Yes	Yes		
XAML	3D Scene	XAML		Yes		

Document File Formats

File Format	Type	Extension	Import	Export	Module	Version/Notes
Adobe Portable Document 3D	Image/Scene	PDF		Yes*		Versions 8.0 and above. Creates a PDF document with 3D content. *Requires PDF Publishing to be installed.
Flex Web Application	Image/Scene	HTML		Yes		Must be viewed with SAP Visual Enterprise Viewer.
HTML Document with 3D		HTML		Yes		Must be viewed with SAP Visual Enterprise Viewer.
Office Powerpoint Document	Image/Scene	PPT		Yes		
Web Archived HTML Document	Image/Scene	MHT		Yes		Must be viewed with SAP Visual Enterprise Viewer

Audio File Formats

File Format	Type	Extension	Import	Export	Module	Version/Notes
Audio Interchange Format	Audio	AIF, AIFF	Yes			Play only.
MPEG Audio Files	Audio	MPA, MP2, MP3	Yes			Play only.
Musical Instrument Digital Interface	Audio	MID, MIDI	Yes			Play only.
RIFF MIDI File	Audio	RMI	Yes			Play only.
Sound Format	Audio	SND	Yes			Play only.
Sun/NeXT/DEC Audio	Audio	AU	Yes			Play only.
Waveform Audio	Audio	WAV	Yes			Play only.

Video File Formats

File Format	Type	Extension	Import	Export	Module	Version/Notes
Advanced Streaming Format	Video	ASF	Yes			
Audio Video Interleave Animation	Video	AVI	Yes	Yes		
Moving Pictures Expert Group Video	Video	M1V, MPEG, MPG	Yes			
Moving Pictures Expert Group Video	Video	MP4		Yes		



Formats supported by Visual Enterprise Generator

Miscellaneous File Formats

File Format	Type	Extension	Import	Export	Module	Version/Notes
Text File	Text	TXT	Yes			
WinRAR Compressed Archive	Archive	RAR	Yes			
ZIP Archive	Archive	ZIP	Yes			

Material File Formats

File Format	Type	Extension	Import	Export	Module	Version/Notes
Autodesk 3D Studio Material	Material	MLI	Yes			
Right Hemisphere Material	Material	RHM	Yes	Yes		
Wavefront Material	Material	MTL	Yes			