

SpaceClaim 2017.2 and SCDM (R18.2) Supported Import & Export Operations

Operation	File type (EXTENSION)	Supported versions	Supported actions	Engineer	DXF	DXB	Canvas V5	IT Open	PDF	SCDM ¹
Import	ACIS (SAT, SAB, ASAT, ASAB)	Up to R27 (2017.1.0)	Open and insert parts and assemblies	✓						✓
	Acrobat (PDF)	Geometry(PRC B-Rep, Facets)	Open and insert parts and assemblies ^{1,16,24}	✓					✓	
	AMF	V1.0 (Facets)	Open and insert parts and assemblies	✓						✓
	ANSYS Electronics Database (DEF)		Open and insert parts and assemblies	✓						✓
	AutoCAD (DWG, DXF)	R12 to 14, 2000, 2004, 2007, 2010, 2013, 2016	Open and insert modelspace entities ¹⁶ and layout space entities (including Solids) ¹⁶	✓						✓
	Cadence SPB (BRD, MCM, SIP)		Open and insert parts and assemblies ²⁸	✓						✓
	CATIA (MODEL, EXP, CATPart, CATProduct, CGR)	V4 4.1-9 to 4.2.4	Open and insert parts and assemblies		✓					
	CATIA V5 (3DXML)	V5 R8 to R25, V5-6R2017	Open and insert parts and assemblies ^{17,18,22,23}				✓			
	CATIA V5 (3DXML)	R2010x - R2016 ²²	Open and insert parts and assemblies							✓
	Creo Elements/Direct Modeling (CoCreate) (PKG)	18.1 & 19 ²⁰ Creo 4.0	Open and insert parts and assemblies							✓
	DesignModeler (AGDB)	Up to 16	Open and insert parts and assemblies ^{1,27}							✓
	ECAD (IDF, IDB, EMN)	IDF 3.0 and IDF 4.0	Open IDF and PADS files	✓						✓
	ECAD - Other									
	IGES (IGS, IGES)	Up to v5.3	Open and insert parts and assemblies ¹⁹	✓						✓
	Inventor (IPT, IAM)	Version 6 to Version 10	Open and insert parts and assemblies		✓					✓
	JT Open (JT)	Versions 11 to 2017	Open and insert parts and assemblies		✓					✓
	JT Open (JT)	Version 6 to Version 10	Open and insert parts and assemblies		✓					✓
	NX (PART)	Version 11 to 2017	Open and insert parts and assemblies ^{1,20,21,25}		✓					✓
	OpenVDR	Version 6 to Version 10	Open and insert parts and assemblies		✓					✓
	Parasolid (X, T, X, B, XMT, TXT, XMT, BIN)	V10.0 to V29	Open and insert parts and assemblies			✓				✓
	PLY (PLY)	V1.0	Open and insert parts	✓						✓
	Creo Parametric (PRT, ASM, XPR, XAS)	Pro/E 16 to Wildfire 5 (Creo 1.0 to Creo 4.0)	Open and insert parts and assemblies ^{1,21}		✓					✓
	QIF (QIF)	V2.0	Open and insert parts and assemblies ²²	✓						✓
	Rhino (SDM)	V4.0, V5.0 ²³	Open and insert parts and assemblies	✓						✓
	R3 Components	V2015.0 SP0 ²⁷	Open and insert parts and assemblies	✓						✓
	SketchUp	Up to SketchUp 8, V2013, V2014, V2015	Open and insert parts and assemblies	✓						✓
	SolidEdge (PAR, PDM, ASM)	V18.0 - S178	Open and insert parts and assemblies	✓		✓				✓
	SOLIDWORKS (SLDPRT, SLDDASM)	SW 98 to SW 2017	Open and insert parts and assemblies	✓		✓				✓
	STEP (STEP, STEP)	AP203, AP214, AP242 (geometry)	Open and insert parts and assemblies ^{1,21}	✓						✓
	STL	Facets or solids	Open and insert parts and assemblies	✓						✓
	VDA-FS (VDA)	1.0 & 2.0	Open and insert parts	✓	✓					✓
	Wavefront (OBJ)	Facets	Open and insert parts and assemblies	✓						✓
	VRML (WRL)	Facets	Open and insert parts and assemblies	✓						✓
	Image (BMP, JPG, PCX, PNG, TIF, GIF)		Insert images	✓						✓
	Video (wmv, avi, flv, h264, mov, mp4, mpg, mpeg, ogg, web)		Insert video ¹¹	✓						✓
	ACIS (SAT, SAB)	V6, 7, 15-27 (V27 default)	Export parts and assemblies ⁴	✓						✓
	Acrobat (PDF 3D)	Facets	Export parts and assemblies ²	✓						✓
	Acrobat (PDF 3D)	Geometry(PRC B-Rep, Facets)	Export parts and assemblies ^{2, 21}	✓					✓	
	Acrobat (PDF 2D)	Facets	Print to or save drawings	✓						✓
	AMF	V1.0	Export parts and assemblies	✓						✓
	ANF		Export parts and assemblies	✓						✓
	AutoCAD (DWG, DXF)	R12 to 14, 2000, 2004, 2007, 2010, 2013	Export as 2D snapshot and AutoCAD Solids ¹⁶	✓						✓
	CATIA V5/V6 (CATPart, CATProduct)	R15 to V5-6R2016 (R25 default)	Export parts and assemblies ^{17,22,23}	✓			✓			✓
	EXCEL (XLS, XLSX) ²⁵	MS Office 2003, 2007, 2013	Export parts and assemblies	✓						✓
	Fluent Mesh (MESH, TIG)	V18.0 - S178	Export parts and assemblies	✓						✓
IGES (IGS, IGES)	V5.3, JAMA-15, Types: 186,144,143	Export parts and assemblies	✓						✓	
JT Open (JT)	V6.4, 7.0, 8.0, 8.1, 8.2, 9.0 to 10.0	Export parts and assemblies ^{1,20,21,25}	✓					✓	✓	
KeyShot (BPP)		Export parts and assemblies	✓						✓	
OpenVDR		Export parts and assemblies	✓						✓	
Parasolid (X, T, X, B)	V12 to V29 (V27 default)	Export parts and assemblies	✓		✓				✓	
PLY (PLY)	V1.0	Export and insert parts	✓						✓	
POV-Ray	3.6	Export parts and assemblies ¹⁷	✓						✓	
PowerPoint (PPT)	MS Office 2003, 2007, 2013	Export 3D markup slides ¹⁸	✓						✓	
QIF (QIF)	V2.0	Export parts and assemblies ²²	✓						✓	
Rhino (SDM)	V4.0, V5.0 ²³	Export parts and assemblies	✓						✓	
SketchUp	SketchUp V3.0 to V8.0, V2013, V2014, V2015	Export parts and assemblies	✓						✓	
STEP (STEP, STEP)	AP203, AP214, AP242 (geometry)	Export parts and assemblies	✓						✓	
STL		Export parts and assemblies ¹⁹	✓						✓	
VDA-FS (VDA)	2.0	Export parts	✓	✓					✓	
VRML (WRL)		Triangles ²⁰	✓						✓	
Wavefront (OBJ)		Triangles ²⁰	✓						✓	
XAML		Export part and assembly solids only	✓						✓	
XPS		Export 3D markup slides	✓						✓	
Image (GIF, JPG, PNG, BMP, TIF)		Export as 2D snapshot	✓						✓	

