

Many developers of HOOPS-based applications desire to read and/or write certain 3D, 2D and image formats within their applications. To assist developers with this task, HOOPS includes integrations which greatly simplify the adding of format support. In some cases these format modules are included with your license of HOOPS, in others they require the licensing of add-on modules from Tech Soft 3D, while in others we provide the integration code, but developers need to use particular 3rd party libraries. For some formats, we've integrated with multiple SDK's, giving developers options regarding how to gain access to specific formats. The table below lists the formats that are available through these HOOPS integrations and provides additional information on components needed, etc. If you have any questions please contact us at info@techsoft3d.com or supported customers may contact support@techsoft3d.com.

TOOLKIT	FORMATS	READ/WRITE	NOTES
HOOPS Advanced License	DGN	Read	via HSF plug-in for Microstation
	HSF	Read/Write	Native HOOPS binary format
	HMF	Read/Write	Native HOOPS ASCII format
	HTML	Write	Also embeds HOOPS Stream Control
	3D Studio	Read	via HSF export plug-in for 3D Studio Max
	DWF	Write	Requires freeDWF SDK from www.autodesk.com . Read available upon request.
	PDF	Write	2D included, 3D PDF (U3D form) Requires free U3D SDK from sourceforge.net
	U3D	Read/Write	Requires free U3D Toolkit, available from Sourceforge.net
	OBJ	Read/Write	
	STL	Read/Write	
	VRML	Read	
	PLY	Read	
	IV	Read	
	Postscript	Write	2D Hardcopy Format
	CGM/CGM3	Write	2D Hardcopy Format
	HPGL/HPGL2	Write	2D Hardcopy Format
	EMF/WMF	Write	2D Hardcopy Format
	JPEG	Read/Write	Image Format
	BMP	Read/Write	Image Format
	PNG	Read/Write	Image Format
	GIF	Read/Write	Image Format
	TIFF	Read/Write	Image Format
	<i>And many, many other less common image formats...</i>		

Adobe 3D OEM Platform <i>All formats integrated with HOOPS</i>	3D PDF	Read/Write	BREP, Visualization, Assembly & Hierarchy
	3D XML	Read	BREP, Visualization, Assembly & Hierarchy
	CADDS	Read	BREP, Visualization, Assembly & Hierarchy
	CATIA v4	Read	BREP, Visualization, Assembly & Hierarchy
	CATIA v5	Read	BREP, Visualization, Assembly & Hierarchy
	I-DEAS	Read	BREP, Visualization, Assembly & Hierarchy
	IGES	Read	BREP, Visualization, Assembly & Hierarchy
	JT	Read	BREP, Visualization, Assembly & Hierarchy
	Lattice XLV	Read	BREP, Visualization, Assembly & Hierarchy
	OneSpace	Read	BREP, Visualization, Assembly & Hierarchy
	Paraoslid XT	Read	BREP, Visualization, Assembly & Hierarchy
	PRC	Read/Write	BREP, Visualization, Assembly & Hierarchy
	Pro/Engineer	Read	BREP, Visualization, Assembly & Hierarchy
	UG NX	Read	BREP, Visualization, Assembly & Hierarchy
	Solid Edge	Read	BREP, Visualization, Assembly & Hierarchy
	SolidWorks	Read	BREP, Visualization, Assembly & Hierarchy
	STEP	Read	BREP, Visualization, Assembly & Hierarchy
	CGR	Read	Catia visualization format
	KMZ	Read	visualiation format
	STL	Read	visualiation format
	U3D	Read	visualiation format
	VRML	Read	visualiation format
	ACIS SAT	Read	visualiation information only
	3D Studio	Read	visualization format
	Inventor	Read	visualization information only
	COLLADA	Read	DAE visualization
	IFC	Read	2x3 and 2x2
OBJ	Read	visualization formats	

3D InterOp <i>All formats integrated with HOOPS</i>	CATIA v5	Read/Write	Native Libraries, PMI add-on module available.
	CATIA v4	Read/Write	
	CGR	Read	CATIA visualization format
	Pro/Engineer	Read	PMI add-on module available
	UG NX	Read	Also Requires a License to Parasolid Communicator. PMI add-on available
	SolidWORKs	Read	Also Requires a License to Parasolid Communicator
	Inventor	Read	
	XT	Read/Write	Also Requires a License to Parasolid Communicator
	SAT	Read/Write	Also Requires a License to ACIS Exchange
	STEP	Read/Write	
	IGES	Read/Write	
	VDA-FS	Read/Write	

The following toolkits are also fully integrated with HOOPS and give access to a variety of file formats.

Parasolid	XT, XB	Read/Write	Native Parasolid Geometry Format, available from Tech Soft 3D.
ACIS	SAT/SAB	Read	HOOPS integration maintained by, and available from, Spatial
RealDWG Toolkit	DWG / DXF	Read	SDK available from Tech Soft 3D. Write available, but not pre-integrated
JT Open Toolkit	JT	Read	Requires membership in JT Open Program www.jtopen.com
DGN Direct	DGN	Read	Requires License from Open Design Alliance www.opendwg.org
Adobe PDF Library SDK	PDF	Read/Write	Native PDF generation. No 3D included.