

GENIUS TOOLS[®] 

INNEO Software

8/17/2022

Platform Support

© 2022 INNEO Solutions GmbH



| | | |
|----------|--|-----------|
| 1 | Preliminary remarks | 2 |
| 2 | GENIUS TOOLS License Manager | 3 |
| 3 | Startup TOOLS | 4 |
| 4 | GENIUS TOOLS Starter | 5 |
| 4.1 | Hardware and software requirements | 5 |
| 4.2 | Access rights | 7 |
| 4.3 | PTC Creo support | 8 |
| 4.4 | PTC Windchill support | 8 |
| 5 | GENIUS TOOLS Library & Parameter | 9 |
| 6 | GENIUS TOOLS Model Processor | 11 |
| 6.1 | GENIUS TOOLS Model Processor Report/Rework | 11 |
| 6.2 | GENIUS TOOLS Model Processor User | 12 |

1 Preliminary remarks

This documentation is a product of INNEO Solutions GmbH, all rights reserved. This documentation may not be copied, photocopied, reproduced, translated, recited or converted to electronic or machine-readable formats in its entirety or in part without previous written consent by an authorized representative of INNEO Solutions GmbH. Unauthorized use of this documentation may result in civil or criminal prosecution. INNEO Solutions GmbH does not accept any liability for errors in this documentation or consequences of such errors.

Note on registered trademarks and brand names

Most of the software, hardware and trade names mentioned in this documentation are registered trademarks of Parametric Technology Corporation or its affiliates. Advanced Surface Design, Behavioral Modeling, CADDs, Computervision, CounterPart, EPD, EPD.Connect, Expert Machinist, Flexible Engineering, HARNESSDESIGN, Info*Engine, InPart, MECHANICA, Optegra, Parametric Technology, Parametric Technology Corporation, PartSpeak, PHOTORENDER, Pro/DESKTOP, Pro/E, Pro/ENGINEER, Pro/HELP, Pro/INTRALINK, Pro/MECHANICA, Pro/TOOLKIT, Product First, PTC, PT/Products, Shaping Innovation and Windchill.

2 GENIUS TOOLS License Manager



The GENIUS TOOLS products by INNEO Solutions are licensed using the Flexnet technology by Flexera.

The Flexnet license server has to be installed on a computer with a Windows operating system.

| | |
|-----------------|-----------------|
| | 1.0 M070 |
| Flexnet version | 11.13.1 |
| | |

3 Startup TOOLS

From Startup TOOLS version 6, the product consists of the following components:

| Component/Product | Description |
|----------------------------------|---|
| GENIUS TOOLS Starter (GTS) | Separate product, for requirements see GENIUS TOOLS Starter  |
| GENIUS TOOLS Library & Parameter | Separate product, for requirements see GENIUS TOOLS Library & Parameter  |
| Data packages | Can be used with GENIUS TOOLS Starter, available for defined Creo versions (configuration files, template models, symbols, drawing frames) |

Product matrix

For detailed requirements and supported PTC products, please refer to the sections on the individual GENIUS TOOLS products.

| | Startup TOOLS | | | | |
|----------------------------------|---|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| | 2018 | 6.0 | 7.0 | 8.0 | 9.0 |
| GENIUS TOOLS Starter (GTS) | Integrated configuration (no separate module) | GTS 6.0 | GTS 7.0 | GTS 8.0 | GTS 9.0 |
| GENIUS TOOLS Library & Parameter | GENIUS TOOLS Library & Parameter 5.0 | GENIUS TOOLS Library & Parameter 6.0 | GENIUS TOOLS Library & Parameter 7.0 | GENIUS TOOLS Library & Parameter 8.0 | GENIUS TOOLS Library & Parameter 9.0 |
| Data packages | Creo 3.0-5.0 | Creo 4.0-6.0 | Creo 4.0-7.0 | Creo 4.0-8.0 | Creo 7.0-9.0 |

4 GENIUS TOOLS Starter

GENIUS TOOLS Starter is a C# desktop application that allows to manage central PTC Creo configurations. GENIUS TOOLS Starter consists of three applications that can be run on any computer with a Windows operating system. You need a central data share with enough storage space that is accessible for all users via UNC.

