

GENIUS TOOLS[®] 

Startup TOOLS

Release 9.0.0.0

Release information

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
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1 Important information

Multi-CAD support changes folder structure: no recovery of old version possible

With Startup TOOLS 9.0.0.0 you can, in addition to Creo Parametric, now also start projects in Creo Elements/Direct with GENIUS TOOLS Starter – the configuration component of Startup TOOLS. The entire folder structure has been changed so that data can be included for other CAD systems in the future. These changes affect all areas, including the configuration, additional applications and the data needed within application.

Warning: Due to these new features in GENIUS TOOLS Starter, the folder structure and the software are no longer backward compatible, i. e. after updating an operating environment to version 9.0.0.0 or newer, you cannot revert to an older version.

Be sure to read the chapter [GENIUS TOOLS Starter > Important Information](#)  for important steps during an update. The update is performed automatically with GENIUS TOOLS Environment Administrator 9.0.

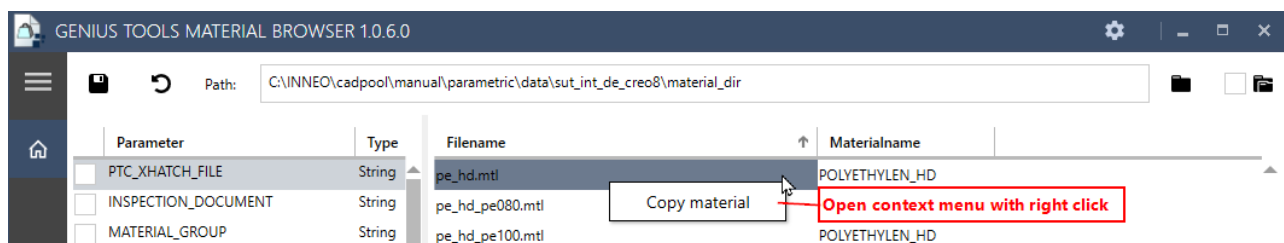
2 New features


You can find more information about multi-CAD support as well as new functions in the chapters [GENIUS TOOLS Starter](#)⁹.

New features for the Creo add-on applications are described in [GENIUS TOOLS for Creo](#).¹⁹

GENIUS TOOLS Material Browser: copying material files (Version 1.0.6.0)

You can copy material files (MTL files) with the freeware GENIUS TOOLS Material Browser by right-clicking on a file. The copied file will be stored under a new name in the same directory and with the same properties.



The application is started with the file *GT_Material_Browser.exe*, which is located in the Caddepot under *serveronly\tools\freeware_gt_material_browser*. After that the icon  appears in the command bar of the Editor of GENIUS TOOLS Material Selection.

GENIUS TOOLS Material Browser (Version 1.0.6.0)

With the new function *Select global.dmt*, accessed via the user menu, the file *global.dmt* can be selected, which contains the appearances for materials. These can then be assigned to the material files from a list.

PTC_DEFAULT_APPEARANCE	PTC_APPEARANCE_1	PTC_APPEARANCE_2
glas		
gold		
polierter stahl		
kupfer		
titan		
eisen		
stahl		
aluminium		
bronze		
messing		
magnesium		
pvc		

Please note: For the material parameters PTC_DEFAULT_APPEARANCE, PTC_APPEARANCE_1, PTC_APPEARANCE_2 etc. to be filled with values, they must be contained in at least one material file.

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](#)⁹ and [GENIUS TOOLS for Creo](#)¹⁹ respectively.

4 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 (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.		

	GENIUS TOOLS Starter
Operating satellites using GENIUS TOOLS Starter Service	<p>Communication port for REST API on installation computer and satellites. Standard: 8092</p> <p>Satellites need the same storage space as the installation computer.</p>

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

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*.

5 GENIUS TOOLS Starter

GENIUS TOOLS Starter is the new 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.

You do not have to install GENIUS TOOLS Starter on the application computers. The clients only have to provide storage for the synchronized copies.

The local GENIUS TOOLS Starter App will update automatically from the central Caddepot directory.

The combination of a local application with a centrally-managed configuration is called a project. Whether a project is visible to a user is determined by the client setup as well as user permissions in GENIUS TOOLS Starter.

Example project contents

- Creo release
- Startkey
- *config.pro*
- *.iu
- Batch files
- Additional applications
- Files
- Drawing frames, symbols, UDF

All projects and data are managed within a operating environment. A operating environment corresponds to an individual Startup TOOLS installation from a prior version. 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. The GENIUS TOOLS Starter App is the interface for the user, who can start the projects configured by the administrator.
- GENIUS TOOLS Project Configurator. 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. GENIUS TOOLS Environment Administrator is the tool for the administrator to manage operating environments.

5.1 Important information

New folder structure after update: No recovery of old version possible

In addition to Creo Parametric, configured projects can now be created with Creo Elements/Direct. The entire folder structure has been changed so that data can be included for other CAD systems in the future.

Warning: Due to these new features in GENIUS TOOLS Starter, the folder structure and the software are no longer backward compatible, i. e. after updating an operating environment to version 9.0.0.0 or newer, you cannot revert to an older version. Because of these changes the update process takes longer than usual.

