

GENIUS TOOLS Model Processor

12.0.3.0

Manual

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
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1 Fundamentals

Since 3D models are revised through a constantly growing number of tasks, manual revision is time-consuming and increasingly prone to errors. The products in the GENIUS TOOLS Model Processor series support you in processing large amounts of data for Creo Parametric and complex tasks. The aim is to automate recurring tasks for revising Creo model data. Tasks can include, for example:

- Revision of legacy data
- Create technical data packages (TDP)
- Render models
- Write data from Windchill to models
- Export data with Model Processor Worker Extension

Complex tasks, such as those involved in revising legacy data, can be divided into individual tasks and grouped together in task lists. There are more than 130 tasks available, e.g., parameters, relations, layers, material, units, accuracy, tolerances, verify family tables, views, image generation, color effects, etc. All tasks can be found in the [overview list](#) .

By defining filters, you can control which models and which specifications each task is performed on, see chapter [Introducing filters](#) .

Batch processing simplifies the processing of large amounts of data, for which rules are created in Model Processor.

Find important terms for working with GENIUS TOOLS Model Processor in the [glossary](#) .

1.1 Introducing all products

The GENIUS TOOLS Model Processor product range supports compliance with Creo Parametric model and work guidelines through a standardized implementation specified by the administrator. The individual products can be used in different situations.

These are the functions of the individual products:

Product	Functions
Model Processor Report	Basic component for analyzing model data <ul style="list-style-type: none"> – definition of task lists – batch processing for analyzing model information
Model Processor Rework	Editing model data and saving the modified models in batch mode. With the report license, this can be done without batch mode. <ul style="list-style-type: none"> – contains Model Processor Report – models modified during batch processing can be saved
Model Processor User	User component for executing task lists in Creo Parametric <ul style="list-style-type: none"> – task list processing embedded in Creo Parametric – requires Model Processor Report or Model Processor Rework for generating task lists
Model Processor Worker Extension	PDM component for executing task lists in the Windchill visualization process <ul style="list-style-type: none"> – processing a task list in Windchill Worker – requires Model Processor Report or Model Processor Rework for generating task lists

Please note:

GENIUS TOOLS Model Processor has been revised and is now available with improved user guidance, diverse filters, and numerous additional functions.

	Model Processor			
	Report	Rework (includes Report)	User	Worker Extension
Create model analyses	✓	✓	—	✓
Execute model revisions	—	✓	—	✓
Generate task lists	✓	✓	—	—
Edit current Creo model (Execute predefined task lists)	✓	✓	✓	✓
Edit Creo models in automatically	—	✓	—	✓

(Executing the predefined task lists)

Apply model revisions

(Saving the modified model data)

Windchill connection

User

Report

CAD/PDM
administrators,
system administrators

Rework

CAD/PDM
administrators,
system administrators

User

CAD users

Worker Extension

PDM/PLM
administrators

Create Task Lists

Executing the predefined task lists

Licensing

floating

floating

floating, bound
to Creo session

Node-locked

1.2 Introducing filters

Filters can be applied to all tasks to determine whether a task is executed. A filter decides whether a task is executed or not based on its evaluation. Filters are evaluated before a task is executed:

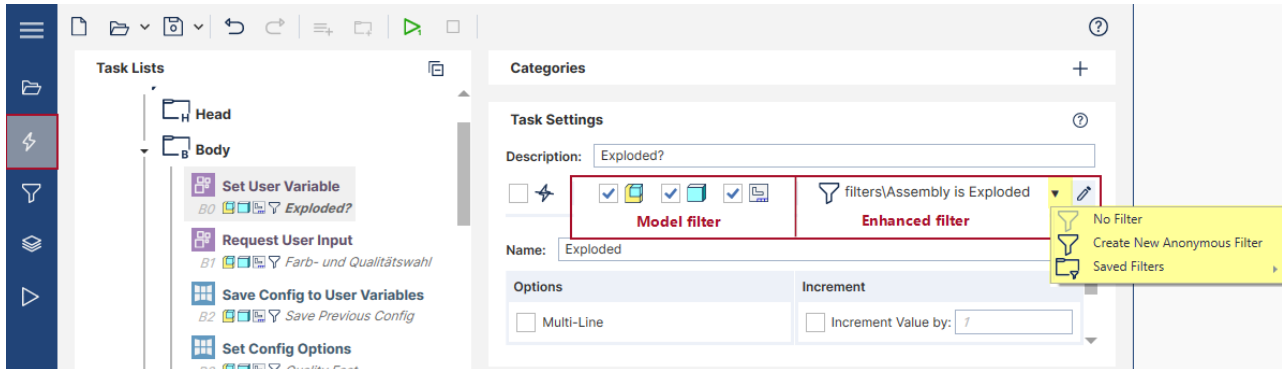
- If the filter result is true, the task is executed.
- If the filter result is false, the task is not executed.

The following applies to filters:

- There are two types of filters: Model filters and enhanced filters.
- The scope of a filter's validity can be: per task list (global), per group, per task.
- Filters are available in the body area, not in the header or footer areas.
- A special type of filter is the Feature filter, which defines the feature to be revised, see [Feature filter](#) ⁵⁰.
- Many filters support regular expressions. Examples are given in the chapter [RegEx](#) ²⁸³.

Types of filters




A distinction is made between model filters and enhanced filters.



Selecting filters in the general task settings


Model filters

Model filters determine the model type to which an task is applied. Model filters are activated using check boxes in the [general task settings](#)^[35]. If the model to be revised is

-  a part, the task is executed.
-  an assembly, the task is executed.
-  a drawing, the task is executed.

Enhanced filters

Enhanced filters allow you to specify conditions under which an task should be executed. There are over [40 filter nodes](#)^[249] that can be used to define enhanced filters. Multiple filter nodes can be combined to differentiate the filter condition more precisely.

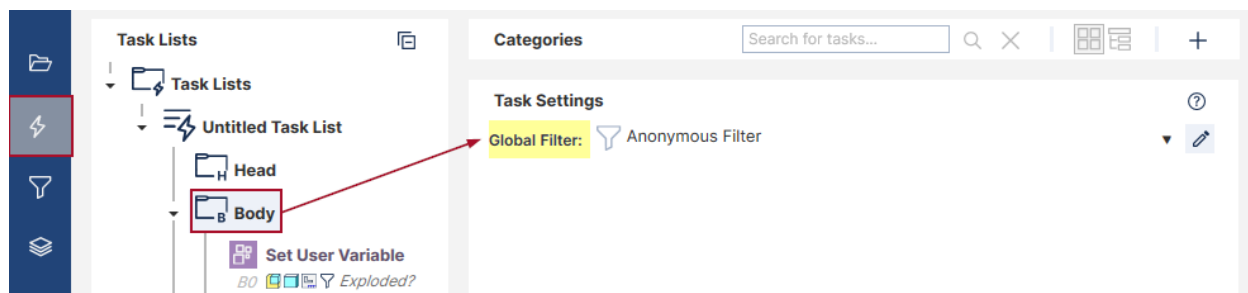
Enhanced filters can be created for a single task (anonymously) or saved for use within multiple tasks. They are created and edited in the Enhanced Filters  menu item in the filter tree. Detailed information can be found in the chapter [Enhanced filters](#)^[40].

Scope of validity

Filters can be set globally (per task list), per group, or per task.

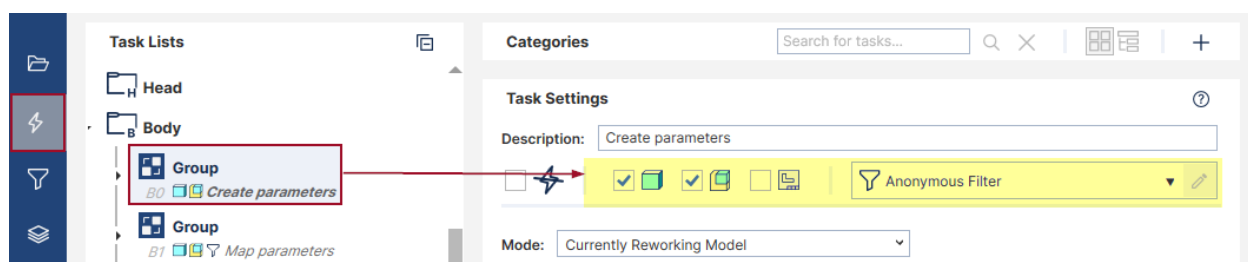
Global filters

- Enhanced filters that apply to all tasks in the task list.
- Created in the task settings of the folder *Body*.



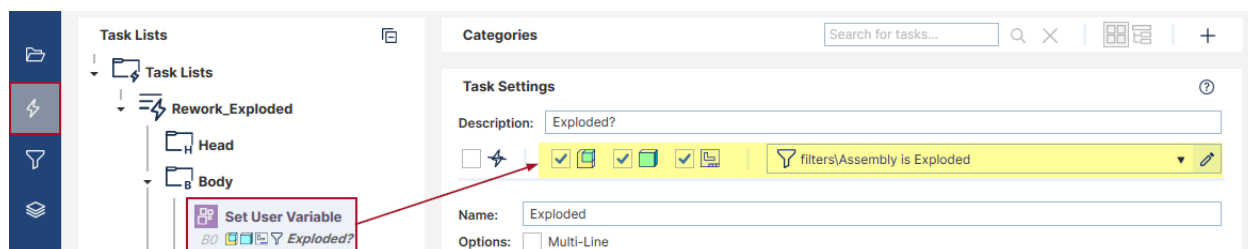
Group filters

- Model filter or enhanced filter that applies to all tasks in the group, see chapter [Combining tasks in groups](#).



Task filters

- Model filters or enhanced filters that apply to the selected task.
- Created in the task settings of a task.



The two filter types can be used as follows:

Scope of validity	Filter type	
	Model filter	Enhanced filter
For a task list (Global filter)	—	✓
For a task group (Group filter)	✓	✓
For a task (Task filter)	✓	✓

2 Usage






The aim of GENIUS TOOLS Model Processor is to automate recurring tasks for revising model data.

You define each work step that you want to automate in a **task** using GENIUS TOOLS Model Processor. A task is a Creo function that is executed on different models.

Tasks are grouped into **task lists** and processed in the order specified there.

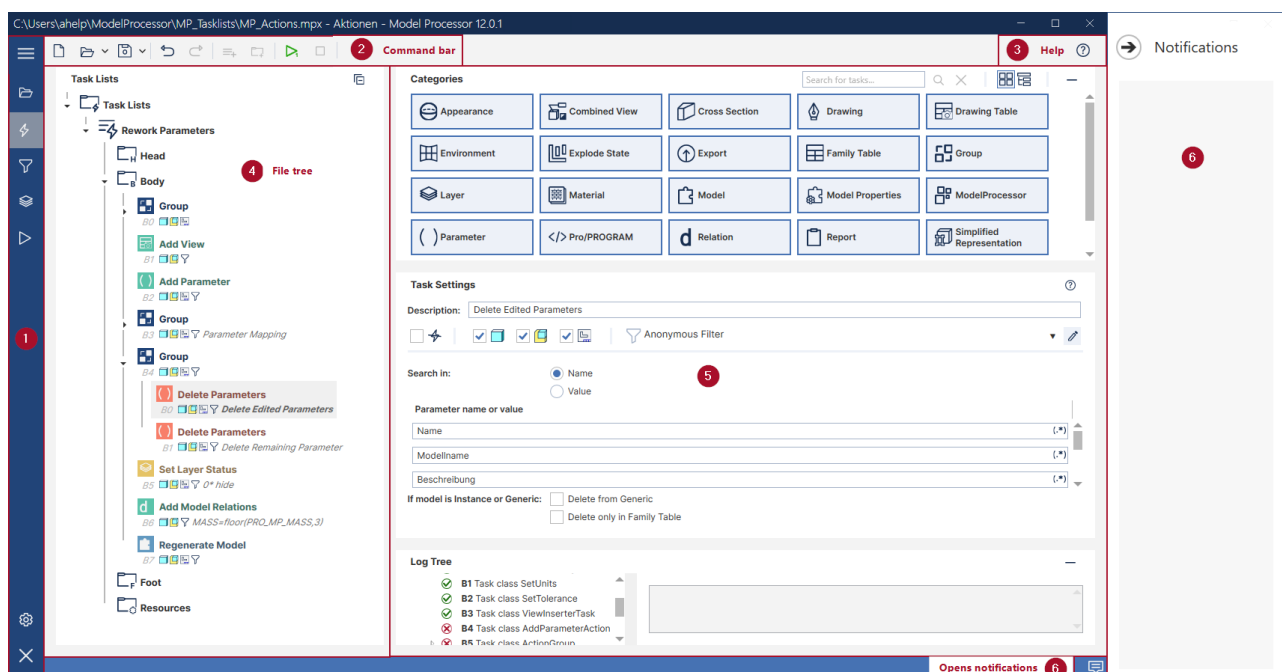
You can use **batch mode** to automatically revise models and write the model information they contain to CSV files, for example.

The Model Processor user interface specifies the workflow for creating and executing task lists in its menu items:


-  [Create project](#) 23
-  [Create task list](#) 34
-  [Creating filters](#) 44
-  [Configure batch mode](#) 61
-  [Execute task list](#) 72

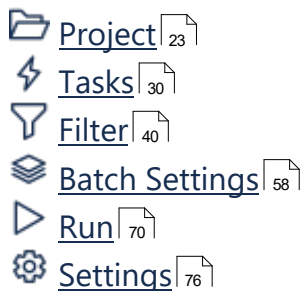
2.1 User interface

The user interface of *Model Processor* consists of the following sections:



1. Menu bar

Expand the menu bar by clicking the menu icon  to see the descriptions of the icons:



2. Command bar

Contains different commands depending on the selected menu item. They are listed in the respective subchapters.

3. Help

Opens the matching chapter in the help.

4. File tree

The display varies for task lists, filters and batch lists.

5. Categories and task settings

The display varies for task lists, filters and batch lists.

6. Notifications

Indicates if messages are available. Clicking on the speech bubble opens the messages page.

2.2 Reworking models

One of the most important tasks performed by GENIUS TOOLS Model Processor is model analysis and data revision of models, e.g., legacy data.

Analysis of Creo Parametric data

When analyzing Creo Parametric data, reports are generated using GENIUS TOOLS Model Processor Report.

- Qualitative statements on model settings in inventory data
- Prerequisite for estimating the effort involved in PDM implementations
- Prerequisite for a realistic assessment of proposed CAD work guidelines

Revision of Creo Parametric data

GENIUS TOOLS Model Processor provides interactive and automated batch processing for reworking large amounts of data. Reworking can be performed without user intervention, e.g., overnight. A license for GENIUS TOOLS Model Processor Rework is required for batch processing.

- Support with PDM implementation (inventory data, library adjustments, parameter maintenance, etc.)
- Support with the implementation of CAD work guidelines
- Improvement of model data quality

Procedure

The following procedure is intended for revising Creo model data:

1. Analysis of Creo Parametric data: [Report generation](#)¹⁷
2. Defining tasks in task lists: [Task lists](#)³⁰
3. Executing task lists on test data: Performing test runs
4. Model reworking: [Executing task lists](#)⁷⁰

Please note: A license for GENIUS TOOLS Model Processor Rework is required if the model needs to be saved during reworking or if a map key or script is required during execution.

2.2.1 Example of legacy data revision

With GENIUS TOOLS Model Processor, you can find existing parameter values in a model and replace them with new parameter values. The existence of the parameter containing the model description is checked, and the unit system and value are revised. A report is output in a CSV file before and after the rework.

In this use case, two task lists are created to revise the data of a model in which the parameter *DESCRIPTION_1_DE* is not existing. Values from the legacy parameters *DESCRIPTION_1* and *DESCR* are to be transferred and written to the parameter *DESCRIPTION_1_DE*. The legacy parameters are then to be deleted.

Procedure

1. Create the following task as described in the chapter [structure of task lists](#)³².

First Task list: Reporting output of existing parameters

Task	Task Settings
Body area	

[Report Parameter Values](#) ²³⁴ Add all relevant DESCR parameters under *Parameter Name*: DESCRIPTION_1, DESCR, and DESCRIPTION_1_DE.

(Category Report)

Resources area	
-----------------------	--

[Report Definition](#) ²²² Report Name: Parameter report
File Name: e.g. %env:TEMP%\Quality.csv (temporary file)

(Category Report)

2. Create the filter [Parameter Value](#) ²⁶⁷, see the chapter [Creating filters](#) ⁴⁴.

Enter DESCRIPTION_1_DE as the parameter name and * as the parameter value, then click Negate.

3. Create the second task list as specified in the following table. First, create the Report Definition in the Resources area.

Second Task list: Report parameters and unit system

Task	Task Settings
Resources area	





[Report Definition](#) ²²² Report Name: Before and after report. (This is required in the Body for every report task).





(Category Report) File Name: e.g. %env:TEMP%\BeforeAndAfterReport.csv (temporary folder)





File Format: CSV

Options: ☒ Include file name in report ☒ Open report after processing the task list

Body area	
------------------	--



Task	Task Settings
Resources area	
Report Model Data  233 (Category Report)	Report to: Before and after report Solid: Unit System
Report Universal  237 (Category Report)	Description: BEFORE: Does DESCRIPTION_1_DE exist? Report to: Before and after report Column Title: DESCRIPTION_1_DE Report filter: To determine whether parameter DESCRIPTION_1_DE exists, add the enhanced report filter <i>Parameter Value</i> . Enter DESCRIPTION_1_DE as the parameter name and * as the parameter value. Matching Value: %DESCRIPTION_1_DE% Mismatching Value: <Not available>
Group (Category Group  140)	Description: Migrate parameters Mode: Currently Reworking Model Filter: Add the filter you created in step 2.
Add Parameter  189 (Category Parameter)	Description: DESCRIPTION_1_DE Add a parameter with + button. Name: DESCRIPTION_1_DE Type: String Designated: ✓ Description: Description first line Unit: No Unit

Task	Task Settings
Resources area	
Edit Parameter  195 (Category Parameter)	<p>Create an anonymous filter by clicking <i>Create Anonymous Filter</i>.</p> <p>Add a "Parameter Value" filter node to the tree and click Edit. Enter DESCR as the parameter name and specify the parameter value with an *.</p> <p>Description: from DESCR if it exists</p> <p>Search by: Name</p> <p>Search: DESCRIPTION_1_DE</p> <p>New type: String</p> <p>New value: %DESCR%</p>
Edit Parameter  195 (Category Parameter)	<p>Create an anonymous filter by clicking <i>Create Anonymous Filter</i>.</p> <p>Add a "Parameter Value" filter node to the tree and click Edit. Enter DESCRIPTION_1 as the parameter name and specify the parameter value with an *.</p> <p>Description: from DESCRIPTION_1 if it exists</p> <p>Search by: Name</p> <p>Search: DESCRIPTION_1_DE</p> <p>New type: String</p> <p>New value: %DESCRIPTION_1%</p>
Group (Category Group  140)	<p>Description: Delete old parameters</p> <p>Mode: Currently Reworking Model</p> <p>Add a filter that checks whether the old parameters exist, to the filter in the <i>Edit Parameters</i> task.</p>
Delete Parameters  192 (Category Parameter)	<p>Search in: Name</p> <p>Name parameter or value:</p> <ul style="list-style-type: none"> – DESCR – DESCRIPTION_1_DE


Task	Task Settings
Resources area	
Set Unit System  173 (Category Model Properties)	Description: mm-kg-sec Type: Millimeters - Kilograms - Seconds Conversion: Change values (1 m -> 39.37 in)
Report Universal  237 (Category Report)	Description: Separation column Report to: Before and after report Column Title: --- Matching value: ---
Report Model Data  233 (Category Report)	Description: AFTER: Unit system Report to: Before and after report Solid: Unit System
Report Universal  237 (Category Report)	Description: AFTER: Does DESCRIPTION_1_DE exist? Report to: Before and after report Column Title: DESCRIPTION_1_DE To determine whether parameter DESCRIPTION_1_DE exists, add the extended report filter parameter value. Enter DESCRIPTION_1_DE as the parameter name. Matching Value: %DESCRIPTION_1_DE% Mismatching Value: <Not available>

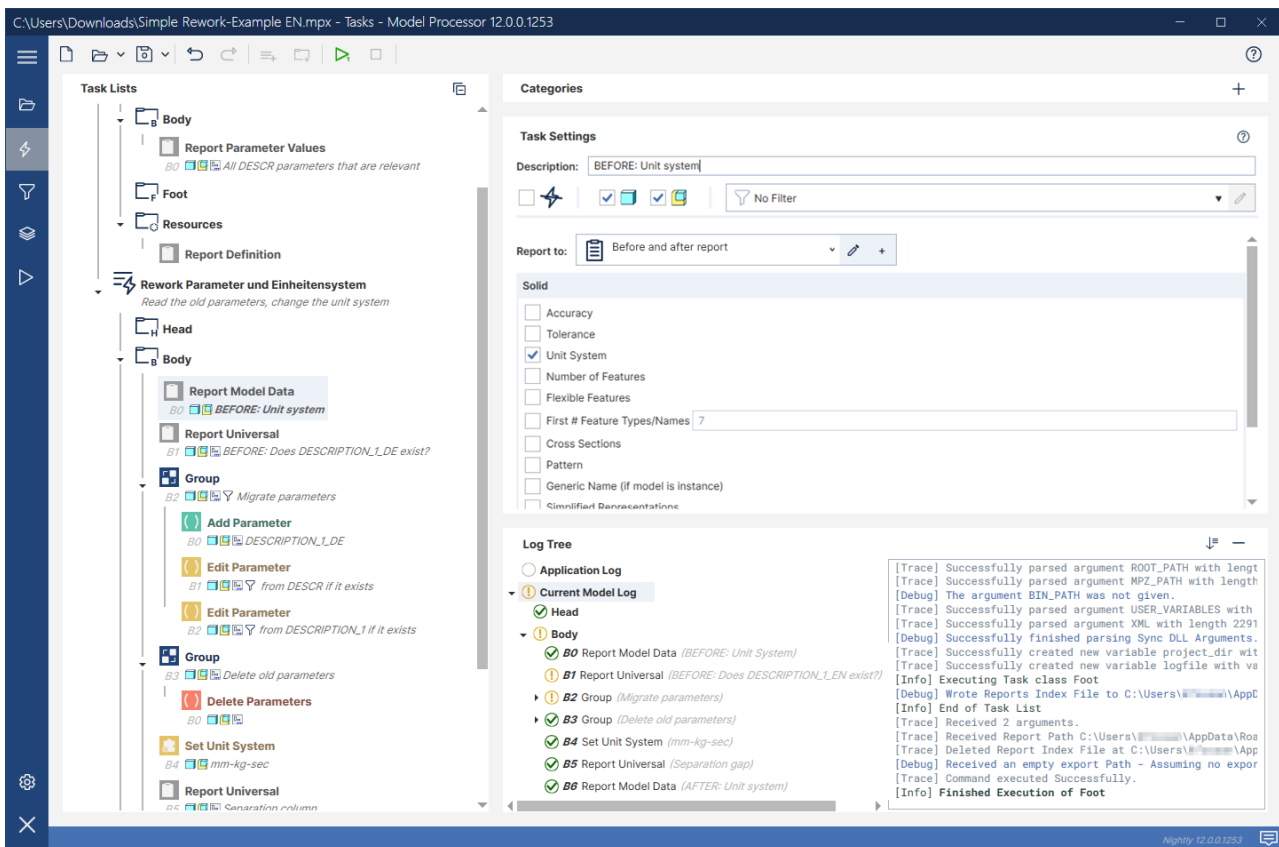
Testing the task lists

4. Take a model where the *DESCRIPTION_1_DE* parameter does not exist. Add two new parameters in Creo by clicking in the menu ribbon on the tab *Tools* → *Parameters*. Name the parameters DESCR and DESCRIPTION_1 and specify a value for each.

Name	Value	Designate	Type	Description	Access	Source	Restricted
DESCRIPTION_1	bearing blocks	<input type="checkbox"/>	String		 Full	User-Defined	<input type="checkbox"/>
DESCR	bearing block	<input type="checkbox"/>	String		 Full	User-Defined	<input type="checkbox"/>

Parameter in Creo

5. In the Model Processor, click the *Run Immediately*  button.



Report protocol

Result

A CSV file is generated and opened with the registered default program, e.g., Excel.

	A	B	C	D	E	F
1	File name	Unit System	DESCRIPTION_1_DE	---	Unit System	DESCRIPTION_1_DE
2	lagerbock-mbd-gps-v4-col.prt	millimeter Kilogram Sec (mmKs)	<Not available>	---	millimeter Kilogram Sec (mmKs)	bearing blocks

Report in Excel document

The table shows the values before revision on the left side of the dividing column and the revised values on the right side.


3 Project

A project bundles all information and settings required for working in the Model Processor. All contained information is saved in an MPX file.

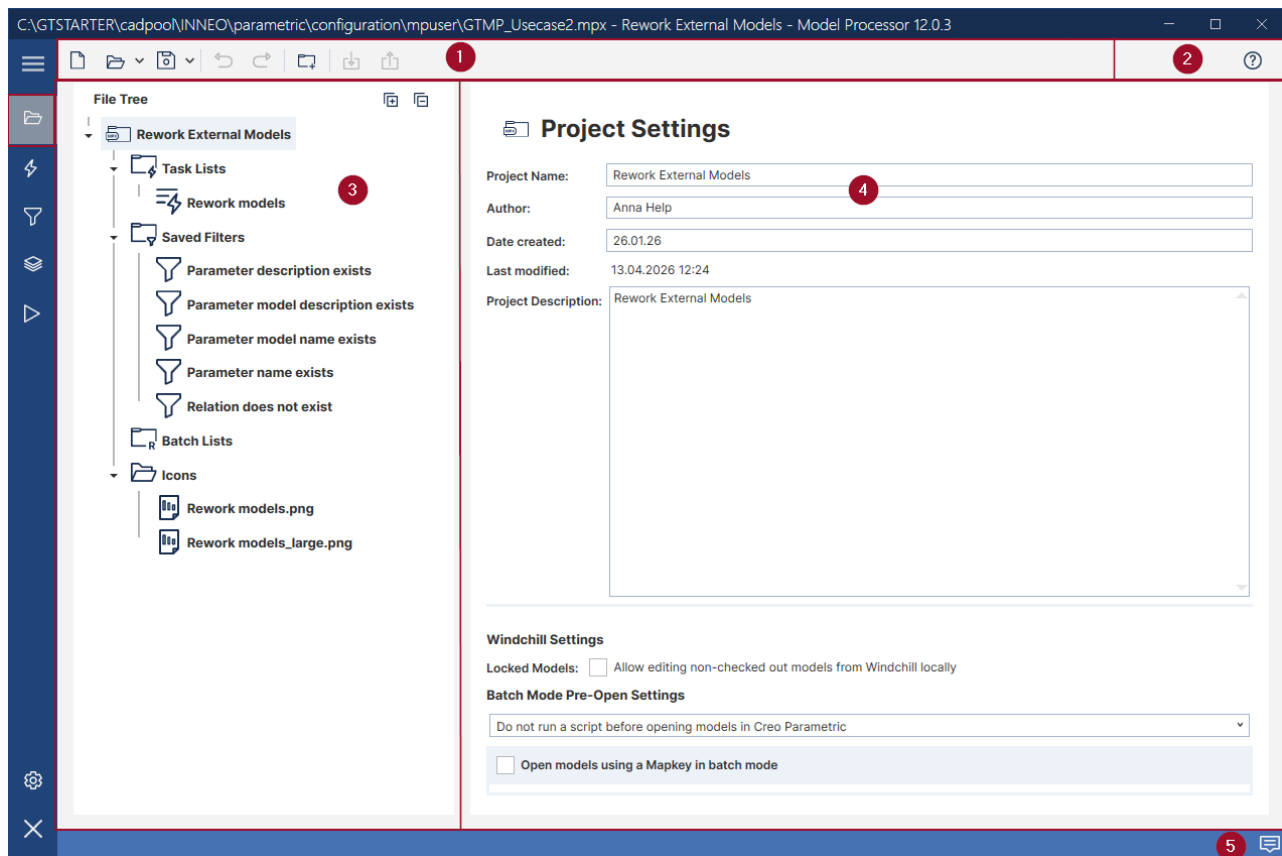
A project consists of

- metadata (name, author, project-specific settings).
- a folder containing [Task lists](#)³⁰ for defined work steps,
- a folder containing [Enhanced filters](#)⁴⁰ to restrict tasks,
- a folder containing [batch lists](#)⁶⁰ for rules and automated processing,
- and any number of additional subfolders for individual structuring.

3.1 User interface

In the *Project tab*  you can open and create Model Processor projects. A project comprises several directories that are listed in the file tree.

The user interface of the Project tab consists of the following areas:



1. Command bar**2. Help****3. File Tree with context menu**

Hierarchical structure of a project for navigating and organizing all elements.

4. Project settings










[Windchill settings](#)²⁶ and [pre-open settings \(batch mode\)](#)²⁷

5. Footer with notifications

Indicates if messages are available. Clicking on the speech bubble opens the messages page.

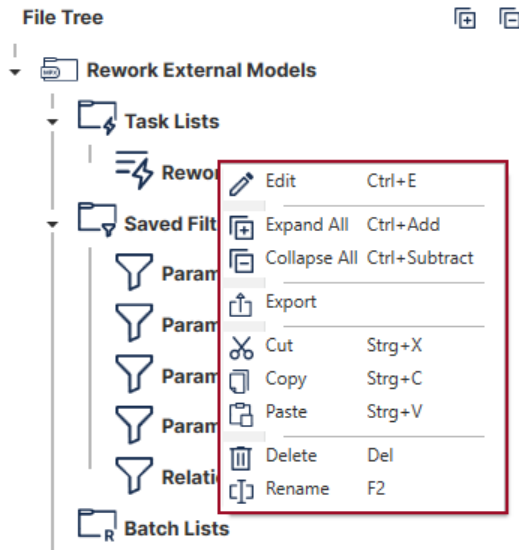
Command bar

The command bar contains the following commands:

Symbol	Name	Description
	New	Create a new, empty project.
	Open ²⁷	Open existing project (MPX file or MPZ file)
	Save	Save the current project as an MPX file, including all files and project settings displayed in the project structure. The arrow icon  opens a drop-down menu with the additional commands Save As and Save Copy.
	Undo	Undo the latest change.
	Redo	Redo the latest undone change.
	Create Subfolder	Create a new, empty subfolder under the currently selected folder.
	Import ²⁸	Imported file is saved in the currently selected project folder.
	Export ²⁸	Export the selected object and save it to your hard drive.





Context Menu

Right-clicking on an item in the file tree opens the context menu.



It contains the following functions for editing, navigating, and structuring entries:

Symbol	Menu item	Shortcut	Description
	Edit	Ctrl + E	Opens the selected item for editing.
	Expand All	Ctrl + Add	Expands all subfolders and entries in the current project.
	Collapse All	Ctrl + Subtract	Closes all open levels in the file tree.
	New Subfolder	Ctrl + Shift + N	Creates a new subfolder under the currently selected item.
	Import		Imported file is saved in the currently selected project folder.
	Export		Export the selected object and save it to your hard drive.
	Cut	Ctrl + X	Removes the selected element and places it on the clipboard.



Symbol	Menu item	Shortcut	Description
	Copy	Ctrl + C	Copies the selected item.
	Paste	Ctrl + V	Inserts a previously copied or cut element at the selected position.
	Delete	Del	Removes the selected element.
	Rename	F2	Allows you to change the name of the element directly.

3.2 Create project

A new project is created using the *New*  button in the command bar.

After creating a new project fill out the general project data on the right of the dialog.

The **project settings** contain the following input fields:

1. Project name
2. Author
3. Creation date
4. Last modified: automatic entry
5. Project description
6. Windchill settings
Settings for locked models, see [Windchill settings](#)  ²⁶.
7. Pre-opening settings (batch mode)
Defines the procedure before models are opened in Creo Parametric and for opening models with map keys, see [Settings before opening](#)  ²⁷.

3.2.1 Windchill settings

In the Windchill settings area, there is an option to edit locked models that are not checked out locally.

Warning: Saving edited but not checked out models will result in data loss.

Please note: Windchill settings can be set from Creo Parametric version 11 onwards.

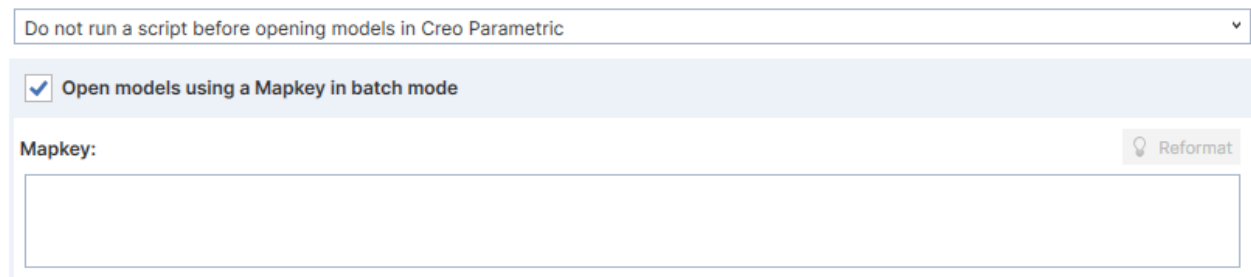
3.2.2 Settings before opening

When working in batch mode, you can specify whether a script should be executed before opening each model. The following options are available in the **Batch Mode Pre-Open Settings** section:

- *Do not execute a script before opening each model*
- *Execute MS-DOS script*
- *Execute Powershell script*
- *Execute Python script*

For all options, a map key can be executed to open the models by activating the check box *Open model in batch mode via a map key*.


Batch Mode Pre-Open Settings



Warning: If variable characters are used in a map key, they must be escaped: `@` must become `@@` and `%` must become `%%` so that the characters are not replaced, e.g., @mdl@ must be replaced by " @@mdl@ ".

For further information on the use of mapkeys, see [Start Mapkey](#)¹¹⁰.

3.3 Open existing project

To open an existing project, click on the folder icon  in the command bar on the project page. MPX files and MPZ files can be opened.

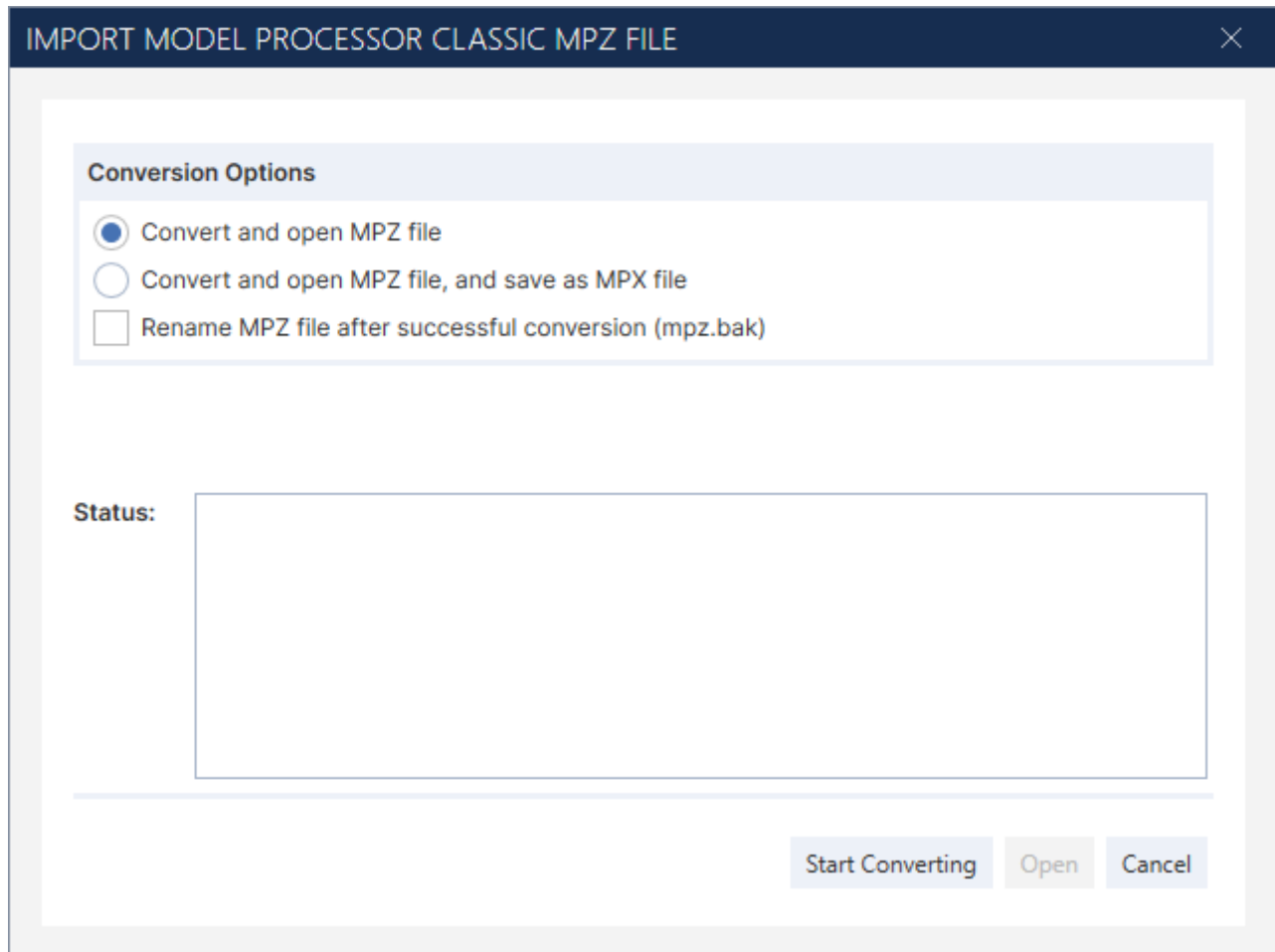
- MPX is the file format for the newly developed Model Processor.
- MPZ is the file format for the Model Processor Classic.

Convert MPZ file

To use an MPZ file in the new Model Processor, select an MPZ file. The *Import MPZ File* dialog box opens. You can choose:



- Convert and open MPZ file
- Convert MPZ file, open, and save as MPX file

By checking the Rename MPZ file after conversion (mpz.bak) option, you can restore the MPZ file by removing the BAK extension.



3.4 Importing and exporting files

The *Import* and *Export* functions can be used to write individual project components to external files or to import them from existing files into the project.

Clicking *Import*  or *Export*  in the command bar opens the Windows file browser.

After selecting a file, it is either imported into the currently selected folder of the project or exported from the project.

Imported elements then appear in the appropriate location in the file tree.

Supported file formats

Different file formats are used depending on the element type:

Element type	File format	Description
Task List	.xml	Contains defined tasks that can be executed in the Model Processor.
Filter	.xml	Contains filter rules that determine which files or records are included in tasks.
Batch Liste	.xml	Contains a compilation of rule sets and/or imported file lists.
Batch Rule	.csv	Contains file rules for filtering or automated processing.

4 Task lists

A task list defines Creo functions („tasks”³³) and specifies the order in which these functions are applied to models. Filters determine which models are to be modified for each task, see [Introducing filters](#)¹².

A project can consist of several task lists. The advantages are:

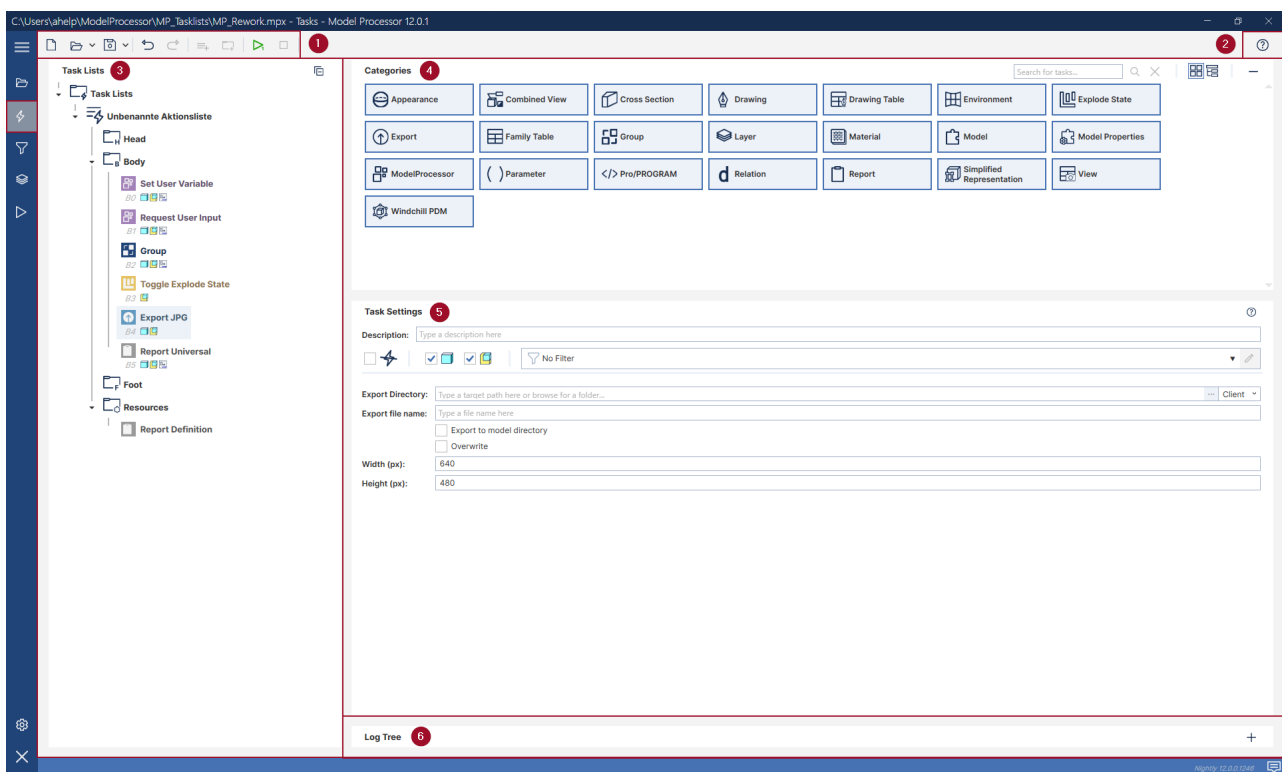
- Multiple task lists can be loaded into Model Processor User and thus made available for selection in the drop-down menu (instead of having to load a new MPX project).
- Multiple task lists can access all saved filters and files of a project.