These are the component applications:

- GENIUS TOOLS Starter App: user application for starting PTC Creo
- GENIUS TOOLS Project Configurator: administrative application for configuring projects
- GENIUS TOOLS Environment Administrator: administrative application for configuring operating environments

4.1 Hardware and software requirements

GENIUS TOOLS Starter works on all computers that fulfill the requirements for Creo 4.0 to Creo 7.0.

The following requirements are the same for installation computers, administration computers and satellites.

| | GENIUS TOOLS Starter | | |
|---------------------------|--|-----|---|
| Version | 7.0 | 8.0 | 9.0 |
| Operating system | 64-bit only Windows 10 / 8.1 / 7 | | 64-bit only Windows 11 / 10 |
| .NET Framework | 4.8 Delivered with Windows 10 -1903 (+8.1; +7) (May have to be installed separately on WIN7/8.1) | | 4.8 Delivered with Windows 10 -1903 |
| Minimum screen resolution | X=1280 Y=1024 | | |
| Flexnet | INNEO Licence Manager 1.0 M050 (Flexnet) and later | | |
| Caddepot directory | circa 1 to 5 GB for each operating environment | | |

| | GENIUS TOOLS Starter |
|--|---|
| (Central storage location with UNC access) | |
| Cadpool directory (Storage location on the application computer) | Sufficient storage space to set up at least one operating environment |
| Data synchronization using GENIUS TOOLS Starter Service | Windows computer, where the Caddepot directory is located and where a service can be installed. |
| Operating satellites using GENIUS TOOLS Starter Service | Communication port for REST API on installation computer and satellites. Standard: 8092 Satellites need the same storage space as the installation computer. |

Supported desktop applications

1. Programs starting with project configuration
 - Creo Elements/Direct Modeling
 - Creo Parametric 2.0 - 9.0
2. If installed, these programs will start automatically (autostart):
 - Creo Elements/ Direct Drafting
 - Creo Illustrate
 - Creo Schematics
 - Creo View
 - Geomagic Design X
 - KeyShot
 - Mathcad Prime

4.2 Access rights

Caddepot

Read access: All users need read access to the Caddepot for synchronization to work.

Write access: For some functions users need write access to individual directories of an operating environment in the Caddepot.

- GENIUS TOOLS Starter App feedback on the last synchronization
...*serveronly*_SyncResults\
 - Central user configuration files
...*userdata*
 - Common databases for GENIUS TOOLS for Creo name generation (has to be configured manually)
...*serveronly*\gt_numgen
- Warning: This functionality cannot be used offline.

Cadpool

Read / write access: The user needs full write access to the local Cadpool for synchronization to work.

Client computers

Write access: Write access needs to be granted to the following Creo installation directories

- if more than the standard key (e.g. *parametric.psf*) or the synchronization of the start key is wanted: to the directory that contains Creo startkeys,
- if the files *config.sup*, *config.pro*, *creo_parametric_admin_customization.ui* need to be adapted: to the directory *..\CommonFiles\text*

Please note: If Creo is installed into the Windows default program directory, you should not make any changes with GENIUS TOOLS Starter App. Install Creo into another directory, for example *C:\ptc*.

4.3 PTC Creo support

| | GENIUS TOOLS Starter | | |
|--|----------------------|-----|-----|
| | 6.0 | 7.0 | 8.0 |
| Creo 4.0 64 Bit Parametric, Direct, Simulate, Layout | X | X | X |
| Creo 5.0 64 Bit Parametric, Direct, Simulate, Layout | X | X | X |
| Creo 6.0 64 Bit Parametric, Direct, Simulate, Layout | X | X | X |
| Creo 7.0 64 Bit Parametric, Direct, Simulate, Layout | - | X | X |
| Creo 8.0 64 Bit Parametric | - | - | X |

4.4 PTC Windchill support

GENIUS TOOLS Starter supports the Windchill versions that work with the supported PTC Creo versions (refer to the Matrix at PTC for exact weekly versions).

| CAD | PLM |
|--------------|-----------------------|
| PTC Creo 4.0 | Windchill 10.2 – 12.0 |
| PTC Creo 5.0 | Windchill 11.0 – 11.1 |
| PTC Creo 6.0 | Windchill 11.0 – 11.2 |
| PTC Creo 7.0 | Windchill 11.1 – 12.x |
| PTC Creo 8.0 | Windchill 11.1 – 12.x |

5 GENIUS TOOLS Library & Parameter

GENIUS TOOLS Library & Parameter are an add-on application for Creo Parametric.