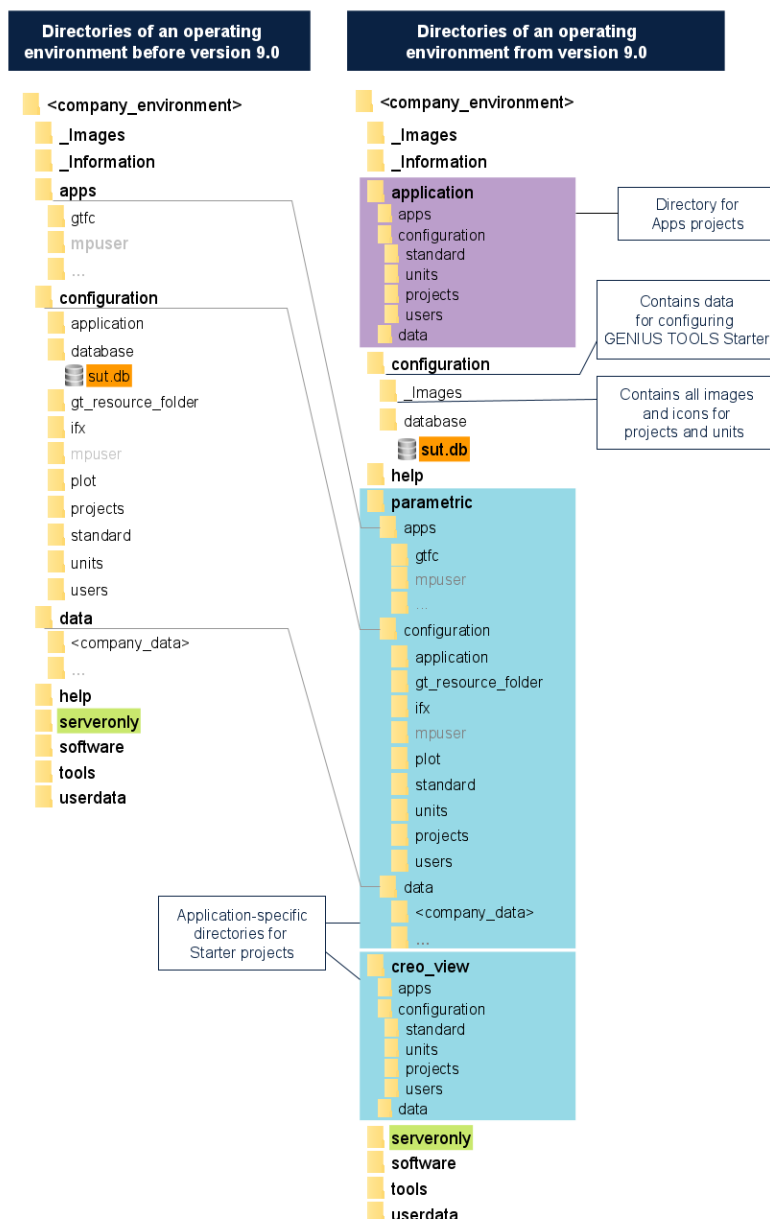
These changes affect all areas of the software, including the configuration, additional applications and the data needed in an operating environment. Directories as well as individual files have been moved to different locations and existing variables have been changed to new variables in all types of files (config*.pro, *.bat, protk*.dat, sut.db etc.).

The update is performed automatically with GENIUS TOOLS Environment Administrator 9.0.

Important steps for the update

1. Before updating the software, create a backup:
 - of all operating environments that are to be converted
 - of the Installdpot, especially the folders *gtsa-latest* and *gts-service-latest*
2. If you use Apps projects:
 - The update function GENIUS TOOLS Environment Administrator tries to copy all directories or files from the original *.\apps* or *.\data* directories to: *\application\apps* and *\application\data*
 - The original data is located under *.\parametric\apps* and *.\parametric\data* after an update and must be removed manually from these directories. Check carefully before removing them!
3. Be sure to run the update in a test environment first and check the configurations.
4. Take note that the update process takes longer than usual.
5. Check all Apps projects carefully after the update!

Overview of the changes in the folder structure



Modified and newly created environment variables

1. The variable GTS_DATA has been changed to find the selected application-specific data package directory. The path has been changed from

<Caddepot>\<operatingenvironment>\data\<company-data>

to

<Caddepot>\<operatingenvironment>\parametric\data\<company-data>

2. The GTS_PROJECT_DIR variable has been changed to always find the selected application-specific project directory. The new path is

`<Caddepot>\<operatingenvironment>\parametric\configuration\projects\<projectname>`

The previous value (the name of the project directory) is now contained in the new variable GTS_PROJECT_DIR_NAME.

3. There are two new variables:

GTS_CONFIGURATION_DIR points to the selected application-specific configuration directory.

GTS_APPS_DIR points to the selected, application-specific add-on application directory.

During an update, GENIUS TOOLS Environment Administrator 9.0 automatically converts the existing variables to the new variables in all files.

Auto projects only available with subscription license

An auto project (e.g. Keyshot) can now be configured in the levels standard, unit, project and user. There is a new directory structure for each auto project as well as one project directory. Due to this extended functionality, auto projects are only available with a subscription license.

Different functionality depending on license type

Starting with version 6.0.1, perpetual licenses and subscription licenses come with different product functionality. The following functions will only be available with a subscription license.

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

Release	Subscription function / module	Description
6.0.1.0	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.

Release	Subscription function / module	Description
		<p>⇒ Easier configuration for companies with many sites and/ or units</p> <p>⇒ Allows for a reduction of projects</p>
6.0.1.0	Access to directory "users"	<p>Adds a group element ("users") that can easily reflect complex configurations for many users.</p> <p>⇒ Less maintenance work</p>
7.0.0.0	Selecting Creo startkey when starting a project	<p>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.</p> <p>⇒ Allows the reduction of projects</p>
7.0.0.0	Apps projects	<p>Creates projects that run on any other program. Assigning a project directory and batch files is possible.</p> <p>⇒ GENIUS TOOLS Starter App can be made the central access point for users.</p>
7.0.1.0	Operating satellites in GENIUS TOOLS Starter Service	<p>Enables the connection of satellite servers to a main server and their automatic synchronization.</p> <p>⇒ Faster connection of user computers to a synchronized satellite server</p> <p>⇒ Reducing queries from network to main server</p>
7.0.1.0	Edit and compare config.pro blocks	<p>Release-dependent config.pro editor and graphic comparison tool</p> <p>⇒ Quick overview, comparison and editing of project-related config.pro blocks (config_*.pro files)</p>
7.0.2.0	Company-specific project collections	<p>Start projects can be put together in defined project groups by the administrator.</p>

Release	Subscription function / module	Description
		⇒ In many projects, these can be structured according to your own requirements.
8.0.0.0	Selectable project options	Projects can be started with multiple, individually defined config.pro blocks, e. g. for license extensions or additional programs.
8.0.1.0	Reproducing organization structure with units and subunits	<p>Subordinate units (subunits) can be created to provide additional configuration levels for project settings.</p> <p>⇒ Better mapping for locations, subunits etc. and the resulting complex project configurations</p> <p>⇒ Allows for further reduction of projects</p>
8.0.1.0	Combined project options	<p>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.</p> <p>⇒ Number of projects can be minimized</p>
8.0.2.0	Edit config.pro files in GENIUS TOOLS Config Editor	<p>Creo configuration options can be edited faster with auto-completion and color coding.</p> <p>⇒ Easier comparison and editing of configuration options, also in batch mode.</p>
9.0.0.0	Auto projects	<p>Settings for auto projects (e. g. Keyshot) can be specified for the configuration levels standard, unit, project and user.</p> <p>⇒ Company-specific configurations possible</p>
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.