Task lists can be exported and imported as XML files, see [Importing and exporting task lists](#)³⁶.

Task lists can also be used as commands within Creo Parametric to create specific functional enhancements for Creo Parametric.

4.1 User interface

In the menu item *Tasks* ⚡, you can create and edit task. The user interface of the menu item *Tasks* consists of the following sections.




1. [Command bar](#)  31**2. Help**

Opens the relevant chapter in the help section.

3. Task Lists

Overview of the task lists created, including the tasks they contain. Click on a task to see the corresponding settings options under *Task Settings*.

4. Categories

Overview of all tasks that can be added to the task list via drag and drop, see [Task lists](#)  30.

5. Task Settings

Available settings for the task that is currently selected in the task list.









There are [general task settings](#)  35 and task-specific settings.



6. Log Tree

Notifications on the processing status of the selected task list.


Command bar

The command bar contains the following commands:

Icon	Name	Description
	New	Create a new empty project.
	Open	Open an existing project as MPX file.
	Save	Save the current project as .mpx file, including all assets and project settings that are displayed in the project tree. The arrow icon  opens a drop-down menu with the additional commands <i>Save As</i> and <i>Save Copy</i> .
	Undo	Undo the latest change.
	Redo	Redo the latest undone change.
	Add Task List	Add a new empty task list to the currently selected folder.
	Create Subfolder	Create a new empty subfolder under the currently selected folder.

Icon	Name	Description
	Start	Run the currently selected task list.
	Stop	Stop the current run.



4.2 Structure of task lists

In a new project, there is an initial task list. You can add further task lists using the icon  in the command bar.

Each task list has the following sections: *Head*, *Body*, *Foot* and *Resources*.

Section	Content	Examples
Head	Tasks that are performed before the model revision.	Set User Variable, Request User Input (Category Model Processor)
Body	Tasks that are performed during the model revision.	Add Layers (Category Layer) Edit Feature Relation (Category Relation) Report Model Data (Category Report)
Foot	Tasks that are performed after the model revision.	Remove File from Workspace (Category Windchill PDM) Universal Report (Category Report)
Resources	Resources are performed continuously. Resources are not tasks.	Set Global User Variable (Category Model Processor), Report Definition (Category Report), List Report Definition (Category Report)

Procedure: Creating a task list

1. Add tasks that are to be executed before and after the model revision using the icon  in one of the *Head* and *Foot* areas.
2. Set global variables under Resources.
3. Add tasks to the Body area, see [Creating tasks](#) .

- Specify the cross-tasks settings, see [General task settings](#)³⁵.
- Specify the task-specific settings. An overview of all available tasks with links to the individual chapters can be found in [List of all tasks](#)⁷⁸.
- You can group tasks to set group filters and a group mode, see [Combining tasks in groups](#)³⁶.
- Save the project.

4.3 Tasks

A task defines a action that is applied to a model, e.g.

- Executing one or more Creo functions,
- Setting variables,
- Executing scripts,
- Creating reports.

In [batch mode](#)⁵⁸, tasks can be performed automatically on multiple models.

The task palette groups tasks into categories. Each category has its own icon.

Tasks can perform different functions. These are displayed by the color coding of the task.



These function are available:

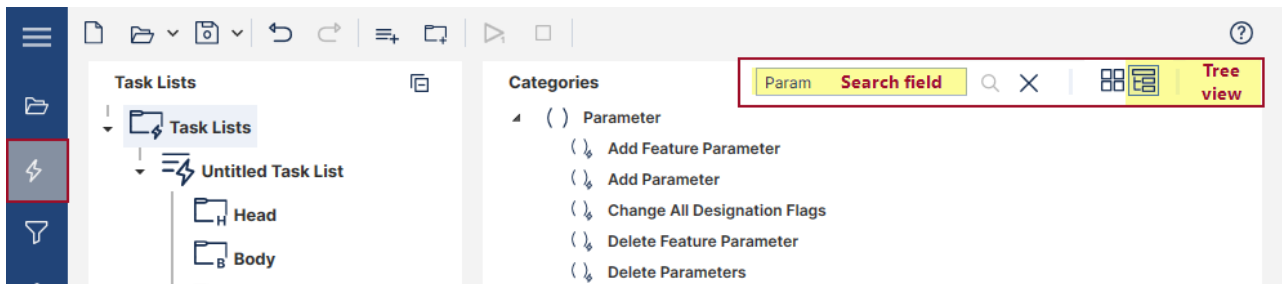
Color of the symbol	Operation
red	task that deletes
yellow	task that changes
green	task that adds
blue	task affecting the environment
purple	task affecting the variables
gray	report

To all tasks, you can apply filters to determine whether a task is executed, see [Introducing filters](#)¹².

An overview of all available tasks with links to the subchapter that describes this task can be found under [List of all tasks](#)⁷⁸.

4.3.1 Searching for tasks

You can search for tasks using the search field on the right-hand side of the Categories section by entering a term and pressing Enter. The tree view will open showing all tasks that contain the search term in their name or their category.




Press **X** to delete the search entry.

4.3.2 Creating tasks

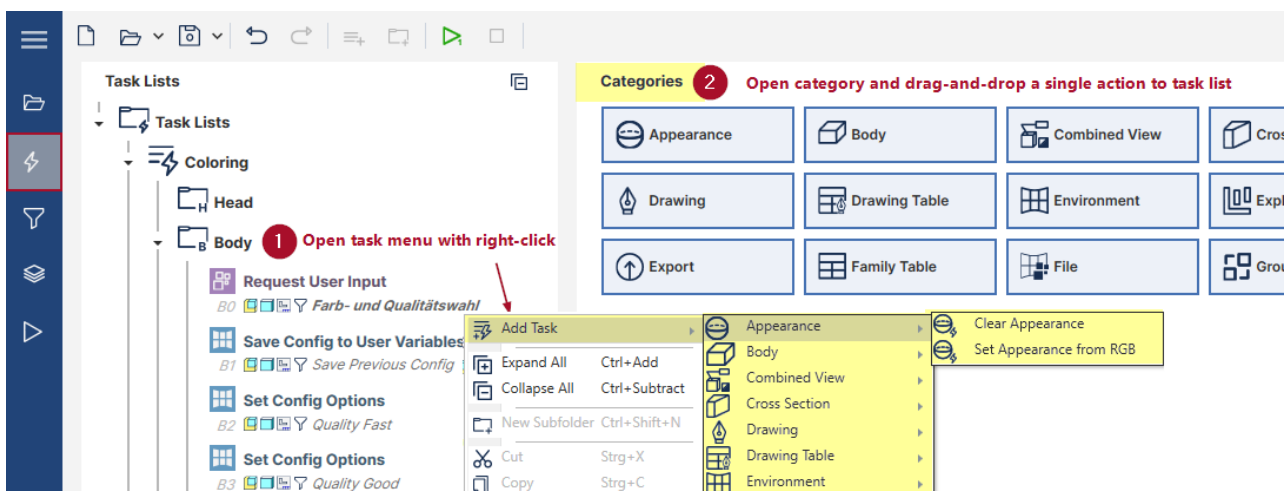
There are several ways to create tasks.

1. Creating tasks using the command bar

- Right-click to open the task menu and click on the first line *Add task* .
- Select a category and a new task. The tasks are listed in alphabetical order.

2. Creating tasks using the task palette

In the section *Categories*, you can see all the available task groups.

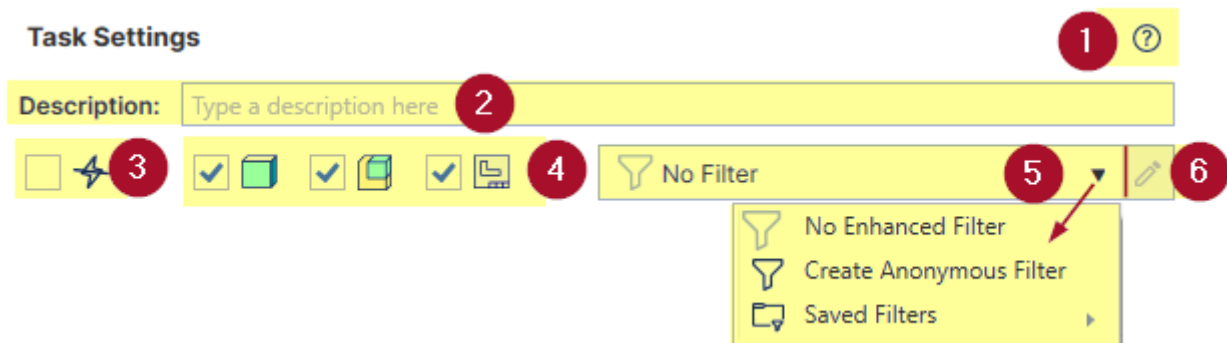


- Click on a task category to see the tasks it contains.
- Add the task to the task list using drag and drop. The task is automatically added to the end of the task list, at the position of the mouse pointer (colored gray).
- Note that the subdivision of the task list ³² into *Head*, *Body*, *Foot* and *Resources*.

Please note: Not every task can be added to every area, e.g. the task *Add Parameter* can only be used in the *Body*.

4.3.3 General task settings

The *Task Settings* section contains the general settings, i. e., cross-task settings:



1. Open help

Opens the help chapter for the selected task.

2. Name the task

Any name can be given to the task. Naming conventions can be defined using [Variables](#) ²⁷² / [RegEx](#).

3. Disable task ⚡

You have created a task list and want to test it in batch mode without the selected task.

4. Set model filters

Select the model types to which this task is to be performed, see [Introducing filters](#) ¹³. If a task cannot be performed for a model type, the corresponding check box will not appear.

You can see which model filters are available for an task in the [list of all tasks](#) ⁷⁸ for each task.

5. Select or create enhanced filter

The execution of the task can be restricted with enhanced filters. An enhanced filter can be created for the selected task (anonymous filter) or saved for being used in multiple tasks, see [Enhanced filters](#) ⁴⁰.

6. Edit enhanced filter

The selected enhanced filter can be edited in the filter tree of the *Enhanced Filters* menu item.

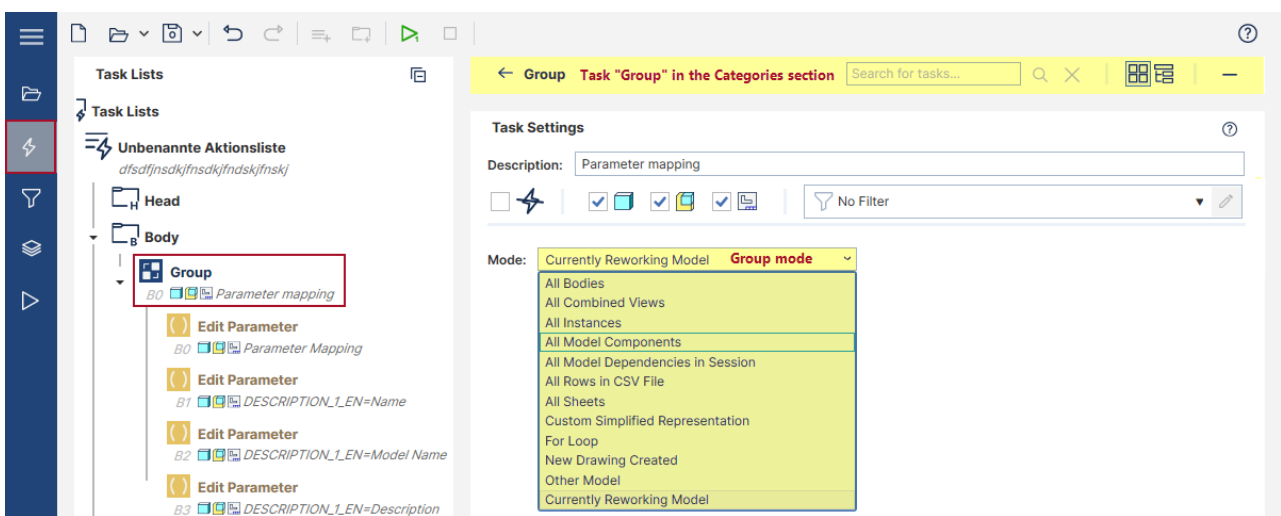
Below these cross-task settings are the task-specific settings. These are described in the individual chapters for each task.

4.3.4 Combining tasks in groups

You can combine multiple tasks into a task group in which a filter and/or mode defines all tasks in the group. The following applies:


- The scope of validity for filters and modes is set for the task group and may differ from the settings for filters and modes outside the group.
- The newly created variables inside a group do not exist outside the group.

Tasks are grouped by selecting the task *Group* under Categories, see chapter [Group](#)¹⁴⁰. All options for group mode are also described there.





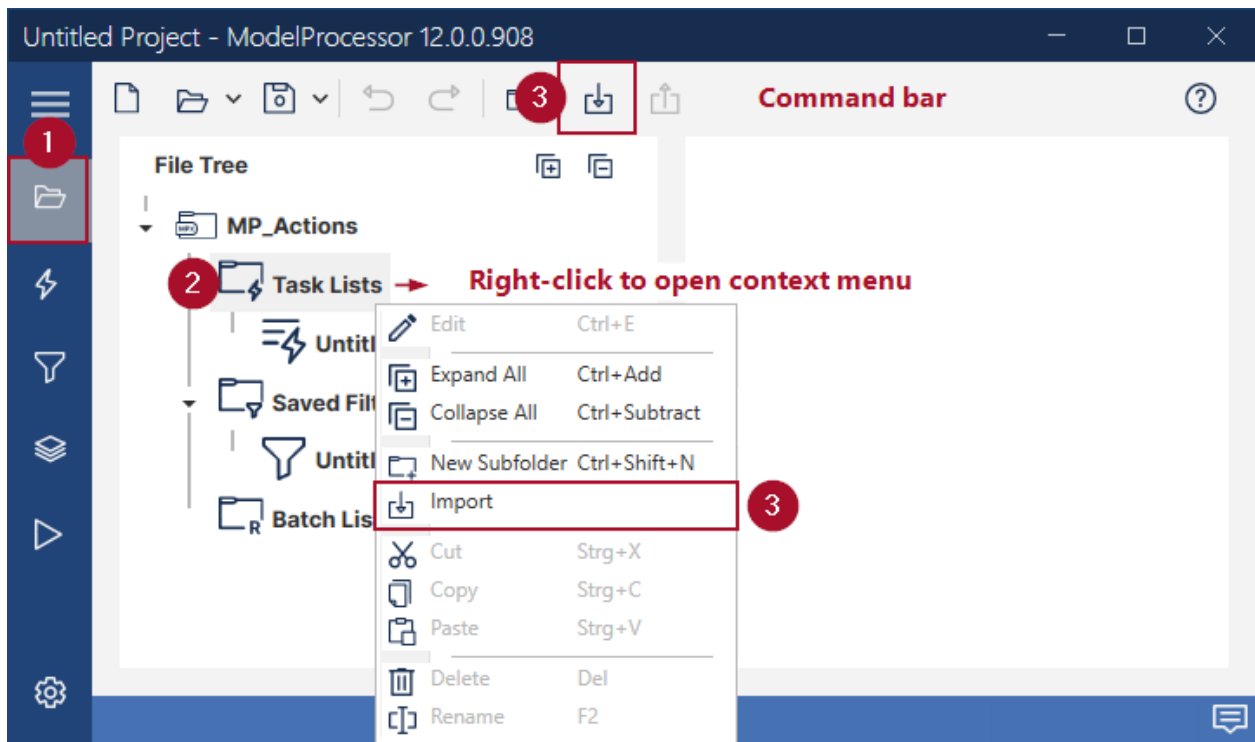
4.4 Importing and exporting task lists

Task lists can be imported and exported as XML files.



To do this, go to the *Project*  menu item and select the *Task Lists* folder in the file tree. see [Import and Export of Files](#)²⁸.

Procedure: Importing a task list

1. Go to the *Project*  menu item.
2. Select the folder *Task Lists* in the file tree.
3. Click on the *Import* icon  in the command bar or open the context menu by right-clicking on a task list and selecting the command *Import*.

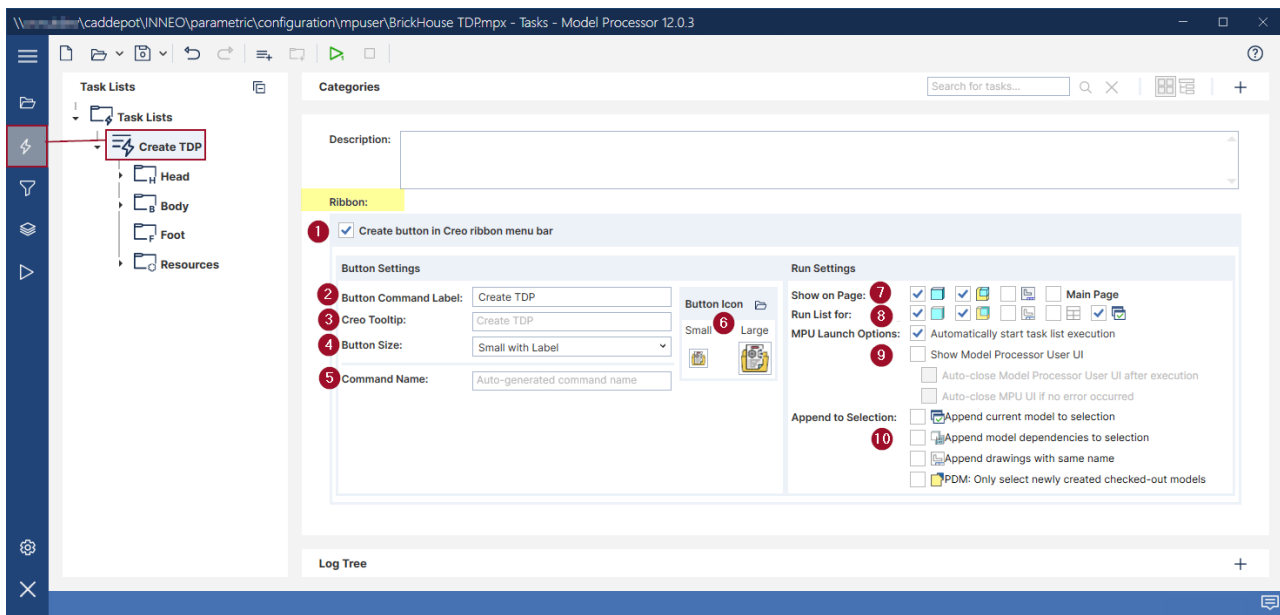


Procedure: Exporting a task list

1. Go to the *Project* menu item .
2. Select the folder *Task Lists* in the file tree.
3. Click on the *Export* icon  in the command bar or open the context menu by right-clicking on a task list and selecting the command *Export*.

4.5 Create button for ribbon menu

Task lists can be added to Creo as buttons in the ribbon menu. Select the *Create button in Creo ribbon menu* check box.



1. Create button in Creo ribbon menu bar

2. Button Command Label

The command label is optional. If nothing is entered, the title of the task list is used.

3. Creo Tooltip

You can enter a help text.

4. Button Size

The following options are available if you want to customize the button size, label, and icon:

- *Small Button with Command Label*
- *Large Button with Command Label*
- *Small Button without Command Label*
- *Large Button without Command Label*
- *Small Button with Command Label without Icon*

5. Command Name

The command name is used for mapkeys and UI customization. It is optional. If no command name is entered, it will be generated automatically.

6. Button Icon

Click *Load Icon* to select a file.

The added image files are stored in the Icons folder in the Project page.

7. Show on page

Teile, Baugruppen, Zeichnungen, Startseite (Standby-Menü)





8. Run List for

Teile, Baugruppen, Zeichnungen, auf allen Instanzen, nur auf aktuellem Modell

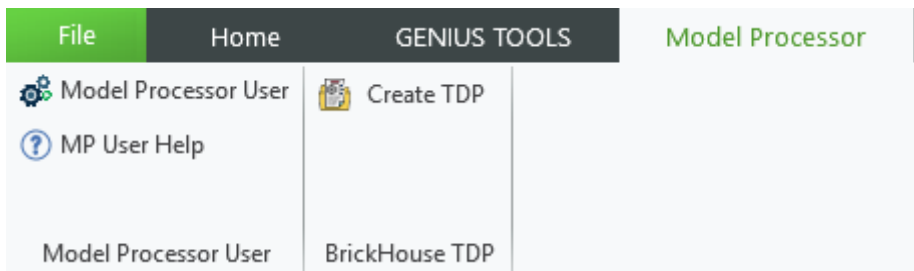
9. MPU Launch Options

- Automatically start tasks list
- Show Model Processor User UI
 - Auto-close Model Processor User UI
 - Auto-close MPU UI if no error occurred

10. Append to Selection

-  Append current model to selection
-  Append model dependencies to selection
-  Append drawings with the same name
-  PDM: Only select newly created checked-out models

Result: The MPX file (here: *BrickHouse TDP*) is added as a segment in the Model Processor ribbon. The task list (here: *Create TDP*) is added as a button with the selected icon.



Ribbon menu with the Create TDP task list

Restrict display of MPX files in Creo

Adjust the file *mpu_main.cfg* in the Conf directory, if you want to define the displayed MPX files. Enter the MPX files that are to be displayed in the Model Processor ribbon menu in the configuration option:

```
mpx_button_filter=^mpuser_example_.*\.mpx$
```


If the option is not defined, all MPX files are added to the ribbon menu.

The filter must be a valid regular expression that matches the file name of each MPX file without the path.





Only task lists from MPX files whose *Create button for ribbon button* is enabled in the Model Processor are considered.

Please note: The configuration option *mpu_disable_generating_text_folder*=0 must be set to 0.

5 Enhanced filters

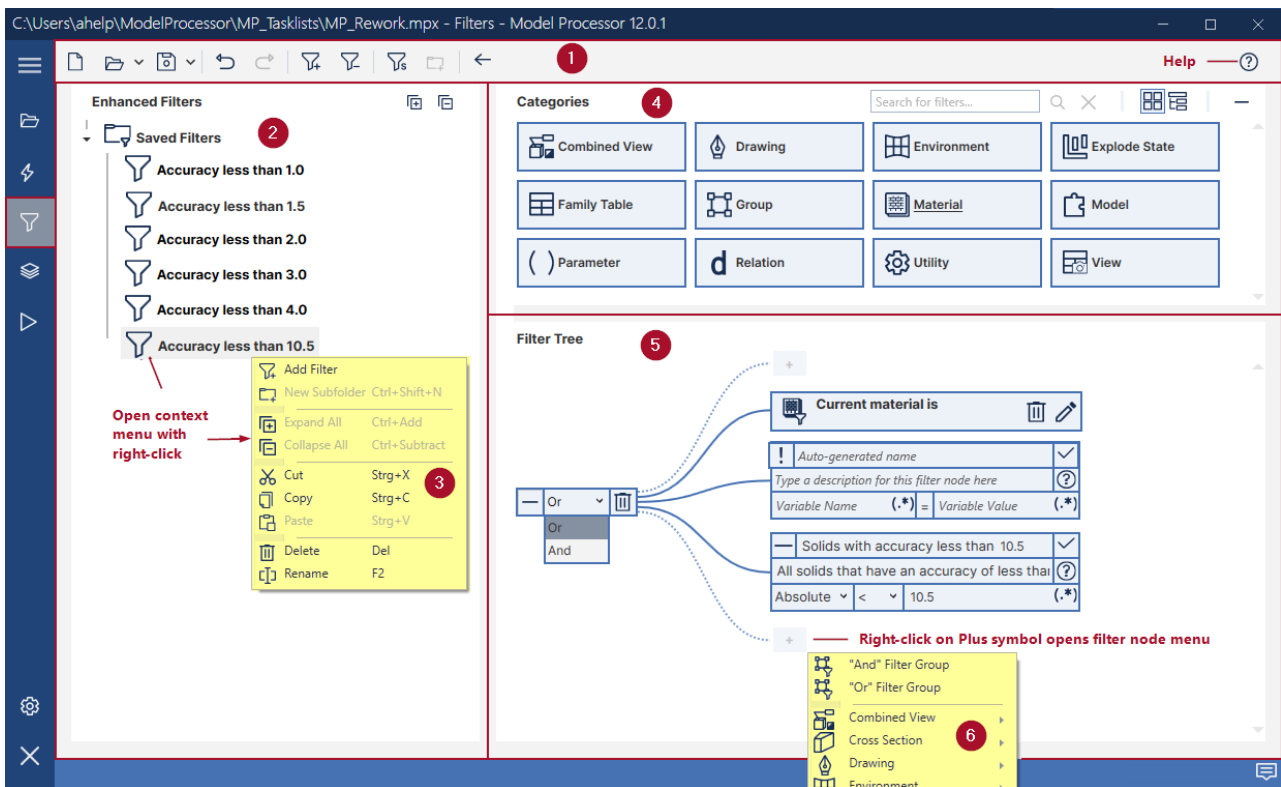
Enhanced filters are created and edited in the *Enhanced Filters* menu item .

Enhanced filters:

- are filters that specify conditions under which a task is executed.
- can apply to a task, a group, or a task list (global), see [Filter concept > Scope of validity](#) .
- are defined in the [filter tree](#) , with the exception of [feature filters](#)  and [report filters](#) .
- can consist of multiple combined filter nodes that define the condition more precisely.
 - **Filter nodes** contain conditions that must be met for the filter node to return TRUE.
- are divided into anonymous and saved filters:
 - **Anonymous filters** can only be used for a single task. They are created for this task. They are not created under *Saved filters*.
 - **Saved filters** can be applied to multiple tasks. They are stored in the project and can also be saved as an XML file for use in other projects.

5.1 User interface

The user interface of the menu item *Enhanced Filters* consists of the following sections:












Menu item for Enhanced Filters

1. Command bar with help
2. Folder for saved enhanced filters
3. Context menu for saved filters
4. Filter palette: Groups filter nodes into categories
5. [Filter tree](#)⁴²: Defines the filtering process
6. Filter node menu

Command bar


The command bar contains the following commands:

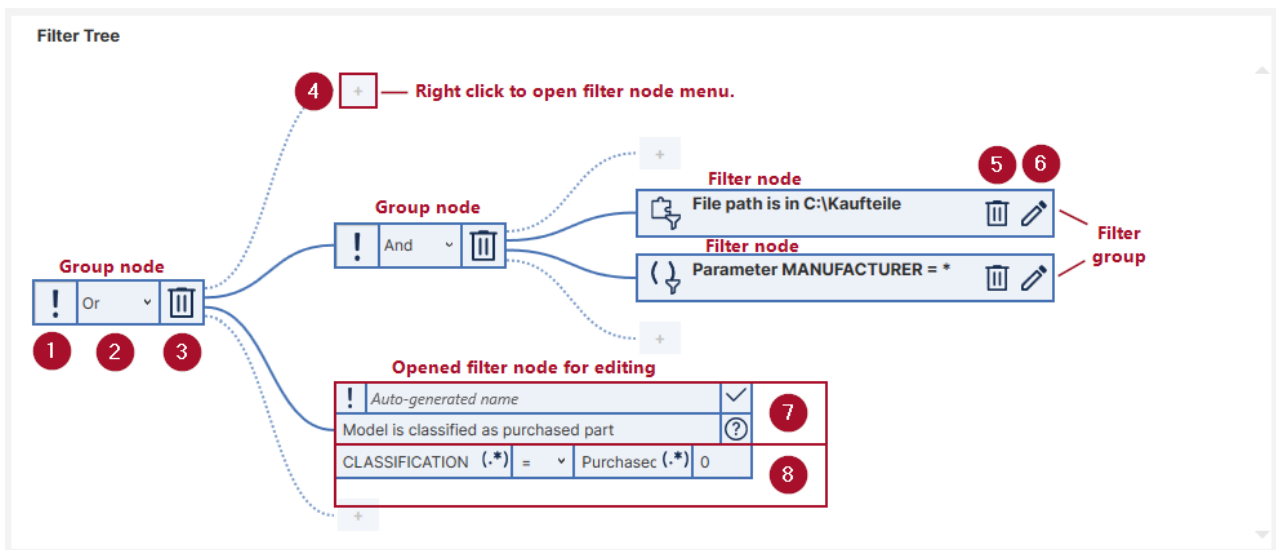
Icon	Name	Description
	New	Create a new empty project.
	Open	Open an existing project as MPX file. The arrow icon opens a drop-down menu with previously edited projects.
	Save	Save the current project as MPX file, including all assets and project settings that are displayed in the

Icon	Name	Description
		project tree.
		The arrow icon  opens a drop-down menu with the additional commands <i>Save As</i> and <i>Save Copy</i> .
	Undo	Undo the latest change.
	Redo	Redo the latest undone change.
	Add Filter 	Create a new empty filter.
	Remove Filter	Remove the selected filter.
	Save as Named Filter	Save this anonymous filter as named filter.
	Create Subfolder	Create a new empty subfolder under the currently selected folder.
	Back	Go back one level.

5.2 Filter tree

The new Model Processor introduces the filter tree, which is used to define advanced filters. To do this, individual filter nodes are created under a group node and linked with AND or OR statements. Group and filter nodes can be nested as desired.

An overview of all available filter nodes with links to the individual chapters can be found in the [List of all filters](#) .



Example of a filter tree

Filter nodes are created in a group defined by a group node. The following settings are made:

Settings on the group node

1. Setting the negation

The exclamation mark **!** is used to apply or undo the negation for the group. You can also negate individual filter nodes.

Color code

Explanation



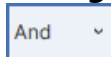
If the conditions of the filter node are met, the filter node outputs TRUE. The task containing the filter is executed.



Filter is negated.

If the conditions of the filter node are NOT met, the filter node outputs TRUE. The task containing the filter is executed.

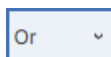
2. Setting operator



AND

operator

All conditions must be true for the filter node to output TRUE.



OR

operator

At least one condition must be true for the filter node to output TRUE.

3. Deleting group node

The node and all filters that originate from it are deleted.

4. Add group or filter node

Right clicking opens the drop down menu with all filter nodes.


Settings on the filter node


5. Delete filter node

6. Edit filter node

Expands the filter node for editing.

The settings available here depend on the selected filter.

The *help* icon opens  the chapter in which the corresponding filter is described.

Alternatively, you will find an overview of all available filters with links to the individual filters in the chapter [Enhanced Filters](#) .

7. General filter settings

Negation, Name and description, see [<%TARGETTITLE%>](#) .


8. Filterspecific settings

Refer to the following chapters for these settings in the respective filters.

5.3 Creating filters

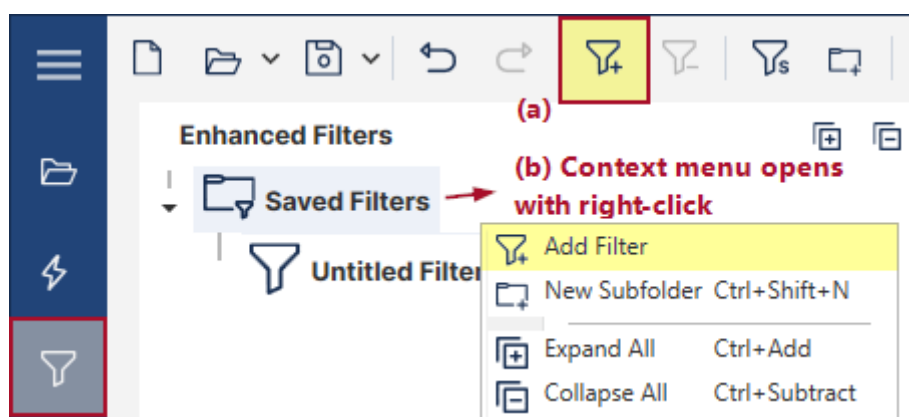
Enhanced filters can be saved and therefore used for multiple tasks or created anonymously for each task.

Procedure: Create and save enhanced filters (Saved Filters)

Create a new filter in the *Enhanced filters*  menu item

1. In the command bar (a) or in the *Saved Filters* in the context menu (b): Click on the filter icon. .

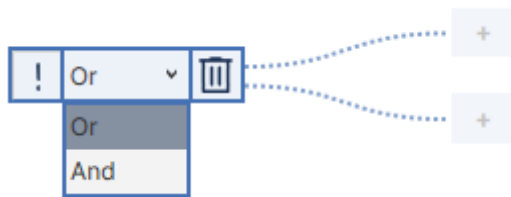
A new entry called *Untitled Filter* appears in the filter folder.



2. Name the new filter by clicking *Rename* in the context menu.
Example: Model is located in the purchased parts folder

Define group nodes in the filter tree

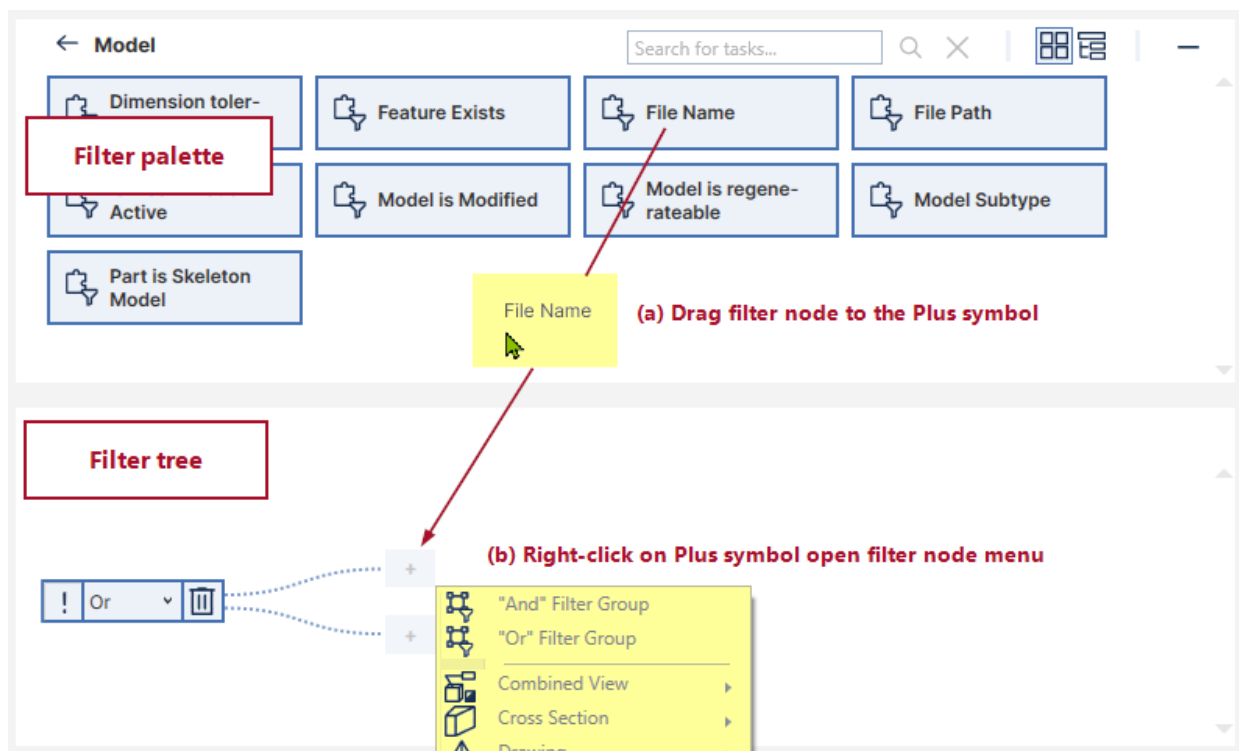
3. Go to the predefined group node.



- a. Determine the link between the filter nodes⁴³ in the group filter.
- b. Set the negation **!** if necessary.
A negated group node returns *true* if the filter condition of the filter group does not apply.


Define filter group in the filter tree

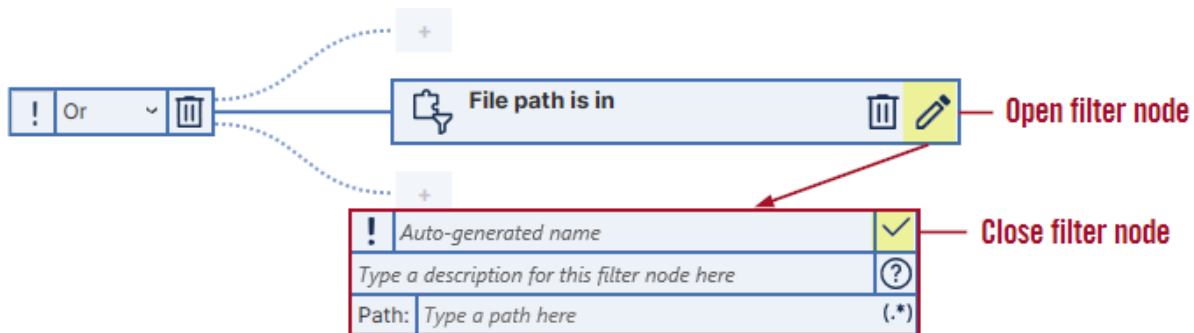
4. Create a filter node for the filter group. There are two options.



- a. Use filter palette
 - Double-click to open the category.
 - Click on the desired filter with the left mouse button.
 - Drag the filter in the filter tree to the plus sign of the group filter.
- b. Using the context menu in the filter tree
 - Click the *Add Filter Node* button to open the filter node menu.
 - Select a filter group (And/Or) or select a filter node from a category.

Define conditions in the filter node

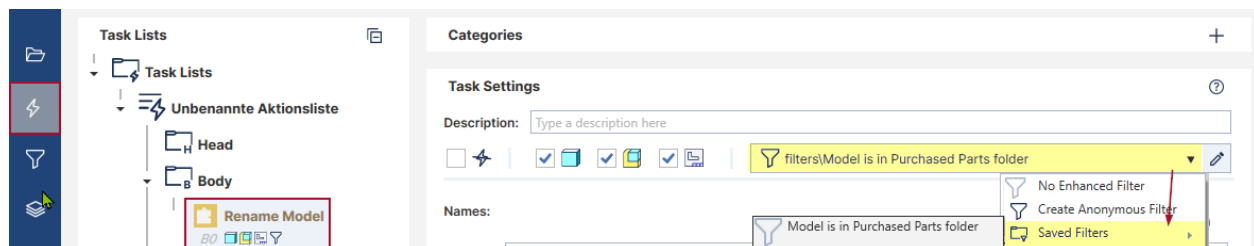
- Click on the pencil icon  to open the filter node. The area for editing the filter node appears.



- Fill in the first two lines, see [general filter settings](#) ⁴⁷.
- For some filter nodes, filter-specific settings must be entered in the line below.
- Close the node with the check mark icon.
- Create additional filter nodes for the filter group.
- Create additional filter groups.

Result:


- The filter you created is saved in the *Enhanced Filters* folder under the specified name and can be selected in a task.

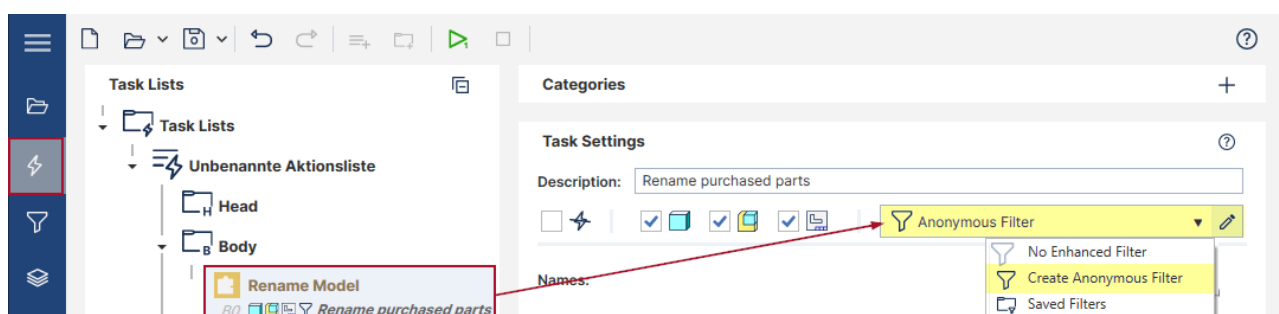


- The saved filter can be linked in other filters, see [Link filter](#) ⁴⁸.
- The saved filter can be exported for use in other projects.

Procedure: Create enhanced filters for a single task (anonymous filters)

Create anonymous filters within a task

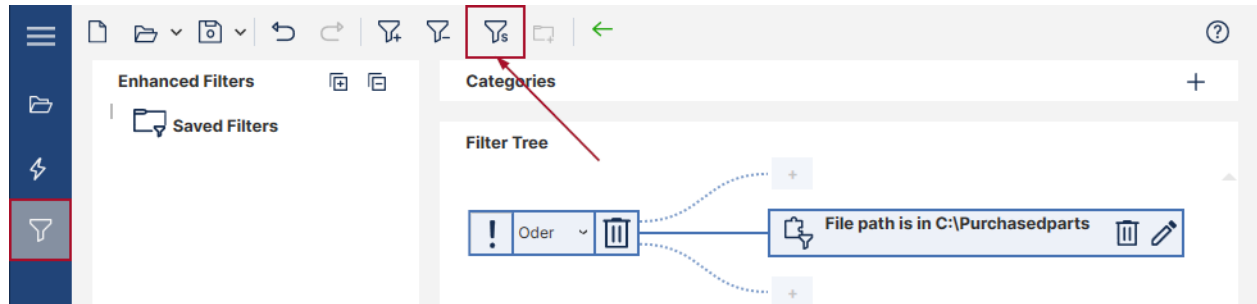
- In the menu item *Task Lists* , select the task that should only be executed under certain conditions.