PTC Creo support

| | GENIUS TOOLS Library & Parameter | | | |
|--------------|----------------------------------|-----|-----|-----|
| | 5.0 | 6.0 | 7.0 | 8.0 |
| PTC Creo 3.0 | X | - | - | - |
| PTC Creo 4.0 | X | X | X | X |
| PTC Creo 5.0 | X | X | X | X |
| PTC Creo 6.0 | - | X | X | X |
| PTC Creo 7.0 | - | - | X | X |
| PTC Creo 8.0 | - | - | X | X |

PTC Windchill support

The following functionality can be configured to work with PTC Windchill.

GENIUS TOOLS Library & Parameter

- GENIUS TOOLS Name Generator
 - version 5.0 with Windchill customization
 - version 6.0-8.0 with Creo, native
- Open or create drawing (6.0-8.0)
 - REST
- JavaScript (6.0-8.0)
 - REST

GENIUS TOOLS Parameter

- GT Assembly Report (6.0-8.0)
 - REST

GENIUS TOOLS Library

- GT Library Data Importer (6.0-8.0)

– REST

Windchill prerequisites

All REST functions require Windchill 11.0 or later with CPS 06.

6 GENIUS TOOLS Model Processor

PTC Windchill support

PTC Windchill is supported in version 9.1 or later.

6.1 GENIUS TOOLS Model Processor Report/Rework

PTC Creo support

| | Model Processor | | | |
|------------------|-----------------|---------------|----------|----------|
| | 4.1 | 5.0 | 5.7 | 7.0 |
| PTC Wildfire 4.0 | 32/64 bit | - | - | - |
| PTC Wildfire 5.0 | 32/64 bit | - | - | - |
| PTC Creo 1.0 | 32/64 bit | - | - | - |
| PTC Creo 2.0 | 32/64 bit | 64 bit > M120 | - | - |
| PTC Creo 3.0 | - | 64 bit | - | - |
| PTC Creo 4.0 | - | 64 bit | X > M040 | X > M040 |
| PTC Creo 5.0 | - | - | X | X |
| PTC Creo 6.0 | - | - | - | X |
| PTC Creo 7.0 | - | - | - | X |
| PTC Creo 8.0 | - | - | - | - |
| Windows XP | X | - | - | - |
| Windows 7 | X | X | X | X |
| Windows 10 | - | - | X | X |

6.2 GENIUS TOOLS Model Processor User

For versions < 5.7, the corresponding Model Processor versions are listed in the text file *version.txt* under <INSTALL_PATH>/text.

For later versions, the version numbers are the same for Model Processor and Model Processor User.

The Microsoft Windows versions correspond to the Creo versions.

PTC Creo support

| | Model Processor User | | | | |
|------------------|----------------------|---------------|---------------|----------|----------|
| | 4.1 <= M050 | 4.1 > M050 | 5.0 | 5.7 | 7.0 |
| PTC Wildfire 4.0 | 32/64 bit | - | - | - | - |
| PTC Wildfire 5.0 | 32/64 bit | - | - | - | - |
| PTC Creo 1.0 | 32/64 bit | - | - | - | - |
| PTC Creo 2.0 | 32/64 bit | 64 bit > M120 | 64 bit > M120 | - | - |
| PTC Creo 3.0 | - | 64 bit | 64 bit | - | - |
| PTC Creo 4.0 | - | - | 64 bit | X > M040 | X > M040 |
| PTC Creo 5.0 | - | - | - | X | X |
| PTC Creo 6.0 | - | - | - | - | X |
| PTC Creo 7.0 | - | - | - | - | X |
| PTC Creo 8.0 | - | - | - | - | - |