

Startup TOOLS

13.0.0.0

Release Information

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1 Important information

Update

An update of Startup TOOLS does not change any data in the data packages (`<operatingenvironment>\<application>\data\<datapackage>`) or the resource folder (`<operatingenvironment>\parametric\configuration\gt_resource_folder` within an operating environment. Data packages and resource directory are customized to company-specific needs, e. g. the drawing frames, and must therefore be updated manually.

Please also consult the chapters *Important informationen* in GENIUS TOOLS Starter and for Creo add-on applications in GENIUS TOOLS for Creo.

2 New features

You can find more information about new functions in the chapters [GENIUS TOOLS Starter](#) and for the Creo add-on applications in [GENIUS TOOLS for Creo](#).

3 License dependent functions

The product functionality depends on the type of license you are using. Find the list of functions that are limited to subscription licenses in the chapters *Important Information* in GENIUS TOOLS Starter and GENIUS TOOLS for Creo respectively.

4 Hardware and software requirements

Hardware and software requirements

GENIUS TOOLS Starter (GTS) operates on all computers that fulfill the requirements for Creo 7.0 to Creo 13.0.

The following Windows server operating systems are supported for GENIUS TOOLS Starter Service: Windows Server 2025 / Windows Server 2022.

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

	GENIUS TOOLS Starter						
Version	7.0	8.0	9.0	10.0	11.0	12.0	12.0
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		Installation computer: 4.8		
.NET	-				8.0 (is included in the GTS software setup)	10.0 (is included in the GTS software setup)	
Minimum screen resolution	X=1280 Y=1024						
Flexnet	INNEO Licence Manager 1.0 M050 (Flexnet) and later						

	GENIUS TOOLS Starter
Caddepot directory (Central storage location with UNC access)	circa 1 to 5 GB for each operating environment
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. Administrators can create projects with object data and predefined configuration settings for the following CAD applications:

- AutoCAD, AutoCAD Architecture, AutoCAD LT and AutoCAD Mechanical 2021 - 2027
- Creo Elements / Direct Modeling 17.0 - 20.9
- Creo Parametric 7.0 - 13.0
- Inventor 2021 - 2027
- SolidWorks 2020 - 2026

2. The following applications will be automatically detected if they are installed on the user's computer (autostart). The latest version will be opened.

- Creo Elements / Direct Drafting

- Creo Illustrate
- Creo Schematics
- Creo View
- Geomagic Design X
- KeyShot
- Mathcad

Required 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 to be used: to the directory that contains Creo startkeys,
- if the Creo configuration 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.

5 GENIUS TOOLS Starter

GENIUS TOOLS Starter is the configuration component of the Startup TOOLS for version 6.0 and later.

GENIUS TOOLS Starter is a separate software that can start local applications such as Creo Parametric using a central configuration, as well as synchronize data to the local computer.

All projects and data are managed within a operating environment. You can now use any number of operating environments in parallel, for example to have a test and production environment.

GENIUS TOOLS Starter package

- GENIUS TOOLS Starter App is the interface for the user, who can start the projects configured by the administrator. The local GENIUS TOOLS Starter App will update automatically from the central Caddepot directory.
- GENIUS TOOLS Project Configurator is the tool for the administrator for configuring projects that the user can then start using the GENIUS TOOLS Starter App.
- GENIUS TOOLS Environment Administrator is the tool for the administrator to manage operating environments.
- With GENIUS TOOLS Config Editor administrators can directly compare and edit configuration files and configuration blocks.

5.1 Important information

Different functionality depending on license type

The following functions are available with a subscription license for GENIUS TOOLS Starter.