Release	Subscription function / module	Description
		⇒ Projects for an additional application

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 9

Configuration hierarchy introduced for all projects

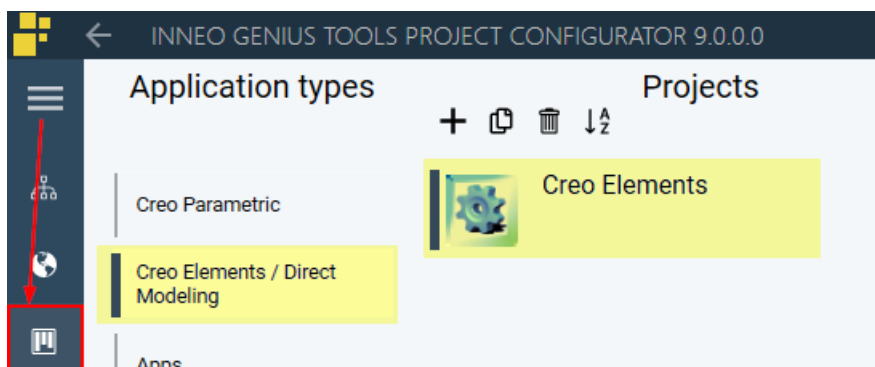
Auto projects and Apps projects can now be configured, like Creo Parametric projects, for various levels, i. e. for system-wide settings (standard) as well as for units, projects and users.

Migrating operating environment from Creo Elements/Direct Modeling

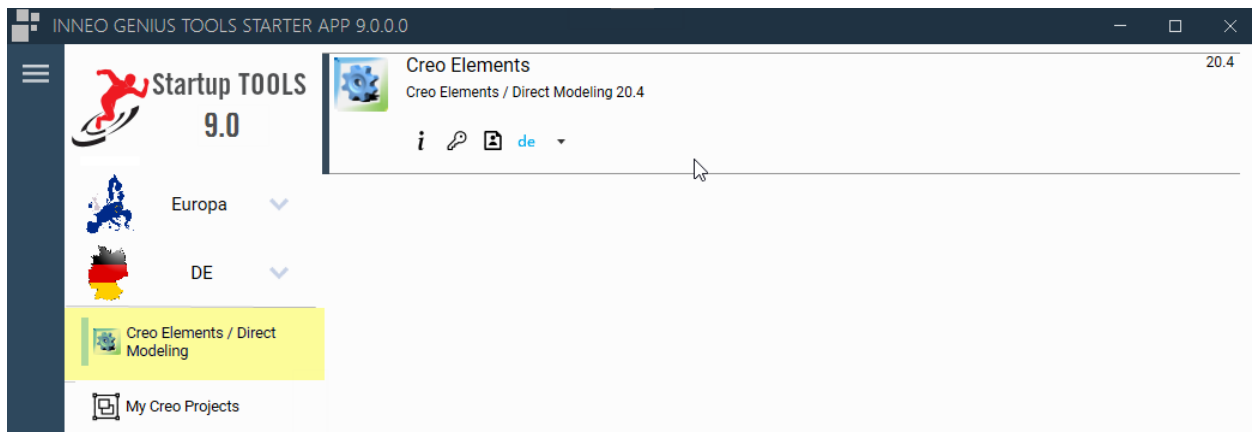
You can transfer environments for Creo Elements/Direct Modeling projects that were configured with the Power Extensions add-on application to an existing GENIUS TOOLS Starter operating environment. This allows you to configure these projects in the same way as Creo Parametric projects, that is, to define settings for different levels (standard, units, projects and users).

The migration is executed by using GENIUS TOOLS Environment Administrator, which creates a directory named *elements_direct* in the existing operating environment, as well as the subdirectories *apps*, *configuration* and *data*. Existing configuration and data packages are transferred to this directory structure.

During migration, you can create a project that will be created under *elements_direct/configuration/projects* and will thus be visible:



in GENIUS TOOLS Project Configurator under Projects >
Application types > Projects



in GENIUS TOOLS Starter App

New environment variables

GENIUS TOOLS Starter supports the following new variables:

GTS_EXECUTION_DIR

Points to the directory which contains the executed file (*.exe, *.bat, *.pdf).

GTS_WORKING_DIR

Points to the working directory.

GTS_TEMP

Points to the temp directory.