¹Supported on Windows 7 64-bit OS, Windows 8 & 64-bit OS, Windows 10 64-bit OS

Notes:

- ¹SpaceClaim Home Edition is issued free of charge with SpaceClaim Engineer and is watermarked with "Restricted License: Home Use Only"
- ²No Adobe Acrobat required for BREP import and export. 32-bit and 64-bit platforms supported. Adobe Acrobat X Pro is not supported
- ³ACIS files can be imported using the standard system, import queue entries can be imported using the "Import" option. Sketch curves and faces can be imported into Design. 3D entities can be imported to Drawing Frames. Polyfile meshes can be imported
- ⁴Assemblies are flattened
- ⁵Including Product Manufacturing Information (PMI) placed on the imported Annotation Plane
- ⁶Wildfire 5 (Creo 1.0, 2.0) PMI is not supported
- ⁷Import and Export of Free parts supported
- ⁸Semantic and PolyView PMI is supported
- ⁹Face-based PMI
- ¹⁰If Open V5.4 and V7.0 imported and exported as faceted data
- ¹¹Appropriate video codec required for all but WMV and AVI
- ¹²CATIA V6 process part and product data must be exported as V5CATPart and CATProduct to be read into SpaceClaim
- ¹³If MS Office is installed
- ¹⁴STL export can be performed directly from the website (visualization only) SpaceClaim document
- ¹⁵3D PDF via a PRC neutral file along with Semantic PMI (if PMI data is present)
- ¹⁶Import of IGES curves and curve colors is supported
- ¹⁷Export of mesh objects is supported
- ¹⁸Solids in IGES v7 format
- ¹⁹IGES imports Facets as mesh objects. SpaceClaim recommends editting meshes on a 64bit OS
- ²⁰The SpaceClaim plug-in for Rhino is only supported for Rhino v5.0
- ²¹Export as hybrid design is supported
- ²²Slides can only be imported for the first 30 days after SC activation. After 30 days, a limit of 100 individual file imports is enforced.
- ²³SCDM is a separate product, which can be purchased from Ansys
- ²⁴SCDM optional modules JT Open, 3D PDF and Catia V5/V6 are available
- ²⁵Table Export: Web page (html, xml), Excel Document (xml), CSV file (csv)
- ²⁶Creo Elements/CoCreate software must be installed locally to open this file type
- ²⁷DesignModeler software must be installed locally to open this file type
- ²⁸Cadence Translators require an installation of Cadence SPB to be locally available
- ²⁹Not import and export is supported
- ³⁰Body and face colors
- ³¹Pro/E semantic PMI import is supported. For Pro/E Wildfire 3.0 and above, PMI display information import is partially supported.
- ³²Origin import and export supported
- ³³PMI import is supported
- ³⁴Teamcenter is not available in SCDM

SpaceClaim meets the USAF and DOD certification requirements for verified open source content in software: OpenSSL, MySQL, and Xerces