Subscription function	Description	Release
Dynamic access to Windows user management with LDAP/Active Directory (lightweight directory access protocol)	Creates access to Windows user management and enables live queries so that user assignment is always up-to-date. Users thus do not have to be created and maintained manually. ⇒ Less maintenance work	6.0.1.0
Configuring units	Adds a group element ("unit") that can easily reflect complex configurations such as for company sites and units. ⇒ Easier configuration for companies with many sites and/ or units ⇒ Allows for a reduction of projects	6.0.1.0
Access to directory "users"	Adds a group element ("users") that can easily reflect complex configurations for many users. ⇒ Less maintenance work	6.0.1.0
Selecting Creo startkey when starting a project	Provides a project with a choice from several Creo startkeys (start command that opens Creo with a defined license package). Users can start a project with a default startkey or select another one when opening a project in GENIUS TOOLS Starter App. ⇒ Allows the reduction of projects	7.0.0.0
Apps projects	Creates projects that run on any other program. Assigning a project directory and batch files is possible. ⇒ GENIUS TOOLS Starter App can be made the central access point for users.	7.0.0.0

Subscription function	Description	Release
Operating satellites in GENIUS TOOLS Starter Service	Enables the connection of synchronization servers to a main server and their automatic synchronization. ⇒ Faster connection of user computers to a synchronized satellite ⇒ Reducing queries from network to main server	7.0.1.0
Edit and compare configuration blocks	Release-dependent config.pro editor and graphic comparison tool („Config Analyzer“, discontinued in version 12.0.1.0) ⇒ Quick overview, comparison and editing of project-related configuration blocks (config_*.pro files)	7.0.1.0
Company-specific project collections	Start projects can be put together in defined project groups by the administrator. ⇒ In many projects, these can be structured according to your own requirements.	7.0.2.0
Selectable project options	Projects can be started with multiple, individually defined configuration blocks, e.g. for license extensions or additional programs.	8.0.0.0
Reproducing organization structure with units and subunits	Subordinate units (subunits) can be created to provide additional configuration levels for project settings. ⇒ Better mapping for locations, subunits etc. and the resulting complex project configurations ⇒ Allows for further reduction of projects	8.0.1.0
Combined project options	Users can select a project option in GENIUS TOOLS Starter App, which activates multiple configuration options which are located in different directories and configuration levels, e. g. for license extensions and add-on applications. ⇒ Number of projects can be minimized	8.0.1.0

Subscription function	Description	Release
Edit config.pro files in GENIUS TOOLS Config Editor	Creo configuration options can be edited faster with auto-completion and color coding. ⇒ Easier comparison and editing of configuration options, also in batch mode.	8.0.2.0
Auto projects	Settings for auto projects (e. g. Keyshot) can be specified for the configuration levels standard, unit, project and user. ⇒ Company-specific configurations possible	9.0.0.0
Create and migrate Creo Elements/Direct Modeling projects	For Creo Elements/Direct Modeling projects, settings can be specified for the configuration levels standard, unit, project and user, and project settings and data packages can be added or migrated. ⇒ Integration of an additional CAD application	9.0.0.0
Create SolidWorks projects	Projects for SolidWorks can be configured in the layers standard, unit, project and user. Project settings can be specified and data packages added. ⇒ Integration of an additional CAD application	9.0.1.0
Create Inventor projects	Projects for Inventor can be configured in the layers standard, unit, project and user. Project settings can be specified and data packages added. ⇒ Integration of an additional CAD application	9.0.2.0
Create AutoCAD projects	For the applications AutoCAD, AutoCAD Architecture and AutoCAD Mechanical, projects can be created for a specific release and be assigned project and data directories. ⇒ Integration of an additional CAD application	9.0.2.0
Support of AutoCAD LT	Projects can be created for AutoCAD LT.	10.0.1.0

Subscription function	Description	Release
Select alternative authentication	Users can authenticate against a system other than Windows. Windchill user data can be imported with GENIUS TOOLS Project Configurator. For other systems, e. g. SAP, a self-created file can be used. ⇒ Compatibility of Starter projects with other authorization systems, e. g. Windchill	10.0.1.0
Unit-specific visibility of projects	Access to a project can be restricted to a specific unit (in addition to being restricted to a role). ⇒ Use of units for project access	11.0.0.0
Install Creo projects	Synchronize Creo Parametric setups to user computers, from which they can be started manually or automatically.	11.0.0.0
SSO-Authentifizierung	Windchill user data can be authenticated with an existing Windchill server with SSO (single sign-on) setup. ⇒ Login process in GENIUS TOOLS Starter omitted	11.0.1.0
Synchronization with Git	Operating environments can be synchronized with the version control system Git. ⇒ Synchronization server can be accessed with URL address	11.0.1.0
Check in changes to Git	Software component GENIUS TOOLS Git Utility for checking in changes made in an operating environment to the version control system Git and the history of these changes. ⇒ Intuitive graphical user interface	12.0.0.0