- Click *Create Anonymous Filter* in the drop-down menu.
The filter tree opens on the filter page.
- Apply the filter as described in steps 3-10 above for saved filters.

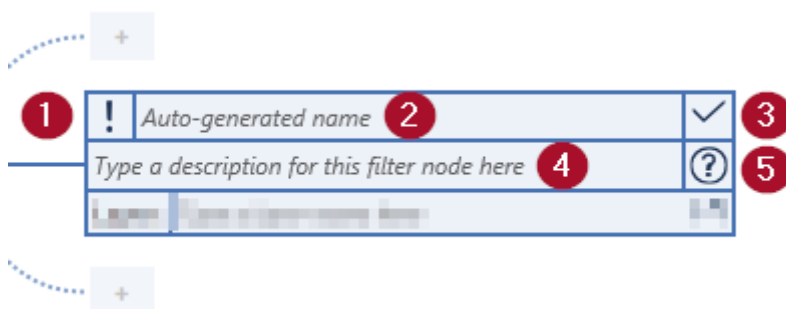
Result:

- The anonymous filter restricts the selected task to the specified conditions.



5.4 General filter settings

Each filter has the following settings:



1. Negate

A negated filter node returns *true* if the filter condition of the filter node does not apply.

The *exclamation mark* **!** is used to apply or cancel the negation for the filter.

Color Explanation code

! If the conditions of the filter node are met, the filter node outputs TRUE. The task containing the filter is executed.

! Filter is negated.
If the conditions of the filter node are NOT met, the filter node outputs TRUE. The task containing the filter is executed.

2. Filter Node Name

The auto-generated name can be overwritten. Naming conventions can be defined using [Variables / RegEx](#)²⁷².

3. Finish editing filter

Collapse this filter node and stop editing.

4. Filter Node Description (optional)

Enter a description that should be displayed below the name of this filter node. A description can contain informative text that explains the purpose of this filter node.

5. Help

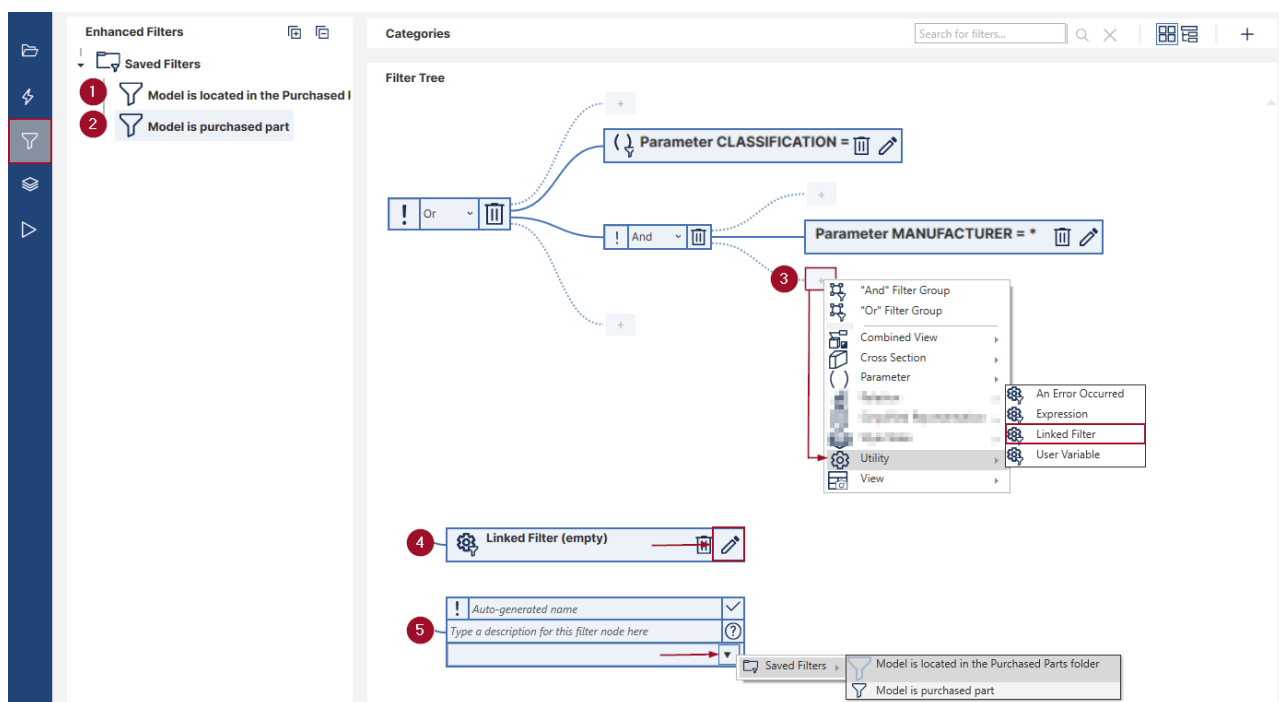
Opens the chapter in which the corresponding filter is described.

5.5 Link filter

Linked filters are saved, enhanced filters that are integrated into a filter node. They are used when the content of a filter condition needs to be separated from the structure of the filter. For example, if a filter condition contains a path specification, it is easier to change the path later in a source, the linked filter, than to edit each filter node containing this path specification individually.

Filters are linked by

- creating filter conditions in an extended filter as a source and
- creating the filter node *Linked Filter* (category *Utility*) in another filter and selecting the source filter.





Example: Create a filter for the task “Rename purchased parts”

Purchased parts are to be renamed. For the [Rename Model](#)¹⁶⁵ task, an enhanced filter is created that defines which parts are to be revised.

- In the filter tree, create the filter node *Parameter Value* on the preceding OR operation with the parameter CLASSIFICATION and the value =Purchased part.
- Place an “And” *Filter Group* (category *Group*) after the preceding Or operation, see setting [Operations](#)⁴².
- Place the filter node *Parameter Value* on the AND operation with the MANUFACTURER parameter and the value =*. (The asterisk means: any value entered in the “Manufacturer” parameter applies.)

Procedure

Create linked filter with the file path to the purchase part folder

1. Create and save enhanced filter (source filter)
 - In the left column under *Saved Filters*, create and name a new filter, here: *Model is located in the Purchased Parts folder*, see chapter [Creating Saved Filters](#)⁴⁴.
 - Select the filter node *File Path* from the category *Model* and drag it into the filter tree, or right-click to open the filter node menu.
 - Open the filter using the *pencil icon*  and enter the path in the last line, here: C: \Purchased parts.
2. Create and save enhanced filter (Filter)
 - Create another filter and name it, here: *Model is purchased part*.
3. Filter node *Create linked filter* under AND operation (see below: Create remaining filter nodes)
 - From the category *Utility*, select the filter node *Linked Filter* and drag it into the filter tree or open the filter node menu by right-clicking.
4. Open filter nodes using the pencil icon .
5. Expand the last line and select under *Saved Filter* the save, enhanced filter (*model is located in the purchase parts folder*).


Result

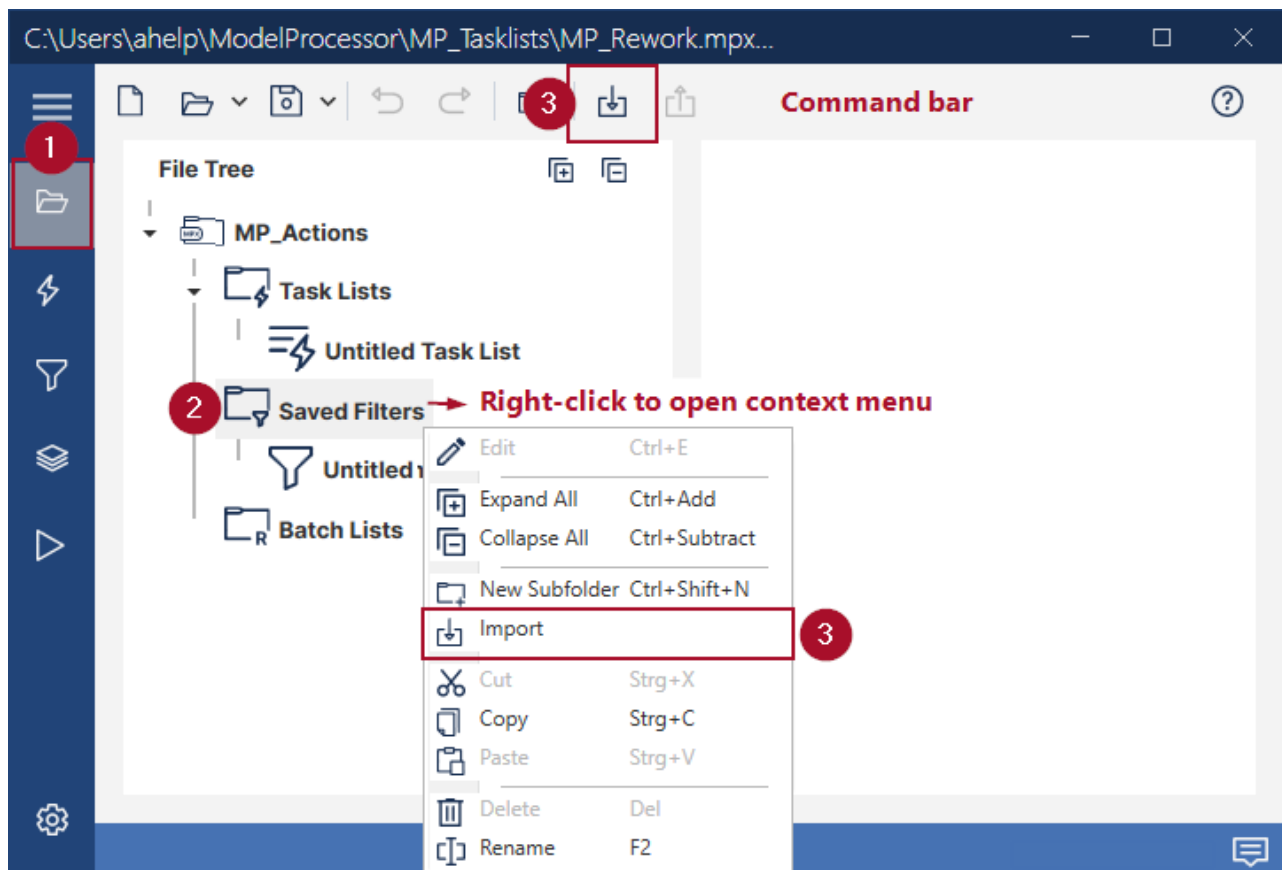
Changes to the file path are applied to all filter conditions that contain a operation to the *Model is in the purchased parts folder* filter.

5.6 Import filter

Filters can be imported if they are available in an XML file.

Procedure:

1. Go to the menu item *Project*.
2. Select *Saved Filters* in the file tree.
3. Click on the Import icon  in the command bar or open the context menu by right-clicking on *Saved Filters* and selecting *Import*.



Project page in Model Processor

5.7 Feature Filter

Feature filters are filters that define the features (construction elements) to be revised.

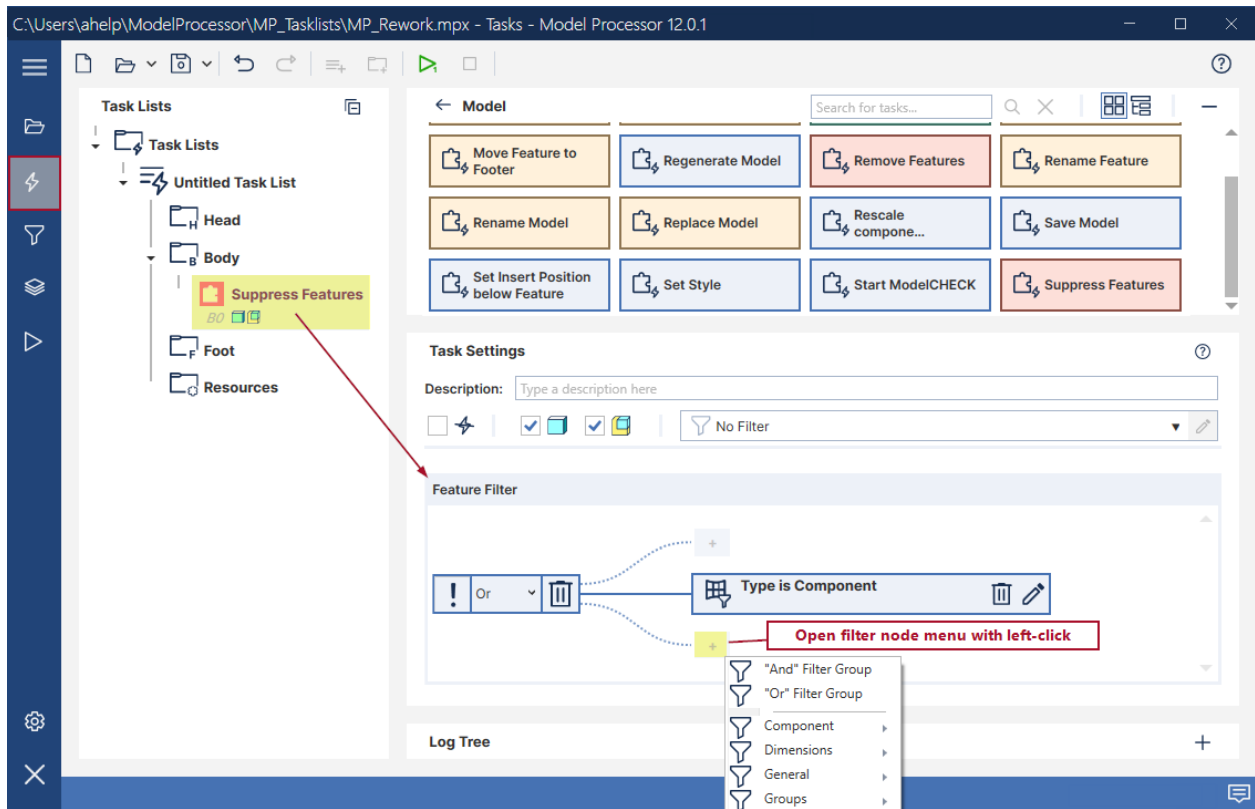
Feature filters are created in two situations:

1. As a filter that applies to a feature relevant task:
Feature filters can be accessed via the filter node menu in the *feature filter* dialog.
2. As a filter that defines a feature filter node in an enhanced filter:
Feature filters can be accessed in the *Feature exists* filter node. The *feature filter editor* opens under Edit feature filter.

Feature Filter for feature-relevant tasks

The Feature filter is executed for a specific task.

- Example: The *Suppress Feature* task is performed for all features of the “Component” type.
- Feature filters play a special role in this function: Alongside report filters, they are the only filters that are defined within a task (in the *Task lists* menu item).



Feature Filter for feature-relevant tasks

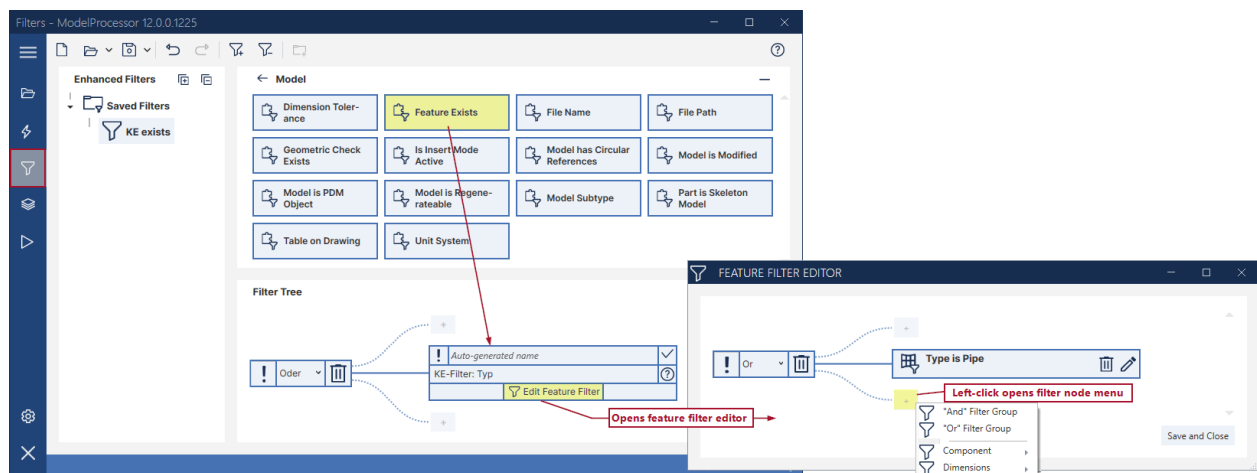
Feature-relevant tasks are:

Category	Tasks
Relation	Edit Feature Relation, Add Feature Relation, Delete Feature Relation
Appearance	Set Appearance from RGB > Apply to: All features that match the feature filter
Model	Remove Feature, Rename Feature, Suppress Feature
Parameter	Edit Feature Parameter, Add Feature Parameter, Delete Feature Parameter, Rename Feature Parameter
Report	Report Features

2. Feature Filter for Feature Filter nodes

The feature filter defines the filter node *Feature Exists* in an extended filter and only performs a task for the defined feature(s)

- Example: The filter *Feature Exists* applies to the *Rename View* task: The view is renamed for all features of the type "Pipe."
- If you create the filter node [Feature Exists](#) ²⁶⁰ in the filter tree, you can access the feature filter editor using the *Feature Filter Editor* command.



Feature filter in an enhanced filter

5.7.1 Dimensions

This filter group combines all feature filters that filter borehole features.

5.7.1.1 Dimensions has Tolerance Class

This filter checks if the feature has a name that matches a given expression.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#) ⁴⁷.

!	Auto-generated name	✓
Type a description for this filter node here		?
Tolerance:	H5	(.*)

1

1. Tolerance

Enter an expression with which the thread tolerance class is to be compared. You can use [Variables](#) ²⁷². The icon (.) opens the RegEx Editor.

5.7.1.2 Smallest Dimension

This filter checks if the smallest dimension in the current feature has a given value.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

!	Auto-generated name			✓
Type a description for this filter node here				?
Diameter	Value	<=	0	

1
2
3

1. Dimension Type

Select the type of dimension to be checked.

2. Operator

Select an operator to use to check the value of the dimension.

3. Value

Enter a value to compare with the smallest dimension.

5.7.1.3 Smallest Dimension in Interval

This filter checks if the smallest dimension of the current feature is within a certain range.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

!	Auto-generated name			✓
Type a description for this filter node here				?
Diameter	Bound	<= value <=	Bound	

1
2
3

1. Dimension Type

Select the type of dimension to be checked.

2. Lower Bound

Enter a value that the dimension must have at least so that the filter returns *true* or empty to deactivate a lower comparison value and accept all dimensions.

3. Upper Bound

Enter a value that the dimension must not exceed for the filter to return *true*, or leave it blank to disable an upper comparison value and accept all dimensions.

5.7.2 Components

This filter group combines all feature filters that filter component features.

5.7.2.1 Feature is Flexible

This filter checks if the feature in the latest assembly is flexible.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

5.7.2.2 Component Model Type

This filter checks whether the component is a part or an assembly.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Model Type

Select the model type.

!	Auto-generated name	✓
Type a description for this filter node here		?
Model Type:	Assembly	▼

1

5.7.3 General

This filter group combines all feature filters that filter general feature properties.

5.7.3.1 Feature ID

This filter checks if the feature has an Id that matches a given expression.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

!	Auto-generated name	✓
Type a description for this filter node here		?
ID:	Type an ID here	1

1. ID

Enter the Id of a feature that matches a given expression.

5.7.3.2 Feature is in Footer

This filter checks if the current feature is in the footer of the Creo model tree.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

5.7.3.3 Feature is Inactive

This filter checks if the feature in the latest assembly is flexible.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

5.7.3.4 Feature is Suppressed

This filter checks if the feature is suppressed.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

5.7.3.5 Feature is Type

This filter checks if the feature has a specific feature type.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

!	Auto-generated name	✓
Type a description for this filter node here		?
Type:	Component	1

1. Type

Select a feature type that the current feature must have.

5.7.3.6 Feature is Unregenerated

This filter checks if the feature is not generated.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

5.7.3.7 Feature Name

This filter checks if the feature has a name that matches a given expression.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

!	Auto-generated name	✓
Type a description for this filter node here		?
Name:	Type a name here	(.*)

1

1. Name

Enter a number that matches the feature name.

5.7.3.8 Feature Number

This filter checks whether the feature has a number that matches a given expression.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

!	Auto-generated name	✓
Type a description for this filter node here		?
Number:	Type a number here	

1

1. Number

Enter a number to check if the feature has a number that matches a given expression.

5.7.4 Groups

Group node that creates further filter nodes in groups with an “Or” or “And” link.

5.7.4.1 Groups

For more information on “Or” and “And” filters, see [Group](#) ²⁵⁸.

5.7.5 Parameter

This filter group combines all feature filters that filter feature parameters.

5.7.5.1 Feature Parameter

This filter checks whether the current model contains a KE in which a specific value is defined for a parameter.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#) ⁴⁷.

!	Auto-generated name			✓
Type a description for this filter node here				?
Parameter	(.*)	=	Value	(.*)
1	2	3	4	

1. Parameter

Specify the KE parameter to be checked.

2. Operator

Select the operator to use for checking the parameter's value.

3. Value

Enter the value(s) that the parameter must satisfy.

4. Epsilon (Floating-point accuracy)

Specify the precision with which floating-point values should be compared. (Machine epsilon) If no value is specified, the highest possible epsilon value is used.

6 Batch settings

In the *Batch Settings* tab, multiple models can be loaded and edited automatically at the same time. The batch settings serve as the basis for batch processing and determine which models the selected task list is applied to.

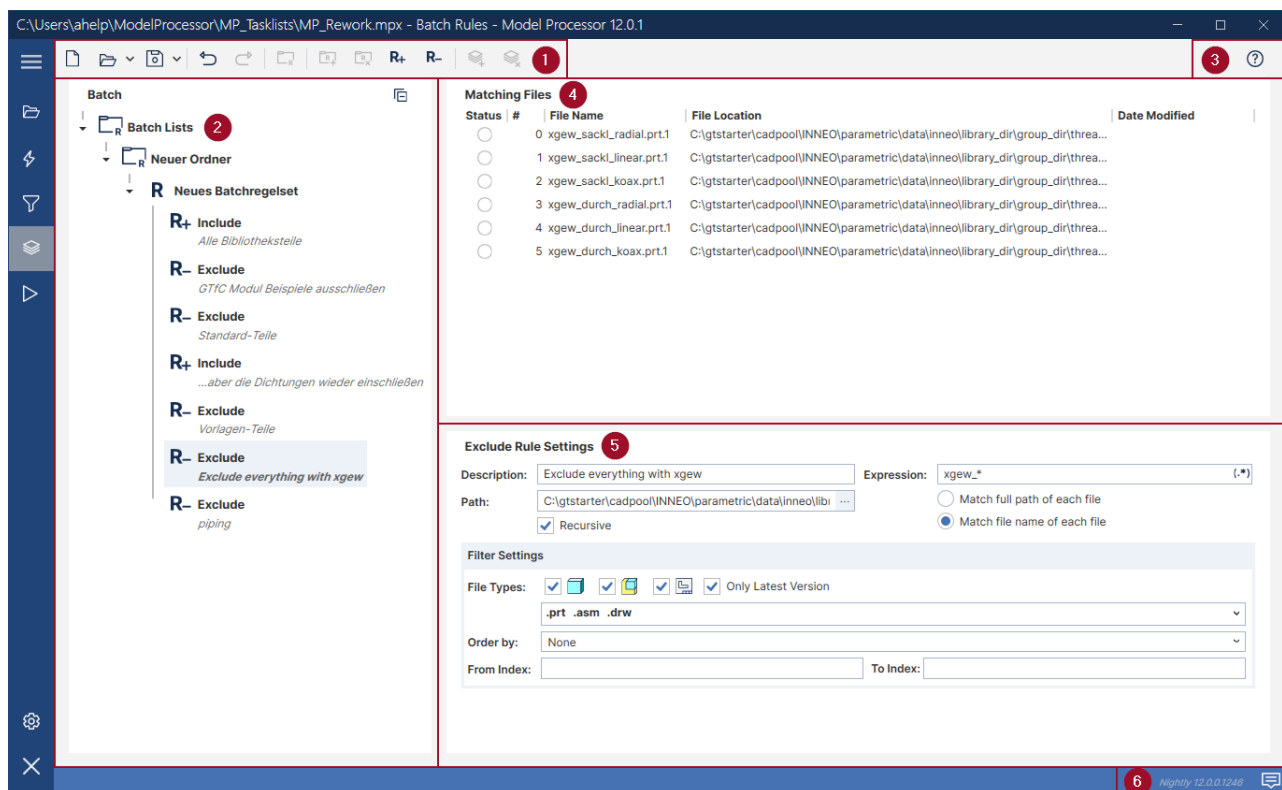
There are two options available for defining the database:

- [Batch rules](#)⁶⁰, which can be used to specifically include or exclude files
- [File lists](#)⁶⁰, in which specific models are listed.

This determines which models the selected task list will be applied to.

6.1 User interface

The user interface of the menu item *Batch Settings* consists of the following sections:



1. [Command bar](#)⁵⁹

2. [Batch Lists](#)⁶⁰

Editable overview of existing batch lists

3. Open help for batch settings

4. Related files

Shows the files to which the selected batch rules apply. The displayed files depend on the selected batch rules (2).

5. Exclude / Include Rule Settings












Area for defining the batch rules.



6. Notifications

Shows whether updates are available.

Command bar

The command bar contains the following commands:



Icon	Name	Description
	New	Create a new empty project.
	Open	Open an existing project as MPX file.
	Save	Save the current project as MPX file, including all assets and project settings that are displayed in the project tree. The arrow icon  opens a drop-down menu with the additional commands <i>Save As</i> and <i>Save Copy</i> .
	Undo	Undo the latest change.
	Redo	Redo the latest undone change.
	Create Subfolder	Create a new empty subfolder under the currently selected folder.
	Create Batch Rule	Create a new empty batch rule inside the currently selected folder.
	Delete Batch Rule	Delete the selected batch rule, including all contained nodes.
	Add Include Rule	Add an include rule to the selected batch rule. Include rules can be used to specify a set of files that are to be included in the resulting file list.
	Add Exclude Rule	Add an exclude rule to the selected batch rule. Exclude rules can be used to specify files that should be excluded from previous include rules.

Icon	Name	Description
	New File List	Create a new empty batch file list inside the currently selected folder.
	Delete File List	Delete the selected file list.

6.2 Create batch list

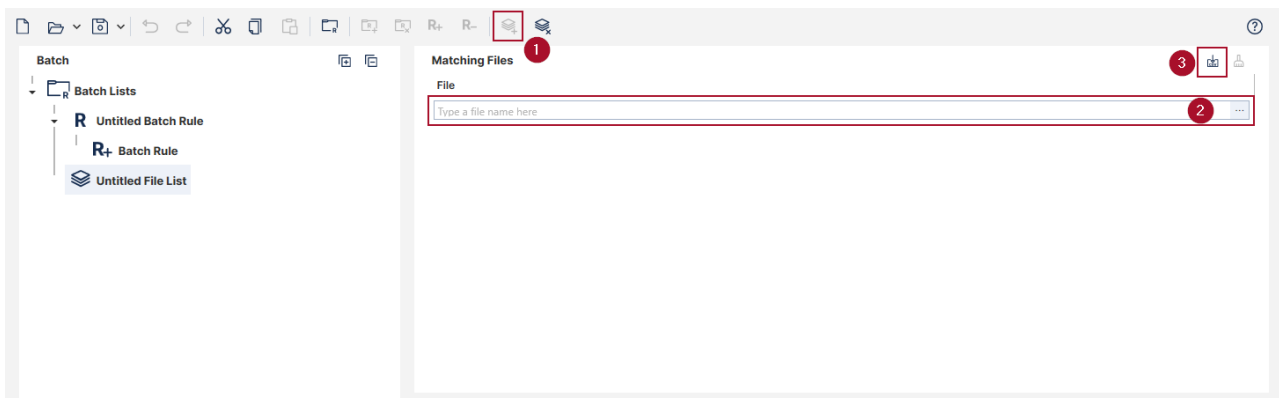
Batch lists are used to provide a defined database for executing tasks. Here you can specify which files should be processed and which should not.




There are two options available for this:

- [Batch rule sets](#) , which are used to filter files dynamically
- [Batch file lists](#) , which contain specific files

6.2.1 Create batch file list

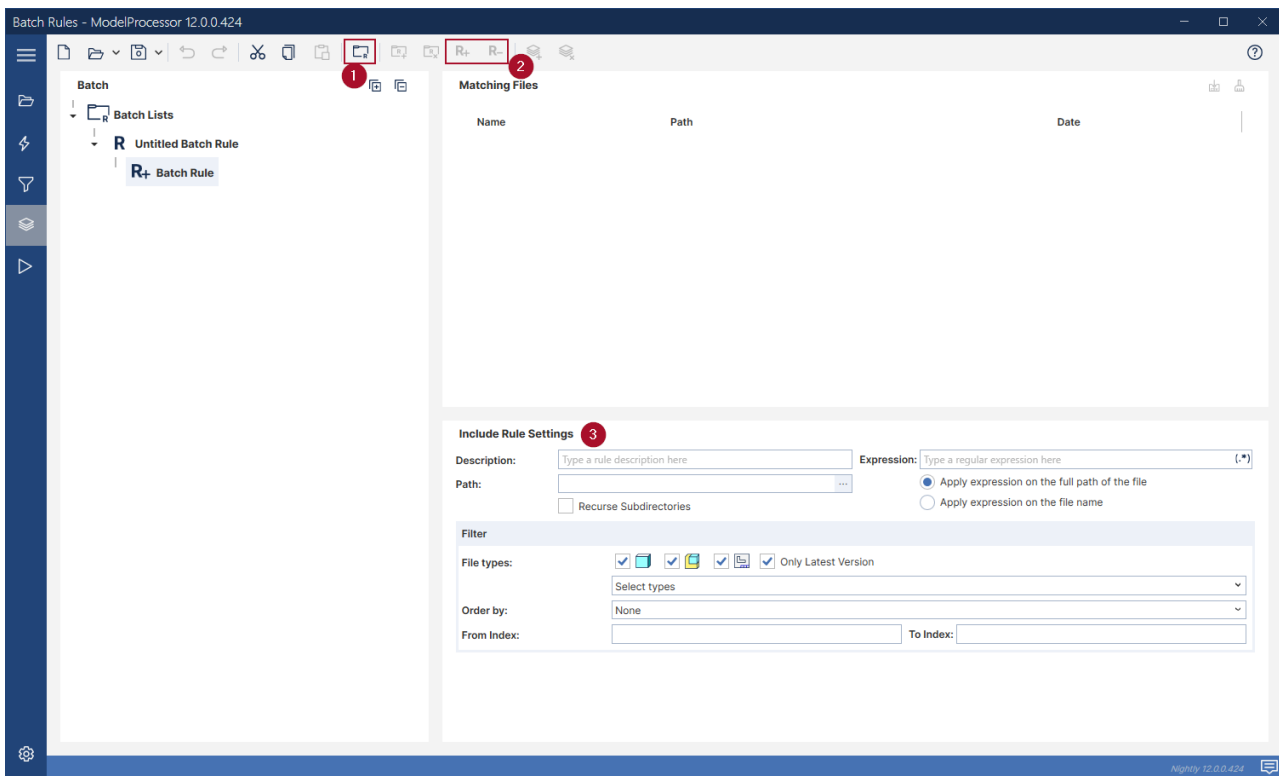
Instead of rule sets, you can also use a fixed file list.






1. Select the New Batch File List  command from the [command bar](#) . This creates a new batch file list in the currently selected subfolder.
 2. Enter the file path of the desired file, or click *Browse...*
- or
3. Select the *Import from CSV*  command to populate the current list from a CSV table.

6.2.2 Define batch rules

Batch rule sets are used to automatically include or exclude files.



1. Select the *New Batch Rule*  command from the [command bar](#) ⁵⁸. This creates a new batch rule in the currently selected subfolder.
2. Select the *Add Include Rule*  or *Add Exclude Rule*  command from the [command bar](#) ⁵⁸. This inserts a subrule under the currently selected batch rule.
3. After a rule has been added, it can be [configured](#) ⁶¹.

Please note: Batch rules are always processed from top to bottom: the output of one rule is the input for the next rule.

Once a file has been excluded, it cannot be re-included by subsequent rules. The order of the rules is therefore crucial for the result.

6.3 Configuring batch mode

The revision conditions for a task list are defined either by batch rules or by a file list. The rules can be saved and applied to other task lists.

Obsolete models must be explicitly created in a batch file list.

PDM

If batch processing is to be performed on data in a PDM system, the first step is to compile a list of the data to be revised in the PDM system and export it in a readable format (Enter-separated TXT file). Hierbeilt is important to note that separate files with more information can also be used, but the file name must be in the first column. The resulting file can now be imported into batch processing using the import icon (2) and then processed like a normal folder.

Use with PDM systems

If batch processing is to be performed via a PDM system, proceed as follows:

1. Compile a list of models to be processed in the PDM system.
2. Export these as a TXT or CSV file (file name in the first column).
3. Import the file into batch processing using the import icon.

Please note: When working with data from a PDM system, files often need to be checked out beforehand (see *Project Properties* in Creo).

6.3.1 Configure batch rules

You can create any number of batch rules. Batch rules can be either **exclude** or **include rules**.

Include Rule

Type of batch rule that specifies that all files matching a specific rule are processed, e.g., all files that start with A.


Exclude Rule

Batch rule that defines files which are to be excluded from previous results, e.g., all files that do not have the file extension *.asm*. Since exclude rules are applied on files that have been specified, they cannot be the first rule in a list.

The screenshot shows the 'Include Rule Settings' dialog box. It contains the following fields and options, each with a red circle and a number indicating a step:

- Description:** A text field with the placeholder 'Type a rule description here' (1).
- Path:** A text field containing 'C:\test\folder\subFolder2' (2).
- Recursive:** A checkbox (3).
- Expression:** A text field containing '^([p].)*\$' (4).
- Match options:** Two radio buttons: 'Match full path of each file' (selected, 5) and 'Match file name of each file'.
- Filter Settings:** A section header (6).
- File Types:** A row of checkboxes for file types (7).
- File Types:** A dropdown menu showing '.prt .asm .drw' (8).
- Order by:** A dropdown menu showing 'None' (9).
- From Index:** A text field (10).
- To Index:** A text field.

1. Description

For a better overview, enter a description for the rule. This will appear in the overview in the left-hand area of the user interface under [Batch Settings](#) .

2. Path


Enter the path to the files to be used for the revision.

3. Recursive

Includes subfolders.

4. Expression

Enables flexible filter criteria with regular expressions or simple text patterns that can contain wildcards. For example, files with a specific prefix or extension can be selected.

Tip: You can use regular expressions anywhere you see a [RegEx](#)  symbol (.*). Click the icon to open the RegEx Editor.

5. Options for regular expression

Select how the regular expression should be applied (this is particularly important when working with folder structures):

- *Match full path of each file*
- *Match full name of each file*

6. Filter Settings

Additional filter options.

7. Set Model filter

Restriction to certain model types.

8. File Types

Select relevant file formats.

9. Order by

Select how the Batch Rule is displayed under *Batch Settings*:

- *None*
- *Name*
- *Date*
- *Path*

10. Index

- *From Index*
- *To Index*

6.3.2 Configure file list

You can enter the models to be revised in a file list.

Matching Files

File

Type a file name here

1. Import list of files from CSV file

Load a list of prepared files.

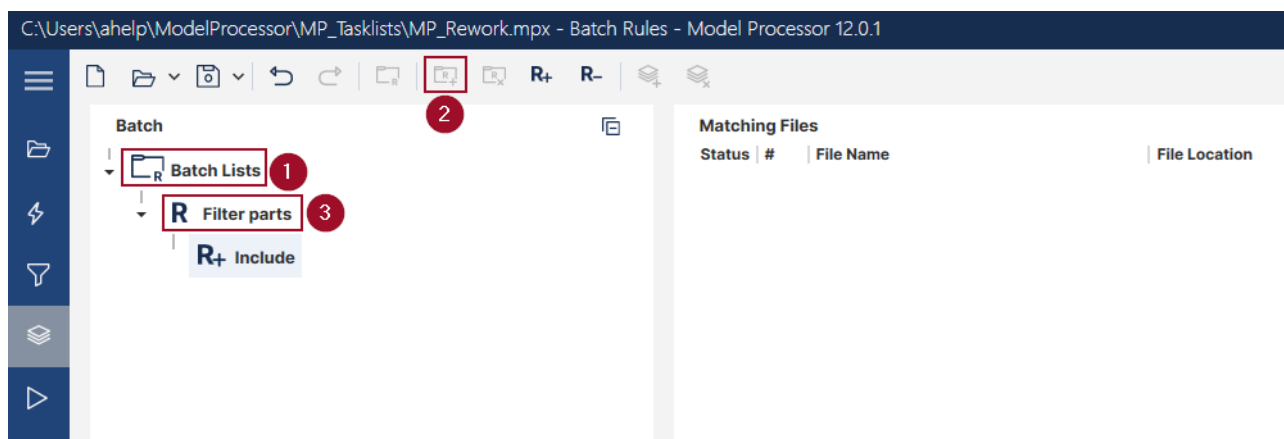
2. File


Enter the name of the file to be edited. As soon as you have made an entry, another line automatically appears for a further entry.

6.4 Example

The following example shows how you can use batch mode to compile your own selection of models. You will learn how to structure batch rule sets, how to define include and exclude rules, and how to import a file list.

Create new batch rule set



1. Select the Batch Lists folder in the left pane.
→ This is the top-level container under which all rule sets and file lists are created. These can also be structured using folders.
2. Click *New Batch Rule Set*  in the command bar.
3. Give the new set a name, e.g., "Filter parts."

Add rules

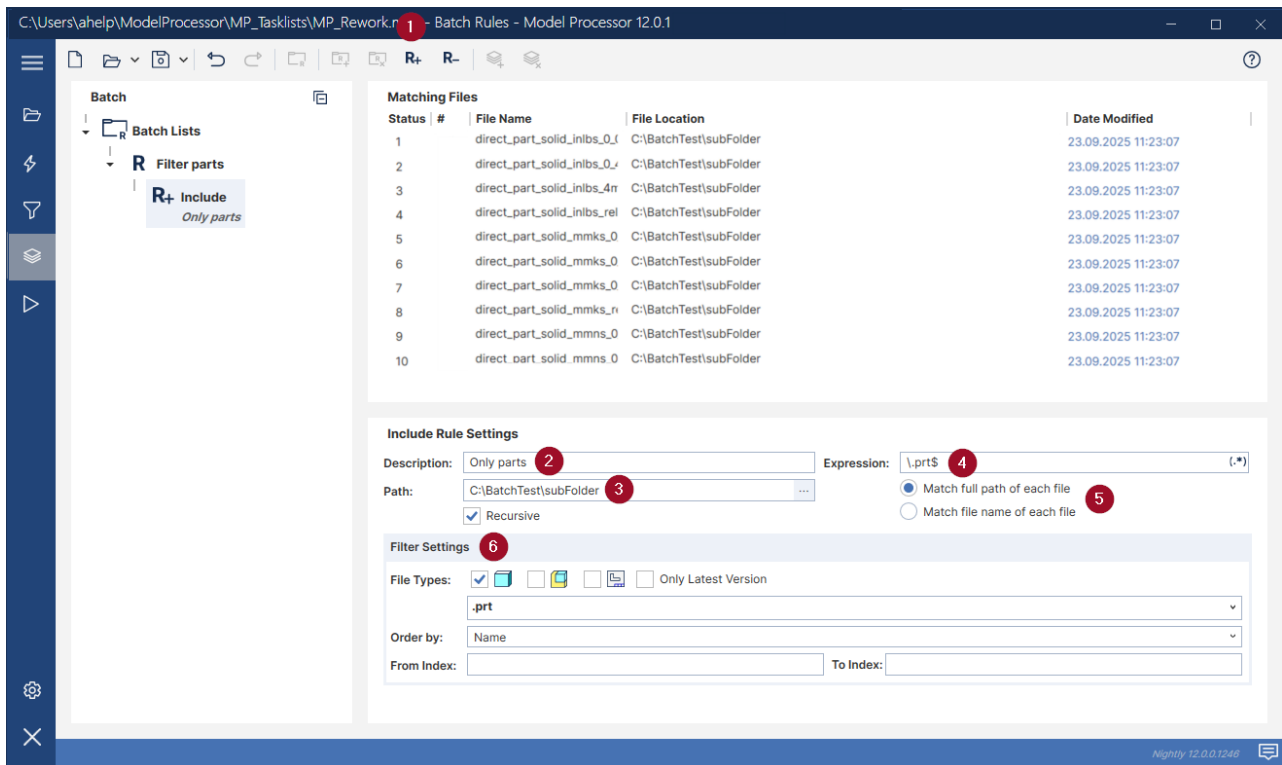
A batch rule set contains any number of rules that are processed sequentially.

Include Rule

Type of batch rule that specifies that all files matching a specific rule are processed, e.g., all files that start with A.

Exclude Rule

Batch rule that defines files which are to be excluded from previous results, e.g., all files that do not have the file extension *.asm*. Since exclude rules are applied on files that have been specified, they cannot be the first rule in a list.



(.*) REGEX EDITOR

Expression: \.prt\$ 4

Test Value

Type a test value here

Status


Insert Regex

Insert Text

1. Click *Add Include Rule* **R+** in the command bar.
2. Enter a description for the rule, e.g., "Parts only." This will be displayed on the left in the "Batch" area in the batch list.
3. Enter a file path or click *Browse...* and select a file path, e.g., "C:\BatchTest\subFolder".
4. If necessary, enter a name to filter by, or use RegEx by clicking *Open Regex Editor* (.) and entering the regular expression, e.g., ".*\.prt\$".
5. Select whether the complete file path or the file names should be filtered.
6. Select File filter settings. You have the following options:
 - File types
 - Sort by
 - Start index
 - End index

Please note: Batch rules are always processed from top to bottom—the output of one rule is the input for the next rule. Once a file has been excluded, it cannot be re-included by subsequent rules. The order of the rules is therefore crucial for the result.