New user interface

GENIUS TOOLS Project Configurator

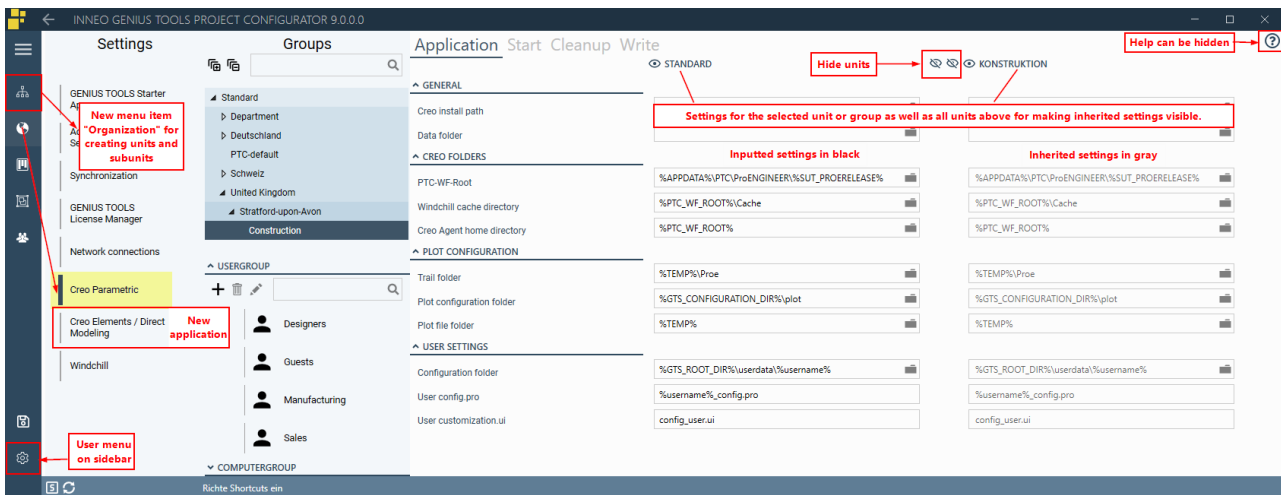
In the main menu Configuration under Settings you can now not only view the settings for a chosen unit or group but also for the configuration levels above, according to the hierarchy for configuration settings (standard, unit, project, user).

The Project page includes a button for the newly available application Creo Elements/Direct Modeling.

Units are created in the new main menu item Organization. The menu item Access Rights is omitted, as these rights are now entered directly in a role.

GENIUS TOOLS Starter App / GENIUS TOOLS Project Configurator

The user menu has moved from the top to the left side of the dialog window.



GENIUS TOOLS Project Configurator: Read-only mode

To avoid that several users can make changes to the database of GENIUS TOOLS Project Configurator the application can now only be used by one person. All others receive a note about the user who has accessed GENIUS TOOLS Project Configurator and can open the application in read-only mode.

When opening GENIUS TOOLS Project Configurator, a lock file is written to the database directory (*Caddepot\<operatingenvironment name>\configuration\database*), which is deleted again when closing the application.

Please note: Make sure to close GENIUS TOOLS Project Configurator with the exit function to delete the lock file.


GENIUS TOOLS Project Configurator: Project and function access groups omitted

The user rights for functions in GENIUS TOOLS Starter App ("Function Access") as well as for restrictions to projects ("Project Access"), which were previously defined in function access and project groups, are now directly specified in a role in the newly created tabs Function and Project Access. The two type of groups as well as the main menu item *Access Rights* thus no longer exist. Settings from existing project and access rights groups are automatically transferred to the role that was assigned to the group.

GENIUS TOOLS Project Configurator: New access rights

Users can be granted these two access rights in the *Function Access* tab of a role:


1. Ability to open Config.pro files with a double click in the Config tab of the GENIUS TOOLS Starter App.

2. Place private Config.pro file in the userdata directory on the server. (The paths are specified in the User Settings dialog box of the Creo Parametric settings). If a file exists, the icon  appears in the section Private Config.pros.

GENIUS TOOLS Project Configurator: License server specifications for units and groups

Specifications for license servers can be made on group and unit level. Go to the GENIUS TOOLS License Manager settings in the Configuration page. Changes are applied at runtime.

GENIUS TOOLS Config Editor: Compare configuration option of two versions (9.0.0.0)

In the new menu item *Compare versions*  you can view the configuration options whose default values have changed from one version to another as well as the configuration options that were added and deleted.

6 GENIUS TOOLS for Creo

The following section contains information on news in GENIUS TOOLS for Creo.

6.1 Important information

License-dependent functions

The following functions are limited to subscription licenses for either GENIUS TOOLS Library or GENIUS TOOLS Parameter.

Function / module	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 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 or otherwise modified thereafter.	7.0.1.0
CS Assembler	Automatically adds a number of components to an assembly by deploying a coordinate system (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

Function / module	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 these 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
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	With Command Control, Creo Parametric ribbon commands / commands can be hidden or deactivated.	8.0.1.0

GENIUS TOOLS Assembly Report: Need to modify export templates (8.0.2.0)

The export function has been revised and now reads in parameters for report tables that contain a specific acronym for each GENIUS TOOLS component. Hence, to use export templates in GENIUS TOOLS Assembly Report header and report parameters must contain the acronym *gta*. For existing templates, change the parameters in the comment fields by prefixing each parameter with the abbreviation *gta*.; e.g. change *%head2%* to *gta:%head2%*.

Updating GENIUS TOOLS Library database from version 1.8 to version 1.9 (8.0.2.0)

To use the new feature, which allows for the exclusion of parameters and dimensions from the search index, the GENIUS TOOLS Library databases must be updated to version 1.9. Note that updating GENIUS TOOLS Library Data Importer changes the interface from

Simple REST to ODATA REST in the WT area and therefore the XSLT must be adjusted accordingly.

GENIUS TOOLS Assembly Report Editor: Change of data type is passed to component parameters (8.0.2.0)

The data types of component parameters are updated as specified by the report definition. This means that if you change the type of a component parameter in GENIUS TOOLS Assembly Report Editor, for example from *String* to *Integer*, this will result in changes to the component parameter. This is useful to unify differently created data types, e. g. for Windchill.

Changing from String to Integer may result in data loss, e. g. the text input "x 10" will be replaced by "0" and "50.00 x" will be replaced by 50.

You can disable this behavior with the configuration option `gta_update_component_parameter_type=0`. More information here.

6.2 What's new in release 9

6.2.1 GENIUS TOOLS Assembly Report

Configuring CSV export (9.0.0.0)

When exporting assembly reports to CSV you can now configure the separator symbol and the BOM coding with the options that also configure *GENIUS TOOLS Export Table to CSV*: `gtu_table_to_csv_export_sep`, `gtu_table_to_csv_write_file_as_utf8`, `gtu_table_to_csv_write_file_as_utf8_with_bom`.

Editor: New type of report parameter "Parent model parameter" (9.0.0.0)

A report parameter of the type Parent model parameter – specified under *Key* in the *Details* section – reads a model parameter from the parent model. This type of report parameter is useful for filtering out subcomponents from an assembly report, e. g. if purchased parts are to be displayed without their subcomponents.