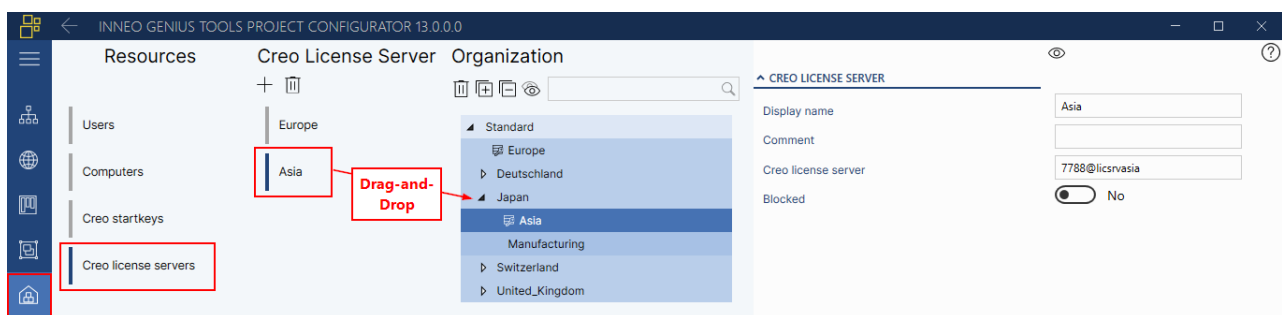
Subscription function	Description	Release
Location-specific operation of satellites	Synchronization servers can be assigned to individual locations (units) and a time can be specified for synchronization. ⇒ Improved management of satellites	12.0.2.0 / 13.0.0.0

Warning: If you are using mixed licenses (perpetual and subscription) and configure functionality that is limited to subscription licenses, the projects in GENIUS TOOLS Starter App will no longer start if there is no subscription license available.

5.2 New features in version 13

Project Configurator: Organization tree for license servers (13.0.0.0)

In the main menu Resources  you can assign Creo license servers to one or several units by dragging and dropping the server entry into the organization tree. This removes the dropdown menu for units under *Configuration > Settings: Creo Parametric > Tab: Start > Section: Creo license server*.



Assigning license servers to units in the Resources menu item

A license server can still be selected directly at a project in *Projects > Tab: Start > Section: Crep license server*.