You can see the current status at any time in the Enclosed Files section:

Eingeschlossene Dateien				
Index	Name	File Location	Date Modified	
1	direct_part_solid_inlbs_0_0	C:\BatchTest\subFolder	23.09.2025 11:23:07	
2	direct_part_solid_inlbs_0_0	C:\BatchTest\subFolder	23.09.2025 11:23:07	
3	direct_part_solid_inlbs_4n	C:\BatchTest\subFolder	23.09.2025 11:23:07	
4	direct_part_solid_inlbs_rel	C:\BatchTest\subFolder	23.09.2025 11:23:07	
5	direct_part_solid_mmks_0	C:\BatchTest\subFolder	23.09.2025 11:23:07	
6	direct_part_solid_mmks_0	C:\BatchTest\subFolder	23.09.2025 11:23:07	
7	direct_part_solid_mmks_0	C:\BatchTest\subFolder	23.09.2025 11:23:07	
8	direct_part_solid_mmks_n	C:\BatchTest\subFolder	23.09.2025 11:23:07	
9	direct_part_solid_mmns_0	C:\BatchTest\subFolder	23.09.2025 11:23:07	
10	direct_part_solid_mmns_0	C:\BatchTest\subFolder	23.09.2025 11:23:07	

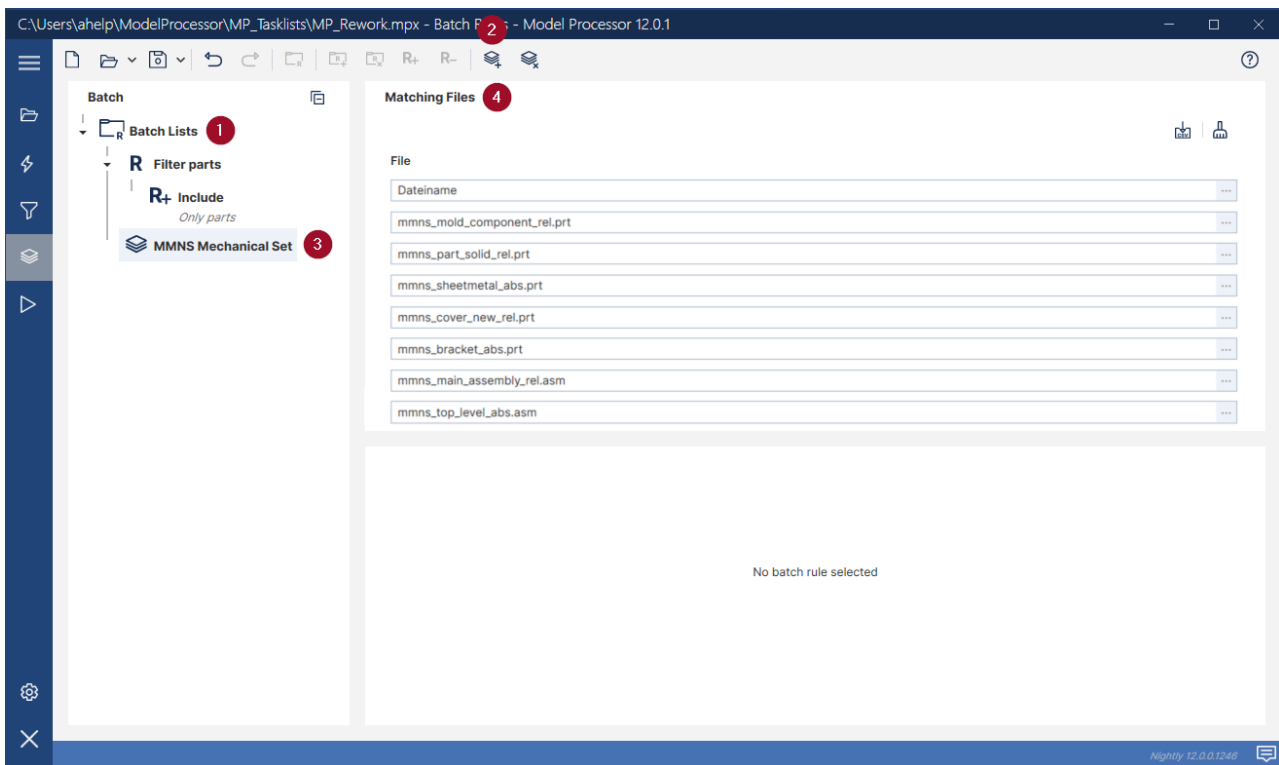
If a set is selected → the files that remain after all rules have been applied are displayed.

If a single rule is selected → the files that are only affected by this one rule are displayed.

This is how you compile your own batch list step by step.

Add a batch file list

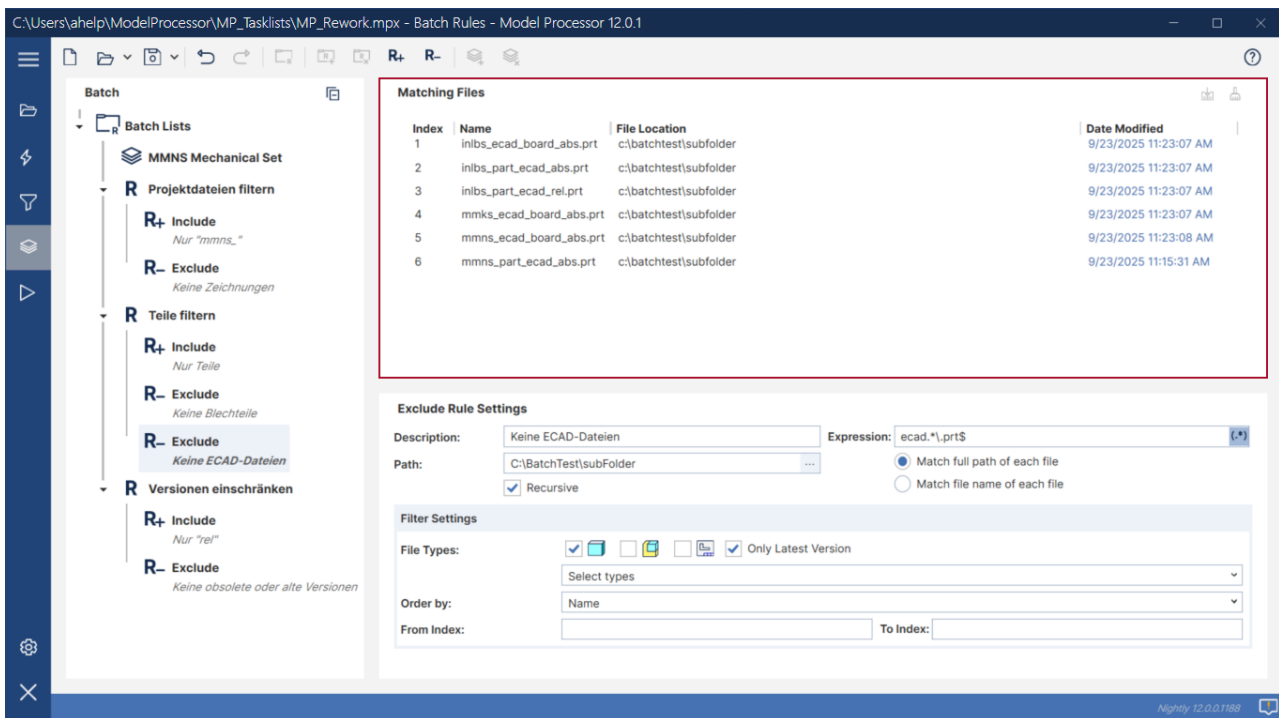
In addition to rules, you can also create a file list.



1. Select the folder in which the file list should be created, e.g., *Batch Lists*.
2. Click *New File List*.
3. Name the file list, e.g., "MMNS Mechanical Set."
4. You now have the following options:
 - Enter files manually:
 1. Enter a path or use the *Browse...* button.
 2. Once a file has been entered, a new line is automatically added for the next entry.
 - Import file list from CSV:
 1. Click Import from CSV. A dialog box will open.
 2. Select the CSV file.
 3. If necessary, specify CSV-specific settings (line breaks, character set, column separators).
 4. Select whether the imported files should be appended to the existing list or whether the existing list should be overwritten.

This allows you to quickly and easily transfer prepared project lists to batch mode.

Check results



In the *Matching Files* section, you will always see an overview of which models are currently included in the selected rule set, rule, or file list.

The display is automatically updated when rules are adjusted or a file list is imported.

Next step

The completed batch list can then be selected in the *Run* tab.

There you can specify which task list is to be applied to the filtered models and then execute it.

7 Run

In the *Run* tab, you can execute defined task lists.

Prerequisites for executing the task lists

1. Edit task lists

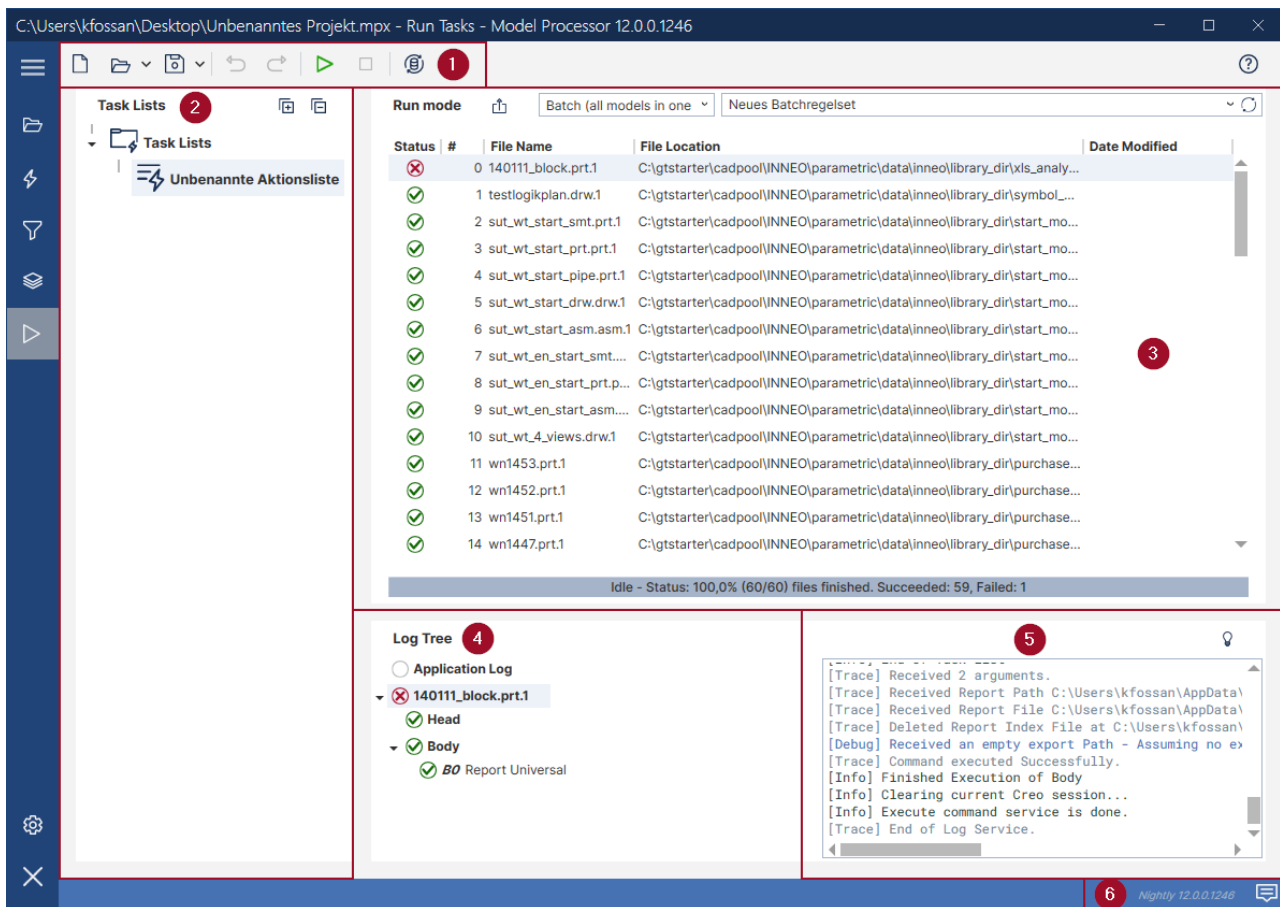
- Install Creo Parametric
- Install GENIUS TOOLS Model Processor and register
- Start Creo Parametric
- Start GENIUS TOOLS Model Processor and establish a connection to Creo Parametric

2. Run task lists

- Open the *Run* tab in GENIUS TOOLS Model Processor
- Select task list and execute
- Logs provide information about the activities of the model processor at any time.

7.1 User interface

The user interface of the menu item *Run* consists of the following sections:



1. Command Bar ⁷¹

2. Task Lists

You will see an overview of the task lists available under Tasks ³⁰. Select the task list you want to execute.

3. Files ⁷²

Select batch mode and display the models to be revised with revision status.

4. Log Tree ⁷⁴

Here you can see the revision status of the task list to be executed.

5. Log and Log Explorer ⁷⁴












Communication log for displaying the revision status of the task list

6. Notifications

Shows whether updates are available.

Command bar

The command bar contains the following commands:

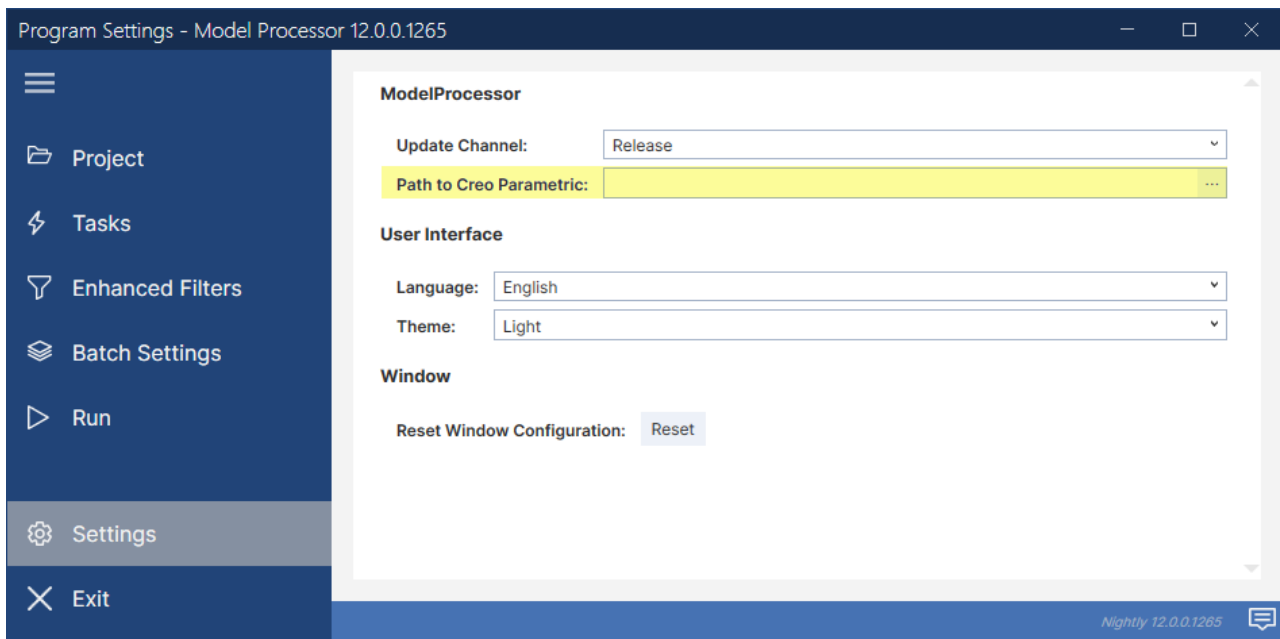
Icon	Name	Description
	New	Create a new empty project.
	Open	Open an existing project as MPX file.
	Save	Save the current project as .mpx file, including all assets and project settings that are displayed in the project tree. The arrow icon  opens a drop-down menu with the additional commands <i>Save As</i> and <i>Save Copy</i> .
	Undo	Undo the latest change.
	Redo	Redo the latest undone change.
	Cut	Cut the currently selected item.
	Copy	Copy the currently selected item to the system clipboard.
	Paste	Paste the content of the system clipboard into the currently selected item.
	Start	Run the currently selected task list.
	Stop	Stop the current run.

7.2 Models in revision

To start revising the models, you must select both a [Run Mode](#)⁷³ and the [Batch Rules](#)⁷⁴ to be applied.

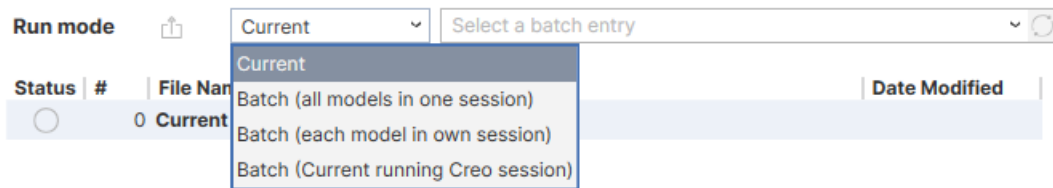
Prerequisite

Ensure that the Creo version to be used for the revision is selected in the *Settings* tab under [Path to Creo Parametric](#)⁷⁶.



Select Mode

Select a mode for executing the task list:

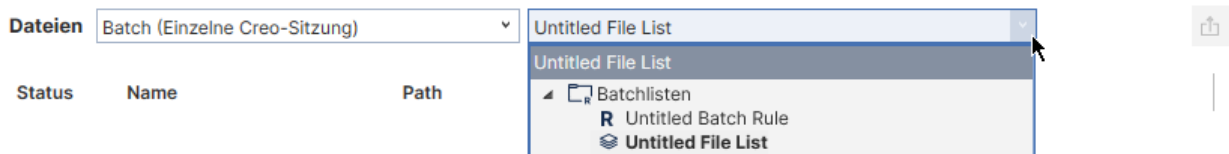


Select Creo session	Description	Is it possible to work with a PDM system?	Is a batch rule necessary for execution?
Current model	The model that is in the active window of Creo at the time the revision is started will be revised. If there is no model there, the revision will be canceled after Head is executed and completed with Foot.	yes	no
Batch (all models in one session)	Model Processor launches Creo Parametric, revises the models, and closes Creo Parametric. Head is executed once, then Body is executed for each model, Foot is executed once and Creo is closed.		yes


Select Creo session	Description	Is it possible to work with a PDM system?	Is a batch rule necessary for execution?
Batch (each model in one session)	Model Processor launches Creo Parametric, revises a model, and closes Creo. This principle is repeated for each model, so that Head, Body, and Foot are executed for each model.		yes
Batch (Current running creo session)	Creo Parametric must be opened and closed by the user. Model Processor performs the revision as for a single session. <i>Head</i> was executed once at the beginning and <i>Foot</i> at the end.		yes

Select Batch List

If you have selected one of these modes (Single Session, Individual Session, Currently Running Session) under Mode, you must also select the batch rules to be applied. You can choose from the batch rules that you have configured under [Batch Settings](#): ⁶¹

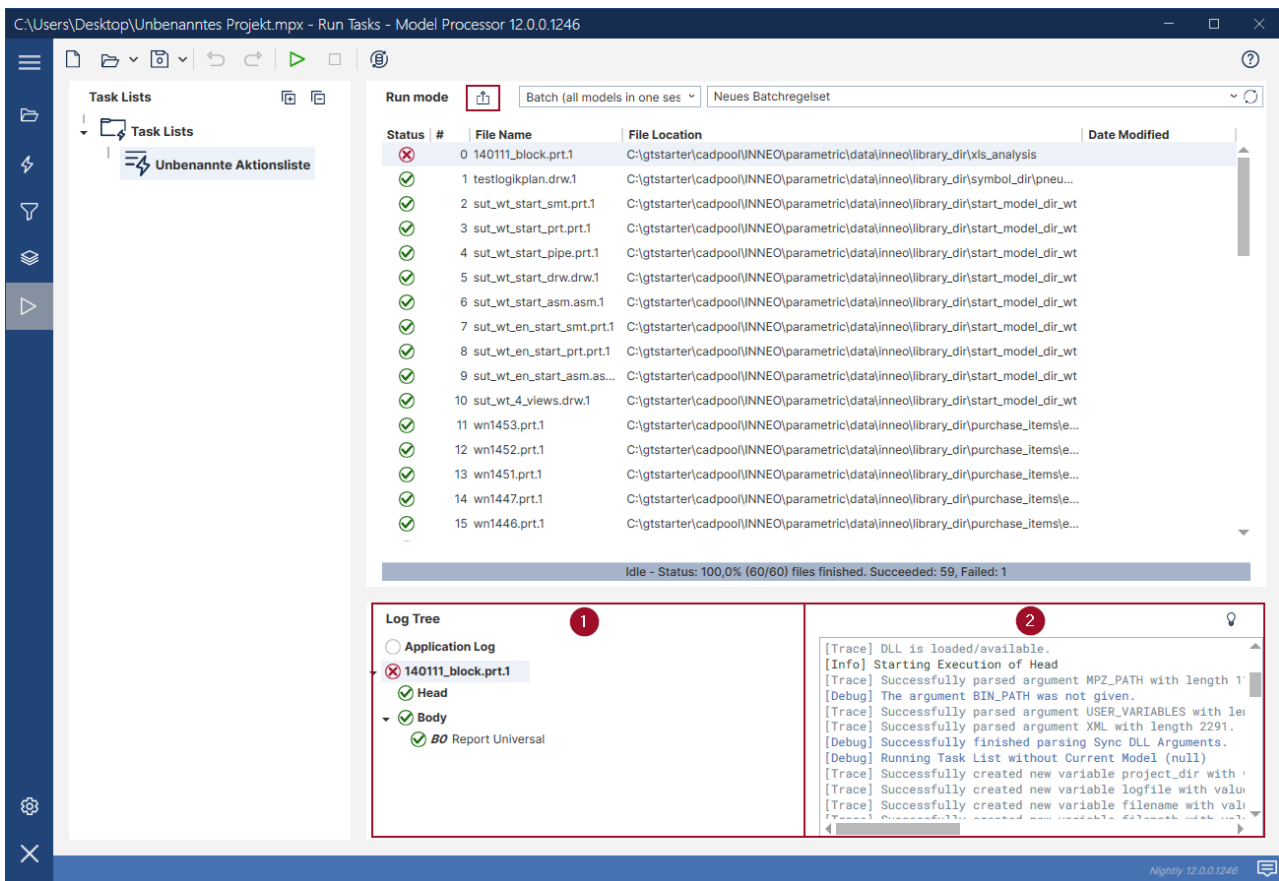


Start revision

Once you have made all the settings, start the revision by clicking **Run** . In the lower section of the user interface, you can track the revision status, see [View Log of the execution](#) ⁷⁴.

7.3 View Log of the execution

At the bottom of the user interface, you can track the revision status of the task list.



1. Log Tree

Here you can see the revision status of the task list to be executed. After an task has been completed, it is marked with a symbol that indicates whether the task was successfully completed:

Symbol Description

- The task was successfully completed.
- The task could not be performed. Check the messages in the Log Explorer to find and fix the error.
- You can export an overview of models whose revision failed as a csv file using *Export names of failed models* .

2. Log

You will see categorized program messages about the revision status with the structure:

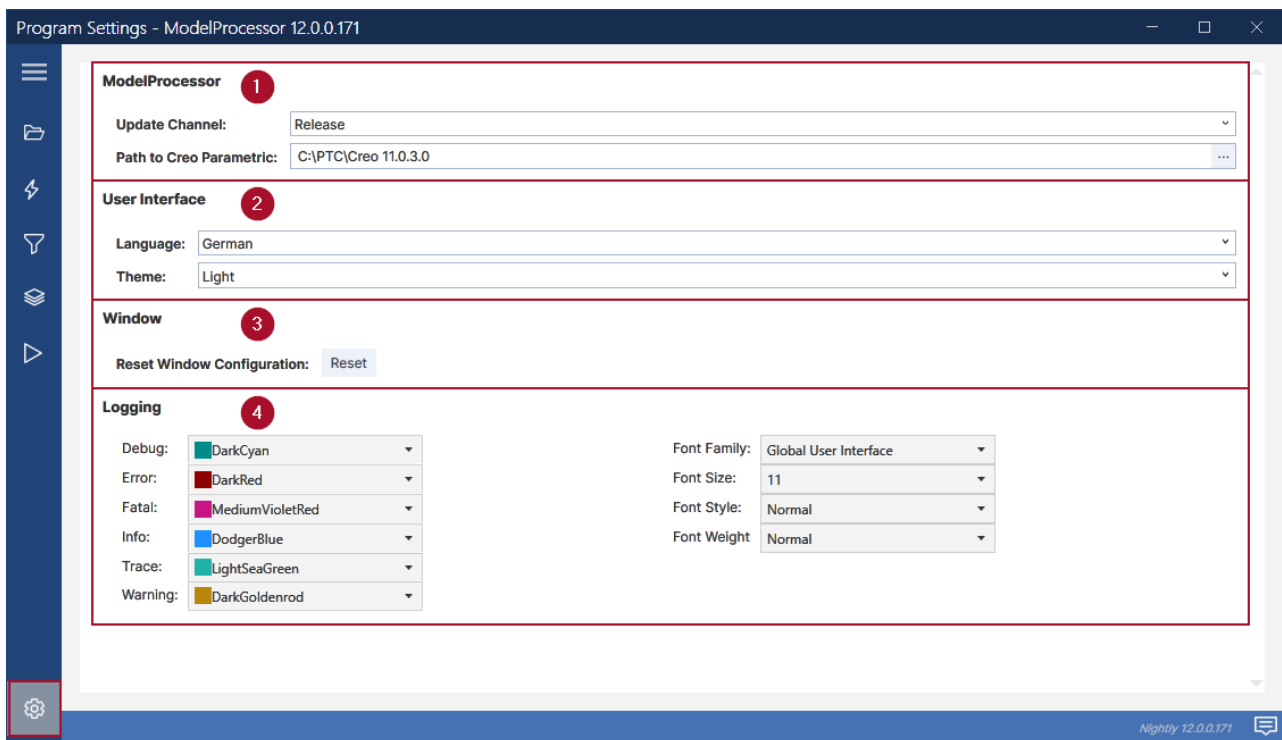
[Message category] Message. You can customize the colors for each message category under *Settings*, see [Color settings for logging](#) ⁷⁷.

8 Settings

In the *Settings* tab, you can configure settings for the Model Processor and its user interface.

8.1 User interface

The user interface of the menu item *Settings* consists of the following sections:



1. Model Processor

- *Path to Creo Parametric:*
Enter the path to the Creo version that is to be used for the revision.


2. User Interface

- *Language:* German, English
You can select the display language for the Model Processor user interface.
- *Theme:* Light, Dark
- You can select a color scheme for displaying the Model Processor user interface.

3. Window

- *Reset Window Configuration:*
Manually set widths and separators are reset.

4. Logging

- Color selection for the [View Log of the execution](#) 
- Settings for font display in Model Processor

9 List of all tasks

The task palette groups tasks into categories. Each category has its own icon, which is displayed inverted in the task tree. Click on a task to go to the sub-chapter in which this task is described in detail.



Appearance

[Clear Appearance](#) ⁸²

[Set Appearance from RGB](#) ⁸³



Body

[Delete Body](#) ⁸⁷

[Rename Body](#) ⁸⁸

[Show/Hide Body](#) ⁸⁹



Combined View

[Add Combined View](#) ⁹¹

[Delete Combined View](#) ⁹²

[Edit Combined View](#) ⁹³

[Set Combined View](#) ⁹⁵



Cross Section

[Add Cross Section](#) ⁹⁶

[Delete Cross Section](#) ⁹⁷

[Set Cross Section](#) ⁹⁷

[Update all Cross Sections](#) ⁹⁸



Drawing

[Edit Drawing Note from Dictionary](#) ⁹⁸

[Remove All Annotations](#) ¹⁰⁰

[Remove Unused Drawing Models](#) ¹⁰⁰

[Replace Drawing Format](#) ¹⁰⁰

[Set Current Drawing Model](#) ¹⁰¹

[Set Current Sheet Scale](#) ¹⁰²

[Show Unbend Features on Views](#) ¹⁰³



Drawing Table

[Add Table](#) ¹⁰³

[Delete Table](#) ¹⁰⁴

[Move Table](#) ¹⁰⁵
















Environment

[Close All Open Windows](#) ¹⁰⁶





[Erase Undisplayed Models](#) ¹⁰⁶

[Load Config from User Variables](#) ¹⁰⁶















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


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
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9.1 Appearance

This category contains tasks that can be used to rework appearances.

9.1.1 Clear Apperance

This task deletes one or more specified color effects.

The **cross-task settings** can be found in the chapter [General task settings](#)  35.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

Clear:

☒ All Appearances

1 ☐ Only selected color: [Color Preview]

☐ Only matching name:

Apply to:

☒ Entire model

2 ☐ All bodies

☐ All model surfaces

☐ All features matching feature filter

1. Clear

Select the appearances to be deleted by one of the following criteria:

- *All Appearances*
- *Only selected color:* Specification of the color value in the hex format with a preview of the color
- *Only matching name*

You can use [Variables](#)²⁷². The icon opens the RegEx Editor.

2. Apply to

- *Entire model*
- *All bodies*
- *All model surfaces*
- *All features matching feature filter:* The section for setting feature filter opens, see [Feature Filter](#)⁵⁰.

9.1.2 Set Appearance from RGB

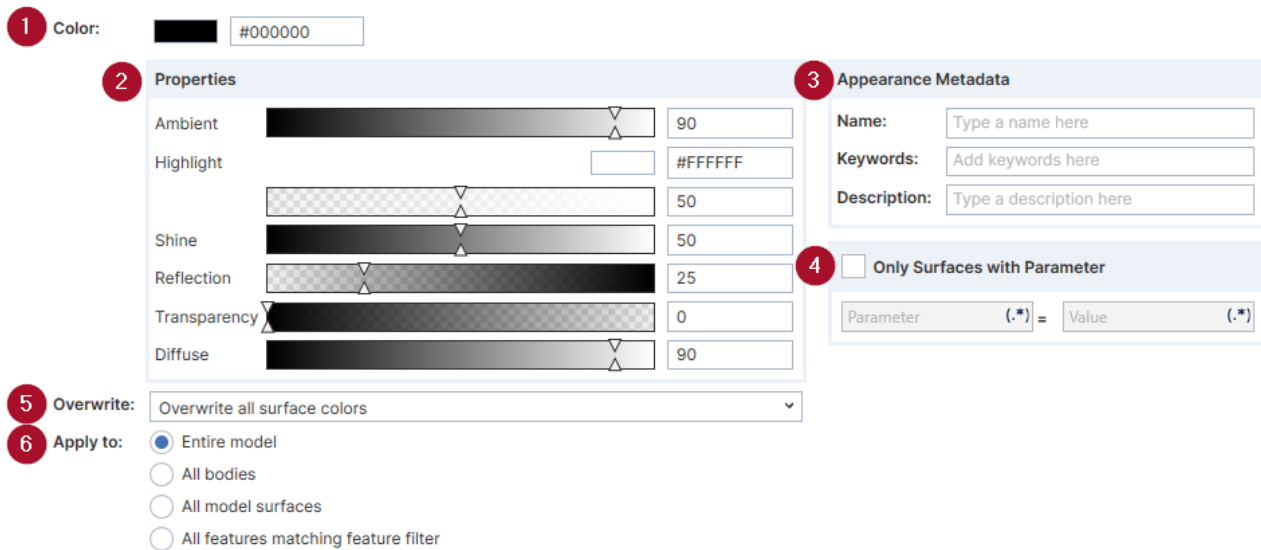
This task changes the appearance of the model to a defined color. In addition to the color to be set, you can also set the color properties from the Appearances Manager.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



The screenshot shows the 'Color Effects Manager' interface with the following elements:

- 1 Color:** A color picker showing black and a hex input field with the value #000000.
- 2 Properties:** A section with sliders and input fields for:
 - Ambient: 90
 - Highlight: #FFFFFF
 - Shine: 50
 - Reflection: 25
 - Transparency: 0
 - Diffuse: 90
- 3 Appearance Metadata:** A section with input fields for:
 - Name: Type a name here
 - Keywords: Add keywords here
 - Description: Type a description here
- 4 Only Surfaces with Parameter:** A checkbox and a parameter definition field:

Parameter (.*?) = Value (.*?)
- 5 Overwrite:** A dropdown menu set to 'Overwrite all surface colors'.
- 6 Apply to:** Radio buttons for:
 - Entire model (selected)
 - All bodies
 - All model surfaces
 - All features matching feature filter

1. Color

Color preview and editable hex value display

You can enter a user variable defined in the [Set Environment Variable](#)¹⁰⁹ task. This has the advantage that the color can be reused in different places.

2. Properties

Additional color properties can be defined, as in the Creo Color Effects Manager:

- *Ambient*
- *Highlight*
- *Shine*
- *Reflection*
- *Transparency*
- *Diffuse*

3. Appearance Metadata

Set properties as they appear in the Creo Color Effects Manager:

- *Name:* Enter a name.
- *Keywords (enter separated by spaces):* Enter keywords.
- *Description:* Enter a discription.

4. Only Surfaces with Parameter

A parameter can be entered here to restrict the task.

5. Overwrite

Settings for handling areas that have already been colored:

- *Overwrite all surface colors*

- *Overwrite only if already colored*
- *Do not overwrite*

6. Apply to:

- *Entire model*
- *All bodies*
- *All model surfaces*
- *All features matching feature filter*

Please note: The color will only be displayed after the model has been redrawn. Therefore, it is possible that the color change will not be immediately visible when revising the current model.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.1.2.1 Set appearance for feature

The action *Set Appearance from RGB* colors features that are only located in assemblies, e.g., cuts, holes, cosmetic threads, etc.

When you select *All features matching feature filter*, the settings for *Component Feature Options* and the KE filter tree are displayed.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

Appearance

Search for tasks...

Clear Appearance

Set Appearance from RGB

Task Settings

Description:

No Filter

Color: #EA008A

Properties

Ambient	<div></div>	90
Highlight	<div></div>	#FFFFFF
	<div></div>	50
Shine	<div></div>	50
Reflection	<div></div>	25
Transparency	<div></div>	0
Diffuse	<div></div>	90

Appearance Metadata

Name:

Keywords:

Description:

Only Surfaces with Parameter

Parameter (.*) = Value (.*)

Component Feature Options

Recurse component features

Set component appearance on model level

Overwrite: Overwrite all surface colors

Apply to:

- Entire model
- All bodies
- All model surfaces
- All features matching feature filter

Feature Filter

! Or

! Auto-generated name

Type a description for this filter node here

Type: Hole

! Auto-generated name

Type a description for this filter node here

Diameter Value = 5

1. Apply To

- All features matching feature filter

2. Component Feature Options

When you select *Recurse component features*, the components of the current assembly are searched.

Wählen Sie die Komponentenebene des Farbeffekts aus:

- *Overwrite all surface colors*
- *Overwrite only if already colored*
- *Do not overwrite*

3. Feature Filter

Enter one or more features to which this task will or will not be applied. To build the feature filter tree, see [Filter Tree](#)⁴².

Exceptions

The following exceptions cannot be colored (when selecting feature):

- The first feature can never be colored. If it is a solid, its surfaces cannot be colored with this task. The first feature can never be colored. If it is a solid, its surfaces cannot be colored with this task.
- Subtypes of extrusions cannot be colored, e.g., sweep. When coloring the entire model, only those surfaces that have not been explicitly assigned a color are colored. The same applies to removing color from the entire model.
- In assemblies, the colors of the assembled parts are retained.
- Further restrictions can be set using feature filters, e.g.:
 - Exclusion of holes with tolerances: Set the feature filter type = `Hole` and `Tolerance = H5` and link this filter with an `AND` link.

9.2 Body

This category contains tasks that modify bodies in multibody assemblies.

9.2.1 Delete Body

This task deletes bodies from the current multibody part.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts

The **task-specific** settings are:

1. Body Filter

When enabled, this determines which body of the current multibody part this task is applied to. When this filter is disabled, this task is applied to all bodies.

2. Body Name

Enter the name of the body. All bodies whose names match the specified expression will be included.

3. Body State

From the drop-down menu, select a filter by status. The following statuses are available:

- *Any State*
- *Empty bodies (bodies without any features)*
- *Bodies without Geometry*

4. Properties

- *Body is Active*: If enabled, only the active body of the current part is returned. If disabled, all other bodies are returned. If not selected, it is ignored.
- *Body is Visible*: If enabled, only visible bodies are returned by this filter.
- *Body is Construction Body*: If enabled, only design bodies are returned by this filter.

5. Material

The body is filtered by the assigned material. To filter bodies that have no material assigned, enter *no_material* or *ptc_system_mtrl_props*.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.2.2 Rename Body

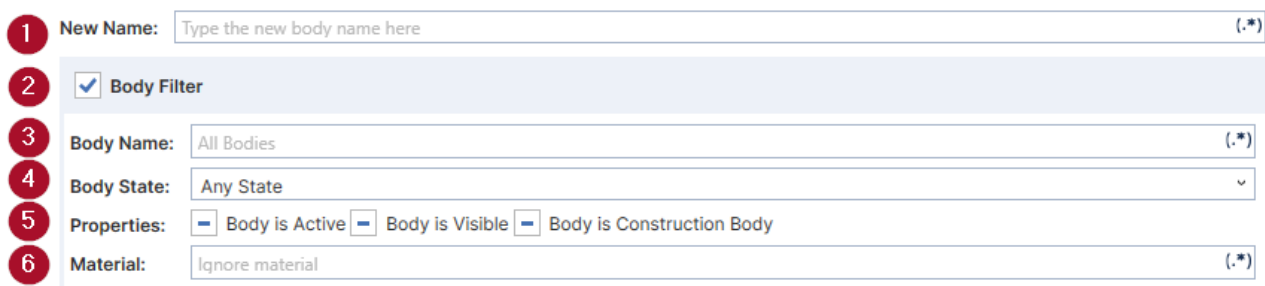
This task renames one or more bodies in the current multibody part.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts

The **task-specific** settings are:



1 New Name: (.*)

2 ☒ Body Filter

3 Body Name: (.*)

4 Body State: ▾

5 Properties: ☐ Body is Active ☐ Body is Visible ☐ Body is Construction Body

6 Material: (.*)

1. New Name

Enter the name to which the found body should be renamed. You can use @line@ to retain the old body name. If regular expressions with capture groups are used in the body filter, these can also be referenced here. In that case, the new name must be a regular expression.

2. Body Filter

When enabled, this determines which body of the current multibody part this task is applied to. When this filter is disabled, this task is applied to all bodies.

3. Body Name

Enter the name of the body. All bodies whose names match the specified expression will be included.

4. Body State

From the drop-down menu, select a filter by status. The following statuses are available:


- *All State*
- *Empty bodies (bodies without any features)*
- *Bodies without Geometry*

5. Properties

- *Body is Active*: If enabled, only the active body of the current part is returned. If disabled, all other bodies are returned. If not selected, it is ignored.
- *Body is Visible*: If enabled, only visible bodies are returned by this filter.
- *Body is Construction Body*: If enabled, only design bodies are returned by this filter.

6. Material

The body is filtered by the assigned material. To filter bodies that have no material assigned, enter *no_material* or *ptc_system_mtrl_props*.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.2.3 Show/Hide Body

This task displays or hides all applicable bodies from the current multibody part.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts

The **task-specific** settings are:

The screenshot shows the 'Body Filter' dialog box in GENIUS TOOLS. It has a light blue header bar with a checked 'Body Filter' checkbox. Below the header are several input fields and checkboxes. Red circles with numbers 1 through 6 point to specific elements: 1 points to the 'Options' section with a 'Show Body' checkbox; 2 points to the 'Body Filter' checkbox; 3 points to the 'Body Name' text input field containing 'All Bodies'; 4 points to the 'Body State' dropdown menu showing 'Any State'; 5 points to the 'Properties' section with three checkboxes: 'Body is Active', 'Body is Visible', and 'Body is Construction Body'; 6 points to the 'Material' text input field containing 'Ignore material'.

1. Options

- *Show Body*: If this option is enabled, all detected bodies will be displayed. If it is disabled, all bodies will be hidden.

2. Body Filter

When enabled, this determines which body of the current multibody part this task is applied to. When this filter is disabled, this task is applied to all bodies.

3. Body Name

Enter the name of the body. All bodies whose names match the specified expression will be included.

4. Body State

From the drop-down menu, select a filter by status. The following statuses are available:


- *All State*
- *Empty bodies (bodies without any features)*
- *Bodies without Geometry*

5. Properties

- *Body is Active*: If enabled, only the active body of the current part is returned. If disabled, all other bodies are returned. If not selected, it is ignored.
- *Body is Visible*: If enabled, only visible bodies are returned by this filter.
- *Body is Construction Body*: If enabled, only design bodies are returned by this filter.

6. Material

The body is filtered by the assigned material. To filter bodies that have no material assigned, enter *no_material* or *ptc_system_mtrl_props*.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.3 Combined View

This category contains tasks that can be used to rework combined views.

9.3.1 Add Combined View

This task adds a combined view. If you use regular expressions or wildcards, you can add multiple combined views.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 Name:

2 Layer State: (.)

3 Orientation: (.)

4 Simplified Representation: (.)

5 Cross Section: (.)

6 Options: ☒ Annotations ☒ Supplemental Geometry

7 Explode State: (.) ☒ Show exploded

8 Style State: (.)

1. Name

Enter the name of the combined view to be added.

