

### SpaceClaim 2015 SP1 Supported Import & Export Operations

Operation	File type (EXTENSION)	Supported versions	Supported actions	Supported actions								
				Engineer <sup>1</sup>	DXI	DX II	Catia V5	JT Open	PDF	SCDM <sup>23</sup>		
Import	ACIS (SAT, SAB)	Up to v25	Open and insert parts and assemblies	✓							✓	
	Acrobat (PDF)	Geometry (PRC B-Rep, Facets)	Open and insert parts and assemblies <sup>2,15,24</sup>							✓	✓	
	AMF	V1.0 (Facets)	Open and insert parts and assemblies	✓							✓	
	AutoCAD (DWG, DXF)	R12 to 14, 2000, 2004, 2007, 2010, 2013	Open and insert parts and assemblies <sup>18</sup> and layout space entities (including Solids) <sup>18</sup>	✓							✓	
	CATIA (MODEL, EXP, CATPart, CATProduct, CGR)	V4 4.1.9 to 4.2.4	Open and insert parts and assemblies		✓						✓	
		V5 R8 to R24, V6R2014 <sup>12</sup>	Open and insert parts and assemblies <sup>17,19,20</sup>				✓				✓	
		R2010x - R2013x <sup>24</sup>									✓	
	Creo Elements/Direct Modeling (CoCreate)	18.1 & 19									✓	
	Design Modeler (.agdb)	Up to 16	Open and insert parts <sup>3</sup>								✓	
	ECAD (IDF, IDB, EMN)	IDF 3.0 and IDF 4.0	Open IDF and PADS files	✓							✓	
	IGES (IGS, IGES)	Up to v5.3	Open and insert parts and assemblies <sup>16</sup>	✓							✓	
	Inventor (IPT, IAM)	Version 6 to Version 10	Open and insert parts		✓						✓	
		Versions 11 to 2015	Open and insert parts and assemblies		✓						✓	
	JT Open (JT)	V6-4, 7.0, 8.0, 8.1, 8.2, 9.0 to 10.0	Open and insert parts and assemblies <sup>4,7,8,10,24</sup>						✓		✓	
	NX (PRT)	NX1 to NX9 & UG v11 to 18	Open and insert parts and assemblies				✓				✓	
	Parasolid (X, T, X_B, XMT, TXT, XMT, BIN)	V10.0 to V27	Open and insert parts and assemblies				✓				✓	
	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 <sup>5</sup>								✓	
	Rhino (3DM)	V4.0, V5.0 <sup>25</sup>	Open and insert parts and assemblies	✓	✓						✓	
	RS Components	V2015.0 SPO <sup>22</sup>	Open and insert parts and assemblies	✓							✓	
	SketchUp	Up to SketchUp 8, V2013, V2014	Open and insert parts and assemblies	✓							✓	
	SolidEdge (.par, .pam, .asm)	V18 – ST7	Open and insert parts and assemblies				✓				✓	
	Solidworks (SLDPRT, SLDASM)	SW 98 to SW 2014	Open and insert parts and assemblies				✓				✓	
	STEP (STP, STEP)	AP203, AP214 (geometry)	Open and insert parts and assemblies	✓							✓	
	STL	Facets of solids2	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	✓							✓	
	Image (BMP, JPG, PCX, PNG, TIF, GIF)	Facets	Insert images	✓							✓	
	Video (wmv, avi, flv, mkv, mov, mp4, mpeg, mpeg, ogm, vob)	Facets	Insert video <sup>11</sup>	✓							✓	
	Export	ACIS (SAT, SAB)	V6, 7, 15-25 (V25 default)	Export parts and assemblies <sup>3</sup>	✓							✓
		Acrobat (PDF 3D)	Facets	Export parts and assemblies <sup>2</sup>	✓							✓
		Acrobat (PDF 3D)	Geometry (PRC B-Rep)	Export parts and assemblies <sup>2,24</sup>							✓	✓
		Acrobat (PDF 2D)		Print to or save drawings	✓							✓
		AMF	V1.0	Export parts and assemblies	✓							✓
		AutoCAD (DWG, DXF)	R12 to 14, 2000, 2004, 2007, 2010, 2013	Export as 2D snapshot and AutoCAD Solids <sup>18</sup>	✓							✓
		CATIA V5/V6 (CATPart, CATProduct)	R6 to R25 (R24 default)	Export parts and assemblies <sup>13,21</sup>				✓				✓
		EXCEL (XLS, XLSX) <sup>11,21</sup>	MS Office 2003, 2007, 2013		✓							✓
		IGES (IGS, IGES)	v5.3, IAMA-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 <sup>4,7,8,10,24</sup>	✓					✓		✓
		KeyShot (BIP)	V12 to V27 (V26 default)	Export parts and assemblies	✓							✓
		Parasolid (X, T, X_B)	V12 to V27 (V26 default)	Export parts and assemblies	✓			✓				✓
POV-Ray		3.6	Export parts and assemblies <sup>17</sup>	✓							✓	
PowerPoint (PPT)		MS Office 2003, 2007, 2013	Export 3D markup slides <sup>13</sup>	✓							✓	
Rhino (3DM)		V4.0, V5.0 <sup>25</sup>	Export parts and assemblies	✓							✓	
SketchUp		SketchUp V3.0 to V8.0, V2013, V2014	Export parts and assemblies	✓							✓	
STEP (STP, STEP)		AP203, AP214 (geometry)	Export parts and assemblies	✓							✓	
STL			Export parts and assemblies <sup>14</sup>	✓							✓	
VDA-FS (VDA)		2.0	Export parts			✓					✓	
VRML (WRL)			Export parts and assemblies	✓							✓	
Wavefront (OBJ)			Export parts and assemblies	✓							✓	
XAML			Export part and assembly solids only	✓							✓	
XPS			Export 3D markup slides	✓							✓	
Image (GIF, JPG, PNG, BMP, TIF)			Export as 2D snapshot	✓							✓	