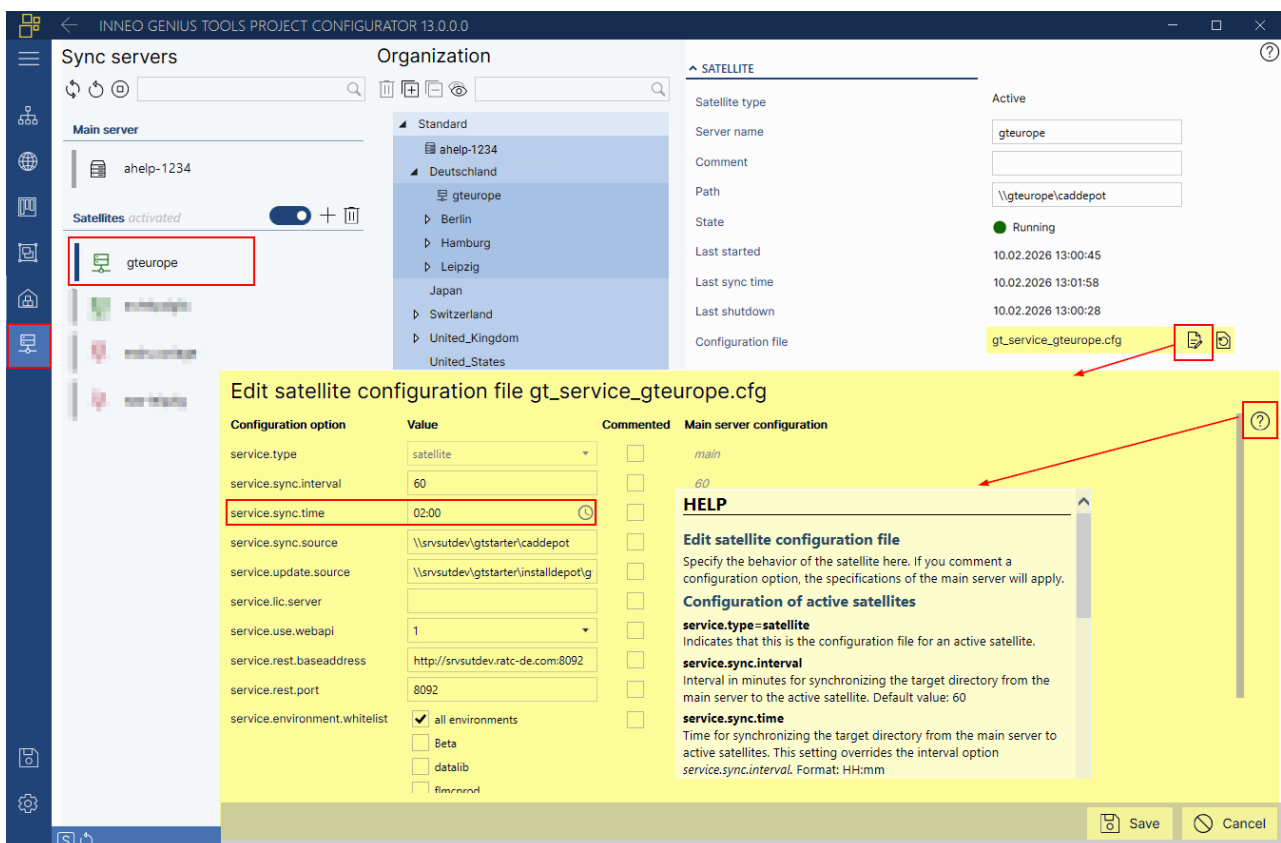
Starter Services: Set synchronization time for satellites (13.0.0.0)

For each satellite you can define a time for data synchronization allowing synchronization to take place at a time when no work is being performed at the respective location.

The configuration option *service.sync.time* defines the time (HH:mm) for synchronizing the target directory from the main server to active satellites, while *share.sync.time* defines the time for passive satellites. These settings override the interval options *service.sync.interval* and *share.sync.interval*.

You can specify these settings in GENIUS TOOLS Project Configurator under the Satellites menu item .

- For active satellites: in the settings for the main server or the individual active satellite.
- For passive satellites: in the settings for the main server.



Alternatively, the configuration options can be entered manually into a CFG configuration file:

- Settings for an active satellite in: *gt_service_<satellite_name>.cfg*
- Settings for a passive satellite in: *gt_service_share_<display_name>.cfg*

Starter Services: New configuration options (13.0.0.0)

These new configuration options specify the time for data synchronization from satellites:

service.use.webapi

Defines, whether the Web API is activated. This allows the GENIUS TOOLS Starter Sync Service to be started and stopped remotely on a satellite. Default: 1 (In the Satellites menu item in GENIUS TOOLS Project Configurator, the Synchronize, Restart, and Stop buttons

are active.)

service.sync.time

Time for synchronizing the target directory from the main server to active satellites. This setting overrides the interval option `service.sync.interval`. Format: HH:mm

share.sync.time

Time for synchronizing the target directory from the main server to passive satellites. This setting overrides the interval option `share.sync.interval`. Format: HH:mm

The configuration options must be specified in a CFG file, see also New features in version 13.0.0.0: Set synchronization time.