Editor: New type of report parameter "Is embedded" (9.0.0.0)

The new report parameter "Is embedded" can be used for the display of the assembly report. The parameter checks whether a model in an assembly is embedded.

Editor: Filtering out subcomponents (9.0.0.0)

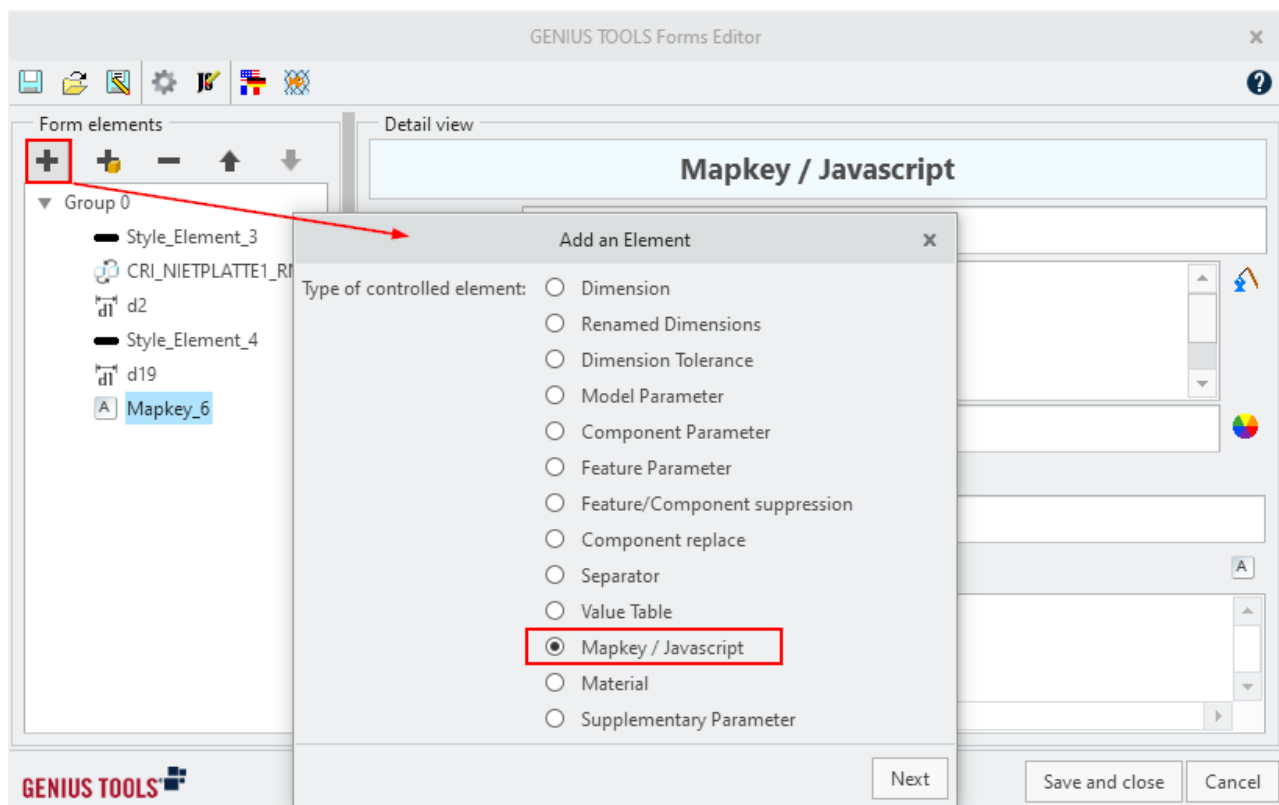
The filter conditions – in the tab *Table attributes* – that exclude assembly components from the assembly report can now be extended to also include their subcomponents, without checking the filter conditions on these subcomponents. This is useful, for example, to display purchased parts without their subcomponents. (To do so, use the new report parameter type *Parent model parameter*.)

Recursive filtering is only relevant for the display mode *List*, e. g. quantity BOMs. In the *Structure* display mode, subcomponents of assembly components that have been filtered out are not displayed.

6.2.2 GENIUS TOOLS Forms


Execute Javascript function with a form element (9.0.0.0)

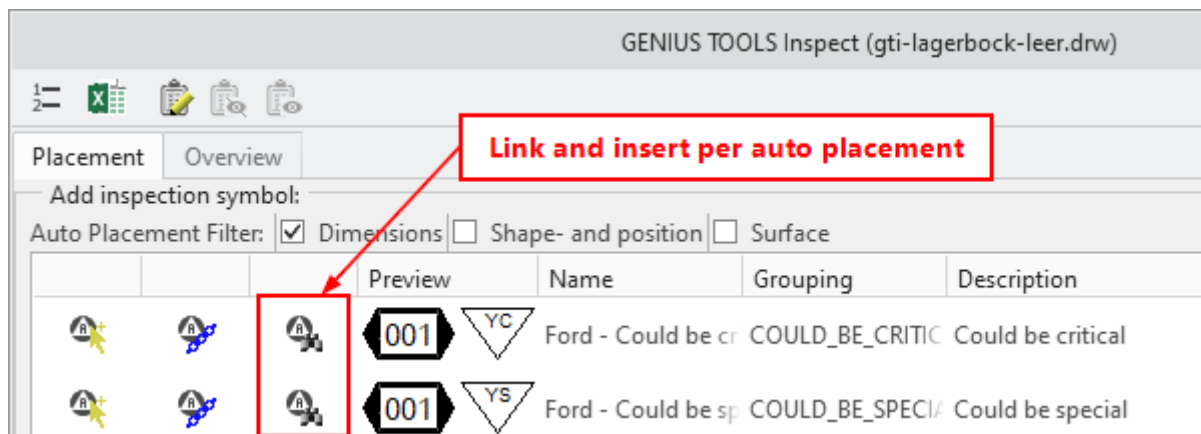
In GENIUS TOOLS Forms Editor you can create a button that executes Javascript code. Use the form element *Mapkey / Javascript*.



