



Tetra4D Automate

Version 2019 SP1

Release Notes

Details of new features, updated format support and bug fixes for Tetra4D Automate

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Definition of Release Types

We define each release type as follows:

- **Major release:** A major release associated with an incremented release number (e.g. 2019) and an approximate 12 months' product cycle.
- **Minor release:** An update between major releases that may include support for new file formats, new versions of currently supported formats, and bug fixes. These updates are Service Packs (SP), and are defined with an additional incremented number put aside the major release information (e.g. 2019.1 for the first Service pack of release 2019)
- **Out of cycle patch:** An unscheduled update. These contain few functional updates with the intention to limit impact.

Version Information

Item	Version Number
Tetra4D Automate	2019.1.x

Notice that the third number is used to differentiate builds of the software, and may not be continuous.

Installation

This version can be installed over any prior installation of Tetra4D Automate. For more installation information, please refer to the Tetra4D Automate User manual.

Language Support Overview

Tetra4D Automate supports English language.

System Requirements

Please refer to the Tetra4D Automate User manual to access the system requirements.

Format Support

This release supports **reading** the following 3D file formats:

Format	Version	Extensions
ACIS (SAT)	Up to v29	SAT, SAB
Autodesk AutoCAD (3D only)	Up to v2019	DWG, DXF
Autodesk DWF	Any	DWF, DWFX
Autodesk Inventor	Up to 2020	IPT, IAM
CATIA V4	Up to 4.2.5	MODEL, SESSION, DLV, EXP
CATIA V5	R4 to V5-6R2018 (R28)	CATDrawing, CATPart, CATProduct, CATShape, CGR
CATIA V6	2011 to 2013	3DXML
FBX	ASCII: from 7100 to 7400. Binary: all	FBX
GL Transmission format	2.0	GLTF, GLB
I-deas	Up to 13.x (NX 5), NX I-deas 6	MF1, ARC, UNV, PKG
IGES	5.1, 5.2, 5.3	IGS, IGES
Industry Foundation Classes (IFC)	IFC2x Editions 2, 3 and 4	IFC, IFCZIP
JT	Up to version 10.2	JT
Parasolid (X_T)	Up to v31.1	X_B, X_T, XMT, XMT_TXT
PRC	All Versions	PRC
PTC Creo	Pro/Engineer 19.0 to Creo 6.0	ASM, NEU, PRT, XAS, XPR
PTC Pro/Engineer	Up to Wildfire 5	ASM, NEU, PRT, XAS, XPR
REVIT	2015 to 2019	RVT, RFA
Rhino	4, 5, 6	3DM
Siemens PLM Software NX	V11.0 to NX 12, and NX 1847	PRT
Solid Edge	V19 - 20, ST – ST10, 2019	ASM, PAR, PWD, PSM
SolidWorks	Up to 2019	SLDASM, SLDPRT
STEP	AP 203 E1/E2, AP 214, AP 242	STP, STEP, STPZ
Stereo Lithography (STL)	All Versions	STL
Universal 3D (U3D)	ECMA-363 (1 st to 3 rd editions)	U3D
VDA-FS	Version 1.0 and 2.0	VDA
VRML	V1.0 and V2.0	WRL, VRML
Wavefront	Any	OBJ

Remark:

**Automate is delivered as default with one input format.
Any additional input format is accessible as options.**

This release supports **writing** the following 3D file formats:

Format	Extensions
3MF	3MF
3D PDF	PDF
Html	Html
IGES	IGS, IGES
JT	JT
Parasolid	X_T
STEP	STP, STEP, STP.Z
Stereo Lithography (STL)	STL
Universal 3D (U3D)	U3D
VRML	WRL, VRML

Remark:

**Automate is delivered as default with 3D PDF and Html output formats.
Any additional output format is accessible as options.**

New CAD format support

This section outlines the new CAD Readers that have been added in this Tetra4D Automate release.

CAD Reader: Autodesk DWF

- Supported versions: All versions
- File extensions: DWF, DWFX
- Details:
 - Support of 3D objects only, as tessellation.

CAD Reader: REVIT

- Supported versions: 2015 to 2019
- File extensions: RVT, RFA
- Details: Supported
 - Tessellation
 - Meta-data and units
 - Views
 - Assemblies
- Details: Not supported
 - Brep
 - Textures

CAD Reader: FBX

- Supported versions: ASCII: from 7100 to 7400. Binary: all
- File extensions: FBX
- Details:
 - As the FBX format is a tessellation format, only tessellation is read.
 - Textures are supported

CAD Reader: GLTF

- Supported versions: 2.0
- File extensions: GLTF
- Details:
 - As the GLTF format is a tessellation format, only tessellation is read.
 - Textures are supported

CAD Reader: Wavefront (OBJ)

- Supported versions: All versions
- File extensions: OBJ

Updated formats support and Reader/Writer enhancements

This section outlines the CAD Readers and Writers that have been updated or improved in this Tetra4D Automate release.

CAD Reader: ACIS

- Support for version 29

CAD Reader: Autodesk Inventor

- Support for version 2020

CAD Reader: Parasolid

- Support for version 31.1

CAD Reader: PTC Creo

- Support for version 6.0

New features and enhancements

This section presents the new features and enhancements released with this version of Tetra4D Automate.

Writer: Html

A new workflow has been added to Tetra4D Automate to enable direct conversion of a 3D CAD model into a monolithic Html file, based on a Html template.

Such Html files are meant to be consumed off-line in any browser

see Browser compatibility in the User manual as well as an example in the chapter:

Description of the script: 70_Convert3DToHTML.bat

Bug Fixes

The 2019 SP1 release of Tetra4D Automate fixes several customers' reported issues. Please contact support by visiting our support page if you have questions about any specific issue.