These configuration options are used for registering GENIUS TOOLS Starter Control Service and GENIUS TOOLS Starter Sync Service:

service.control.user

The control service is registered under this user. Format:
<Domain>\<WindowsUsername>

service.control.password

The control service is registered under this user. Specification: Password

service.sync.user

The synchronization service is registered under this user. Format:
<Domain>\<WindowsUsername>

service.sync.password

The synchronization service is registered under this user. Specification: Password

The settings must be made in a CONF file whose name matches the name of the CFG file for the respective satellite.

Please note: The service GENIUS TOOLS Starter Sync Service speeds up data synchronization and specifies which work operating to synchronize to user computers. GENIUS TOOLS Control Service monitors data synchronization. Only this control service requires administrator rights. The synchronization service can run under lower access rights.

6 GENIUS TOOLS for Creo

The following section contains information on news for the Creo add-on modules GENIUS TOOLS for Creo which are included in the products GENIUS TOOLS Parameter and GENIUS TOOLS Library.

6.1 Important information

Updating GENIUS TOOLS Parameter & Library

An update of GENIUS TOOLS Parameter & Library does not update the resource folder (*gt_resource_folder*). This must be updated manually. Consult the chapter *Update process* in the help document *GENIUS TOOLS Starter Installation.pdf*

GENIUS TOOLS for Creo: No support for Creo version 11.0.1.0(12.0.2.0)

PTC Creo version 11.0.1.0 is not supported.

GENIUS TOOLS for Creo: End of support for Creo versions up to 9.x (Version 12.0.0.0)

PTC Creo versions up to and including 9.x are no longer supported.

GENIUS TOOLS for Creo: Modules discontinued as of Creo release 13 (12.0.0.0)

The following GENIUS TOOLS extension modules will be discontinued as of Creo version 13.0.0.0, as the functions can now be executed with Creo Parametric.

GENIUS TOOLS for Creo	Creo Parametric
Feature Regeneration Profiler	Performance Report (in <i>Tools > Investigate</i>)
Multibody to Assembly	Save as assembly in a multibody part (in <i>File > Save as</i>)

Export TDP: Directories must be renamed (12.0.0.0)

For Export TDP, the following subdirectories in *export_tdp* must be renamed in the resource

directory:

Folder name: old	Folder name: new
component	chapters
model	components
template	templates

The following configuration options have been renamed:

Configuration option: old	Configuration option: new
gttdp_component_folder	gttdp_chapter_folder
gttdp_model_folder	gttdp_component_folder

The following details for the export templates have been renamed:

XML-Tags: old	XML-Tags: new
frame	format
XML-Attribute: old	XML-Attribute: new
component	definition
drwframe	drwformat
Latex	
@frame	@format

GENIUS TOOLS for Creo: No support for Creo version 11.0.1.0(12.0.2.0)

PTC Creo version 11.0.1.0 is not supported.

Utilities – Open drawing: Change configuration for OData API (12.0.2.0)

If you are working with Windchill via the OData REST API interface, the value for the configuration option *gtu_ord_pdm_odata_file_name_attribute* must be changed to *FileName* to represent the attribute *FileName*. The ODATA interface reads the attribute *FileName* instead of the attribute *Name* as before.

License-dependent functions

The following functions are available with a subscription license for *GENIUS TOOLS® Library*, *GENIUS TOOLS® Parameter* and *Startup TOOLS*.