6.2.3 GENIUS TOOLS Inspect

Place and link inspection symbols automatically (9.0.0.0)



Inspection symbols can be automatically placed on selected drawing elements (dimensions, form-location tolerances and surfaces) by clicking the new button . Elements which are already linked to the selected inspection symbol are not re-linked. GENIUS TOOLS Inspect checks whether the SYM file of the selected inspection symbol matches the existing inspection symbol.



This option is made available to users in GENIUS TOOLS Inspect Editor in the Inspection Symbols and Tables tab under Inspection symbols > Details > Actions.

Default text in numbering tables (9.0.0.0)

In GENIUS TOOLS Inspect Editor, a placeholder for empty cells can be inserted for numbering tables, e. g. <Empty> in the image below. Go to the Inspection Symbols and Tables tab to the section Tables > Table type > Placeholder.

Function related classification		Inspection No.
Symbol	Critical Feature	1
	Hazardous to human beings	
Symbol	Main feature	<Empty>
	Restricted functionality, reduced output/performance	
Symbol	Standard feature	all other quality parameter
	no direct effect on functionality	

Creo table for numbering table

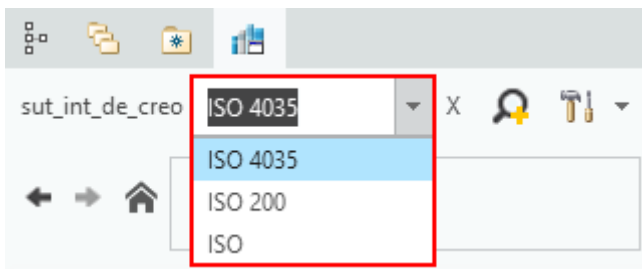
6.2.4 GENIUS TOOLS Library

Direct search function behaves differently (9.0.0.0)

The direct search is now conducted firstly in the currently selected category, i. e. when first clicking *Enter*. The previous behavior that searches the whole library is conducted after a second click on *Enter*. You can restore the previous behavior by setting the newly introduced configuration option *gtl_search_tree_dependent* to 0. (Default is 1, enabled)

When changing the search term, the direct search function starts again in the selected category.

Additionally, all searched terms of a Creo session are now visible in a dropdown list.



Search history of current Creo session

Automatic start of GENIUS TOOLS Parameter when creating new models (9.0.0.0)

The GENIUS TOOLS parameter dialog box can be set to open automatically after creating a new part, assembly or drawing, by listing the desired file types in the *gtp_start_gtp_after_model_creation* configuration option, separated by commas. The parameter dialog does not open if you create a new file and insert it into an assembly in one step.

Filter instances in preview window by object status (9.0.0.0)

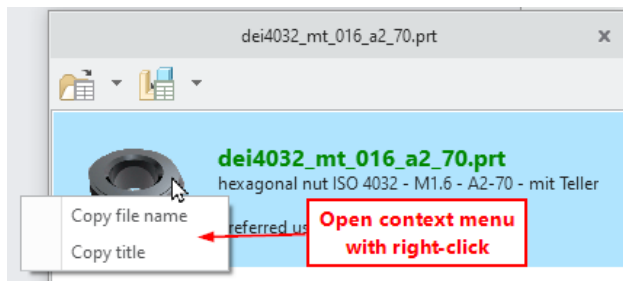
The selection tab of the preview window allows to search instances by object status filter. The pre-selection of the checkboxes is based on the selection in the object status filter in the tool menu. However, the selection set here does not affect the object status filter.

The object status can be displayed in the information area with the configuration option *gtl_detail_window_show_status_in_head_area=1*.

You can change the text for the description of the status, such as *avoid usage*, by using the configuration options *gtl_<StatusColor>_text*.

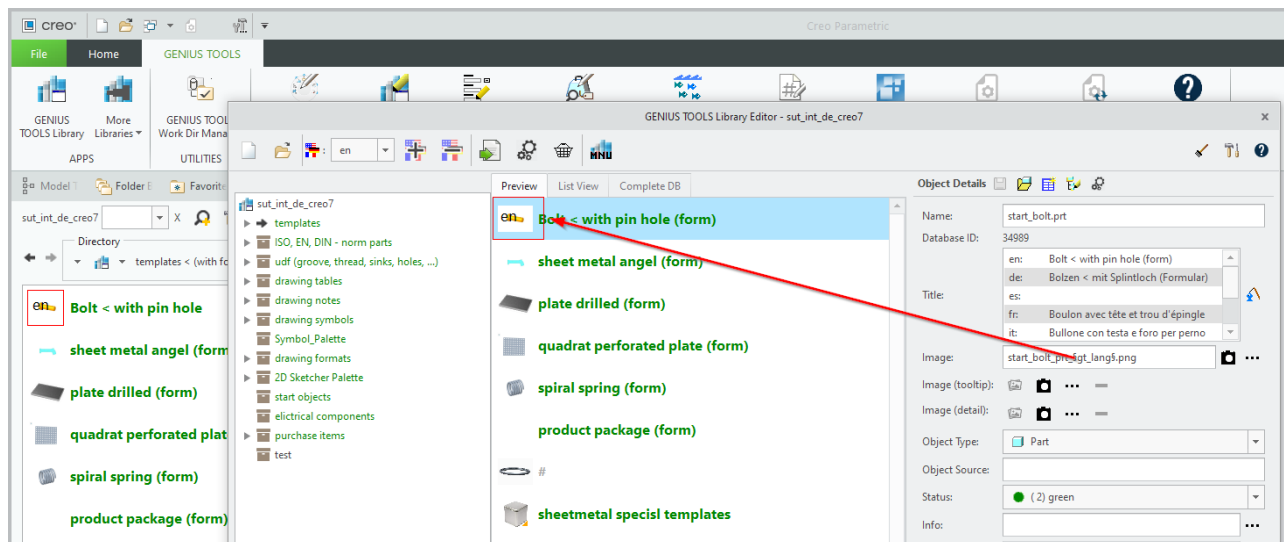
Copy file name and title (9.0.0.0)

In the detail window you can right-click to open the context menu for copying the file name and title to the clipboard.