2. Layer State

Enter a name for the layer state. The first matching layer state found in the current model is assigned to the combined view found.

3. Orientation

Enter a name for the orientation. The first matching orientation found in the current model is assigned to the combined view found.

4. Simplified Representation

Enter a name for the simplified representation to set the simplified representation of the combined view found to the first match currently found.

5. Cross Section

Enter a cross section to set the cross section of the combined view to the first matching cross section in the current model.

Cross Section Visibility Mode

Select a visibility mode for the cross section:

- *None*
- *Back View*
- *Front View*

6. Options

- *Annotations*

Enable to display annotations in the new combined view.

- *Supplemental Geometry*

Enable to display the additional geometry in the new combined view.

7. Explode State

Sets the explode state of the found combined view to the first exploded state in the current assembly whose name matches the specified expression. Leave the field blank to skip changing the assigned exploded state.

- *Show exploded*: Enable to set the explode state in the new combined view to explode status *explode*.

8. Style State

Sets the style state of the found combined view to the first matching style state. Leave the field blank to not set a style state.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.3.2 Delete Combined View

This task deletes a combined view. If you use regular expressions or wildcards, you can delete multiple combined views.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1

Names:

Type a name here

2 **3** **4**





(.*)

1. Name

Enter the name of the combined view to be deleted.

2. Import list of Cross Sections from CSV file**3. Read combined view names from Creo**

Read all combined view names of the current model from the current Creo session and append all missing names to the list.

4. Clear List

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.3.3 Edit Combined View

This task edits a combined view. If you use regular expressions or wildcards, you can edit multiple combined views.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1	Name:	Type a combined view name here		(.*)
Part & Assembly				
2	Layer State:	Do not change assigned layer state	(.*)	<input type="checkbox"/> Reset
3	Orientation:	Do not change assigned orientation	(.*)	<input type="checkbox"/> Reset
4	Simplified Representation:	Do not change assigned simplified representation	(.*)	<input type="checkbox"/> Reset
5	Cross Section:	Do not change assigned cross section (.)	Front View	<input type="checkbox"/> Reset
6	Options:	<input type="checkbox"/> Annotations <input type="checkbox"/> Supplemental Geometry		
Assembly Only				
7	Explode State:	Do not change assigned explode state (.)	<input type="checkbox"/> Show exploded	<input type="checkbox"/> Reset
8	Style State:	Do not change assigned style state	(.)	<input type="checkbox"/> Reset

1. Name

Enter the name of the combined view to be added.

2. Layer State

Enter a name for the layer state. The first matching layer state found in the current model is assigned to the combined view found.

- *Reset*: Enable to reset the layer state of the combined view found to the default setting.

3. Orientation

Enter a name for the orientation. The first matching orientation found in the current model is assigned to the combined view found.

- *Reset*: Enable to reset the orientation of the combined view found to the default setting.

4. Simplified Representation

Enter a name for the simplified representation to set the simplified representation of the combined view found to the first match currently found.

- *Reset*: Enable to reset the layer state of the simplified representation found to the default setting.

5. Cross Section

Enter a cross section to set the cross section of the combined view to the first matching cross section in the current model.

- *Reset*: Enable to reset the layer state of the cross section found to the default setting.

Cross Section Visibility Mode

Select a visibility mode for the cross section:

- *None*
- *Back View*
- *Front View*

6. Options

- *Annotations*

Enable to display annotations in the combined view.

- *Supplemental Geometry*

Activate to display the supplementary geometry.

7. Explode State

Sets the explode state of the found combined view to the first explode state in the current assembly whose name matches the specified expression. Leave the field blank to skip changing the assigned explode state.

- *Reset*: Enable to reset the exploded state of the found combined view to the default setting.

8. Style State

Sets the style state of the found combined view to the first matching style state. Leave the field blank to not set a style state.

- *Reset*: Enable to reset the style state of the found combined view to the default setting.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.3.4 Edit Default Combined View

This task edits the configuration of the default view of the current model.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.


Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1

Layer State:


☐ **Reset**

2

Options:


☐ Annotations

☐ Supplemental Geometry

1. Layer State

Enter the name of the layer state. The first matching layer state found in the current model is assigned to the default view.

- *Reset*: When enabled, it resets the slide state of the default view to the default setting.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

2. Options

- *Annotations*

When enabled, annotations are displayed in the default view.

- *Supplemental Geometry*

When enabled, the additional geometry is displayed in the combined view.

9.3.5 Set Combined View

This task sets a combined view. If you work with regular expressions or wildcards, you can set multiple combined views.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 **Name:** (.*)

1. Name

Enter the name of the combined view to be set.

You can use [Variables](#)²⁷². The icon (.*) opens the RegEx Editor.

9.4 Cross Section

This category contains tasks that can be used to rework cross sections.

9.4.1 Add Cross Section

This task adds a Cross Section to the model.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 **Name:**

2 **Type:**

3 **Reference Plane:** (.*)

☐ Flip Direction

4 **Distance:**

1. Name

Enter the name of the Cross Section to be added.

2. Type

Select the type of cross-section to be added:

- *Parallel*: Parallel to a plane
- *Planar*: Lying on a plane

3. Reference Plane

Enter the name of the reference plane.

- *Flip Direction*: Check the checkbox to activate this option.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

4. Distance

Enter the distance to the reference plane if you have selected the *Parallel* option under Type (2).

9.4.2 Delete Cross Section

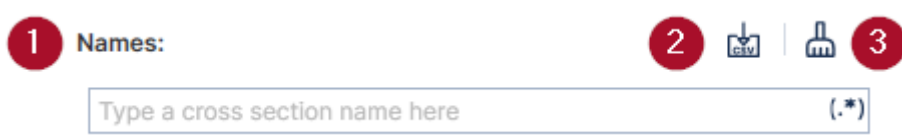
This task deletes a Cross Section. If you are working with regular expressions or wildcards, you can delete multiple Cross Sections.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



1. Names

Enter the name of the Cross Section to be deleted.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

2. Clear List

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

3. Import list of Cross Sections from CSV file.

9.4.3 Set Cross Section

This task sets the model to a Cross Section.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 Set to: ☐ Toggle ☒ Enabled ☐ Disabled

2 Cross Section: (.*)

1. Set to

Select how the Cross Section is to be set:

- *Toggle*
- *Enabled*
- *Disabled*

2. Cross Section

Enter the name of the Cross Section to be set.

You can use [Variables](#)²⁷². The icon (.*³⁵) opens the RegEx Editor.

9.4.4 Update all Cross Sections

This task updates the data of all Cross Sections to the current data format.

Please note: This Task converts Cross Sections into the data format supported from Creo 2 onwards.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

9.5 Drawing

This category contains tasks that can be used to rework drawings.

9.5.1 Edit Drawing Note from Dictionary

This task processes a drawing note from the dictionary.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 Look-Up Source: ☒ Note Text
☐ Note ID

2 Sheets: ☐ Change the current drawing sheet only

3 Dictionary File:

4 Format:

5 CSV Format-specific Settings

Line Breaks:

Encoding:

Separator Character:

Columns: (.*?) (.*?)

Ignore: ☐ () ☐ [] ☐ {}

6 Options: ☐ Translate parts of values if no complete translation is found

7 If no translation found:

8 Fallback Value:

1. Look-Up Source

- *Note Text*: Searches the dictionary for the note text of the note to be translated.
- *Note ID*: Searches the dictionary for the numeric note ID.

2. Sheets

Only the current drawing sheet is changed. If this option is not activated, all drawing sheets are changed one after the other.

3. Dictionary File

Specify the dictionary file to be used for lookup.

4. Format

List of formats to choose from:

- CSV
- SQLite
- JSON

5. Format-specific Settings

Specify settings for CSV, SQLite, or JSON.

6. Options

- *Translate parts of values if no complete translation is found*: Model Processor searches for partial matches if no complete translation is found.

7. If no translation found

Select option if no matching value is found in the specified dictionary.

- *Store fallback value*
- *Delete Drawing Note*
- *Keep old value (do not change anything)*

8. Fallback Value

If no matching translation is found, this value is stored to the drawing note.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.5.2 Remove All Annotations

This task removes all annotations from a drawing.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Drawings

9.5.3 Remove Unused Drawing Models

This task removes all unused drawing models.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Drawings

9.5.4 Replace Drawing Format

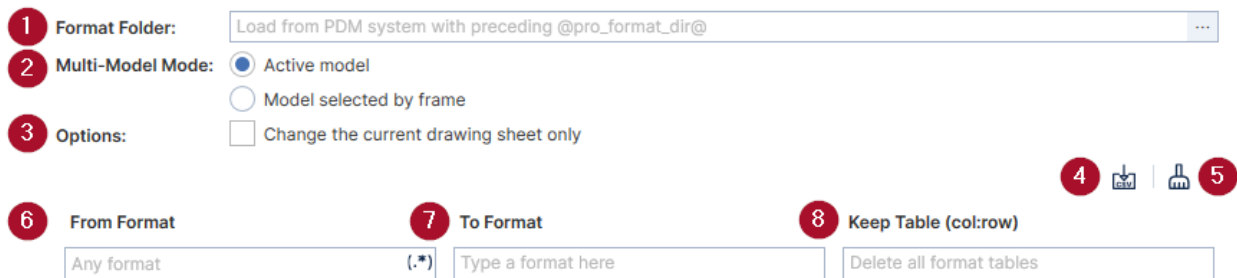
This task replaces one or more drawing formats.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:



1. Format Folder

Specify a folder from which the new drawing formats are to be loaded. Variables such as @project_dir@ and @pro_format_dir@ can be used.

2. Multi-Model Mode

- *Active model*: Use the active model of the current drawing as the active model for each drawing frame.
- *Model selected by frame*: Use the model defined in the frame as the active model for each drawing frame.

3. Options

- *Change the current drawing sheet only*: Only the current sheet of the current drawing will be changed.

4. Import list of Cross Sections from CSV file

5. Clear List

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

6. From Format

Only the format of specified sheets will be changed. The specified format must be located in the format folder. Use "no_format" to include sheets without a format.

7. To Format


The specified format should be assigned to each matching sheet. The specified format must be located in the format folder.

8. Keep Table (col:row)

When changing the drawing format, tables in the old format are not deleted at the specified position. 0:0 is the lower left corner and -1:-1 is the upper right corner of the sheet.

9.5.5 Set Current Drawing Model

This task changes the current model of a drawing.

The **cross-task settings** can be found in the chapter [General task settings](#)  35.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 **Model:** (.)

1. Model

Enter the name of the model (part or assembly) that is set as the current drawing model. The model must first be assigned to the drawing as the drawing model.

You can use [Variables](#)²⁷². The icon (.) opens the RegEx Editor.

9.5.6 Set Current Sheet Scale

This task sets the scale of the currently selected sheet.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 **Scale:**

1. Scale

Enter the scale to be set.

Please note: Calculate the scale and enter it as a decimal fraction, e.g. 0.2. It is not possible to enter it as a common fraction.

9.5.7 Show Drawing Format

This task shows or hides the drawing format of the current drawing.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 **Options:** ☐ Show drawing format

1. Options

- *Show drawing format*: Check the box, if the drawing format of the current drawing is to be displayed. If unchecked, the drawing format will be hidden.

9.5.8 Show Unbend Features on Views

This task displays unbend features in all drawing views of the current drawing.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Drawings

9.6 Drawing Table

This category contains tasks which edit drawing tables.

9.6.1 Add Table

This task adds a table from a .tbl file to the current drawing at the specified position.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 **Table File:** ...

2 | 3

4 **Format Name** 5 **Sheet Number** 6 **Position (x:y)**

(.) *

1. Table File

Select the file that contains the table you want to add.

2. Import list of Cross Sections from CSV file

3. Clear List

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

4. Format Name

Enter the name of the format to which the table should be added. Sheets without a format correspond to *"no_format"*.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

5. Sheet Number

Enter the sheet number so that the table is only added to sheets with this specified sheet number.

6. Position (x:y)

Enter the position so that the table is added to the specified position. 0:0 is the lower left corner and -1:-1 is the upper right corner of the sheet.

9.6.2 Delete Table

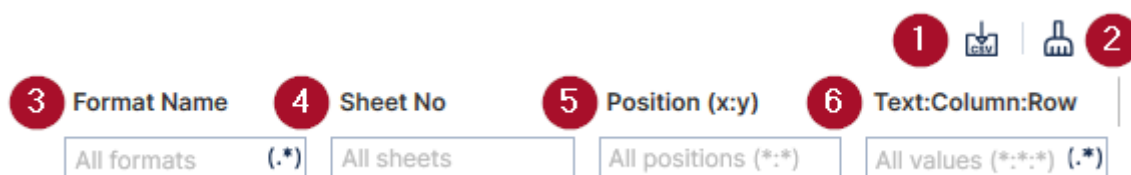
This task deletes one or more drawing tables.



The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter


This task can revise the following models: Drawings

The **task-specific** settings are:



1  |  2

3 **Format Name** 4 **Sheet No** 5 **Position (x:y)** 6 **Text:Column:Row**

All formats  All sheets All positions (*:~) All values (*:~:~) (*:~:~)

1. Import list of Cross Sections from CSV file

2. Clear List

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

3. Format Name

Enter the format name so that tables on sheets with this format name are deleted. Sheets without a format correspond to *"no_format"*.

4. Sheet No


Enter the sheet number so that the table with this number on the sheet is deleted.

5. Position (x:y)

Enter the position from the table that is to be deleted. 0:0 is the lower left corner and -1:-1 is the upper right corner of the sheet.

6. Text:Column:Row

Enter the text, column and row of the table. Only tables that match the specified text at the specified position are deleted. Table indexes start at one (1). Column and row indexes can be replaced by * to ignore the column/row index or both.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.6.3 Move Table

This task moves one or more drawing tables.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:



1. Import list of Cross Sections from CSV file

2. Clear List

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

3. Format Name

Enter a name for the drawing format so that only these tables are moved.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

4. Sheet No

Enter the sheet number so that only the table on the sheet with this number is moved.

5. Old Position (x:y)

Enter the position from the table that is to be moved. 0:0 is the lower left corner and -1:-1 is the upper right corner of the sheet.

6. Text:Column:Row

Enter the text with the position so that only this table is moved. Column and row indexes start at 1. * can be used as a placeholder. Regular expressions can be used.

7. Position Position (x:y)

Enter the new position of the table where it should be moved. 0:0 is the lower left corner and -1:-1 is the upper right corner of the sheet.

9.7 Environment

This category contains tasks that can be used to edit the operating environment.

9.7.1 Close All Open Windows

This task closes all windows and clears the session if necessary.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

- 1 ☒ Erase all undisplayed models

1. Erase all undisplayed models

If the checkbox is activated, models that are no longer displayed after the window is closed are removed from the session.

Please note: The Task should not be used in the *current model* and *create new model* modes.

9.7.2 Erase Undisplayed Models

This task erases models that are not displayed.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Tip: In most Task Lists, this function is only useful if it is used in the header or footer area.

9.7.3 Load Config from User Variables

This task loads a configuration from user variables.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1 Name:

1. Name

Enter the name of the configuration to be loaded.

9.7.4 Run Javascript

This task executes a JavaScript script.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1 User Variable:

2

1. User Variable

Enter the user variable.

2. Text field for entering the JavaScript script

Enter the script that is to be executed.

The following functions can be used to read and write user variables:

Get and set user variables: `getUserVar(""); // setUserVar("", "");`

Info text: `alert("");`

Info text: `log_message("");`

Error message: `log_error("");`

Warning text: `log_warning("");`

9.7.5 Save Config to User Variables

This task saves a configuration in user variables.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1 Name:

2 Config Keys: (*)

3

4

1. Name

Enter the name of the configuration.

2. Config Keys

Enter the configuration keys to be saved.

3. Import list of Cross Sections from CSV file

4. Clear List

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

You can use [Variables](#)²⁷². The icon opens the RegEx Editor.

9.7.6 Set Config Options

This task sets one or more configuration options. If you are working with regular expressions or wildcards, you can set multiple configuration options.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Config Options:

3

(.*)

4

1

2

1. Import list of Cross Sections from CSV file

2. Clear List

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

3. Config Option

Enter the name of the configuration option to be set. As soon as you have made an entry, another line for a further entry appears automatically.

You can use [Variables](#)²⁷². The icon opens the RegEx Editor.

4. Configuration Value

Enter the value with which the configuration option is set.

9.7.7 Set Environment Variable

This task sets an environment variable.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1

Variable Name:

2

Variable Value:

1. Variable Name

Enter the name of the environment variable to be set.

2. Variable Value

Enter the value of the environment variable to be set.

9.7.8 Set Working Directory

This task sets a working directory.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1 Directory:

1. Directory

Enter the folder path to which you want to change. You can use [Variables](#)²⁷² in the name.

9.7.9 Start Mapkey


This task starts a mapkey.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1 Mapkey: 2  Reformat

3 Run:

1. Mapkey

Enter or insert the mapkey. Note the following:

- Mapkeys can only be executed on the open main model, not within groups that open another model in Creo.
- You can use all [Variables](#)²⁷² in the mapkey.

Warning: If variable characters are used in a map key, they must be escaped: `@` must become `@@` and `%` must become `%` so that the characters are not replaced, e.g., @mdlIn@ must be replaced by "@@mdlIn@".

– To address a mapkey, it must be addressed as follows: `%%MAPKEYNAME;`

Please note: When using paths, a mapkey requires four backslashes. The individual backslashes must therefore be replaced by four backslashes. This happens particularly frequently when using environment variables, e.g. `$$repl$\$\\$\\$\\$\\$TEMP$$$` - Replaces the backslashes in a mapkey-compatible manner when using the environment variable Temp.

2. Reformat

This function is activated as soon as there is an entry under Mapkey (1). Reformatting optimizes the mapkey by removing superfluous code components and applying formatting rules to the mapkey.

3. Run

Select the runtime of the mapkey:

- *Only once*
- *Per sheet*
- *Per instance*
- *Per view*
- *Per selection*

9.7.10 Start MS-DOS Command

This task executes a system command.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1

Script:

Type a Batch script here

2

Arguments:

Type process arguments to pass to the Batch script here

3

Save results to user variables:

Out:

Type a variable here

Err:

Type a variable here

Ret:

Type a variable here

4

☐ Run in Background

Wait Time (s):

Type a wait time in seconds here

1. Script

Enter your own script. Alternatively, you can load a script from an .mpx file. You load an .mpx file from a script. Write the following as a script: `CALL "%*"`

2. Arguments

You can enter arguments that are passed to the script. If you call an .mpx file from a script, enter: `"@project_dir@Skript.bat"`

Please note: User variables must be specified under *Arguments* (2).

3. Save results to user variables

Enter the names of the user variables that you want to fill.

- *Out* (Default Off)
- *Err* (Default Error)
- *Ret* (Return code): If the script was executed without errors, 0 is returned. All values other than 0 are an error.

Please note: Special case: If the same variable is entered for *standard output* and *standard error*, the values are applied asynchronously. The result is that the output and error are displayed in the console in the same format, i.e. either a *standard output* or an *error* is displayed.

4. Run in Background


If this option is enabled, the script will be launched in a separate process that runs in the background.

5. Wait Time (s)

Specify how many seconds the script should wait before it is executed in the background.

9.7.11 Start PowerShell Command

This task starts a PowerShell command.

The **cross-task settings** can be found in the chapter [General task settings](#)  35.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1 Script:

2 Arguments:

Type process arguments to pass to the PowerShell script here

3 Save results to user variables:

Out: Type a variable here

Err: Type a variable here

Ret: Type a variable here

4 ☐ Run in Background

5 Wait Time (s):

Type a wait time in seconds here

1. Script

Enter your own script. Alternatively, you can load a script from an .mpx file. You load an .mpx file from a script. Write the following as a script: `CALL "%*"`

2. Arguments

You can enter arguments that are passed to the script. If you call an .mpx file from a script, enter: `"@project_dir@\Skript.bat"`

Please note: User variables must be specified under *Arguments* (2).

3. Save results to user variables

Enter the names of the user variables that you want to fill.

- *Out* (Default Off)
- *Err* (Default Error)
- *Ret* (Return code): If the script was executed without errors, 0 is returned. All values other than 0 are an error.

Please note: Special case: If the same variable is entered for *standard output* and *standard error*, the values are applied asynchronously. The result is that the output and error are displayed in the console in the same format, i.e. either a *standard output* or an *error* is displayed.

4. Run in Background

If this option is enabled, the script will be launched in a separate process that runs in the background.

5. Wait Time (s)

Specify how many seconds the script should wait before it is executed in the background.

9.7.12 Start Python Script

This task starts a Python script.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1 Script:

2 Arguments: ☐ Override Python interpreter executable
Type process arguments to pass to the Python interpreter here. If the interpreter executable is overridden, type the full path to the Python interpreter executable here.

3 Save results to user variables:
Out: Err: Ret:

4 ☐ Run in Background

5 Wait Time (s):

1. Script

Enter your own script.

2. Arguments

- *Overwrite the executable Python interpreter.* Check the box to activate this option.
- You can enter arguments in the text field that are passed to the script.

Please note: User variables must be specified under *Arguments* (2).

3. Save results to user variables

Enter the names of the user variables that you want to fill.

- *Out* (Default Off)
- *Err* (Default Error)
- *Ret* (Return code): If the script was executed without errors, 0 is returned. All values other than 0 are an error.

Please note: Special case: If the same variable is entered for *standard output* and *standard error*, the values are applied asynchronously. The result is that the output and error are displayed in the console in the same format, i.e. either a *standard output* or an *error* is displayed.

4. Run in Background

If this option is enabled, the script will be launched in a separate process that runs in the background.

5. Wait Time (s)

Specify how many seconds the script should wait before it is executed in the background.

9.7.13 Start Trail File

This task executes a trail file.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1 Trail File:

1. Trail File

Enter the Creo tril file to be started.

9.7.14 Transform XSLT

This task performs an XLST transformation. Use this task if you want to convert an XML file to another format or edit data within an XML file.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1 Input Variable:

2 Output Variable:

3

1. Input Variable

Enter the input variable.

2. Output Variable

Enter the output variable.

3. Text field for entering an XSLT script

Enter a script.

9.7.15 Write to Creo Log

This task writes a message to the Creo message log.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1 Message:

1. Message

Enter a message that will be written to the Creo message log.

Tip: You can use [Variables](#)²⁷².

9.7.16 Write to Model Data

This task writes user-defined content to a model data slot.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1 Save name:

2 Content:

1. Save Name

Type a slot name here.

2. Content

Enter the content that is to be written to the model data.

9.8 Explode State

This category contains tasks which rework explode states.

9.8.1 Add Explode State

This task adds an explode state with a specified name.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Assemblies

The **task-specific** settings are:

1 Name:

1. Name

Name of the explode state to be added

9.8.2 Delete Explode State

This task deletes the specified explode state. If you use regular expressions or wildcards, you can delete multiple explode states.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Assemblies

The **task-specific** settings are:

1 Name: **2**  | **3** 

(.*)

1. Import list of exploded views from CSV file

2. Clear list

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

3. Name

Name of the explode state to be deleted

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.8.3 Set Explode State

This task sets a defined explode state by specifying the name.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Assemblies

The **task-specific** settings are:

1 **Name:** 

1. Name

Name of the explode state to be set

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

Requirements

A visibly open model is required to perform this task.

Frequently used tasks

This task is often used before generating images or PDFs.

9.8.4 Toggle Explode State

This task toggles the current explode state.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Assemblies

The **task-specific** settings are:

- 1 Toggle Mode: ☒ Toggle
☐ Enable
☐ Disable

1. Toggle Mode

Select the mode into which an exploded view is to be switched:

- *Toggle*
- *Enable*
- *Disable*

9.9 Export

This category contains tasks which edit export settings.

9.9.1 Export 2D PDF

This task exports a model as a 2D PDF file to a selectable location.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1	Export Directory:	<input type="text" value="Type a target path here or browse for a folder..."/>	... Client ▾	2
3	Export file name:	<input type="text" value="Type a file name here"/>		
		<input type="checkbox"/> Export to model directory		
		<input type="checkbox"/> Overwrite		
4	DPI:	<input type="text" value="200"/> ▾		
5	Font Stroke:	<input type="text" value="Use TrueType Fonts"/> ▾		
6	Color Depth:	<input type="text" value="Color"/> ▾		
7	Layer:	<input type="text" value="Visible"/> ▾		
8	Line Cap:	<input type="text" value="Butt"/> ▾		
9	Line Join:	<input type="text" value="Miter"/> ▾		
10	Format:	<input type="text" value="Normal"/> ▾		

1. Export Directory

Enter the path where the exported file is stored.

2. Save Location

Select the destination to save to:

- *Client*
- *Server*

3. Export file name

Enter a name for the file to be exported.

Additional settings are available:

- *Export to model directory*: The file to be exported is exported to the model directory and not to the export directory (2).
- *Overwrite*: Any existing file with the name specified here will be overwritten.

4. DPI (Dots per Inch)

Select a value to set the point density and therefore the level of detail in the file.

- *100*
- *200*
- *300*
- *400*
- *500*
- *600*

5. Font Stroke

- *All fonts*
- *User type font*

6. Color Depth

Choose a color scheme for the exported file:

- *Color*
- *Gray*
- *Mono*

7. Layer

Select layers to export:

- *All*
- *Visible*
- *None*

8. Line Cap

Specify how line caps are displayed:

- *Butt*
- *Round*
- *Projecting square*

9. Line Join

Specify how line joins are displayed:

- *Miter*
- *Round*
- *Bevel*

10.Format

- *Normal*
- *PDF / A-1*

The PDF output can be defined in the Creo configuration options.

9.9.2 Export 3MF

This task exports a model as a 3MF file to a selectable location.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 **Export Directory:** Type a target path here or browse for a folder... Client

3 **Export file name:** Type a file name here

☐ Export to model directory

☐ Overwrite

4 **Export Profile:** Use the Creo Parametric standard profile

1. Export Directory

Enter the path where the file you want to export will be saved.

2. Save Location

Select the destination to save to:

- *Client*
- *Server*

3. Export file name

Enter a name for the file to be exported.

Additional settings are available:

- *Export to model directory*: The file to be exported is exported to the model directory and not to the export directory (2).
- *Overwrite*: Any existing file with the name specified here will be overwritten.

4. Export Profile

Select an export profile definition to use the export settings defined in that profile. Leave the field blank if you want to use the default settings in Creo.

9.9.3 Export ACIS (SAT)

This task exports a model as an ACIS file to a selectable location.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 **Export Directory:** Type a target path here or browse for a folder... ... Client 2

3 **Export file name:** Type a file name here

☐ Export to model directory

☐ Overwrite

4 **Export Mode:** Set export settings directly

Advanced Export Settings

5 **Export Elements:** ☐ Quilts ☐ Solids

6 **Assembly Config:** ☒ Flat File ☐ Include Layers

1. Export Directory

Enter the path where the file you want to export will be saved.

2. Save Location

Select the destination to save to:

- *Client*
- *Server*

3. Export file name

Enter a name for the file to be exported.

Additional settings are available:

- *Export to model directory*: The file to be exported is exported to the model directory and not to the export directory (2).
- *Overwrite*: Any existing file with the name specified here will be overwritten.

4. Export Mode

Select the export mode for this task.

The export mode changes where this export task reads the export settings from.

The following settings are available:

- *Set export settings directly*: The export settings are set directly (Advanced Export Settings)
- *Read settings from profile*: The export settings are read from the profile (after selection, point 6, Selection of export profile, appears).

5. Export Elements

- *Quilts*: Include quilts in the exported model.
- *Solids*: Include part/assembly in the exported model.

6. Assembly Config

- *Flat File*: Export the current assembly as a flat file. Layer information is discarded.
- *Include Layers*: Layer information for the current assembly is included in the exported model.

9.9.4 Export Creo View

This task exports a model as a Creo_View to a selectable location.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 **Export Directory:** Type a target path here or browse for a folder... ... Client ▾ 2

3 **Export file name:** Type a file name here

☐ Export to model directory

☐ Overwrite

4 **Export Format:** ☒ ED ☐ EDZ ☐ PVS ☐ PVZ

1. Export Directory

Enter the path where the file you want to export will be saved.

2. Save Location

Select the destination to save to:

- *Client*
- *Server*

3. Export file name

Enter a name for the file to be exported.

Additional settings are available:

- *Export to model directory*: The file to be exported is exported to the model directory and not to the export directory (2).
- *Overwrite*: Any existing file with the name specified here will be overwritten.

4. Export Format


Select an export format for the Creo view.

You can choose from the following export formats:

- *ED*: Exports an .ed file for the current model. For an assembly or part, an .ol file is created (for each component part).
- *EDZ*: Exports an .edz file for the current model. This contains all data for the current model and possibly also its subcomponents.
- *PVS*: Exports a .pvs file for the current model. For an assembly or part, an .ol file is created (for each component part).
- *PVZ*: Exports a .pvz file for the current model. This contains all data for the current model and possibly also its subcomponents.

9.9.5 Export DWG

This task exports a model as a DWG file to a selectable storage location.

The **cross-task settings** can be found in the chapter [General task settings](#)  35.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 **Export Directory:** Type a target path here or browse for a folder... Client

3 **Export file name:** Type a file name here

4 **Export Configuration:**
☒ All
 ☐ Selected
 ☐ All as single files

1. Export Directory

Enter the path where the file you want to export will be saved.

2. Save Location

Select the destination to save to:

- *Client*
- *Server*

3. Export file name

Enter a name for the file to be exported.

Additional settings are available:

- *Export to model directory:* The file to be exported is exported to the model directory and not to the export directory (2).
- *Overwrite:* Any existing file with the name specified here will be overwritten.

4. Export Configuration

Select an export configuration.

You have the following configuration settings:

- *All*
- *Selected*
- *All as single files*

9.9.6 Export DXF

This task exports a model as a DXF file to a selectable location.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 **Export Directory:** Type a target path here or browse for a folder... Client

3 **Export file name:** Type a file name here

☐ Export to model directory

☐ Overwrite

4 **Export Profile:** Use the Creo Parametric standard profile

1. Export Directory

Enter the path where the file you want to export will be saved.

2. Save Location

Select the destination to save to:

- *Client*
- *Server*

3. Export file name

Enter a name for the file to be exported.

Additional settings are available:

- *Export to model directory:* The file to be exported is exported to the model directory and not to the export directory (2).
- *Overwrite:* Any existing file with the name specified here will be overwritten.

4. Export Profile

Select an export profile definition to use the export settings defined in that profile.
Leave the field blank if you want to use the default settings in Creo.

9.9.7 Export IGES

This task exports a model as an IGES file to a selectable storage location.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

The screenshot shows the export settings interface with the following elements:

- 1 Export Directory:** A text input field with the placeholder "Type a target path here or browse for a folder..." and a dropdown menu currently set to "Client".
- 2** (Callout for the "Client" dropdown menu).
- 3 Export file name:** A text input field with the placeholder "Type a file name here".
- ☐ Export to model directory
- ☐ Overwrite
- 4 Export Mode:** A dropdown menu currently set to "Set export settings directly".
- Advanced Export Settings** (Section Header)
- 5 Export Elements:** A list of checkboxes:
 - ☐ Quilts
 - ☐ Solids
 - ☐ Surfaces
 - ☐ Wireframe
- 6 Assembly Config:** A list of radio buttons:
 - ☒ Flat File
 - ☐ Multiple Files
 - ☐ Assembly Parts

1. Export Directory

Enter the path where the file you want to export will be saved.

2. Save Location

Select the destination to save to:

- *Client*
- *Server*

3. Export file name

Enter a name for the file to be exported.

Additional settings are available:

- *Export to model directory:* The file to be exported is exported to the model directory and not to the export directory (2).
- *Overwrite:* Any existing file with the name specified here will be overwritten.

4. Export Mode

Select the export mode for this task.

The export mode changes where this export task reads the export settings from.

The following settings are available:

- *Set export settings directly:* The export settings are set directly (Advanced Export Settings)
- *Read settings from profile:* The export settings are read from the profile (after selection, point 6, Selection of export profile, appears).

5. Export Elements

- Quilts
- Solids
- Surfaces
- Wireframe

6. Assembly Config

- Flat File
- Multiple Files
- Assembly Parts

9.9.8 Export JPG

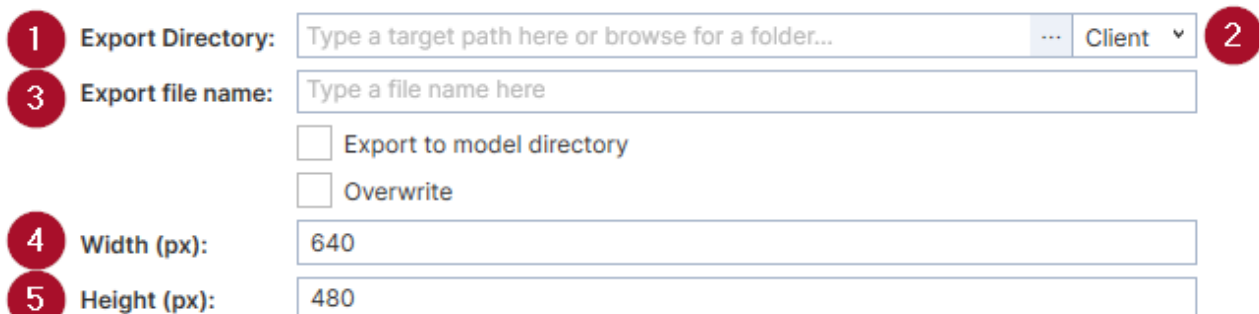
This task exports a model as a JPG file to a specified location. Height and width can be specified. It is useful to switch off the display of axes and planes beforehand using a mapkey.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



1 Export Directory: Type a target path here or browse for a folder... ... Client

3 Export file name: Type a file name here

☐ Export to model directory

☐ Overwrite

4 Width (px): 640

5 Height (px): 480

1. Export Directory

Enter the path where the exported file is stored.

2. Save Location

Select the destination to save to:

- Client
- Server

3. Export file name

Enter a name for the file to be exported.

Additional settings are available:

- *Export to model directory*: The file to be exported is exported to the model directory and not to the export directory (2).
- *Overwrite*: Any existing file with the name specified here will be overwritten.

Please note: When editing multiple files, make sure the name includes a variable to avoid overwriting images.

5. Width (px)

Enter the width of the JPG to be exported as a number. The text box can only read numbers.

6. Height (px)

Enter the height of the JPG to be exported as a number. The text box can only read numbers.

Tip: When images are to be used for publication, it is useful to create the images at a higher resolution than required and then use an image editing programme to reduce the size and improve the quality.

9.9.9 Export Neutral

This task exports a model as a neutral file to a selectable location.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1

3

4

Export Directory: ... Client ▾

Export file name:

☐ Export to model directory

☐ Overwrite

Export Profile: ...

2

1. Export Directory

Enter the path where the exported file is stored.

2. Save Location

Select the destination to save to:

- *Client*
- *Server*

3. Export file name

Enter a name for the file to be exported.

Additional settings are available:

- *Export to model directory*: The file to be exported is exported to the model directory and not to the export directory (2).
- *Overwrite*: Any existing file with the name specified here will be overwritten.

4. Export Profile

Select an export profile definition to use the export settings defined in that profile. Leave the field blank if you want to use the default settings in Creo.

9.9.10 Export Parasolid

This task exports a model as a Parasolid file to a selectable location.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 **Export Directory:** Type a target path here or browse for a folder... Client ▾

3 **Export file name:** Type a file name here

☐ Export to model directory

☐ Overwrite

4 **Export Profile:** Use the Creo Parametric standard profile ▾

1. Export Directory

Enter the path where the exported file is stored.

2. Save Location

Select the destination to save to:

- *Client*
- *Server*

3. Export file name

Enter a name for the file to be exported.

Additional settings are available:

- *Export to model directory*: The file to be exported is exported to the model directory and not to the export directory (2).
- *Overwrite*: Any existing file with the name specified here will be overwritten.

4. Export Profile

Select an export profile definition to use the export settings defined in that profile. Leave the field blank if you want to use the default settings in Creo.

9.9.11 Export Step

This task exports a model as a STEP file to a selectable location.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 **Export Directory:** Type a target path here or browse for a folder... ... Client ▾

2

3 **Export file name:** Type a file name here

☐ Export to model directory

☐ Overwrite

4 **Export Profile:** Use the Creo Parametric standard profile ...

1. Export Directory

Enter the path where the exported file is stored.

2. Save Location

Select the destination to save to:

- *Client*
- *Server*

3. Export file name

Enter a name for the file to be exported.

Additional setting options are available via the checkboxes:

- *Export to model directory*: The file to be exported is exported to the model directory, not the export directory (2).
- *Overwrite*: An existing file with this name will be overwritten.

4. Export Profile

Enter a path with a STEP export profile file. If no file is specified there, the standard profile from the Creo configuration are used.

9.9.12 Export STL

This task exports a model as a STL file to a selectable location.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

The screenshot shows the 'Export STL' settings dialog box. It features several input fields and checkboxes, each with a red numbered callout:

- 1** **Export Directory:** A text field with the placeholder 'Type a target path here or browse for a folder...' and a dropdown menu currently set to 'Client'.
- 2** A small red circle next to the 'Client' dropdown menu.
- 3** **Export file name:** A text field with the placeholder 'Type a file name here'.
- ☐ **Export to model directory**
- ☐ **Overwrite**
- 4** **Output Mode:**
 - ☒ **ASCII**
 - ☐ **Binary**
 - ☒ **Allow negative values**
- 5** **Chord Height:** A text field with the placeholder 'Find default chord height'.
- 6** **Angle Control:** A text field with the placeholder 'Find default angle control'.
- 7** ☐ **Step Size:** A text field with the placeholder 'Find default step size'.
- 8** ☐ **Use Proportional Chord Heights**
- 9** ☐ **Use Proportional Step Sizes**
- 10** **Export Profile:** A text field with the placeholder 'Use the Creo Parametric standard profile' and a dropdown menu.

1. Export Directory

Enter the path where the exported file is stored.

2. Save Location

Select the destination to save to:

- *Client*
- *Server*

3. Export file name

Enter a name for the file to be exported.

Additional setting options are available via the checkboxes:

- *Export to model directory:* The file to be exported is exported to the model directory, not the export directory (2).

- *Overwrite*: An existing file with this name will be overwritten.

4. Output Mode

Select an output mode for the export:

- *ASCII*
- *Binary*
- *Allow negative values*: If not checked, negative values are forced into range in the STL output file.

5. Chord Height

Enter the maximum chord height.

6. Angle Control

Enter the angle control setting.

7. Step Size

Enter the step size setting.

8. Use Proportional Chord Heights

Activate to adjust chord height to component size.

9. Use Proportional Step Sizes

Activate to adjust step sizes to component size.


10. Export Profile

Select an export profile definition to use the export settings defined in that profile.

Leave the field blank if you want to use the default settings in Creo.

9.9.13 Export TIFF

This task exports a model as a TIFF file to a selectable location.

The **cross-task settings** can be found in the chapter [General task settings](#)  35.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 **Export Directory:** Type a target path here or browse for a folder... Client 2

3 **Export file name:** Type a file name here

☐ Export to model directory

☐ Overwrite

4 **Sheet Size:** ☐ Variable sheet size (disables sheet rotation)

5 **Sheet Config:** Current sheet with sheet number

1. Export Directory

Enter the path where the exported file is stored.

2. Save Location

Select the destination to save to:

- *Client*
- *Server*

3. Export file name

Enter a name for the file to be exported.

Additional setting options are available via the checkboxes:

- *Export to model directory:* The file to be exported is exported to the model directory, not the export directory (2).
- *Overwrite:* An existing file with this name will be overwritten.

4. Sheet Size

This configuration disables the rotation setting in Creo Parametric (portrait and landscape).


5. Sheet Config

Select a configuration for exporting sheets from the current drawing.

- *Current sheet with sheet number*
- *All sheets (multiple files)*

9.9.14 Export U3D-PDF

This task exports a model as a PDF file to a selectable location.

The **cross-task settings** can be found in the chapter [General task settings](#)  35.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 **Export Directory:** Type a target path here or browse for a folder... Client

3 **Export file name:** Type a file name here

☐ Export to model directory

☐ Overwrite

1. Export Directory

Enter the path where the exported file is stored.

2. Save Location

Select the destination to save to:

- *Client*
- *Server*

3. Export file name

Enter a name for the file to be exported.

Additional setting options are available via the checkboxes:

- *Export to model directory:* The file to be exported is exported to the model directory, not the export directory (2).
- *Overwrite:* An existing file with this name will be overwritten.

The PDF output can be defined in the Creo configuration options.

9.10 Family Table

This category contains tasks which edit family tables.

9.10.1 Delete Family Table Instances

This task deletes an instance from a family table by specifying the instance name. If you use regular expressions or wildcards, you can delete multiple instances.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1 **Instances:** Type an instance name here (.*)

2

3

1. Instances

Enter the name of the instance to be deleted.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

2. Import list of exploded views from CSV file

3. Clear list

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

9.10.2 Split up Family Table

This task splits up a family table from a generic part into the instance models.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

9.10.3 Unlock all Instances

This task unlocks all instances.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

9.10.4 Verify Family Table

This task verifies all family tables of the current model.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

- 1 Options: ☐ Regenerate twice
☐ Verify unregenerated top-level instances only

1. Options

You can activate options using the checkboxes:

- *Regenerate twice*
Regenerates each family instance twice instead of once.
- *Verify unregenerated top-level instances only*
Speeds up regeneration time because only the first instance of the family table level is checked. Instances that have already been checked are skipped.

9.11 File

This category contains tasks which edit files.

9.11.1 Copy File

This task copies one or more files or directories.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1	Source:	Type a source path here (.*)
2	Destination:	Current directory
3	Options:	<input checked="" type="checkbox"/> Overwrite existing files <input checked="" type="checkbox"/> Auto-create missing directories at destination

1. Source

Specify the path to the file(s) or directories(s) to be copied. You can use [Variables](#)²⁷².

2. Destination

Specify the path to the location where the file(s) should be copied. If no destination is specified, files will be copied to the current working directory.