Extension module (GENIUS TOOLS for Creo)	Description	Release
Load Save Converter	Converts Creo objects from previous Creo-, Wildfire- or Pro/ENGINEER versions to the currently used version.	7.0.0.0
Inspect Revision	Stores all versions of inspection symbols on a drawing. Easily creates an overview of a revision history.	7.0.0.0
Open Base Model	Opens geometric base models that are reference sources for features with one click in the context menu of a feature.	7.0.0.0
Extend Relations	Adds functions to model relations that define parameters for models and – with Creo 7 – for bodies.	7.0.0.0 - 8.0.0.0
Select Surfaces By Color	Surfaces of the same color can be selected with one click and be colored, measured or otherwise modified thereafter.	7.0.1.0
CS Assembler	Automates the assembly of components into an assembly using defined coordinate systems (CS).	7.0.1.0
Extended Dimension Functions	Model dimensions can be increased or decreased very quickly with the mouse in a defined increment in the graphics window.	7.0.2.0

Extension module (GENIUS TOOLS for Creo)	Description	Release
Copy Component Parameter To Substitution Component Parameter	If a value has been assigned to a component parameter for a part in the master representation, this value can be copied to the component parameter for a simplified part.	7.0.2.0
Toggle Symbol Variants	If a grouped symbol has variants in the first level, you can switch between those variants more quickly.	7.0.2.0
Multibody to Assembly	Converts multiple bodies into assemblies (Creo Advanced Assembly Extension (AAX) is required.)	8.0.0.0 - 12.0.2.0
Work Dir Manager	Automatically collects all directories used during the work process and enables the current working directory to be changed quickly.	8.0.0.0
Full Backup	Quickly backs up the current model with all dependent data.	8.0.0.0
Command Control	Creo Parametric ribbon commands / commands can be hidden or deactivated.	8.0.1.0
Feature Regeneration Profiler	Regenerates models and displays regeneration times for each feature.	10.0.1.0 - 12.0.2.0
Create offset point and offset coordinate systems	Creates a coordinate system at the same location (point, corner point, or coordinate system) within a part or assembly, but with reference to a newly selected reference coordinate system.	12.0.0.0
Stack Note	Imports notes from a multilingual database; the selection of notes is summarized in a note table and can be placed next to a drawing.	12.0.1.0

Extension module (GENIUS TOOLS for Creo)	Description	Release
Split Table	Splits a table so that it is placed to the right or left of it and can be repositioned.	12.0.1.0
Inspect Instance Note	Inspection symbols and notes can be selected to add a note. This shows which inspection symbols belong to the respective pattern.	12.0.1.0
MBD Info	Shows an overview of the annotations available in the combined views.	13.0.0.0
Set Component Combined View	In assembly mode, sets the combined views of the components.	13.0.0.0

6.2 What's new in release 13

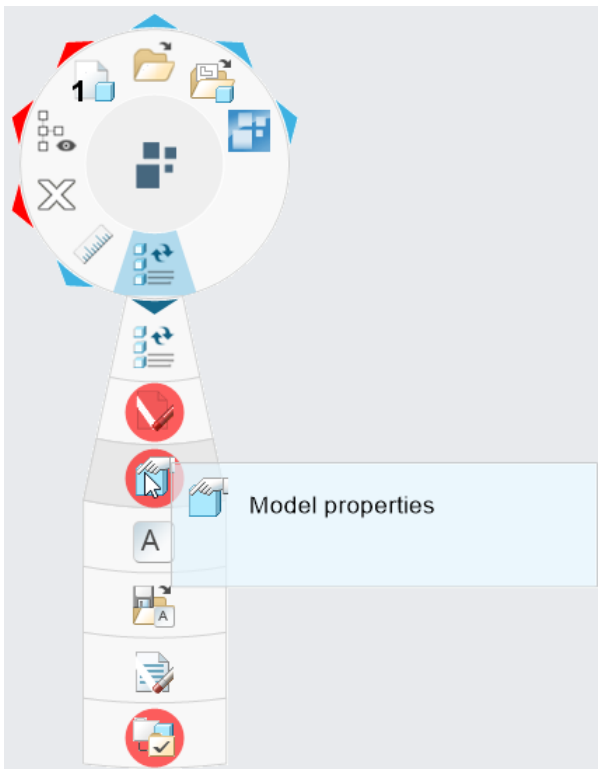
The following functions have been added to the GENIUS TOOLS add-on applications for Creo that are contained in the products GENIUS TOOLS Library and GENIUS TOOLS Parameter and GENIUS TOOLS MBD for ISO GPS.