Show preview picture dependent on language (9.0.0.0)

You can display images for object display ("preview pictures") language-dependently by adding to the image file a language abbreviation, which is output by the variable `gt_lang`, and specifying the variable in GENIUS TOOLS Library Editor in the notation `gt_lang` in the name of the file. If no file with the specified language abbreviation is found, the default file, i. e. the file without abbreviation, is displayed.



Insert tables into drawing frame (9.0.0.0)

Tables that are library objects can now be added to a drawing frame (FRM) with the action *Insert*.

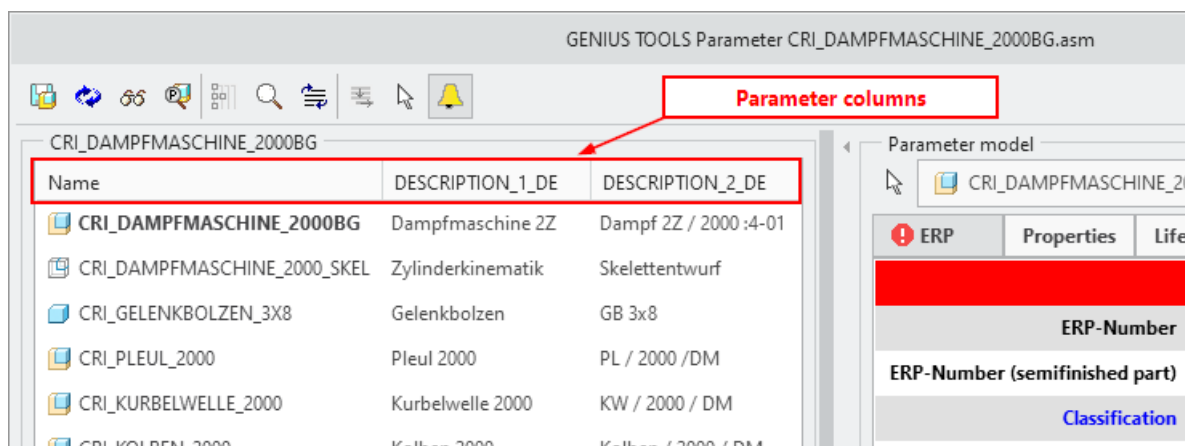
6.2.5 GENIUS TOOLS Parameter

Automatic start of GENIUS TOOLS Parameter when creating new models (9.0.0.0)

The GENIUS TOOLS parameter dialog box can be set to open automatically after creating a new part, assembly or drawing, by listing the desired file types in the *gtp_start_gtp_after_model_creation* configuration option, separated by commas. The parameter dialog does not open if you create a new file and insert it into an assembly in one step.

Better display of parameter columns (9.0.0.0)

The option *gtp_model_tree_column_width* allows you to specify the width of additional parameter columns, measured in the Windows standard width for a character. The default value is 10. You can add additional columns for parameters by entering the parameters needed, separated by comma, into the existing configuration option *gtp_model_tree_columns*.



Additional columns for the parameters DESCRIPTION_1_DE and DESCRIPTION_2_DE

Support for imbed models added (9.0.0.0)

GENIUS TOOLS Parameter now supports imbed models.

6.2.6 GENIUS TOOLS Quick Access

Background image in ring menu must not be updated manually with new path setting (9.0.0.0)

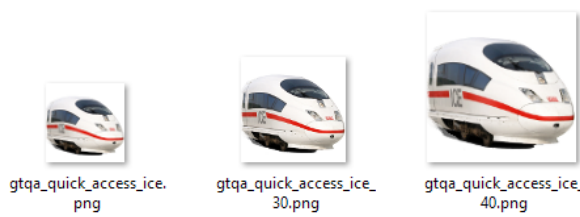
Specifications for the image file that can be placed in the center of the ring menu can now be made in the configuration option `gtqa_background_picture` by pointing to an image directory with the following path:

`<GT_RESOURCE_FOLDER>\quick_access\img_background\<imagename>.`

By using this directory, the user-specific image files – for example, the company logo or to indicate which project a user is currently in – are preserved when GENIUS TOOLS for Creo is updated. The directory must be created manually and named `img_background`.



> parametric > configuration > gt_resource_folder > quick_access > img_background



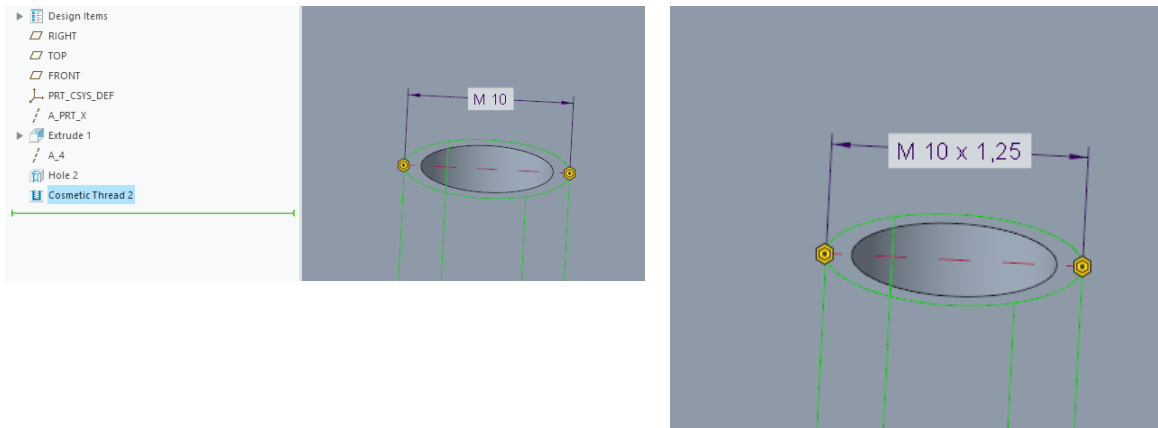
For entries with the above path or the path `<GTfC_install>\text\resource\<image name>`, the background image is also searched for a size-dependent version: At zoom level 1.4 - 1.8, the medium size file (`<image name>_30.png`) is used. For zoom level greater > 1.9, the large file (`<image name>_40.png`) is used.