3. Options

- *Overwrite existing file*
- *Automatically create missing destination directories*

9.11.2 Delete File

This task deletes one or more files or directories.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1	File:	Type a file or folder path here	(.*)
2	Options:	<input checked="" type="checkbox"/> Move to system trash bin	

1. File

Specify the path to the file(s) or directories(s) to be deleted. You can use [Variables](#)²⁷².

2. Options

– *Move to system trash bin*

9.11.3 Move File

This task moves one or more files or directories.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1	Source:	Type a source path here	(.*)
2	Destination:	Current directory	
3	Options:	<input checked="" type="checkbox"/> Overwrite existing files <input checked="" type="checkbox"/> Auto-create missing directories at destination	

1. Source

Specify the path to the file(s) or directories(s) to be moved. You can use [Variables](#)²⁷².

2. Destination

Specify the path to the location where the file(s) should be moved. If no destination is specified, files will be moved to the current working directory.

3. Options

- *Overwrite existing file*
- *Automatically create missing destination directories*

9.11.4 Rename File

This task renames one or more files or directories.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:



1 **File:** (.*)

2 **New Name:**

1. File

Specify the path to the file(s) or directories(s) to be deleted. You can use [Variables](#)²⁷².

2. New Name

Enter the new file name.

9.11.5 Write File

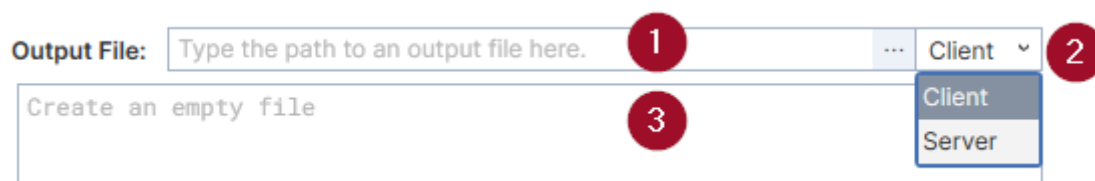
This task writes any user-defined content to a new or existing output file. It creates a text file in UTF8 format.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:



Output File: 1 ... Client 2

Create an empty file 3

Client

Server

1. Out File

Enter the path to the output file.

2. Save To

Select the save location for the report:

- *Client*: The file can be saved temporarily on the client.
- *Server*: The report is saved directly after execution where Creo is running.

3. File content

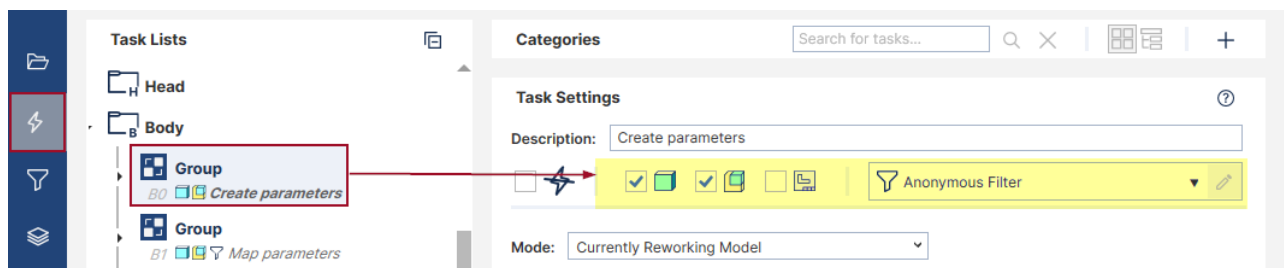
Enter the content that is to be written to the file.

9.12 Group

This category groups several tasks into one group.

A task groups can be assigned filters that only applies to the task group. This is useful, for example, if a user variable should be set differently within a group than outside the group, see chapter [Combining tasks in groups](#) ³⁶.

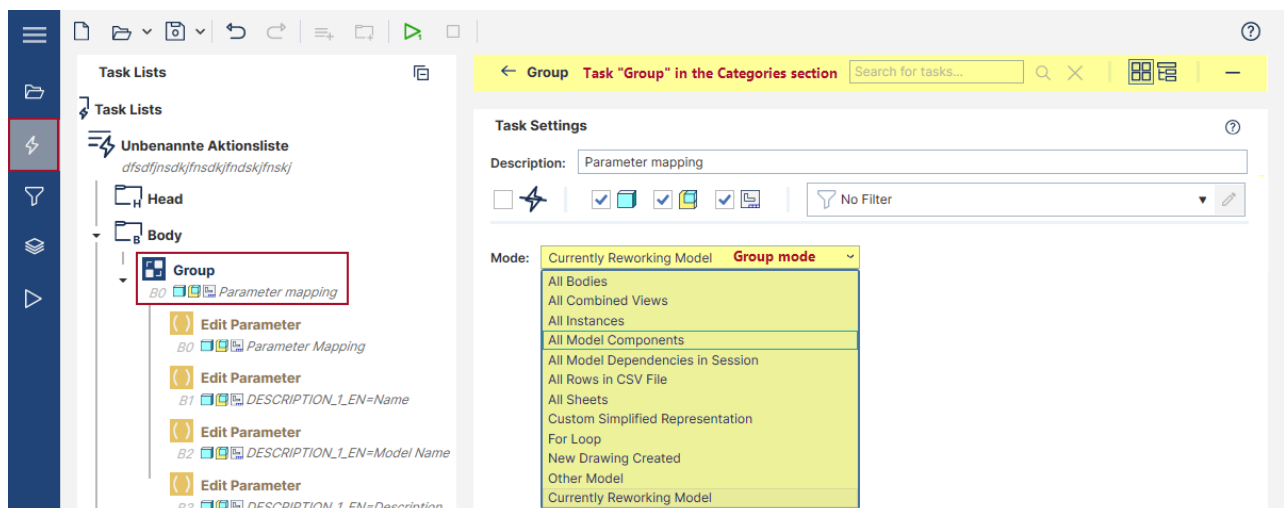
Group filters can be model filters (parts, assemblies, and drawings) or enhanced filters (saved filters or anonymous filters).



Modelfilter and enhanced filter for a task group

9.12.1 Group

This task groups multiple actions into a group defined by a group mode. This mode specifies how the tasks in the group are executed.



These settings are available:

- [All Bodies](#) ¹⁴¹
- [All Combined Views](#) ¹⁴²

- [All Instances](#) ¹⁴²
- [All Model Components](#) ¹⁴³
- [All Model Dependencies in Session](#) ¹⁴³
- [All Rows in CSV File](#) ¹⁴³
- [All Sheets](#) ¹⁴⁴
- [Custom Simplified Representation](#) ¹⁴⁵
- [For Loop](#) ¹⁴⁵
- [New Drawing Created](#) ¹⁴⁵
- [Other Model](#) ¹⁴⁶
- [Currently Reworking Model](#) ¹⁴⁶

9.12.1.1 All Bodies

Iterate over all bodies of the current multi-body part, showing or hiding each body and setting each body active.

The screenshot shows the 'Settings for All Bodies' dialog box. It contains the following elements:

- 1** ☒ Set each body active
- 2** ☐ Hide all other bodies
- 3** Store Body Name to User Variable:
- 4** ☒ Body Filter
- 5** Body Name: (.*)
- 6** Body State: ▼
- 7** Properties: ☐ Body is Active ☐ Body is Visible ☐ Body is Construction Body
- 8** Material: (.*)

1. Set each body active

Check the box to set each body as active body in the current model. Once the group has finished, the previously set body will be set to active again.

2. Hide all other bodies

Check the box if you want to skip all unpublished combined views.

3. Store Body Name to User Variable

Enter the name of the variable in which the body name should be stored.

4. Body Filter

When enabled, this determines which body of the current multibody part this task is applied to. When this filter is disabled, this task is applied to all bodies.

5. Body Name

Enter the name of the body. All bodies whose names match the specified expression will be included.

6. Body State


From the drop-down menu, select a filter by status. The following statuses are available: All State, Empty bodies (bodies without any features), Bodies without Geometry.

7. Properties

- *Body is Active*: If enabled, only the active body of the current part is returned. If disabled, all other bodies are returned. If not selected, it is ignored.
- *Body is Visible*: If enabled, only visible bodies are returned by this filter.
- *Body is Construction Body*: If enabled, only design bodies are returned by this filter.

8. Material

The body is filtered by the assigned material. To filter bodies that have no material assigned, enter *no_material* or *ptc_system_mtrl_props*.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.12.1.2 All Combined Views

All combined views are processed.

- ☐ Published combined views only 1
- ☐ Copy annotations to default combined view 2

1. Published combined views only

Check the box for *Published combined views only* if you want to skip all unpublished combined views.

2. Copy annotations to default combined view

Check the box next to *Copy annotations to default combined view* if you want all annotations from the respective view to be copied to the default view. After execution, the default view will be restored to its current state. This configuration is useful for U3D export.

9.12.1.3 All Instances

All instances of a generic will be processed.

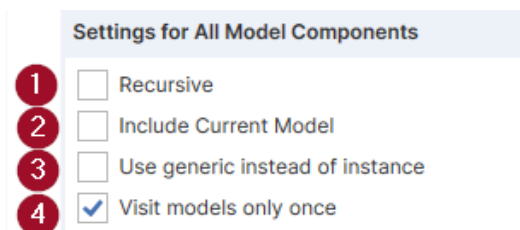
Recursive

When activated, subinstances are also processed. If the box is not checked, only the instances of the first level will be processed.

9.12.1.4 All Model Components

All models that are installed as component feature, are not suppressed and are in the session are processed.

In this group mode, the session ID of the visited components can be stored in @featsessionid@.



1. Recursive

When activated, subassemblies are also to be processed. If the box is not checked, only the instances of the first level will be processed.

2. Include Current Model

When activated, the current model is included.

3. Use generic instead of instance

When activated, the generic model is used for instances instead of the instance itself.

4. Rework models only once

When activated, the model is edited only once, if it exists multiple times as a component.

9.12.1.5 All Model Dependencies in Session

All dependent loaded models that are in session will be processed.

Include Current Model

Check the box next to *Include Current Model* if you want this to be taken into account.

9.12.1.6 All Rows in CSV File

The option *All Rows in CSV File* allows further settings.

Settings for All Rows in CSV File	
CSV File:	Type or browse for the full path of a CSV file 1
Line Breaks:	Windows (CRLF) 2
Encoding:	UTF-8 3
Separator Character:	Comma (',') 4
Row Limit:	All rows (no limit) 5

1. CSV File

Enter the path to the CSV file.

2. Line Breaks

Select the method for creating line breaks:

- Windows (CRLF)
- Unix (LF)

3. Encoding

Select a character encoding:

- UTF-8
- ISO 8859-1

4. Separator Character

Select a separator character:

- Comma (',')
- Semicolon (;)

5. Row Limit

You can enter a maximum number of rows. Default setting: *All rows (no limit)*

9.12.1.7 All Sheets

All sheets of a drawing are iterated through and the tasks within this grouping are performed for each sheet.

Single-model drawings: The active drawing model is retained.

Multi-model drawings: The drawing frame (if available) is used to identify the model that was active when the drawing frame was set. This model is then set as the active model in the drawing and the task list for the sheet is edited. After all sheets have been processed, the active model of the drawing is reset.

Use current model for frameless sheets

When activated, this model is used as a basis.

9.12.1.8 Custom Simplified Representation

A defined simplified representation of the model is called up and applied

Name

Enter the simplified representation to be used under *Name*.

9.12.1.9 For Loop

Start Value:	<input type="text" value="0"/>	1
Increment:	<input type="text" value="1"/>	2
End Value:	<input type="text" value="2"/>	3
Loop Variable:	<input type="text" value="i"/>	4

1. Start Value

Enter a value and a loop repeats the grouping with this definable start value.

2. Increment

Enter a value and the loop runs as many times as specified in the increment. For example, if the increment is specified as 1, the loop runs exactly once.

3. End Value

Enter a value and a loop repeats the grouping with this definable end value.

4. Loop Variable

Enter a value. A user variable *loop variable* (see task [Set User Variable](#)¹⁷⁸) can also be used for this, which can be changed during the runtime of the loop.

9.12.1.10 New Drawing Created

A new drawing is created in the storage with @mdl@ as the default model name. This can be defined using a template (*Template Name* and *Template Path*) and is then considered the current model. If the drawing is not explicitly saved (see [Save Model](#)¹⁶⁷ task), it will be discarded at the end of the task to be processed in this grouping.

Name:	<input type="text" value="@mdl@"/>	1
Template Name:	<input type="text"/>	2
Template Path:	<input type="text"/>	3

1. Name

Enter the name of the newly created drawing.

2. Template Name


Enter the name of the template used to create the new drawing.

3. Template Path

Enter the path of the template used to create the new drawing.

9.12.1.11 Other Model

The option *Other Model* allows further settings.

Settings for Other Model	
File Name:	<input type="text"/> 1
Import as:	 Part 2
Remove after Group:	None 3

1. File Name

The file name indicates the model to which the grouped tasks are applied. [Variables](#)²⁷² can be used in this definition.

2. Import as

Select the model types you wish to import.

Please note: Pay attention to the import behavior of Creo: If necessary, you can set the hidden configuration option `intf3d_in_as_part=yes`. This can be useful, for example, depending on the type or step version. On the other hand, the setting `intf3d_in_as_part=yes` can also cause a crash.

3. Remove after Group

Optionen für die Beibehaltung des Modells nach der Gruppierung:

- *None*
- *Only Loaded/Imported Model*
- *All Dependencies*

9.12.1.12 Currently Reworking Model

Continue work on the model currently being overhauled.

9.12.2 While Loop

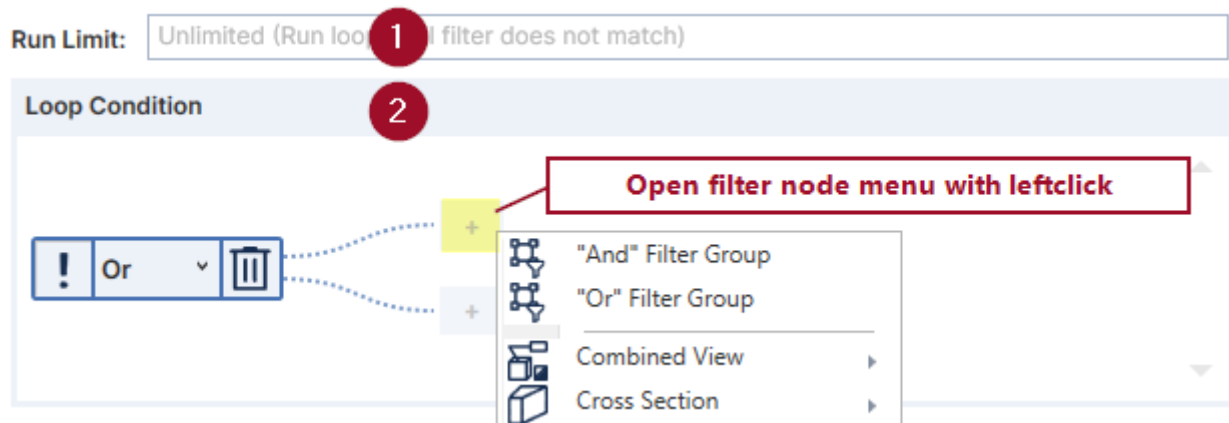
The actions in this group are repeated until a loop condition is no longer met.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:



9.13 Layer

This category contains tasks which edit layers.

9.13.1 Add Layer State

This task creates a slide status with the specified layer in their defined status.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

State Name: 1

Layers: 2 (.* Show 3

1. State Name

Enter a name for the new slide state to be created.

2. Layers

Enter the name of the corresponding layers. As soon as you have made an entry, another line for a new entry appears automatically. You can use [Variables](#)²⁷². The icon (.* opens the RegEx Editor.

3. Layer State

Select the foil status to be set:

- Hide
- Isolate
- Show
- Hidden Layer (Assembly only)

9.13.2 Add Layers

This task creates layers with or without rules. For layers with rules, associativity and independence can be set.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1. Template

You can enter a path to a template model or select it using the browse icon . You can use [Variables](#)²⁷². If the path is empty, no template is used.

2. Layers

Enter the name for the new layer to be created. As soon as you have made an entry, another line automatically appears for a further entry.

- If you have selected a template model under *Template* (1), the slides are created using the rules of the template model.

Please note: The Creo option default_layer_model should neither be stored nor refer to a valid model.

3. Import list of layers from CSV file

4. Add all layers from current model

Read all layers of the current model from the current Creo Parametric session and append each layer name to the list.

5. Clear list

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

9.13.3 Delete Layer State

This task deletes a layer state. If you work with regular expressions or wildcards, you can delete multiple layer states.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1

States:

2




3

(.*)

1. Import list of layers from CSV file

2. Clear list

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

3. States

Enter the name of the layer state to be deleted. As soon as you have made an entry, another line automatically appears for a further entry. You can use [Variables](#)²⁷². The icon (.) opens the RegEx Editor.

9.13.4 Delete Layers

This task deletes a layer. If you work with regular expressions or wildcards, you can delete multiple slides.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter



This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1

Delete:

2

3

(.*)

4

Move Content to:


(.*)

5

Options:

☐ Delete all empty layers

1. Layer name

Enter the name of the layer to be deleted. As soon as you have made an entry, another line automatically appears for a further entry. You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

2. Import list of layers from CSV file

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

3. Clear list

All entries in this list will be deleted.

4. Move Content to

You can move the content of the layer to be deleted to other layer. Enter the target layers in this line. If this line remains empty, the content is not moved but deleted together with the layers.

5. Options

Select a checkbox to set additional options:

- *Delete all empty layers*

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

Please note: The *Hidden Elements* layer is not a layer and therefore cannot be affected by filters and/or functions.

9.13.5 Group Layers



This task places a layer on top of another existing layer.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.


Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

2


3

1
Layers:



4
Group Name:

1. Import list of layers from CSV file

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

2. Clear list

All entries in this list will be deleted.

3. Layers

Enter the layers to be grouped. As soon as you have made an entry, another line automatically appears for a further entry.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

4. Group Name

Enter a group name for the group to be created.

9.13.6 Rename Layers

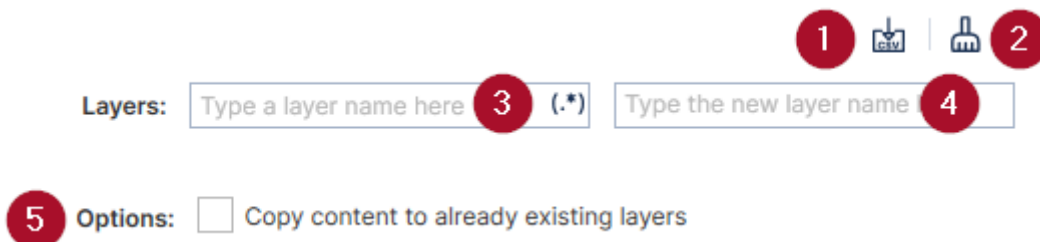
This task renames the specified layer.


The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



Layers: 

Options: ☐ Copy content to already existing layers


1. Import list of layers from CSV file

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

2. Clear list

All entries in this list will be deleted.

3. Layer Name

Enter the name for the layer. You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

4. New Layer Name

Enter the new name for the layer.

5. Options

Select a checkbox to set additional options:

- *Copy content to already existing layers*

9.13.7 Set Layer State

This task sets a defined layer state by specifying the name.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1 Layer State: (*)

1. Layer State

Enter the name for the layer state to be set. You can use [Variables](#)²⁷². The icon (*) opens the RegEx Editor.

9.13.8 Set Layer Status

This task sets a defined layer status by specifying the name.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

Layers: 1 (*) 2 ▾

Save: ☐ Save Layer Status 3

1. Layers

Name of the layer status to be set

2. Layer status

Select the layer status to be set:

- *Blank*
- *Display*
- *Normal*
- *Hidden*

3. Save

- Save Layer Status

If the checkbox is activated, the state after processing the task is saved in the model. If the checkbox is not activated, the previous state of the layer is restored the next time the model is opened, even if the model has been saved.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.13.9 Update Current Layer State

This task updates the current layer state with the current layer configuration.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

There are no further settings.

9.14 Material

This category contains tasks which rework materials.

9.14.1 Add Material

This task adds a material to the model and can assign it. It is also possible to specify whether the skeleton model is also to be reworked.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts

The **task-specific** settings are:

1 **Material File:** ...

2 **Options:** ☐ Set as Current Material

☐ Enable this task for Skeleton Models (Non-Standard)

1. Material File

Enter the path to the material file without the file extension. The extension is automatically recognized by Creo when it is added.

Variables are available to describe the directory path more generically:

- *@project_dir@* describes the path to the .mpx file and is located under: *Project directory/materials*
- *@project_dir@* describes the path from the Creo configuration *pro_material_dir*

2. Options

- *Set as Current Material*: Indicates if the new material is assigned to the current model.
- *Enable this task for Skeleton Models (Non-Standard)*: Indicates if skeleton models are also to be reworked.

Please note: By default, the task does not assign material to skeleton models as this is not supported in Creo. However, there are exceptions where this may still be useful.

Limitations

- Adding material files to assemblies is not supported.
- If you want to replace materials in sheet metal parts, you should look at the configuration option `material_upd_smt_bend_table`. This allows you to define how to handle *SMT_Y_FACTOR* (bend factor) and the bend tables.
- You can change the corresponding configuration options with the task [Set Config Options](#)¹⁰⁸ during Model Processor runtime. The option only affects automatic substitution, not manual editing of the material.

9.14.2 Delete Material

This task deletes one or several materials from a given file.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts

The **task-specific** settings are:

1 **Materials:**

2 | 3

Material (.*)

4 **Options:** ☐ only not current material
☐ also from skeletons (NOT CREO STANDARD)

1. Materials

Enter the material(s) to be deleted from the model.

2. Import list of layers from CSV file

3. Clear list

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

4. Options

The following additional options are available:

- *only not current material*: delete unless current material
- *also from skeleton (NOT CREO STANDARD)*: delete also from skeleton models
Note that this should not happen in Creo standard.

9.15 Model

This category contains tasks which edit models.

9.15.1 Backup Model

This task backs up the model with all its dependencies into a given directory.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

1 **Path:**

2 **Options:** ☒ Reset save path to current one.

1. Path

Enter the new common name. You can use [variables](#)²⁷².


2. Options

You can activate additional options using the checkboxes:

- *Activate for models that have been checked out from a PDM system*

9.15.2 Cancel Feature Insert Position

This task cancels the insert mode and sets the insert position back to the end of the model tree.


The **cross-task settings** can be found in the chapter [General task settings](#) 

Model filter

This task can revise the following models: Parts and Assemblies

9.15.3 Compute Mass

This task computes a mass.

The **cross-task settings** can be found in the chapter [General task settings](#) 

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 **Coordinate System:**

1. Coordinate System


Specify the coordinate system. If no coordinate system is specified, the default Creo coordinate system is used.

When this task is performed, the parameter `pro_mp_mass` is created and the mass of the part or assembly is calculated.

Please note: If the part has not yet been assigned a density or material, it will be assigned a density of 1.0 when the mass is regenerated.

9.15.4 Copy Model

This task copies the current model according to a given list of copy rules.

The **cross-task settings** can be found in the chapter [General task settings](#) 

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

Names:

1. Import list of layers from CSV file

2. Clear list

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

3. Name of the model to be replaced

Enter the current name of the model including the file extension.

You can use [Variables](#)²⁷². The icon opens the RegEx Editor.

4. Name of the new model

Enter the name of the new model without the ending. If the old name is a regular expression, capture groups can be used here.

9.15.5 Edit Common Name

This task sets the usual name (PTC_COMMON_NAME) to a specified value.

Please note: This task can only be performed in the *Body* area, see [Glossary](#)²⁸⁶.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1. New Name

Enter the new common name. You can use [variables](#)²⁷².

2. Options

You can activate additional options using the checkboxes:

- *Enable for models checked out from a PDM system*

Please note: Changing the parameter can lead to problems with PDM systems. Therefore, the change should only be made in PDM systems if it is ensured that this will not have any negative effects on your system.

- *Process all instances of generic recursively:*

For each instance (also in multi-level family tables), the PTC_COMMON_NAME is set according to the entries of the variables in *New Name* (1). If you have activated this task and have not entered a variable under *New Name* (1), each instance is given the same name.

9.15.6 Embed Model

This task embeds the current model into the parent assembly.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Assemblies

9.15.7 Load Tolerance Table

This task loads a tolerance table into the model that is being worked on. Existing tables with the same name are replaced.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1

File:

1. File

Enter the file from which to load the tolerance table.

The internal name of the file determines the name of the tolerance table. This means that this task can also be used to replace the general tolerance table if the file header matches.

Example settings

Example of a general tolerance table header:

```
...
"Table_Type" "General_Dims"
"Table_Name" "Defaults"
"Table_Unit" "millimeter"
"Range_Unit" "millimeter"
...
```

9.15.8 Move Feature from Footer

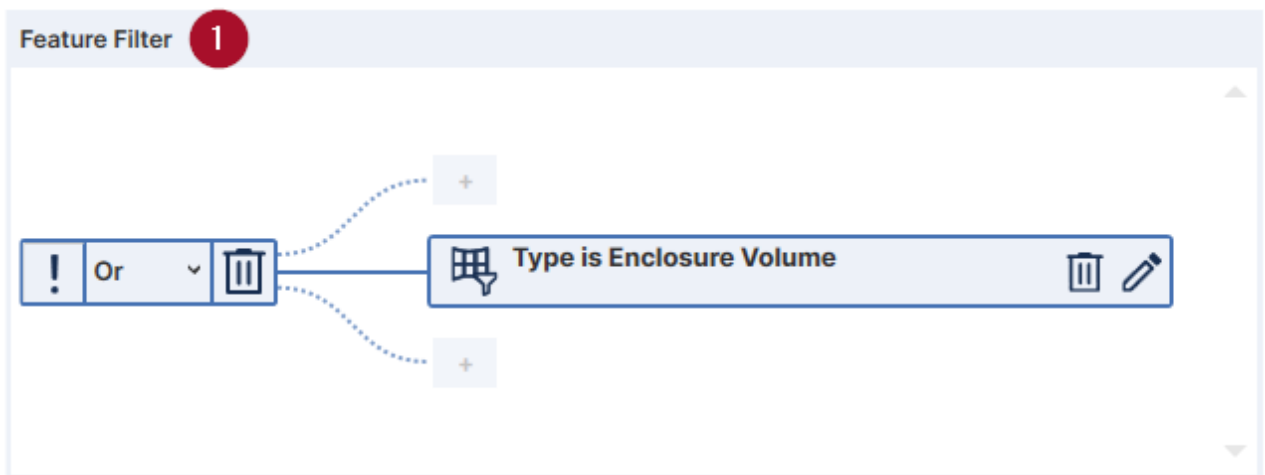
This task moves all applicable features from the footer to the Creo feature tree.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

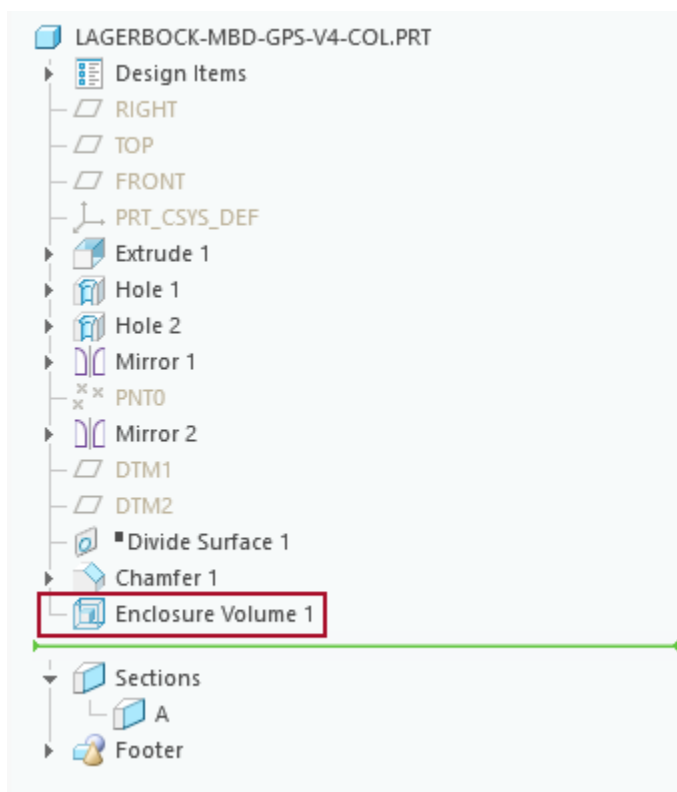
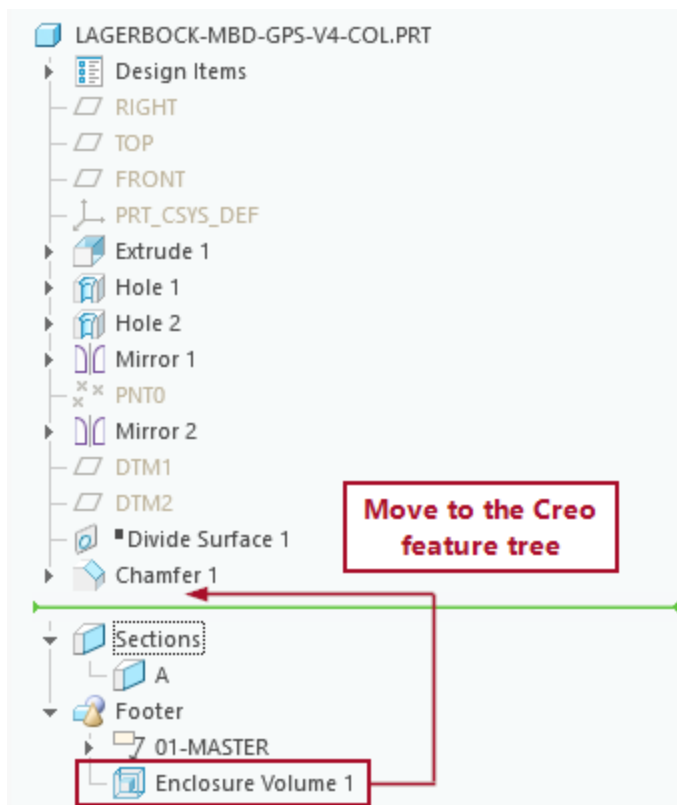
The **task-specific** settings are:



1. Feature Filter

Enter one or more features for which this task is applied. For the structure of the feature filter tree, see [Filter Tree](#)⁴².

In the following example, you can see how the enclosure volume was moved from the footer to the Creo feature tree.



9.15.9 Move Feature to Footer

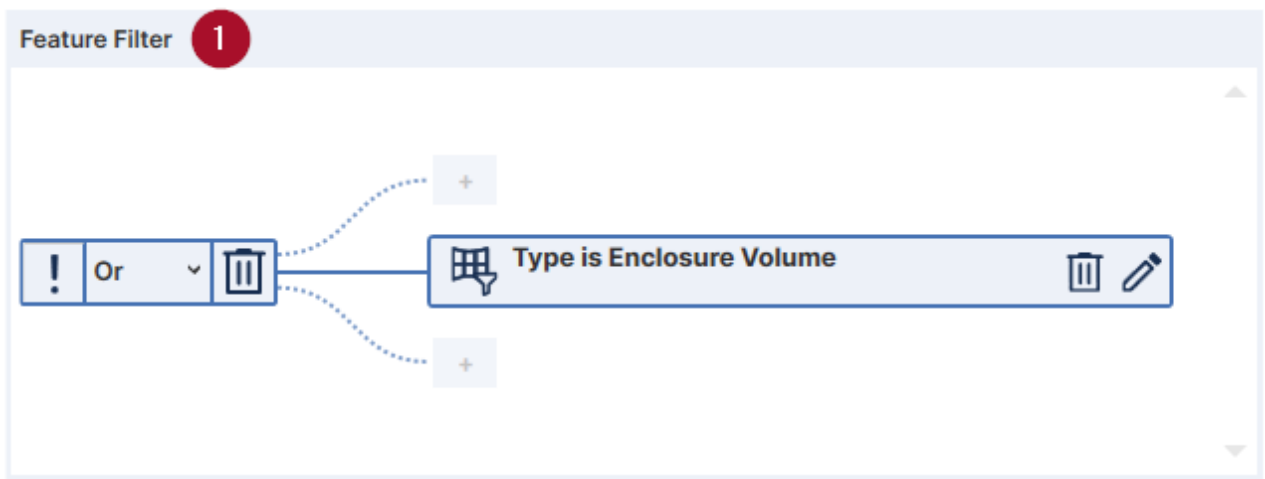
This task moves all applicable features from the Creo feature tree to the footer.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

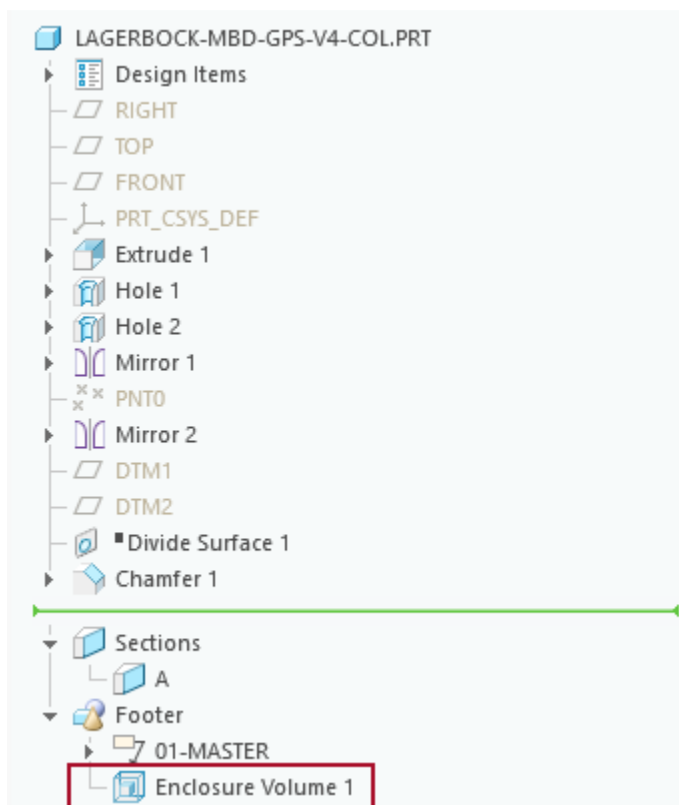
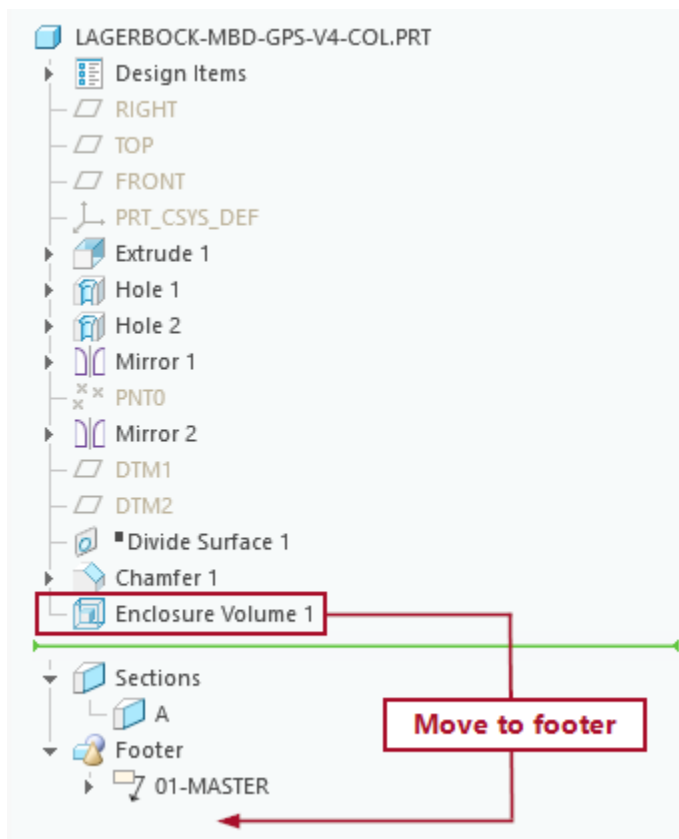
The **task-specific** settings are:



1. Feature Filter

Enter one or more features for which this task is applied. For the structure of the feature filter tree, see [Filter Tree](#)⁴².

In the following example, you can see how the enclosure volume was moved from the Creo feature tree to the footer.



9.15.10 Regenerate Model

This task regenerates a model.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1 Max Number of Runs: 1

2 Options

- ☐ Force Regeneration
- ☐ Refresh Model Tree

1. Max Number of Runs

Enter the maximum number of runs as an integer.

2. Options

The following additional options are available:

- *Force Regeneration*

When this option is selected, each feature is regenerated. This ignores any messages from Creo that the feature has already been regenerated. The result is that regeneration takes longer. Each part is regenerated the number of times specified in Maximum number of passes. In this case, the maximum number of passes is interpreted as the desired number of regenerations.

- *Refresh Model Tree*

When this option is selected, the model tree of the regenerated model is updated after regeneration. This option is only relevant for the last regeneration of a model. It is not necessary in batch mode.

Please note: If a mapkey that accesses the model tree is executed after regeneration, the model tree must be updated first.

Please note: If the part has not yet been assigned a density or material, it will be assigned a density of 1.0 when the mass is regenerated.

9.15.11 Remove Features

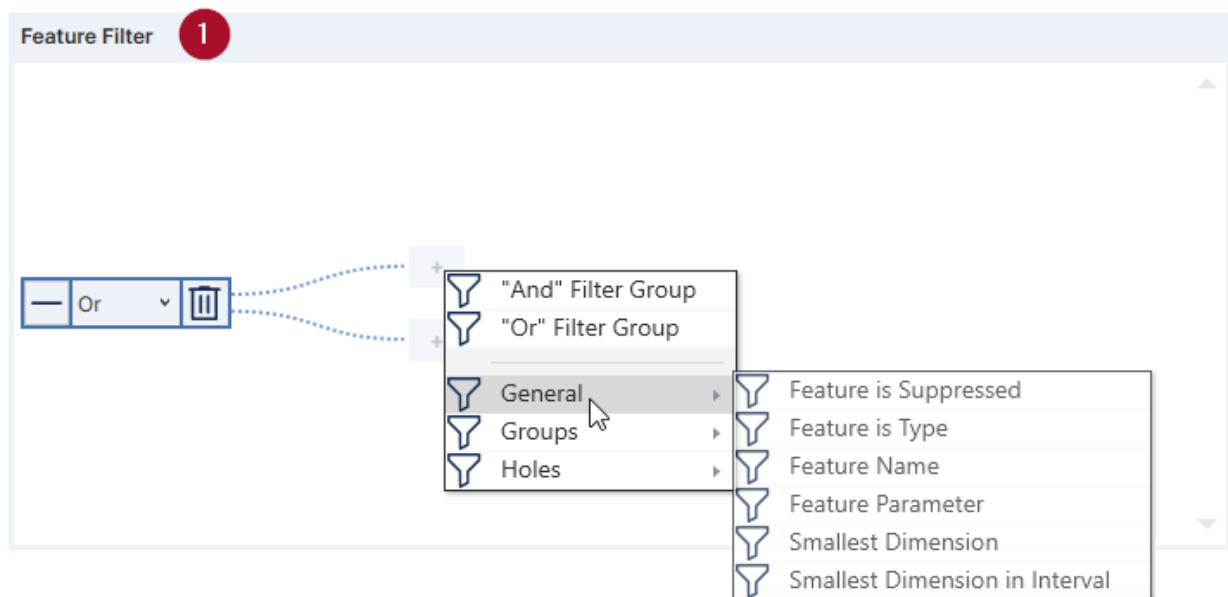
This task removes one or more features.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



1. Feature Filter

Add the features to be removed via the feature filter tree, see [Feature Filter](#)⁵⁰.

9.15.12 Rename Feature

This task renames one or more features.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

Names:

Type the old feature name here

(.*)

Type the new feature name here

1. Import list of layers from CSV file**2. Clear list**

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

3. Name of the feature to be replaced

Enter the name of the feature to be replaced without the suffix. As soon as you have made an entry, another line for a further entry appears automatically.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

4. Name of the new feature

Enter the name of the new feature without the ending.

9.15.13 Rename Model

This task replaces a model built on the first level with another model (corresponds to *unconditional replacement* in Creo Parametric).

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Names:


1. Import list of layers from CSV file**2. Clear list**

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

3. Name of the model to be replaced

Enter the name of the model to be replaced without the suffix. As soon as you have made an entry, another line for a further entry appears automatically.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

4. Name of the new model

Enter the name of the new model without the ending.

9.15.14 Replace Model

This task replaces a model built on the first level with another model (corresponds to *unconditional replacement* in Creo Parametric).

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Assemblies

The **task-specific** settings are:

Models:

Type a model name here 3

Type a model name here 4

Options: ☐ Retrieve single models with same name 5

1. Import list of layers from CSV file

2. Clear list

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

3. Name of the model to be replaced

Enter the name of the model to be replaced without the suffix. As soon as you have made an entry, another line for a further entry appears automatically.

4. Name of the new model

Enter the name of the new model without the ending.

5. Options


You can activate additional options using the checkbox:

- *Retrieve single models with same name*
 Reloading the model can be used, for example, to reload exploded family table instances. In this case, the assembly is loaded without the family table instances. The family table instances of the exploded family table are then reloaded. The family table instances are automatically replaced by the individual parts. You can then clean up the display in the model tree again with a regeneration (*Force regeneration*).

Please note: For a correct graphical representation, the [Set Simplified Representation](#)²⁴¹ task should then be executed.

Alternatively, after reloading the models, the assembly can also be saved, closed and reloaded. After updating the model tree, you can see whether the parts have been

replaced correctly. However, the saved part must also be reloaded so that the graphical representation of the newly installed part is correct. (The family table variant is detached from the family table).