Please note: If you would like to search for functions of a module across releases, enter the name of the module in the search window in the **Update Advisor** (<https://updateadvisor.inneo.com>). The Update Advisor also lists all changes to configuration options and files in the supplied data packages.

6.2.1 Quick Access

Quick Access: Searching for elements (13.0.0.0)

You can search for elements in *Quick Access*. Enter the letters you are looking for, e. g. "mo", "model". Categories containing search results will be highlighted in red. Click on an arrow to view the search results it contains, which are also highlighted in red. For clarity and performance reasons, only one category can be expanded at a time.

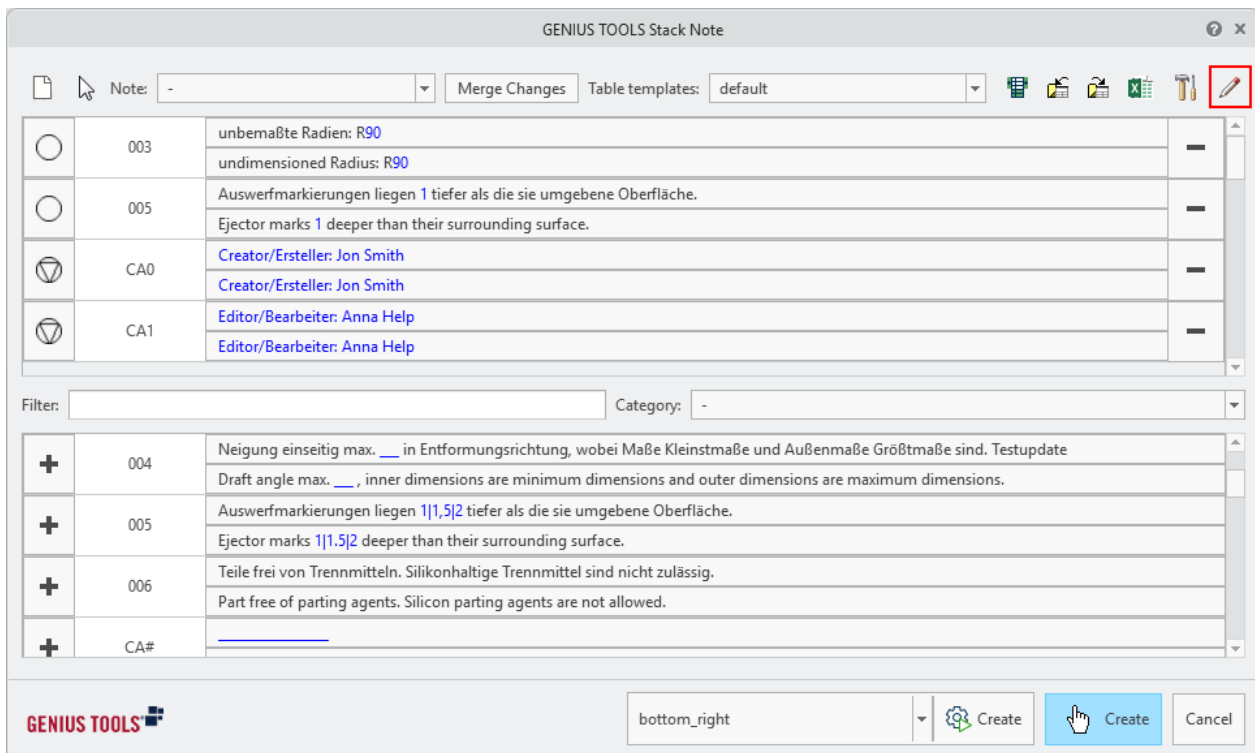


Results for the sample search for "mo"