You can save the image files at other locations but the zoom levels are not regarded there.

6.2.7 GENIUS TOOLS Utilities

Show pitch: available for thread features (9.0.0.0)

The Show Pitch function can now also be used for internal and external threads that are created with the feature Cosmetic Thread. If there are multiple cosmetic threads on a feature, the user must select a cosmetic thread first.



Display of the dimension before and after using the function Show pitch on an internal thread of a cosmetic feature

Show pitch: variables for fallback (9.0.0.0)

There are two new variables that can be used as a fallback in multilingual environments.

gtu_show_pitch_text_definition_fallback

This value has to be customized for GENIUS TOOLS Show Pitch to work with the set Creo language. The fallback is used if `gtu_show_pitch_check_param` can not be found. The default setting is `M @D x &PITCH:FID_@feat_thread_id@ [.2]`

gtu_show_pitch_check_param_fallback

Defines a language-dependend feature parameter. If defined, it is checked if the parameter is existing.

Export Points: New configurations (9.0.0.0)

There are several new configuration options to define a template.

GENIUS TOOLS Utilities – Create tolerance table

gtu_tol_table_decimal_marker_follow_dtl

Changes the representation of numerical values from period to comma as decimal separator, if the DTL option `decimal_marker = = COMMA` is set. Define, whether the DTL file should be read (1) or not (0). (Default is 1.)

gtu_tol_table_sort_order

Defines, whether the table is sorted in ascending or descending order.

gtu_tol_table_origin_at_bottom_right

Defines the origin of the table and the direction of its buildup (growth direction):

- 0 - The origin of the table is at the top left and it is built to the bottom right.
- 1 - The origin of the table is at the bottom right and it is built to the top left.

Please note: If the table is placed at the bottom of the drawing, reversing the growth direction is helpful. If the table is placed at the top edge, it makes sense to turn the growth direction downwards.

The selected growth direction of the table cannot be displayed in the preview

(gtu_tol_table_creo_insert=1) .

6.2.8 GENIUS TOOLS Value Transfer

New variable for filter list (9.0.0.0)

In the criteria for filters for the search in subcomponents, the new variable `@is_embedded@` can be used. It returns "1" for embedded models, otherwise "0".

6.2.9 Javascript

Support of name generator (9.0.0.0)

The Javascript function *replaceVars* (Replace Variables) supports the name generator.

6.3 Configuration options

The following configuration options have been added, changed or deleted since version 6.0.2.

6.3.1 New configuration options (9.0.0.0)

GENIUS TOOLS Library

gtl_detail_window_show_status_in_head_area

Defines weather the status should be displayed inside the head area of the detail dialog. (0 - No, 1 - Yes)

gtl_search_tree_dependent

Defines weather the complete database or only categories/subcategories get searched. The search in categories doesn't show objects from selections. (0 - No, 1 - Yes)

gtl_gtp_start_gtp_after_model_creation

Defines the model types (prt, asm, drw), seperated by comma, that should start GENIUS TOOLS Parameter after model creation.

GENIUS TOOLS Parameter

gtp_model_tree_column_width

Defines the width of additionally shown parameters in standard character widths.

gtp_start_gtp_after_model_creation

Defines the model types (prt, asm, drw), separated by comma, that should start GENIUS TOOLS Parameter after model creation.

GENIUS TOOLS Utilities – Full Back Up

gtu_full_backup_column_parameter

Defines the name of a model parameter whose content is displayed as an additional column.

gtu_full_backup_default_collect

Defines whether during start of GENIUS TOOLS Full Backup, models are automatically collected or not. (0 - No, 1 - Yes)

GENIUS TOOLS Utilities – Show pitch

gtu_show_pitch_text_definition_fallback

This value has to be customized for GENIUS TOOLS Show Pitch to work with the set Creo language. The fallback is used if `gtu_show_pitch_check_param` can not be found.

gtu_show_pitch_check_param_fallback

Defines a language-dependent feature parameter. If defined, it is checked if the parameter is existing.

GENIUS TOOLS Utilities – Create tolerance table

gtu_tol_table_sort_order

Defines whether the table is sorted in ascending (ASC) or descending (DESC) order.

gtu_tol_table_origin_at_bottom_right

Defines the growth direction and origin of the table. (0 - The origin is at top left and the growth direction is to the bottom right. 1 - The origin is at the bottom right and the growth direction is to the top left.) These configuration affects the table placement with `gtu_tol_table_creo_insert = 0`.

6.3.2 Altered configuration options (9.0.0.0)

GENIUS TOOLS Forms

The following configuration option has been deleted.

gtf_lock_column_resize

Defines, whether the second and third column in GENIUS TOOLS Forms is re-sized automatically, after changing the size of the Forms dialog window. (0 - Yes, 1 - No).

GENIUS TOOLS Quick Access**gtqa_background_picture**

Defines the path or file name of the image that is used as logo in the middle of the ring menu in GENIUS TOOLS Quick Access. The image has to be saved as a PNG file in one of these folders:

PATHS ALLOWED SO FAR: <GTQA_BACKGROUND_PICTURE>

NEW PATHS AVAILABLE:

<GT_RESOURCE_FOLDER>\quick_access\img_background\<GTQA_BACKGROUND_PICTURE>
E>

<GTfC_install>\text\resource\<GTQA_BACKGROUND_PICTURE>

GENIUS TOOLS Utilities

Die following configuration option has been deleted.

gtu_show_pitch_create_relation

6.4 Copyright

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INNEO Solutions GmbH

Rindelbacher Str. 42

73479 Ellwangen

Germany

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7 Contact details

Please don't hesitate to contact us for further information about our products.

United Kingdom

INNEO Solutions Ltd

Wootton Park Business Centre

Alcester Road

Wootton Wawen

Warwickshire B95 6HJ

Phone: +44 (0) 1564 793720

Fax: +44 (0) 1564 793872

Germany (Headquarters)

INNEO Solutions GmbH

Rindelbacher Straße 42

73479 Ellwangen

Phone: +49 (0) 7961 890-0

Fax: +49 (0) 7961 890-177