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.15.15 Rescale component positions

This task rescales all component positions within assemblies based on a specific factor (fraction).

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Assemblies

The **task-specific** settings are:

Factor:  / 

1. Numerator

Type in the numerator of the fraction.

2. Denominator

Type in the denominator of the fraction.

9.15.16 Save Model

This task saves a model.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

9.15.17 Set Feature Insert Position

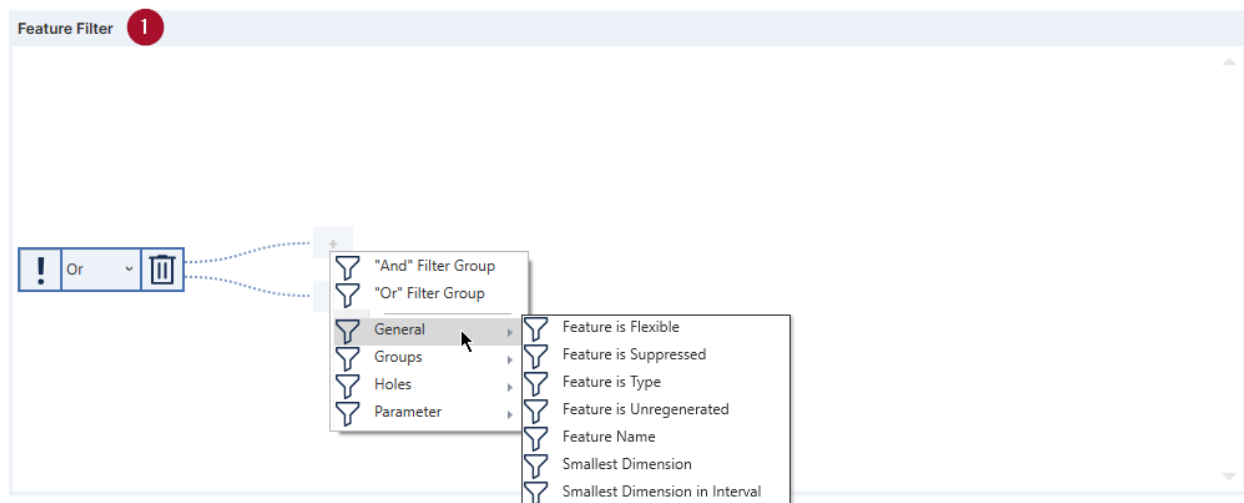
This task starts the insert mode and sets the insert position to the desired position.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

**1. Feature Filter**

Enter one or more features for which this task is applied or not applied. For the structure of the feature filter tree, see [Filter Tree](#) ⁴².

9.15.18 Set style

This task sets the specified style.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Assemblies

The **task-specific** settings are:

**1. Style Name**

Enter the style name that you want to set.

9.15.19 Start ModelCHECK

This task performs the ModelCHECK.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1 **Config File:** ...

2 **Options:** ☐ Show Report
☐ Check Submodels

1. Configuration file

Enter the path to the configuration file or the full path to the directory. If the field is left blank, the default configuration of Creo Parametric will be used.


2. Options

You can activate additional options using the checkboxes:

- *Show report*
After running ModelCHECK, the result is displayed interactively.
- *Check Submodels*
ModelCHECK is run for the current model and all its submodels.

9.15.20 Suppress Features

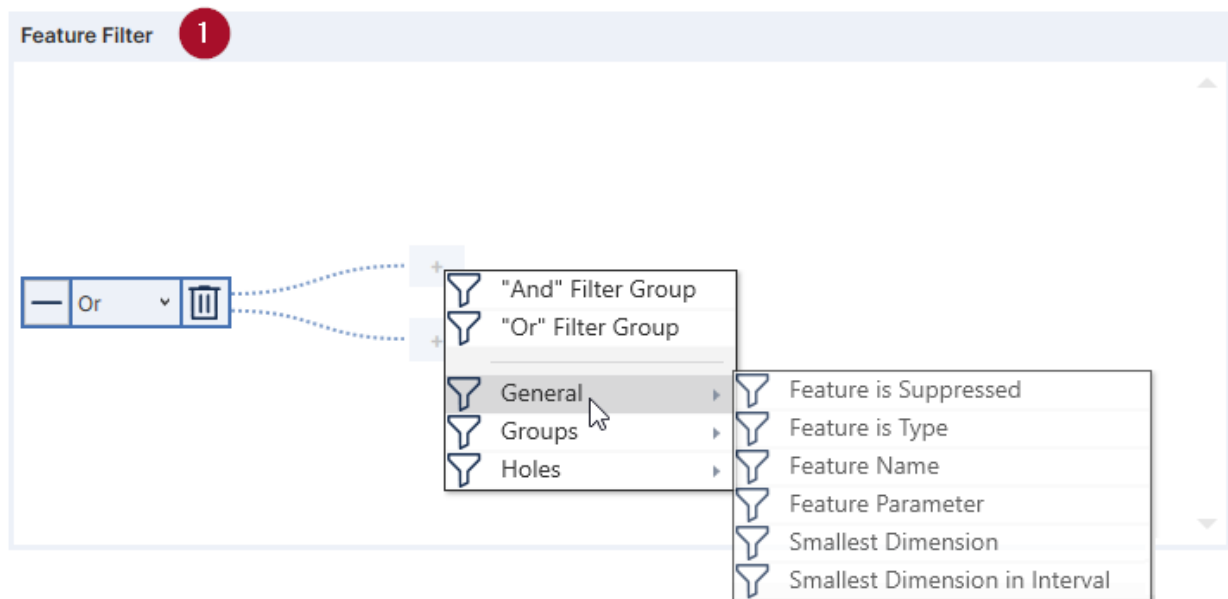
This task suppresses one or more features.

The **cross-task settings** can be found in the chapter [General task settings](#)  35.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



1. Feature Filter

Add the features to be suppressed via the feature filter tree. For the structure of the feature filter tree, see [Feature Filter](#) ⁵⁰.

9.16 Model Properties

This category contains tasks that can be used to rework the properties of models.

9.16.1 Set Accuracy

This task sets the accuracy.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

Set to: ☒ Absolute ¹ ☐ Relative

Value: ²

1. Set to

Select the level of accuracy:

- Absolute
- Relative

2. Value

Enter a value. Keep in mind the usual limits in Creo. It is not always possible to adjust to this value using Model Processor. There are situations where a manual change works, but a change with Model Processor fails.

9.16.2 Set All Dimension Bounds

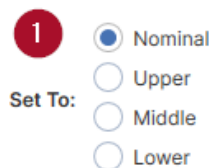
This task sets all dimension bounds of a model.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



1

Set To:

- ☒ Nominal
- ☐ Upper
- ☐ Middle
- ☐ Lower

1. Set To

Select the type of dimension bound to be set:

- *Nominal*
- *Upper*
- *Middle*
- *Lower*

9.16.3 Set Model Options (DTL)

This task sets model options using a .dtl file.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:



DTL File: 1 ...

1. DTL File Path

Enter the path to the DTL file.

Requirements

To change the options, a DTL file must be created. This file will then be added to the current model using this task.

Settings in the DTL File

The DTL file is a standard PTC file. The first line of the DTL file must contain a comment (line starting with!). The following lines can be used to change any of the model options. A DTL file must always be saved in the UTF-8 character set.


Example for the contents of a DTL file

```
! This is the DTL for extending our standard parts.
default_font    inneo_en
text_height 4.50000
```

Further information can be found in the PTC manual, see [PTC Support](#).

9.16.4 Set Tolerance

This task sets a tolerance. The tolerance limits must be observed.

The **cross-task settings** can be found in the chapter [General task settings](#)  35.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

Tolerance:	<input type="text" value="ANSI 2018"/>	1
Tolerance Class for ISO/DIN:	<input type="text" value="Medium"/>	2

1. Tolerance

Select the tolerance you want to set:

- ANSI 2009
- ANSI 2018
- ISO 2012
- ISO 2017

2. Tolerance Class for ISO/DIN

If you have selected an ISO/DIN standard under *Tolerance* (1), you will be able to set the class associated with it:

- *Fine*
- *Medium*
- *Coarse*
- *Very Coarse*

Please note: When converting from ANSI to DIN/ISO or from DIN/ISO to ANSI, manually entered tolerances and selected tolerance tables are lost.

9.16.5 Set Unit System

This task sets a unit system.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

Type: 1

- ☒ Millimeters - Kilograms - Seconds
- ☐ Centimeters - Grams - Seconds
- ☐ Millimeters - Newtons - Seconds
- ☐ Foot - Pounds - Seconds
- ☐ Inches - Pounds - Seconds
- ☐ Inches - lbm - Seconds
- ☐ Meters - Kilograms - Seconds
- ☐ Custom

Custom Settings 2

Name:

System:

Length:

Mass:

Force:

Time:

Temp:

Conversion: 3

- ☒ Keep Values
- ☐ Change Values

1. Type

Select the unit system to be set.

2. Custom Settings

Select *Custom* under *Type (1)* to create to create a new system of units. The following settings will be enabled for editing:

Name: If a system of units with the name selected here already exists, it will **not be deleted** but set unchanged. This may result in the set unit system not matching the selected units.

3. Conversion

The conversion is performed at the same time as the units are set.


- *Keep Values:* The numerical values are retained when the unit is changed. This setting may cause errors when used with other models.
- *Change Values:* Numerical values are adjusted to the new unit system.

9.17 Model Processor

This category contains tasks with which you can edit the internal Model Processor environment.

9.17.1 Pause

This task pauses the execution of the task list for a specified number of seconds.

The **cross-task settings** can be found in the chapter [General task settings](#)  35.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:


Wait Time:

Wait time

Specify the duration, in seconds, for which the execution of the task list will be paused.

9.17.2 Request User Input

This task requests a user input.

The **cross-task settings** can be found in the chapter [General task settings](#)  35.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1. Window Title

Enter a name for the window to be created.

2. Window Content

Select the user input to be requested by adding new queries with the *plus icon* +. Use the *minus icon* – to delete existing requests. With each new request, a new area with a blue background is added in which the request is specified. The following requests are available:

You can enter various entries under User input. The differences in the creation of selection lists are described below:

User input: Selection lists	Beschreibung
Checkbox	Simple selection: Create a checkbox for each selection option.

User input: Selection lists	Beschreibung
Combo Box	Multiple selection: You can store multiple options in a selection field. These are displayed as a drop-down menu.
Combo Box (Preset)	Multiple selection: The entries for this drop-down menu cannot be edited manually, but are automatically filled in from Creo according to the selection under Content e.g. All drawing models.
Option field	Multiple selection: As with a selection field, multiple options can be stored in an option field. In an option field, all options are displayed directly without scrolling. If an option field becomes very long, it is recommended to create a selection field instead.

9.17.3 Request Variable from File Chooser

This task shows a file chooser dialog and interactively sets the content of the given user variable to a selected file or folder.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Variable Name:	<input type="text" value="Type a variable name here"/>	1
Dialog type:	<input type="text" value="Open File"/>	2
Dialog title:	<input type="text" value="Use the default dialog title"/>	3
Path:	<input type="text" value="Type a file name here or browse for a file..."/>	4
Extensions:	<input type="text" value="**"/>	5

1. Variable Name

Enter the name of the user variable to be set, into which the selected path is to be written. The name is addressed with %user:NAME%.

2. Dialog type

- *Open File*
- *Save File*
- *Folder Chooser*

3. Dialog title

Specify a title for the dialog. This can also include a suggested file name.

4. Path

Specify the path where the selection dialog starts.

5. Extensions

Specify the file types that will be available for selection. Multiple file extensions are separated by commas, e.g. *.txt, *.csv

9.17.4 Reset Error State

This task resets an error state.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

9.17.5 Set Global User Variable

This task sets one or more global user variables whose validity extends across the entire task list. Global user variables behave like system variables. In contrast to this, see [Set User Variable](#)¹⁷⁸.

Please note: This task can only be performed in the *Resources* area, see [Glossary](#)²⁸⁸.

Please note: The task sets a value not defined in Creo in the Model Processor, which is deleted at the end of the Model Processor / Model Processor User runtime. All values not explicitly assigned are lost.

Task Settings 2 ?

Description: 1

Name: 3

Options: ☐ Multi-Line 4

Initial Value: 5

1. Description

Give the task a name of your choice. Naming conventions can be defined via [Variables / RegEx](#) ²⁷².

2. Help

Opens the help chapter of the task from which the help is called up.

3. Name

Enter the name of the user variable to be set. The name is addressed with %user:NAME%.

4. Options

You can enable additional options by selecting the checkbox.

- *Multi-Line*

Check the box if you want to enter long texts with line breaks under *Initial Value* (3).

5. Initial Value

Enter an initial value.

9.17.6 Set User Variable

This task sets one or more user variables, each of which is only valid in the area (head, body or foot) in which it was defined. A user variable is executed once. In comparison, see [Set Global User Variable](#) ¹⁷⁷.

Please note: The task sets a value in the Model Processor that is not defined in Creo and is deleted at the end of the Model Processor / Model Processor User runtime. All values not explicitly assigned are lost.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

The screenshot displays the configuration interface for the 'Set User Variable' task. It includes a 'Name' input field (1), an 'Options' section (2) containing a 'Multi-Line' checkbox, an 'Increment' section (3) with an 'Increment Value by' input field, and a 'Value' input field (4).

1. Name

Enter the name of the user variable to be set. The name is addressed with %user:NAME%.

2. Options

- *Multi-Line*

Check the box if you want to enter long texts with line breaks under *Value* (3).

3. Increment

You can create the variable as an increment by ticking the *Increment Value by* checkbox. Enter the increment value in the line.

If the variable is a number, the specified value is added.

If the variable is not a number, it is set to 0 and the value is added.

4. Value

Enter the value of the variable.

9.17.7 Set User Variable From Dictionary

This task sets a user variable from a dictionary. If you are working with regular expressions or wildcards, you can add multiple user variables.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Look-Up Key: Value of target variable (1) (.)

Variable: Type a variable name here (2)

Dictionary File: Type or browse for a dictionary file name (3) ...

Format: CSV (4)

CSV Format-specific Settings (5)

Line Breaks : Windows (CRLF)

Encoding: UTF-8

Separator Character: Comma (',')

Columns: 0 (.) 1 (.)

Ignore: ☐ () ☐ [] ☐ {}

Options: ☐ Translate parts of values if no complete translation is found

If no translation found: Do nothing (6)

Fallback Value: -

1. Look-Up Key

Enter the value of the target variable.

You can use [Variables](#)²⁷². The icon (.) opens the RegEx Editor.

2. Variable

Enter the name of the user variable to be set. The name is addressed with %user:NAME%.

3. Dictionary File

Enter the file that contains the translations.

4. Format

Select the format of the dictionary file:

- CSV
- JSON
- SQLite

5. Format-specific settings

Depending on the *Format* (4) selected , different other setting options are available, see [Format-Specific Settings](#) ¹⁸⁰.

6. Options

- *Translate parts of the values if no complete translation is found*

Activate this checkbox to apply the translation of sections. If the value is e.g. `I will be translated`, the system will search for a translation in the following order and, if possible, parts will be translated:

```
I will be translated
I will be
I will
I
will be translated
be translated
will
be translated
translated
```

If a translation is found for part of the text, this is used. The search for a translation continues for the rest of the text.

- *If no translation found*

Select how to proceed with values if no translation was found for them:

Do nothing: The target parameter remains unchanged, regardless of whether a target parameter exists or not.

Store a fallback value: By selecting this option, the Fallback value line is activated for editing.

Create empty user variable: If no target parameter exists yet, it is created empty. Otherwise, the target parameter remains unchanged.

Copy source value: The target parameter is set to the same value as the source parameter.

- *Fallback Value*

You can enter a fallback value for the target parameter if you have selected the *Store a fallback value* option under *If no translation found*.

9.17.7.1 Format-specific settings

Additional settings are available for each format.

CSV-Format-Specific Settings

The database can be created in Excel as a two-column Excel document and saved as a CSV file. Set the following settings depending on the design of the Excel document:

Format: CSV

CSV Format-specific Settings

Line Breaks : Windows (CRLF) 1

Encoding: ISO 8859-1 2

Separator Character: Semicolon (;) 3

Columns: 4 0 (.*?) 1 (.*?)

Ignore: 5 ☐ () ☐ [] ☐ { }

1. Line Breaks

Select the desired coding for the line break:

- *Windows (CRLF)*
- *Unix (LF)*

2. Encoding

Select the desired character encoding:

- *UTF-8*
- *ISO 8859-1*

The standard settings (Windows, ISO-8859-2) can be used to work in Excel with Windows.

3. Separator Character

Select the separator used in the CSV file:

- *Comma (',')*
- *Semicolon (;)*

4. Columns

Enter the column numbers from which the CSV file is read:

Source Column (here: column 0 in the CSV file)

Target Column (here: column 1 in the CSV file)

You can use RegEx to search for columns that contain terms such as *German* or *English* in the column header.

You can use [Variables](#)²⁷². The icon (.*?) opens the RegEx Editor.

5. Ignore

If you explicitly work with brackets in the CSV file, you can explicitly exclude the brackets with content from being used in the target parameter, e.g. if it is specified after a translation that it is only used in the singular: {sg}. In this case, activate the *Ignore text in curly brackets* checkbox to prevent this information from being written to

the target parameter.

The following characters can be ignored:

- *Ignore text in brackets*
- *Ignore text in square brackets*
- *Ignore text in curly brackets*

JSON-Format-Specific Settings

You can access translations in JSON format. Set the following settings depending on the design of the JSON files:

Format:

JSON Format-Specific Settings

Behavior for multiple values: 1

File Structure: 2

1. Behavior for multiple values

If several translations are possible for a value, select the principle according to which the translations are applied.

Take the first value

Take the last value

2. File Structure

Select the file structure of your JSON dictionary:

– *Single Dictionary*

Pairs of word and translation are stored. Each value only occurs once, e.g.

```
{
  "Hello World": "Hallo Welt",
  "Apple": "Apfel"
}
```

– *List of JSON Objects*

Pairs of word and translation are stored. By formatting with square brackets, it is possible to store several translations for one word, e.g.

```
[
  {
    "Name": "Hello World",
    "Value": "Hallo Welt"
  },
  {
    "Name": "Apple",
    "Value": "Apfel"
  }
]
```

– Dictionary of Dictionaries

Translations for several languages can be stored, e.g.

```
{
  "English->Deutsch": {
    "Hello World": "Hallo Welt",
    "Apple": "Apfel"
  },
  "English->русский язык": {
    "Hello World": "Здравствуй мир",
    "Apple": "яблоко"
  }
}
```

SQLite-Format-Specific Settings

You can access SQLite databases. Set the following settings depending on the design of the SQLite database.

Select value from a fixed table

If you select the Select value from a fixed table option under SQL search mode, you can specify the details from this table as follows:

Format: SQLite

SQLite Format-specific Settings

SQLite Lookup Mode: Select value from a fixed table

Table Name: 1

Source Column

Source Column Name: 2

Target Column

Target Column Name: 3

1. Table Name

Enter the name of the table from which the values are to be read.

2. Source Column Name

Enter the column number of the source column.

3. Target Column Name

Enter the column number of the target column.

Custom SQLite Query

If you select the *Custom SQLite Query* option under *SQL Lookup Mode*, you can create a query that queries values from one or more tables.

SQLite Format-specific Settings

SQLite Lookup Mode: Custom SQLite Query

1

SELECT german FROM dictionary_table WHERE english = ?;

1. Text field for entering the query

A query can look like this, for example: `SELECT german FROM dictionary_table WHERE english = ?;`

With this query, you select the values in the English column from a specific dictionary.

9.17.8 Set User Variable From File

This task sets one or more user variables from a file.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Variable Name:	<input type="text" value="Type a variable name here"/>	1
File Name:	<input type="text" value="Type a file name here or browse for a file..."/>	2

1. Variable Name

Enter the name of the user variable to be set. The name is addressed with `%user:NAME%`.

2. File Name

Enter the name of the file whose content is to be loaded into the user variable.

The file must be available on the server (where Creo is running)!

9.17.9 Set User Variable from Model Data

This task sets one or more user variables from a save slot from model data.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

User variable name:	<input type="text" value="Type a variable name here"/>	1
Save name:	<input type="text" value="Type a slot name here"/>	2

1. User Variable Name

Enter the name of the user variable to be filled with the content of the given slot. The name is addressed with `%user:NAME%`.

2. Save Name

Enter the name of the slot name for the stored content inside the MPUDEF class.

9.17.10 Set User Variable From URL

This task sets one or more user variables from a specified URL.

Please note: The task sets a value not defined in Creo in the Model Processor, which is deleted at the end of the Model Processor / Model Processor User runtime. All values not explicitly assigned are lost.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Variable Name:	<input type="text" value="Type a variable name here"/>	1
URL:	<input type="text" value="Type a URL here"/>	2
Authentication:	<input type="checkbox"/> Use Single Sign-On (SSO) Authentication 3 <input type="checkbox"/> Use Username and Password (Standard Authentication) Username: <input type="text" value="Type a username here"/> Password: <input type="text" value="Type a password here"/>	
Options:	<input type="checkbox"/> Use Windchill CSRF Token 4 <input type="checkbox"/> Use Proxy Server URL: <input type="text" value="Type a proxy server URL here"/> User name: <input type="text" value="Type a username here"/> Password: <input type="text" value="Type a password here"/>	
Post Variables:	<input type="text" value="Add HTTP post variables here"/>	
Response Type:	<input type="text" value="Application/XML"/>	6

1. Variable Name

Enter the name of the user variable to be set. The name is addressed with `%user:NAME%`.

2. URL

Enter the URL to determine the value.

3. Authentication

Select a form of authentication by checking the corresponding checkbox.

- *Use Single Sign-On (SSO) Authentication*
- *Use Username and Password (Standard Authentication):* Once you have selected this option, you can enter the user name and password for this authentication.

4. Options

You can activate additional options by ticking the corresponding checkbox.

- *Use Windchill CSRF Token:* The Windchill CSRF token for ODATA REST API is queried and used for the request.
- *Use Proxy Server:* You can specify a proxy server if this is required for a connection. Once you have selected this option, you can enter the *URL, user name and password* for this authentication.

5. Post Variables

You can transfer files and information to the server as post variables, e.g. JSON information. If files are to be embedded, Base 64 / Base 64 uc support from the variables can be used. Post information up to a size of 5 MB is supported.

6. Response Type

- *Application/XML*
- *Application/JSON*

Please note: If the value is to be assigned to a parameter later, it must be noted that parameters only support a value length of 80 characters.

9.17.11 Write to ModelProcessor Log

This task writes a message to the model processor log.

The **cross-task settings** can be found in the chapter [General task settings](#)  35.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Level:	Info	1
Message:	Type a message here	2

1. Level

Define which form is written to the Model Processor log. You can choose between these forms:

- *Trace*
- *Debug*
- *Info*
- *Warning*
- *Error*
- *Fatal*

2. Message

Enter a message that will be written to the Model Processor message log.

Tip: You can use [Variables](#) 272.

Please note: The log messages that come from completed tasks are only output in English.

Example settings

You can use the task to report an error if an task is not executed as expected:

1. Set this task for parts and assemblies.
2. Set *Error* to be the output.

Result: If the task to be executed subsequently are nevertheless executed for a drawing, an error is written to the Model Processor log.

9.18 Parameter

This category contains tasks that can be used to rework parameters.

9.18.1 Add Feature Parameter

This task adds one or more feature parameters. Descriptions can be specified for existing parameters.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Feature Filter 1

— Or ▾

+

+

Parameters: + − 2

Name	Type	Value	Designated	Description	Unit
Type a para (.*)	String ▾	Type a value her	<input checked="" type="checkbox"/>	Type a description here	mm ▾
Type a para (.*)	Double ▾	Type a value her	<input type="checkbox"/>	Type a description here	No Unit ▾
Type a para (.*)	Integer ▾	Type a value her	<input type="checkbox"/>	Type a description here	day ▾
Type a para (.*)	Boolean ▾	Type a value her	<input type="checkbox"/>	Type a description here	No Unit ▾

Options 3

☐ Replace description if parameter exists
 ☐ Replace designated if parameter exists

If model is instance or generic 4

☐ Add to generic model's family table

1. Feature Filter

Enter one or more features for which this task is applied or not applied. To build the feature filter tree, see [Filter Tree](#)⁴².

2. Parameters

The parameters to be added are recorded in a table. Use the plus symbol **+** to add a new entry. Use the minus symbol **—** to delete an existing row. In each row, you can enter the properties *Name*, *Type*, *Value*, *Designated*, *Description*, and *Unit*:

You can use [Variables](#)²⁷². The icon **(.*)** opens the RegEx Editor.

3. Options

Existing feature parameters in the model can be changed using these specifications. The feature parameter is not recreated, so that the relationships linked to the parameter are retained.

- *Replace description if parameter exists*
- *Replace specified parameter if parameter exists*

4. If model is instance or generic

- *Add to generic model's family table*

The newly added parameters of the family table of the current model are added if the current model is generic.

9.18.2 Add Parameter

The task adds one or more parameters to the model if they do not yet exist. Description and designation status can be replaced for existing parameters.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Parameters: **+** **—** **1**

Name 2	Type	Value	Designated	Description	Unit
Type a parameter name here (.*)	String	Type a value here	<input type="checkbox"/>	Type a description here	No Unit

Options **3**

☐ Replace description if parameter exists

☐ Replace designated if parameter exists

If model is instance or generic **4**

☐ Add to generic model's family table

1. Parameters

- *Add entry*
- *Delete entry*

2. Tabular overview of entries

Each newly added parameter is entered as a new table row, which can be edited with the following properties:

- *Name*

- *Type*

Boolean: *true* / *yes* / *1* are interpreted as *true*. *false* / *no* / *0* and all other entries that are not recognized are interpreted as *false*.

String: *Character string*

Integer: *Whole number*

Double: *Real number*

- *Value*

- *Designated*

- *Description*

- *Unit*

Please note: When you create new parameters, ensure that the names have not yet been used in the models as dimension names. In this case, Model Processor is not able to create the parameter and generates an error. The parameter cannot be created manually either.

3. Options

Existing parameters in the model can be changed using these specifications. The parameter is not recreated, so that the relationships linked to the parameter are retained.

- *Replace description if parameter exists*

- *Replace designated if parameter exists*

4. If model is instance or generic

- *Add to generic model's family table*

The newly added parameters of the family table of the current model are added if the current model is generic.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.18.3 Change All Designation Flags

This task clears all marking flags.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Set to: ☒ Set all parameters to designated 1
☐ Remove designation from all parameters
 Options: ☐ Change Generic 2

1. Set to

- *Set all parameter to designated*
Set the designation flag of all model parameters to "Designated".
- Remove designation from all parameters
Remove the designation flag from all model parameters.

2. Options

- Change generic
If this model is an instance, change the designation flags of the generic model parameters.

9.18.4 Delete Feature Parameter

This task deletes a feature parameter. If you are working with regular expressions or wildcards, you can also delete multiple feature parameters.

The **cross-task settings** can be found in the chapter [General task settings](#) 35.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Feature Filter 1

Search in : 2 ☒ Name ☐ Value

Parameter name or value

Type a parameter name or value here 3 (*)

If model is Instance or Generic: ☐ Delete from Generic 4 ☐ Delete only in Family Table

1. Feature Filter

Enter one or more features for which this task is applied or not applied. To build the feature filter tree, see [Filter Tree](#) ⁴².

2. Search in

Select whether the entry in *Parameter name or value* (3) is based on the name or value of the parameter.

3. Parameter name or value

Enter the name or value of the feature parameter to be deleted.

You can use [Variables](#) ²⁷². The icon  opens the RegEx Editor.

4. If model is Instance or Generic

– *Delete from Generic*

The parameter is deleted in the generic, so that it is deleted in all instances and in the family table.

– *Delete only in Family Table*

The parameter is deleted in the family table of the generic. The parameter reverts to the specification of the generic parameter.

Please note: Deleting PDM parameters can lead to inconsistent data. This can affect usage with or without a PDM system.

9.18.5 Delete Parameter

This task deletes a parameter. If you are working with regular expressions or wildcards, you can also delete multiple parameters.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:



1. Search in

Select whether the entry in *parameter name or value* (2) is compared with the parameter name or the parameter value.

2. Parameter name or value

Enter the name or value of the parameter to be deleted.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

3. If model is Instance or Generic

- *Delete from Generic:* The parameter is deleted in the generic, so that it is deleted in all instances and in the family table.
- *Delete only in Family Table:* The parameter is deleted in the family table of the generic. The parameter reverts to the specification of the generic parameter.

Working with PDM parameters

Within a PDM system, the connection to the server must also be disconnected and reestablished when deleting a parameter. We recommend using the [Start Mapkey](#)¹¹⁰ task for this purpose. To delete Intralink or PDM parameters, the hidden configuration option `allow_create_pdm_param = yes` must be set.

Please note: Deleting PDM parameters can lead to inconsistent data. This can affect usage with or without a PDM system.

Example:

- *Mapkey: Disconnect server*
- *Delete parameter: PROI_**
- *Mapkey: Connect server*

9.18.6 Edit Feature Parameter

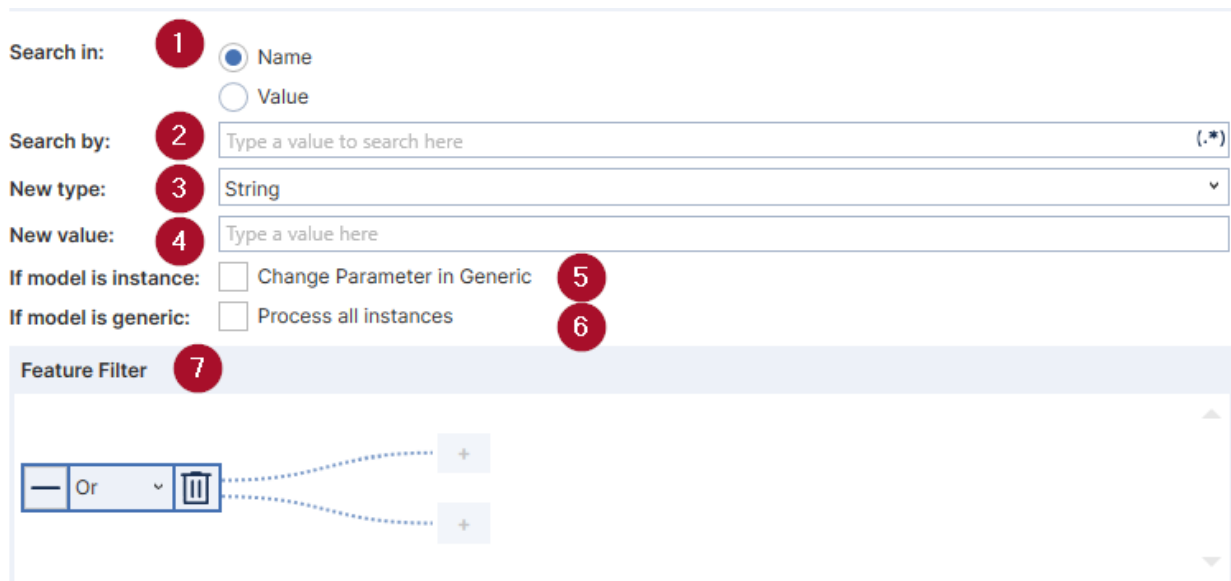
This task edits one or more feature parameters.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:



The screenshot shows the GENIUS TOOLS configuration interface. Numbered callouts point to the following elements:

- 1**: Search in: Radio buttons for Name (selected) and Value.
- 2**: Search by: Text input field with placeholder "Type a value to search here" and a wildcard icon (.*) on the right.
- 3**: New type: Dropdown menu showing "String".
- 4**: New value: Text input field with placeholder "Type a value here".
- 5**: If model is instance: Checkbox for "Change Parameter in Generic".
- 6**: If model is generic: Checkbox for "Process all instances".
- 7**: Feature Filter: A section containing a filter rule editor with a minus sign, "Or", a dropdown, a trash icon, and two plus signs for adding new rules.

1. Search in

Select whether the entry in Search by (2) is compared with the parameter name or the parameter value.

2. Search by

Enter the comparison value.

You can use [Variables](#)²⁷². The icon (.) opens the RegEx Editor.

3. New type

You can assign a new data type to the feature parameter. The data types *String*, *Integer*, *Double*, and *Boolean* are available. Specifying a new type replaces any other specifications for the parameter. If you want to retain the old value, enter @para@.

Boolean: *true* / *yes* / *1* are interpreted as *true*. *false* / *no* / *0* and all other entries that are not recognized are interpreted as *false*.

String: *Character string*

Integer: *Whole number*

Double: *Real number*

4. New value

You can assign a new value to the feature parameter. Specifying a new value replaces any other specifications for the parameter.

5. If models is instance

Use the Process all instances checkbox to select whether all instances should be processed if the model is a generic part.

If this text box is checked, the New Value (4) is reevaluated for each instance. This value is then assigned to each instance. It is important to ensure that the value is in the family table. In multi-level family tables, this task is only performed for instances for which the

parameter is in the family table of the direct parent generic, even if this is itself an instance.

6. If models is generic

Use the *Change Parameter in Generic* check box to select whether the model is edited if it is an instance and also has a generic part.

If this check box is selected, the result of the revision may vary depending on whether it is a generic parameter or a family table parameter.

7. Feature Filter

Enter one or more features for which this task is applied or not applied. To build the feature filter tree, see [Filter Tree](#)⁴².

Please note: Deleting PDM parameters can lead to inconsistent data. This can affect usage with or without a PDM system.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.18.7 Edit Parameter

This task changes model parameters specified by name or value. The value and type of the parameter can be changed. The parameters to be edited must already exist in the model.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:



The screenshot shows the 'Edit Parameter' task settings form. It includes the following elements with numbered callouts:

- 1**: Search in: Radio buttons for 'Name' (selected) and 'Value'.
- 2**: Search by: Text input field with placeholder 'Type a value to search here' and a RegEx icon.
- 3**: New type: Dropdown menu showing 'String'.
- 4**: New value: Text input field with placeholder 'Type a value here'.
- 5**: If model is instance: Check box for 'Change Parameter in Generic'.
- 6**: If model is generic: Check box for 'Process all instances'.

1. Search in

Select whether the entry in Search by (2) is compared with the parameter name or the parameter value.

2. Search by

Enter the comparison value.

3. New Type

You can assign a new data type to the feature parameter. The data types *String*, *Integer*, *Double*, and *Boolean* are available. Specifying a new type replaces any other specifications for the parameter.

Please note: If the parameter found in the model does not correspond to the set parameter type, it is deleted from the model and a new parameter with the same name is created.

4. New value

You can assign a new value to the parameter. Specifying a new value replaces any other specifications for the parameter. If you want to retain the old value, you must enter @para@.

5. If model is instance

Use the *Process all instances* checkbox to select whether all instances should be processed if the model is a generic part.

If this text box is checked, the New Value (4) is reevaluated for each instance. This value is then assigned to each instance. It is important to ensure that the value is in the family table. In multi-level family tables, this task is only performed for instances for which the parameter is in the family table of the direct parent generic, even if this is itself an instance.

6. If model is generic

Use the *Change Parameter in Generic* check box to select whether the model is edited if it is an instance and also has a generic part.

If this check box is selected, the result of the revision may vary depending on whether it is a generic parameter or a family table parameter.

You can use [Variables](#)²⁷². The icon (.*^{*}) opens the RegEx Editor.

Remove restricted definition

You can use this task to remove the restricted flag from one or more parameters. The removal is performed via the restriction definition file.

Proceed as follows

1. To access this file, you need a list of the general restrictions for all parts to be revised. You can use the report tasks to create this list; see [Report Parameter Values](#)²³⁴.
2. An .lst file with the corresponding restrictions must be created:

Sample file: Delete all restrictions (except those created by relationships)

```
restricted.lst
ND_ParamDefArr_K01 = {
```

}

Sample file: Delete selected restrictions

If only some of the restrictions are to be deleted, the remaining restrictions must be redefined in the file.

```
restricted.lst
ND_ParamDefArr_K01 = {
{ Name = test2
  Type = string
  Default = 'blue_new'
  Enum = { 'red_new', 'green_new', 'blue_new' }
}
}
```

3. The created file must be set in *config.pro*:

```
restricted_val_definition C:\restricted.lst
```

4. Restart Creo.

If Creo is not restarted, the set file will not be used.

You can then record a map key that you can also use with other models with the task [Start Mapkey](#)¹¹⁰.

5. Open a part with restricted parameters.

6. Record a map key:

- a. Open the Creo Parameter Editor.
- b. Go to *Tools > Update Constraint Definition*.
- c. A new dialog box will open. Select the checkbox in this dialog box.
- d. Close the dialog box by clicking *Assign*.
- e. Close the Parameter Editor by clicking *OK*.

9.18.8 Edit Parameter from Dictionary

This task writes the translation of a parameter value to a parameter value. The translation is created from CSV or MDB files.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Source Parameter:	Type a source parameter name here	1	(.*)
Target Parameter:	Same as source parameter	2	
Dictionary File:	Type or browse for a dictionary file name	3	...
Format:	CSV	4	▼
CSV Format-Specific Settings 5			
Line Breaks :	Windows (CRLF)		▼
Encoding:	UTF-8		▼
Separator Character:	Comma (',')		▼
Columns:	0	(.*)	1 (.)
Options:	<input type="checkbox"/> Translate parts of values if no complete translation is found		
If no translation found:	Do nothing ▼		
Fallback Value:	-		

1. Source Parameter

Enter the parameter name.

2. Target Parameter

Enter the parameter name.

Tip: Please ensure that the names in the source parameter are descriptive and as unique as possible, e.g.

Example Source parameter (target parameter)

mother

More efficient

hexagonal nut

disc

washer

3. Dictionary File


Enter the file that contains the translations.

4. Format

Select the dictionary file format:

- CSV
- SQLite
- JSON

5. Format-Specific Settings

Depending on the *Format* (4) you have selected, there are a number of other setting options available to you, see [Format-Specific Settings](#) 

6. Options

- *Translate parts of the values if no complete translation is found*

Activate this check box to apply the translation of sections. If the value is e.g. `I will be translated`, a translation is searched for in the following order and, if possible, parts are translated:

```
I will be translated
I will translated
I will
I
will be translated
will be
will
be translated
be
```

If a translation is found for part of the text, this is used. The search for a translation continues for the rest of the text.

- *If no translation found*

Select how to proceed with values if no translation was found for them:

Do nothing: The target parameter remains unchanged, whether or not a target parameter exists.

Store a fallback value: Selecting this option activates the *Fallback* value line for editing.

Create empty parameter: If no target parameter exists yet, it is created empty. Otherwise, the target parameter remains unchanged.

Copy source parameter value : The target parameter is set equal to the source parameter.

- *Fallback Value*

You can enter a fallback value for the target parameter if you have selected the *Save fallback value* option under *If no translation was found*.

9.18.8.1 Format-Specific Settings

Additional settings are available for each format.

CSV-Format-Specific Settings

The database can be created in Excel as a two-column Excel document and saved as a CSV file. Set the following settings depending on the design of the Excel document:

Format: CSV

CSV Format-specific Settings

Line Breaks : Windows (CRLF) 1

Encoding: ISO 8859-1 2

Separator Character: Semicolon (';') 3

Columns: 4 0 (.*) 1 (.*)

Ignore: 5 ☐ () ☐ [] ☐ { }

1. Line Breaks

Select the desired coding for the line break:

- *Windows (CRLF)*
- *Unix (LF)*

2. Encoding

Select the desired character encoding:

- *UTF-8*
- *ISO 8859-1*

The standard settings (Windows, ISO-8859-2) can be used to work in Excel with Windows.

3. Separator Character

Select the separator used in the CSV file:

- *Comma (',')*
- *Semicolon (';')*

4. Columns

Enter the column numbers from which the CSV file is read:

Source Column (here: column 0 in the CSV file)

Target Column (here: column 1 in the CSV file)

You can use RegEx to search for columns that contain terms such as *German* or *English* in the column header.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

5. Ignore

If you explicitly work with brackets in the CSV file, you can explicitly exclude the brackets with content from being used in the target parameter, e.g. if it is specified after a translation that it is only used in the singular: {sg}. In this case, activate the *Ignore text in curly brackets* checkbox to prevent this information from being written to the target parameter.

The following characters can be ignored:

- *Ignore text in brackets*
- *Ignore text in square brackets*

- *Ignore text in curly brackets*

JSON-Format-Specific Settings

You can access translations in JSON format. Set the following settings depending on the design of the JSON files:

Format:

JSON Format-Specific Settings

Behavior for multiple values: **1**

File Structure: **2**

1. Behavior for multiple values

If several translations are possible for a value, select the principle according to which the translations are applied.

Take the first value

Take the last value

2. File Structure

Select the file structure of your JSON dictionary:

- *Single Dictionary*

Pairs of word and translation are stored. Each value only occurs once, e.g.

```
{
  "Hello World": "Hallo Welt",
  "Apple": "Apfel"
}
```

- *List of JSON Objects*

Pairs of word and translation are stored. By formatting with square brackets, it is possible to store several translations for one word, e.g.

```
[
  {
    "Name": "Hello World",
    "Value": "Hallo Welt"
  },
  {
    "Name": "Apple",
    "Value": "Apfel"
  }
]
```

- *Dictionary of Dictionaries*

Translations for several languages can be stored, e.g.

```
{
  "English->Deutsch": {
    "Hello World": "Hallo Welt",
    "Apple": "Apfel"
  },
}
```

```

    "English->русский язык": {
    "Hello World": "Здравствуй мир",
    "Apple": "яблоко"
    }
}

```

SQLite-Format-Specific Settings

You can access SQLite databases. Set the following settings depending on the design of the SQLite database.

Select value from a fixed table

If you select the Select value from a fixed table option under SQL search mode, you can specify the details from this table as follows:

Format: SQLite

SQLite Format-specific Settings

SQLite Lookup Mode: Select value from a fixed table

Table Name: Type a table name here 1

Source Column

Source Column Name: Type a column name here 2

Target Column

Target Column Name: Type a column name here 3

1. Table Name

Enter the name of the table from which the values are to be read.