Notes: Supported on Windows 7 32/64-bit OS, Windows 8.x 64 OS

<sup>1</sup>SpaceClaim Home Edition is issued free of charge with SpaceClaim Engineer and is watermarked with "Restricted License: Home Use Only"

<sup>2</sup>No Adobe Acrobat required for BREP import and export, 32-bit and 64-bit platforms supported, Adobe Acrobat X Pro is not supported

<sup>3</sup>ACIS bodies can be imported using the RealDWG option, Layout space entities can be imported using the Teigha option, Sketch curves and text can be imported into Designs, 3D entities can be inserted to Drawing formats, Polyface meshes can be imported

<sup>4</sup>Including Product Manufacturing Information (PMI) placed on the Imported Annotation Planes

<sup>5</sup>Assemblies are flattened

<sup>6</sup>Wildfire 5 (Creo 1.0, 2.0) PMI is not supported

<sup>7</sup>Import and Export of free points supported

<sup>8</sup>Semantic and Polyline PMI is supported

<sup>9</sup>Part-level PMI

<sup>10</sup>JT Open V6.4 and V7.0 imported and exported as faceted data

<sup>11</sup>Appropriate video codec required for all but WMV and AVI

<sup>12</sup>CATIA V6 precise part and product data must be exported as V5CATPart and CATProduct to be read into SpaceClaim

<sup>13</sup>If MS Office is installed

<sup>14</sup>STL export can be performed directly from lightweight (visualization only) SpaceClaim document

<sup>15</sup>3D PDF via a PRC neutral file along with Semantic PMI (if PMI data is present)

<sup>16</sup>Import of IGES curves and curve colors is supported

<sup>17</sup>Export of mesh objects is supported

<sup>18</sup>Solids in ACIS v7 format

<sup>19</sup>CGR imports Facets as mesh objects. SpaceClaim recommends editing meshes on a 64bit OS.

<sup>20</sup>The SpaceClaim plug-in for Rhino is only supported for Rhino v5.0

<sup>21</sup>Export as hybrid design is supported

<sup>22</sup>RSDocs can only be imported for the first 30 days after SC activation. After 30 days, a limit of 100 individual file imports is enforced.

<sup>23</sup>SCDM is a separate product, which can be purchased from Ansys

<sup>24</sup>SCDM optional modules JT Open, 3D PDF and Catia V5/V6 are available

<sup>25</sup>Table Export: Web page (.htm; .html), XML Document (.xml), CSV file (.csv)