

SpaceClaim 2017 and SCDM (R18) Supported Import & Export Operations

Operation	File type (EXTENSION)	Supported versions	Supported actions	Engineer*	DX I	DX II	Catia VS	JT Open	PDF	SCDM
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 ^{1,13,14}						✓	
	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 ¹⁵ and layout space entities (including Solids) ¹⁶	✓						✓
	Cadence SPB (BRD, MCM, SIP)		Open and insert parts and assemblies ¹⁷	✓						✓
	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, V5-6R2016 R2010n - R2016e ¹⁸	Open and insert parts and assemblies ^{19,20,21,22}				✓			
	Creo Elements/Direct Modeling (CoCreate) (PKG)	18.1 & 19 ²³ Creo 3.0	Open and insert parts and assemblies							✓
	Design Modeler (AGDR)	Up to 16	Open and insert parts and assemblies ^{14,27}							✓
	ECAD (IDF, IDB, EMN)	IDF 3.0 and IDF 4.0	Open IDF and PADS files	✓						✓
	ECAD - Other									✓
	ODB++ (TGZ)		Open and insert parts and assemblies	✓						✓
	ODB (BIF)		Open and insert parts and assemblies	✓						✓
	IPC2581 (XML, CVG)		Open and insert parts and assemblies	✓						✓
	GDSII (GDS, SF, STRM)		Open and insert parts and assemblies	✓						✓
	Fluent Mesh (MESH, TGZ)		Open and insert parts and assemblies	✓						✓
	ICEM CFD (TIN)		Open and insert parts and assemblies	✓						✓
	IGES (IGS, IGS)	Up to v5.3	Open and insert parts and assemblies ²⁴	✓						✓
	Inventor (IPT, IAM)	Version 5 to Version 10	Open and insert parts and assemblies		✓					✓
	Inventor (IPT, IAM)	Versions 11 to 2016	Open and insert parts and assemblies ^{25,26,27,28,29}	✓						✓
	JT Open (JT)	V6.4, 7.0, 8.0, 8.1, 8.2, 9.0 to 10.0	Open and insert parts and assemblies ^{30,31,32,34}					✓		✓
	NX (PRT)	NX1 to NX10 ³⁵ & UG v11 to 18	Open and insert parts and assemblies			✓				✓
	OpenVDB			✓						✓
	Parasolid (X, T, X, B, XMT, TXT, XMT, BIN)	V11.0 to V29	Open and insert parts and assemblies			✓				✓
	PLY (PLY)	V1.0	Open and insert parts	✓						✓
	Pro/E (PRT, ASM, XPR, XAS)	Pro/E 16 to Wildfire 5 (Creo 1.0 to Creo 3.0)	Open and insert parts and assemblies ³¹	✓		✓				✓
	QIF (.QIF)	V2.0	Open and insert parts and assemblies ³²	✓						✓
	Rhino (3DM)	V4.0, V5, 6 ³³	Open and insert parts and assemblies	✓						✓
	RS Components	V2005.0 SP0 ³⁴	Open and insert parts and assemblies	✓						✓
	SketchUp	Up to SketchUp 8, V2013, V2014, V2015	Open and insert parts and assemblies	✓						✓
	SolidEdge (PAR,PSM,ASM)	V18 - ST8	Open and insert parts and assemblies			✓				✓
	Solidworks (SLDPRT, SLIDASM)	SW 98 to SW 2016	Open and insert parts and assemblies			✓				✓
	STEP (.STEP)	AP203, AP214, AP242 (geometry)	Open and insert parts and assemblies ³⁵	✓						✓
	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, PCK, PNG, TIF, GIF)		Insert images	✓						✓
	Video (wmv, avi, flv, mkv, mov, mpeg, mp4, mpg, mpeg, ogm, vob)		Insert video ³¹	✓						✓
Export	ACIS (SAT, SAB)	V6, 7, 15-27 (V27 default)	Export parts and assemblies ¹	✓						✓
	Acrobat (PDF 3D)	Facets	Export parts and assemblies ²	✓						✓
	Acrobat (PDF 3D)	Geometry(PRC B-Rep, Facets)	Export parts and assemblies ^{2, 24}						✓	
	Acrobat (PDF 2D)		Print to same 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 ³⁶	✓						✓
	CATIA V5/V6 (CATPart, CATProduct)	R15 to V5-6R2016 (R25 default)	Export parts and assemblies ^{14,21,24}				✓			
	EXCEL (XLS, XLSX) ^{37,38}	MS Office 2003, 2007, 2013		✓						✓
	Fluent Mesh (MESH, TGZ)		Export parts and assemblies	✓						✓
	IGES (IGS, IGS)	v5.1, JAMA-IS, 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 ^{30,31,32,34}					✓		✓
	KeyShot (BIP)		Export parts and assemblies	✓						✓
	OpenVDB			✓						✓
	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 ³⁹	✓						✓
	PowerPoint (PPT)	MS Office 2003, 2007, 2013	Export 3D markup slides ⁴⁰	✓						✓
	QIF (.QIF)	V2.0	Export parts and assemblies ³²	✓						✓
	Rhino (3DM)	V4.0, V5, 6 ³³	Export parts and assemblies	✓						✓
	SketchUp	SketchUp V3.0 to V8.0, V2013, V2014, V2015	Export parts and assemblies	✓						✓
	STEP (.STEP)	AP203, AP214, AP242 (geometry)	Export parts and assemblies	✓						✓
	STL		Export parts and assemblies ⁴¹	✓						✓
	VDA-FS (VDA)	2.0	Export parts		✓					✓
	VRML (WRL)	Triangles ⁴²	Export parts	✓						✓
	Wavefront (OBJ)	Triangles ⁴³	Export parts	✓						✓
	XAML		Export part and assembly solids only	✓						✓
	XPS		Export 3D markup slides	✓						✓
	Image (GIF, JPG, PNG, BMP, TIF)		Export as 2D snapshot	✓						✓

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

Notes:

- ¹SpaceClaim Home Edition is licensed 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 bodies can be imported using the ReadDWG option, Layout space entities can be imported using the Tagline option, Sketch curves and text can be imported into Design, 2D entities can be inserted to Drawing Format, Polyface meshes can be imported
- ⁴Assemblies are flattened
- ⁵Including Product Manufacturing Information (PMI) placed on the Imported Annotation Planes
- ⁶Wildfire 5 (Creo 1.0, 2.0) PMI is not supported
- ⁷Import and Export of Free points supported
- ⁸Semantic and Polyface PMI is supported
- ⁹Part level PMI
- ¹⁰If Open V5.4 and V7.0 imported and exported as faceted data
- ¹¹Appropriate edit codes required for all but WMT and AM
- ¹²CATIA V6 archive 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 lightweight (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 ACIS V7 format
- ¹⁹CGF exports Facets as mesh objects. SpaceClaim recommends editing meshes on a 64bit OS.
- ²⁰The SpaceClaim plug-in for Rhino is only supported for Rhino v5.0
- ²¹Export as hybrid design is supported
- ²²IGES 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, HTML, XML, Document (.xml), CSV file (.csv)
- ²⁶Creo Elements/CoCreate software must be installed locally to open this file type
- ²⁷Design Modeler software must be installed locally to open this file type
- ²⁸Cadence translators require an installation of Cadence SPB be locally available
- ²⁹PMI 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 is partially supported.
- ³²Origin import and export supported
- ³³PMI import is supported