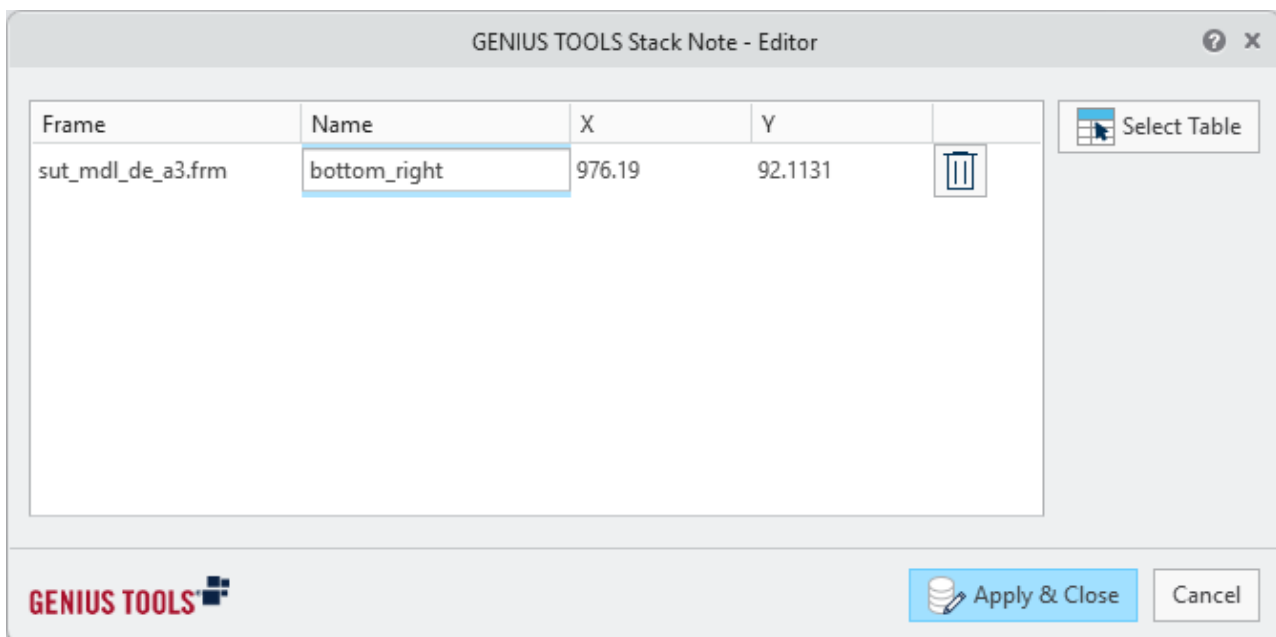
6.2.2 Stack Note

Stack Note: Editor available (13.0.0.0)

An Editor is available for *Stack Note*. Use the Editor to select sample tables that have been placed in order to read their positions and reuse them.



Click on the pencil icon  in the toolbar to open the Editor.



Editor with one specified position

6.3 Configuration options

The following configuration options have been added, changed or deleted since version 13.0.0.0.

6.3.1 New configuration options (13.0.0.0)

Parameter: New configuration options

gtp_ignore_start_gtp_after_model_creation

Defines the submodel types, separated by comma, that should not start GENIUS TOOLS Parameter after model creation.

– sub model types:

- part_solid, part_composite, part_sheetmetal, part_concept_model
- asm_design, asm_interchange, asm_intchg_subst, asm_intchg_func, asm_class_cav, asm_verify, asm_procplan, asm_ncmodel, asm_class_scan_set, asm_figure, asm_ext_simp_rep, asm_configure_asm
- mfg_ncasm, mfg_ncpart, mfg_expmach, mfg_cmm, mfg_sheetmetal, mfg_cast, mfg_mold, mfg_dieface, mfg_harness, mfg_procplan, old_reg_mfg
- bulk, regen_backup, manikin_top, manikin_seg, ce_solid, creo_intrch, creo_cnf_factory, ecad_asm, ecad_board_part

Stack Note: New configuration option

gtsn_placement_DB

Defines the file name for the placement database.

gtsn_note_database_external

Defines the file path to the database that contains the additional note elements.

gt_start_stack_note_editor

Defines whether GENIUS TOOLS Stack Note Editor can be started by users . (0 - No, 1 - Yes)

7 Contact details

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