2. Source Column Name

Enter the column number of the source column.

3. Target Column Name

Enter the column number of the target column.

Custom SQLite Query

If you select the *Custom SQLite Query* option under *SQL Lookup Mode*, you can create a query that queries values from one or more tables.

SQLite Format-specific Settings

SQLite Lookup Mode: Custom SQLite Query

1

SELECT german FROM dictionary_table WHERE english = ?;

1. Text field for entering the query

A query can look like this, for example: `SELECT german FROM dictionary_table WHERE english = ?;`

With this query, you select the values in the English column from a specific dictionary.

9.18.9 Edit Parameter from Table Cell

This task writes data from table cells of the current drawing into the given parameters.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1. Write to

- *Drawing Parameter*
Writes the parameters to the current drawing.
- *Current Drawing Model Parameter*
Writes the parameters to the current drawing model.

2. Options

- *Search current sheet only*
The parameter is deleted from the generic, so it is removed from all instances and the family table.

3. Import list of layers from CSV file

4. Clear list

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

5. Table Selection

Select the table in which you want to search for cells. If you do not specify a table, all tables will be searched.

You can use [Variables](#)²⁷². The icon opens the RegEx Editor.

6. Cell

Select the table cell that you want to populate with parameters. If you do not specify a cell, all table cells will be searched.

7. Parameter

Enter the name of the parameter that you want to fill with the data found.

9.18.10 Rename Feature Parameter

This task renames one or more feature parameters.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1. Feature Filter

Enter one or more features for which this task is applied or not applied. To build the feature filter tree, see [Filter Tree](#)⁴².

2. Search by

Enter a search term to find the feature parameter you want to rename.

You can use [Variables](#)²⁷². The icon **(.*)** opens the RegEx Editor.

3. Search in

Select whether the entry in *Search by* (2) is based on the parameter name or value.

4. Rename to

Enter a name to rename the selected feature parameter.

9.18.11 Rename Parameter

This task renames one or more parameters.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1. Search by

Enter a search term to find the parameter you want to rename.

You can use [Variables](#)²⁷². The icon opens the RegEx Editor.

2. Search in

Select whether the entry in *Search by* (1) is based on the parameter name or value.

3. Rename to

Enter a name to rename the selected parameter.

9.18.12 Set Access State of Parameter

This task defines the access state of a parameter.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1. Search by

Select whether the entry in *Parameter* (2) is based on the parameter name or value.

2. Parameter

Enter a search term to find the parameter for which you want to set the access state.

You can use [Variables](#)²⁷². The icon opens the RegEx Editor.

3. State:

– *Full*: Specifies full access.

Full access parameters are user-defined parameters that can be modified from any application.

- *Limited*: Specifies parameters with limited access.
Full access parameters can be set to have limited access. Limited access parameters can be modified by user, family tables and programs. These parameters cannot be modified by relations.
- *Locked*: Specifies parameters with locked access are parameters.
The parameters can be locked either by an external application, or by the user. You can modify parameters locked by an external application only from within an external application. You cannot modify user-defined locked parameters from within an external application.

9.19 Pro/PROGRAM

This category contains tasks that can be used to rework the Pro/PROGRAM environment.

9.19.1 Delete Pro/PROGRAM Input Lines

This task deletes Pro/PROGRAM lines that fill input parameters from a model.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter


This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



1. Parameters

Enter the name of the parameters to be deleted.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

2. Import list of parameters from CSV file

3. Clear List

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

9.19.2 Delete Pro/PROGRAM Lines

This task deletes Pro/PROGRAM lines from a model.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 **Matching Lines:**

2 | 3

Type a matching line here (.)

Delete a block of lines

4 **Start from line:** Type a block start line here (.)

5 **End at line:** Type a block end line here (.)

6 **Options:** ☐ Automatically detect and match end of If block

1. Matching Lines

Enter a matching Pro/PROGRAM line to remove from the set of relations in the current model.

2. Import list of parameters from CSV file**3. Clear List**

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

4. Start from line

Enter a start line

5. End at line

Enter an end line.

6. Options

- *Automatically detect and match end of If block:* The end of an If block is automatically detected. The input field *End at line* is blocked and any existing entries are ignored.

You can use [Variables](#)²⁷². The icon (.) opens the RegEx Editor.

9.20 Relation

This category contains tasks that can be used to rework relations.

9.20.1 Add Feature Relation

The task adds relations to the feature.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 Feature Filter

! Or ▾ [trash icon] + +

2 Relations:

Type relations here.

3 Add to: ☐ Start of existing relations ☒ End of existing relations

4 Options: ☐ Disable failure check

1. Feature Filter

Enter one or more features for which this task applies or does not apply. To build the filter tree, see [Filter Tree](#)⁴².

2. Relations

Enter new relations line by line. The entries will be added as a block.

3. Add to

- *Start of existing relations*
- *End of existing relations*

Please note: The relations defined in a task can only be inserted as a block at the beginning or end of existing relations. To insert relations at other point, please use the task [Edit Feature Relation](#)²¹³.

4. Options

- *Disable failure check*

If this setting is enabled, errors may occur.

Only use this option if you are sure that the errors in the relations will not affect the execution of the newly added rows. Otherwise, the result of the relations will be

uncertain. In this case, the quality of the data after model rework cannot be guaranteed.

This option can be used, for example, when a non-existent parameter is written to a relationship or when a division by 0 occurs in a relation.

9.20.2 Add Model Relation

This task adds relations / post-regeneration relations to the model.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1. Relations

Enter new relations line by line. The entries will be added as a block.

2. Post-Regen Relations

Enter new relations line by line. The entries will be added as a block.

3. Add to

- *Beginning of existing relations*
- *End of existing relations*

Please note: The relations defined in a task can only be inserted as a block at the beginning or end of existing relations. To insert relations at other point, please use the task [Edit Feature Relation](#) ²¹³.

4. Options

- *Disable failure check*

If this setting is enabled, errors may occur.

Only use this option if you are sure that the errors in the relations will not affect the execution of the newly added rows. Otherwise, the result of the relations will be uncertain. In this case, the quality of the data after model rework cannot be guaranteed. This option can be used, for example, when a non-existent parameter is written to a relationship or when a division by 0 occurs in a relation

9.20.3 Delete Feature Relation

This task deletes lines from relations, which can be specified as single lines or blocks. If you use regular expressions or wildcards, you can delete multiple feature relations.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 Feature Filter

! Or ▾ [Trash Icon] + +

2 Matching Lines: 3 [Download Icon] 4 [Print Icon]

Type a matching line here (*)

5 Delete a block of lines

6 Start from line: Type a block start line here (*)

7 End at line: Type a block end line here (*)

8 Options: ☐ Automatically detect and match end of If block

☐ Comment instead of deleting

☐ Disable Failure Checks

1. Feature Filter

Enter one or more features for which this task applies or does not apply. To build the filter tree, see [Filter Tree](#)⁴².

2. Matching Lines

Enter a relation line used to determine whether a relation is deleted above or below.

3. Import list of Cross Sections from CSV file**4. Clear List**

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

5. Start from line

Enter a start line

6. End at line

Enter an end line.

7. Options

- *Automatically detect and match end of If block:* The end of an If block is automatically detected. The input field *End at line* is blocked and any existing entries are ignored.


8. Options

- *Comment out instead of deleting:* Lines found are commented and not deleted.
- *Disable Failure Checks*

If this setting is enabled, errors may occur.

Only use this option if you are sure that the errors in the relations will not affect the execution of the newly added rows. Otherwise, the result of the relations will be uncertain. In this case, the quality of the data after model rework cannot be guaranteed.

This option can be used, for example, when a non-existent parameter is written to a relationship or when a division by 0 occurs in a relation.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

Example settings

Example with If-Block

```
if (TEST=14)
    PARAMETER2 = "HELLO"
endif
```

Start at line: `*if*(TEST=*`

End at line: `*endif*`

`*` is used here as a wildcard character. It says that all blocks that contain `if` with the parameter `TEST` are deleted up to the `endif`. The wildcard is used here to ignore any blanks as well as the value the `TEST` parameter is compared to.

To search explicitly for a line that contains an asterisk, you must use **. A single asterisk is ALWAYS interpreted as a wild card. Otherwise, you may use enhanced Regular Expressions.

Option can also be selected to recognize the end of an if block . The associated `endif` is recognized and used automatically here. This is useful when several if blocks are nested.

Deactivate the error checking function only if you are sure that the errors in the relations do not influence the execution of the newly added lines. The result of the relations would not be reliable and the data quality after rework would not be reliable.

9.20.4 Delete Model Relation

This task deletes rows from the relations / post-regeneration relations, which can be specified as single rows or blocks. If you use regular expressions or wildcards, you can delete multiple model relations.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

The screenshot shows the 'Delete Model Relation' task settings interface. It includes a dropdown menu for 'Delete in:' set to 'Relations'. Below this is a 'Matching Lines:' section with a text input field 'Type a matching line here' and a wildcard icon '(*)'. To the right of the input field are two icons: a download icon and a printer icon. Below the 'Matching Lines:' section is a 'Delete a block of lines' section. This section contains three input fields: 'Start from line:' with 'Type a block start line here' and '(*)', 'End at line:' with 'Type a block end line here' and '(*)', and 'Options:' with a checkbox 'Automatically detect and match end of If block'. At the bottom, there are two more options: 'Options:' with a checkbox 'Comment instead of deleting' and a checkbox 'Disable failure checks'.

1. Delete in

Select the type of relation you want to delete:

- Relations
- Post-Regen Relations
- Relations and Post-Regen Relations

2. Matching Lines

Enter a relation line used to determine whether a relation is deleted above or below.

3. Import list of Cross Sections from CSV file**4. Clear List**

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

5. Start from line

Enter a start line

6. End at line

Enter an end line.

7. Options

- *Automatically detect and match end of If block:* The end of an If block is automatically detected. The input field *End at line* is blocked and any existing entries are ignored.


8. Options

- *Comment out instead of deleting:* Lines found are commented and not deleted.
- *Disable Failure Checks*

If this setting is enabled, errors may occur.

Only use this option if you are sure that the errors in the relations will not affect the execution of the newly added rows. Otherwise, the result of the relations will be uncertain. In this case, the quality of the data after model rework cannot be guaranteed.

This option can be used, for example, when a non-existent parameter is written to a relationship or when a division by 0 occurs in a relation.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.20.5 Edit Feature Relation

This task changes the words or phrases in the relations of a feature line by line, or adds one or more new relations.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 Feature Filter

2 Replacements:

3

4

5 Add Relations:

6 Add:

7 Matching Line:

8 Options:

1. Feature Filter

Enter one or more features to which this task will or will not be applied. To build the feature filter tree, see [Filter Tree](#)⁴².

2. Replacements

Left input field: Enter the word you want to replace; * replaces the entire line.

Right input field: Enter the letters/words you want to insert.

3. Import list of Cross Sections from CSV file

4. Clear List

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

5. Add Relations

Enter new relations line by line. The entries are inserted as a block.

Please note: If an identical line is entered more than once, it will be inserted multiple times.

6. Add

- *Above the matching line*
- *Below the matching line*

7. Matching Line

Enter a reference line that is used to determine whether a relation is inserted above or below that line.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

8. Options

- *Disable Failure Check*

If this setting is enabled, errors may occur.

Only use this option if you are sure that the errors in the relations will not affect the execution of the newly added rows. Otherwise, the result of the relations is not valid. In this case, the data quality after the model rework cannot be guaranteed.

This option can be used, for example, when a non-existent parameter is written in a relation or when a 0 is split in a relation.

9.20.6 Edit Model Relation

This task changes the words or phrases in relations and / or post-regeneration relations in the model line by line, or adds a block of lines.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

The screenshot shows the 'Edit in:' dropdown set to 'Relations'. Step 2 'Replacements:' has two input fields: 'Type a find value here' with a wildcard '(*)' and 'Type a replacement here'. Step 3 shows 'Import list of Cross Sections from CSV file' and step 4 shows 'Clear List' buttons. Step 5 'Add Relations:' has a large text area 'Type relations here'. Step 6 'Add:' has radio buttons for 'Above the matching line' (selected) and 'Below the matching line'. Step 7 'Matching Line:' has an input field 'Type a matching relation line here' with a wildcard '(*)'. Step 8 'Options:' has a checkbox 'Disable Failure Check'.

1. Edit in

Enter the relations you want to modify.

2. Replacements

Left input field: Type the word you want to replace; * replaces the entire line.

Right input field: Type the letters/words you want to insert.

3. Import list of Cross Sections from CSV file**4. Clear List**

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

5. Add Relations

Enter new relations line by line. The entries are inserted as a block.

Please note: If an identical line is entered more than once, it will be inserted multiple times.

6. Add

- *Above the matching line*
- *Below the matching line*

7. Matching Line

Enter a reference line that is used to determine whether a relation is inserted above or below that line.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

8. Options

- *Disable Failure Check*

If this setting is enabled, errors may occur.

Only use this option if you are sure that the errors in the relations will not affect the execution of the newly added rows. Otherwise, the result of the relations is not valid. In this case, the data quality after the model rework cannot be guaranteed.

This option can be used, for example, when a non-existent parameter is written in a relation or when a 0 is split in a relation.

9.20.7 Set Relations Unit Sensitive

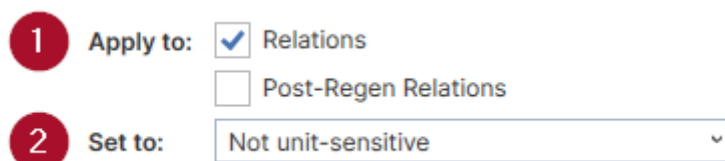
This task sets the unit sensitivity of relations.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



1 Apply to: ☒ Relations ☐ Post-Regen Relations

2 Set to: Not unit-sensitive

1. Apply to

Specify the type of relationships for which the unit reference is being changed:

- *Relations*
- *Post-Regen Relations*

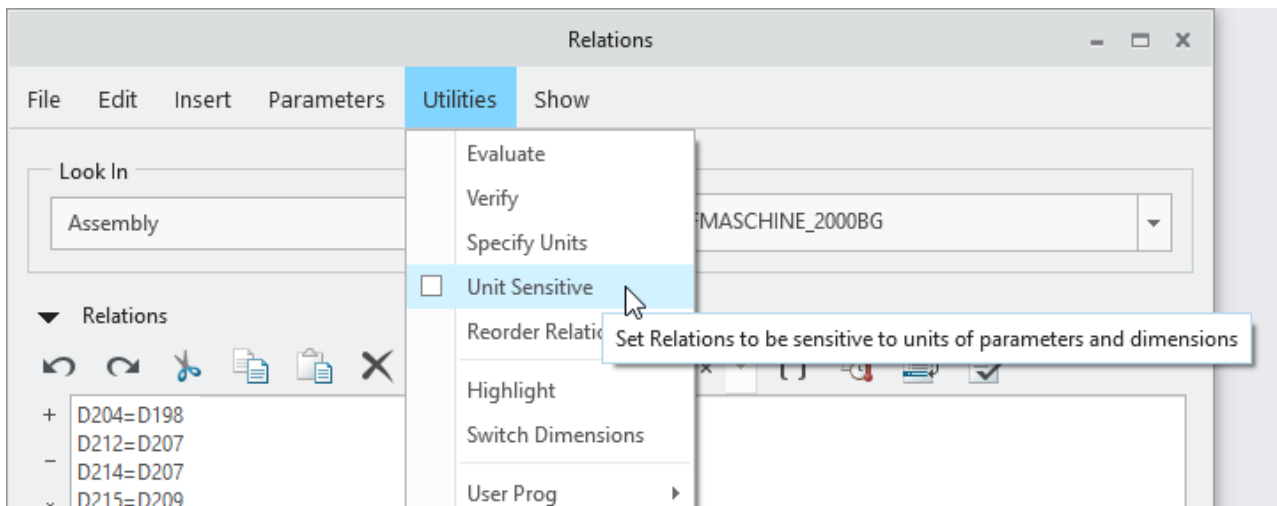
2. Set to

Select whether the unit reference should be set or removed:

- *Not unit-sensitive*
- *Unit-sensitive*

Setting the unit sensitivity manually

In Creo, the unit sensitivity of relations is set via the Creo menu *Relations > Utilities > Unit Sensitive*.



9.21 Report

This category contains tasks that can be used to rework reports. Various types of report tasks are available. If you want to output different modes as a report, create a separate task for each mode. This allows you to define the report sequence and adjust it as required.

Before/after report

In a before/after report, the same report task is executed at the beginning of the task list and at the end of the task list. The aim is to display both the model status before the revision and the model status after the revision in one report. The task is executed twice, at the end the results of the executions are displayed in a report on the left or right-hand side.

This document can also be used as a proof of change for the revised parts, as it contains both values.

9.21.1 List Report Definition

This task creates a report on model information. A listing report can then be described by all other report tasks. Any number of rows can be created per model, while one row is used per model in the report definition.

Please note: This task can only be performed in the *Resources* area, see [Glossary](#) ²⁸⁸.

Task Settings ?

Description: 1

Report Name: 2

File Name: 3 ... **Client (this computer)** ▾

File Format: 4 ▾

Options:

- ☐ Include file name in report
- ☐ Open report after task list execution 5
- ☐ Append to existing report

CSV Format-Specific Settings 6

Line Breaks: ▾

Encoding: ▾

Separator Character: ▾

Options:

- ☐ Separate Models by Empty Lines
- ☐ Replace Decimal Dot

1. Description

You can enter a description of the listing report here, e.g. in which cases this listing report is to be used.

2. Report Name

Enter an internal report name that you can select in the Model Processor user interface. The report must be clearly identifiable by its name.

3. File Name

Enter the path with file name to an existing file or to the file to be created. You can use [Variables](#) ²⁷².

- Select the storage location for the report: The report can be saved temporarily on the *Client*. *Server* means that the report is saved directly after execution where Creo is running.

4. File Format

Select the file format:

- CSV

5. Options

- *Include file name in report*
- *Open report after task list execution*
- *Append to existing report*

6. CSV Format-Specific Settings

Depending on the *File Format* (3) selected, various other setting options are available, see [Format-Specific Settings](#) ²²³.

9.21.2 Report BOM Balloons

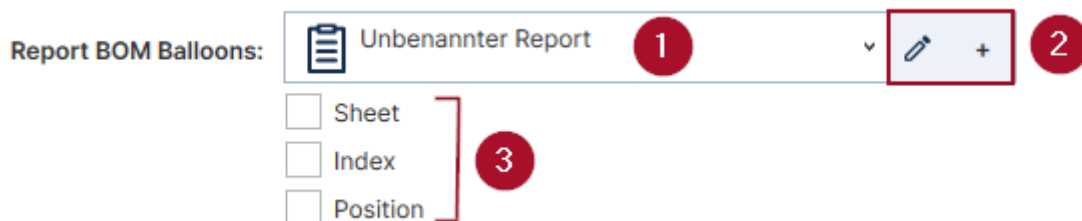
This task reports all BOM balloons on a drawing, according to the option selected by the user.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Drawings



The **task-specific** settings are:



1. Report BOM Balloons

Select in which [Report Definition](#) ²²² or in which [List Report Definition](#) ²¹⁸ this report is written.

2. Edit Report Definition and Add Report Definition

A new *Report Definition Editor* window opens in which you can *edit* the selected *Edit Report Definition*  or *Add Report Definition* . Alternatively, you can navigate to the *Resources* area in the task list to edit the existing report definition or create a new report definition.

3. Checkboxes

The elements to be included in the report are selected using the checkboxes.

- *Sheet*
- *Index*
- *Position*

9.21.3 Report Combined Views

This task fills a report definition with information about combined views.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts and Assemblies


The **task-specific** settings are:

The screenshot shows the 'Model Filter' dialog box. It has a 'Report to:' field at the top with a dropdown menu showing 'Untitled Report' (callout 1) and a button with an edit icon and a plus sign (callout 2). Below this is a list of checkboxes: 'Name' (checked), 'Orientation', 'Simplified Representation', 'Style State', 'Cross Section', 'Explode State', 'Layer State', 'Annotations Enabled', and 'Supplemental Geometry Enabled' (callout 3). At the bottom is a 'Filter:' field with the text 'Include all combined views' (callout 4) and a button with a search icon and an asterisk in parentheses.

1. Report to

Select in which [Report Definition](#)^[222] or in which [List Report Definition](#)^[218] this report is written.

2. Edit Report Definition and Add Report Definition +

A new *Report Definition Editor* window opens in which you can *edit* the selected *Edit Report Definition*  or *Add Report Definition* +. Alternatively, you can navigate to the *Resources* area in the task list to edit the existing report definition or create a new report definition.

3. Checkboxes

The elements to be included in the report are selected using the checkboxes. Each selected element is displayed in a table column of the report:

- *Name*
- *Orientation*
- *Simplified Representation*
- *Style State*
- *Cross Section*
- *Explode State*
- *Layer State*
- *Annotations Enabled*
- *Supplemental Geometry Enabled*

4. Filter


You can enter filters to exclude certain combined views from the report.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.21.4 Report Definition



This task creates or extends a report to be output, specifying the storage location and name. A report definition can then be described by all other report tasks. One line is used per model, whereas any number of lines per model can be created in the [List Report Definition](#)²¹⁸.


Please note: This task can only be performed in the *Resources* area, see [Glossary](#)²⁸⁸.

Task Settings 

Description: 1

Report Name: 2




File Name: 3  Client (this computer) 

File Format: CSV 4 

Options:

☐ Include file name in report
 ☐ Open report after task list execution 5
☐ Append to existing report

CSV Format-Specific Settings 6

Line Breaks: Windows (CRLF) 
Encoding: UTF-8 
Separator Character: Comma (',') 
Options:

☐ Separate Models by Empty Lines
 ☐ Replace Decimal Dot

1. Description

You can enter a description of the report definition here, e.g. in which cases this report definition is to be used.

2. Report Name

Enter an internal report name that you can select in the Model Processor user interface. The report must be clearly identifiable by its name.

3. File Name

Enter the path with file name to an existing file or to the file to be created. You can use [Variables](#)²⁷² in the name.

- Select the storage location for the report: The report can be saved temporarily on the *Client*. *Server* means that the report is saved directly after execution where Creo is running.

4. File Format

Select the file format:

- CSV

5. Options

- *Include file name in report*
- *Open report after task list execution*
- *Append to existing report*

6. Format-Specific Settings

Depending on the *File Format* (3) selected, various other setting options are available, see [Format-Specific Settings](#) ²²³.

9.21.4.1 Format-Specific Settings

Further settings are available for each format.

CSV-Format-Specific Settings

The report definition can be created as a CSV file. The following settings are available:

CSV Format-specific Settings	
Line Breaks:	Windows (CRLF) ¹
Encoding:	UTF-8 ²
Separator Character:	Comma (',') ³
Options:	<div> ⁴ <input type="checkbox"/> Separate Models by Empty Lines </div> <div> ⁵ <input type="checkbox"/> Replace Decimal Dot </div>

1. Line Breaks

Wählen Sie die gewünschte Codierung des Zeilenumbruchs aus:

- *Windows (CRLF)*
- *Unix (LF)*

2. Encoding

Select the desired character encoding:

- *UTF-8*
- *ISO 8859-1*

The standard settings (Windows, ISO-8859-2) can be used to work in Excel with Windows.

3. Separator Character

Select the separator used in the CSV file:

- Comma (',')
- Semicolon (';')

4. Options

You can activate further options using the checkboxes:

- *Separate Models by Empty Lines*
- *Replace Decimal Dot*: Applies within a cell for numerical values

9.21.5 Report Dependencies

This task fills a report definition with the models on which a model is dependent.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter



This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

1. Report to

Select in which [Report Definition](#)²²² or in which [List Report Definition](#)²¹⁸ this report is written.

2. Edit Report Definition and Add Report Definition

A new *Report Definition Editor* window opens in which you can *edit* the selected *Edit Report Definition*  or *Add Report Definition* . Alternatively, you can navigate to the *Resources* area in the task list to edit the existing report definition or create a new report definition.

3. Options

The elements to be included in the report are selected using the checkboxes. Each selected element is displayed in a table column of the report:

- *Report all dependencies*: The report contains a table column with all files on which the model is dependent.
- *Report all dependency paths*: The report contains a table column with all files on which the model is dependent, including the file paths.
- *Report all dependent paths*: The report contains a table column with all paths containing models on which the model is dependent.
- *Report layouts*: The report contains a table column with all layouts on which the model is dependent.
- *Report missing dependencies*: The report contains a table column with all dependencies not found.

9.21.6 Report Drawing Data



This task fills a report definition with drawing data.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

Report to:  Untitled Report 1  2

Drawing Models 3

☐ Current Drawing Model

☐ Set reported column to "File Name"

☐ All Models

☐ All Models not displayed as a view

Drawing Data 4

☐ Number of Shown Dimensions

☐ Dimension Outside Sheet

☐ Number of Symbols

☐ Used Symbols

☐ Symbol Paths

Drawing Sheets 5


☐ Number of Sheets

☐ By Paper Size

Drawing Views 6

☐ Number of Views

☐ View - Line Display Style

☐ Default 

☐ View Outside Sheet

Drawing Notes 7

☐ Drawing Notes

☐ Drawing Notes Fonts


☐ Excluding Default Fonts

☐ Drawing Notes outside Sheet

1. Report to

Select in which [Report Definition](#)²²² or in which [List Report Definition](#)²¹⁸ this report is written.

2. Edit Report Definition and Add Report Definition +

A new *Report Definition Editor* window opens in which you can *edit* the selected *Report Definition*  or *Add Report Definition* +. Alternatively, you can navigate to the *Resources* area in the task list to edit the existing report definition or create a new report definition.

3. Drawing Models

The elements to be included in the report are selected using the checkboxes. Each selected element is displayed in a table column of the report:

- *Current Drawing Model*
 - *Set reported column to "File Name"*
- *All Models*
- *All Models not displayed as a view*

4. Drawing Data

The elements to be included in the report are selected using the checkboxes. Each selected element is displayed in a table column of the report:

- *Number of Shown Dimensions*
- *Dimension Outside Sheet*
- *Number of Symbols*
- *Used Symbols*
- *Symbol Paths*

5. Drawing Sheets

The elements to be included in the report are selected using the checkboxes. Each selected element is displayed in a table column of the report:

- *Number of Sheets*
 - *By Paper Size*

6. Drawing Views

The elements to be included in the report are selected using the checkboxes. Each selected element is displayed in a table column of the report:

- *Number of Views*
- *View - Line Display Style*
- *Filter*
 - *Default*
 - *Hidden Line*
 - *No Hidden*
 - *Shaded*
 - *Wireframe*

- *Shaded with Edges*
- *View Outside Sheet*

7. Drawing Notes

The elements to be included in the report are selected using the checkboxes. Each selected element is displayed in a table column of the report:

- *Drawing Notes*
- *Drawing Notes Fonts*
 - *Excluding Default Fonts*
- *Drawing Notes outside Sheet*

9.21.7 Report Family Table

This task fills a report definition with information about a family table and its content.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter



This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1. Report to

Select in which [Report Definition](#)²²² or in which [List Report Definition](#)²¹⁸ this report is written.

2. Edit Report Definition and Add Report Definition

A new *Report Definition Editor* window opens in which you can *edit* the selected *Edit Report Definition*  or *Add Report Definition* . Alternatively, you can navigate to the *Resources* area in the task list to edit the existing report definition or create a new report definition.

3. Report Family Table

The checkboxes are used to select the information about the family table that is to be included in the report. Each selected element is displayed in a table column of the report:

- *Number of first-level instances*
- *Total number of instances*
- *Number of locked instances*
- *Number of unregenerated instances*
- *Is recursive*

4. Report Instances


The checkboxes are used to select the information on instances to be included in the report. Each selected element is displayed in a table column of the report:

- *Instance name*
- *Full name*
- *Has sub-family tables*
- *Number of sub-instances*
- *Is ungenerated*
- *Is locked*
- *Report Mode*
 - *Top-Level instances only*
 - *All instances recursively*
- *Limit number of reported instances*

You can enter a number for how many instances are reported. The order in the family table is decisive for the conversion.

9.21.8 Report Features

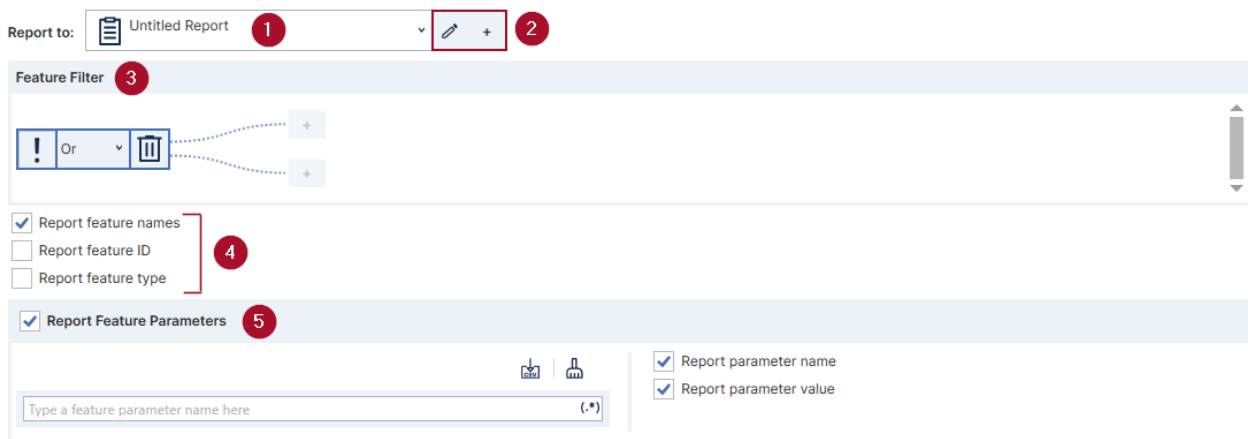
This task fills a report definition with features.

The **cross-task settings** can be found in the chapter [General task settings](#)  35.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:




The screenshot shows the 'Report to:' dropdown menu (1) with 'Untitled Report' selected. Next to it is an edit icon (2). Below this is the 'Feature Filter' section (3) containing an 'Or' filter and a trash icon. Underneath are three checkboxes: 'Report feature names' (checked), 'Report feature ID' (unchecked), and 'Report feature type' (unchecked), grouped by a red bracket (4). Below these is the 'Report Feature Parameters' section (5) with a checked checkbox. To the right of this section are two more checkboxes: 'Report parameter name' (checked) and 'Report parameter value' (checked). At the bottom, there is a text input field for 'Type a feature parameter name here' with a placeholder and a search icon.

1. Report to

Select where this report is to be written. When making your selection, pay attention to the type of report in which the features are to be written:

- **Report in a normal report (e.g., [Report Relations](#)²³⁶):** Parameters are reported by name. Each column is unique. This is useful if you want to report parameters from a feature. Otherwise, each feature will overwrite the previous feature in the table.
- **Report to a list report ([report definition](#)²²² or [listing report](#)²¹⁸):** **All** specified parameters from **all** features are reported together with the feature IDs. You can use this option to create an overview table with all features and feature parameters, for example.

2. Edit Report Definition and Add Report Definition +

A new *Report Definition Editor* window opens in which you can *edit* the selected *Edit Report Definition*  or *Add Report Definition* +. Alternatively, you can navigate to the *Resources* area in the task list to edit the existing report definition or create a new report definition.

3. Feature Filter

Enter one or more features for which this task is applied or not applied. For the structure of the feature filter tree, see [Filter Tree](#)⁴².

4. Options

The elements to be included in the report are selected using the checkboxes. Each selected element is displayed in a table column of the report:

- *Report feature names*
- *Report feature ID*
- *Report feature type*

5. Report Feature Parameters

Select this option if you want to report the corresponding feature parameters in addition to the features.

- *Import list from CSV*
- *Clear List*: All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.
- *Name*: Enter the name of the feature parameters to be reported.
- *Report parameter name*
- *Report Parameter value*

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.21.9 Report File Data

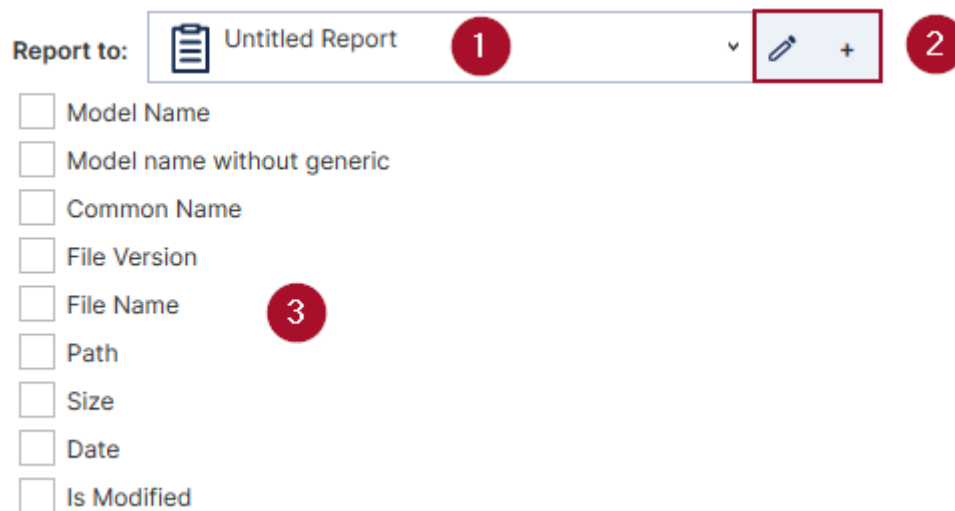
This task fills a report definition with information about the model.




The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:





Report to:  Untitled Report 1   2

- ☐ Model Name
- ☐ Model name without generic
- ☐ Common Name
- ☐ File Version
- ☐ File Name 3
- ☐ Path
- ☐ Size
- ☐ Date
- ☐ Is Modified

1. Report to

Select in which [Report Definition](#)²²² or in which [List Report Definition](#)²¹⁸ this report is written.

2. Edit Report Definition and Add Report Definition

A new *Report Definition Editor* window opens in which you can *edit* the selected *Edit Report Definition*  or *Add Report Definition* . Alternatively, you can navigate to the *Resources* area in the task list to edit the existing report definition or create a new report definition.

3. Data selection

The elements to be included in the report are selected using the checkboxes. Each selected element is displayed in a table column of the report:

- *Model Name*
- *Model name without generic*
- *Common Name*
- *File Version*
- *File Name*
- *Path*
- *Size*
- *Date*
- *Is Modified*

Please note: File size and date can only be read if Creo is not connected to a PDM server.

9.21.10 Report Layers

This task fills a report definition with information about layers.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Report to: 1 Untitled Report 2

☒ Report layer names

☐ Report layer statuses 3


☐ Report number of elements

Options: 4 Report all layers

1. Report to

Select in which [Report Definition](#)²²² or in which [List Report Definition](#)²¹⁸ this report is written.

2. Edit Report Definition and Add Report Definition +

A new *Report Definition Editor* window opens in which you can *edit* the selected *Edit Report Definition*  or *Add Report Definition* +. Alternatively, you can navigate to the *Resources* area in the task list to edit the existing report definition or create a new report definition.

3. Data selection

The elements to be included in the report are selected using the checkboxes. Each selected element is displayed in a table column of the report:

- *Report layer names*
- *Report layer statuses*
- *Report number of elements*

4. Options

Select which layers are to be reported:

- *Report all layers*
- *Report all layers with matching name*
- *Report all non-empty layers*
- *Report non-empty layers with matching name*

9.21.11 Report Materials

This task fills a report definition with information about the materials of a model.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts

The **task-specific** settings are:

Report to: Untitled Report 1 2


☐ Report current material 3

☐ Report all materials

1. Report to

Select in which [Report Definition](#) ²²² or in which [List Report Definition](#) ²¹⁸ this report is written.

2. Edit Report Definition and Add Report Definition +

A new *Report Definition Editor* window opens in which you can *edit* the selected *Edit Report Definition*  or *Add Report Definition* +. Alternatively, you can navigate to the *Resources* area in the task list to edit the existing report definition or create a new report definition.

3. Data selection

The elements to be included in the report are selected using the checkboxes. Each selected element is displayed in a table column of the report:

- *Report current material*

- Report all materials

9.21.12 Report Model Data

This task defines the model data that is written to a specific report.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

Report to: Untitled Report 1 2

Solid 3

- ☐ Accuracy
- ☐ Tolerance
- ☐ Unit System
- ☐ Number of Features
- ☐ Flexible Features
- ☐ First # Feature Types/Names: 7
- ☐ Cross Sections
- ☐ Pattern
- ☐ Generic Name (if model is instance)
- ☐ Simplified Representations
- ☐ Regeneration Feedback

Parts 4

- ☐ Used Density

1. Report to

Select in which [Report Definition](#) ²²² or in which [List Report Definition](#) ²¹⁸ this report is written.

2. Edit Report Definition and Add Report Definition

A new *Report Definition Editor* window opens in which you can *edit* the selected *Edit Report Definition* or *Add Report Definition* . Alternatively, you can navigate to the *Resources* area in the task list to edit the existing report definition or create a new report definition.

3. Solid

The checkboxes are used to select the elements for parts/assemblies that are to be included in the report. Each selected element is displayed in a table column of the report:

- Accuracy
- Tolerance
- Unit System
- Number of Features
- Flexible Features
- First # Feature Types/Names

- Cross Sections
- Pattern
- Generic Name (if model is instance)
- Simplified Representations
- Regeneration Feedback

4. Parts

The checkboxes are used to select the elements for parts to be included in the report. Each selected element is displayed in a table column of the report:

- Used Density

9.21.13 Report Parameter Values

This task fills a report definition with information about parameters.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Report to: Untitled Report 1 2

Parameters to report:

Parameter Name

Please type a parameter name here... 3 (.*)

☒ Report Value

☐ Report Type

☐ Is Designated?

☐ Report Description

☐ Is Related?

☐ Is Restricted?



☐ Report Unit

4

1. Report to

Select in which [Report Definition](#)²²² or in which [List Report Definition](#)²¹⁸ this report is written.

2. Edit Report Definition and Add Report Definition

A new *Report Definition Editor* window opens in which you can *edit* the selected *Edit Report Definition*  or *Add Report Definition* . Alternatively, you can navigate to the *Resources* area in the task list to edit the existing report definition or create a new report definition.

3. Parameter Name

Enter the name of the parameter to be reported.

4. Data selection

The elements to be included in the report are selected using the checkboxes. Each selected element is displayed in a table column of the report:

- *Report Value*
- *Report Type*
- *Is Designated?*
- *Report Description*
- *Is Related?*
- *Is Restricted?*
- *Report Unit*

9.21.14 Report Pro/PROGRAM

This task fills a report definition with information that is read from Pro/PROGRAM.

The **cross-task settings** can be found in the chapter [General task settings](#) ³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

The screenshot shows the 'Report Definition Editor' window. It has a title bar 'Report to: Untitled Report' with a dropdown arrow (1) and a button with a pencil and plus sign (2). Below the title bar is a 'Line Filter' field containing 'Report everything' (3). At the bottom is a 'Report Code Block' section (4) with two input fields: 'Block Start: Beginning of file' and 'Block End: End of file', each with a dropdown arrow.

1. Report to

Select in which [Report Definition](#) ²²² or in which [List Report Definition](#) ²¹⁸ this report is written.

2. Edit Report Definition and Add Report Definition +

A new *Report Definition Editor* window opens in which you can *edit* the selected *Edit Report Definition +* or *Add Report Definition +*. Alternatively, you can navigate to the *Resources* area in the task list to edit the existing report definition or create a new report definition.


3. Line Filter

You can enter filters to exclude certain lines from the report.

4. Report Code Block

If you want to report a code block, you must enter a start line and an end line:

- *Block Start*: Start line
- *Block End*: End line

You can use [Variables](#)^[272]. The icon  opens the RegEx Editor.

9.21.15 Report Relations

This task fills a report definition with information about the relationships of a model.


The **cross-task settings** can be found in the chapter [General task settings](#)^[35].

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



Report to:  

Model Relations:


- ☐ Relations
- ☐ Post-Regen Relations
- ☐ Failure in Relations
- ☐ Failure in Post-Regen Relations

Line Filter: 

1. Report to

Select in which [Report Definition](#)^[222] or in which [List Report Definition](#)^[218] this report is written.

2. Edit Report Definition and Add Report Definition +

A new *Report Definition Editor* window opens in which you can *edit* the selected *Edit Report Definition*  or *Add Report Definition* +. Alternatively, you can navigate to the *Resources* area in the task list to edit the existing report definition or create a new report definition.


3. Model Relations

The elements to be included in the report are selected using the checkboxes. Each selected element is displayed in a table column of the report:

- *Relations*
- *Post-Regen Relations*
- *Failure in Relations*
- *Failure in Post-Regen Relations*

4. Line Filter

The output of *relations* and *relations after regeneration* can be filtered by line. Enter the rows that should not appear in the report. If nothing is specified, all relations are listed in the report.

You can use [Variables](#)^[272]. The icon  opens the RegEx Editor.

9.21.16 Report Universal

This task fills a report definition with filter evaluations. This declares a separate report row.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Report to: 1 Untitled Report 2 3

Column Title: 3 Type a Column Title here

Report Filter: 4 5 ☐ Report Filter

Matching Value: 6 Type a value here

Mismatching Value: 7 Type a value here

1. Report to

Select in which [Report Definition](#)²²² or in which [List Report Definition](#)²¹⁸ this report is written.

2. Edit Report Definition and Add Report Definition

A new *Report Definition Editor* window opens in which you can *edit* the selected *Edit Report Definition* or *Add Report Definition* . Alternatively, you can navigate to the *Resources* area in the task list to edit the existing report definition or create a new report definition.

3. Column Title

Enter a name for the column to give the report a unique name, e.g. "Part/Assembly?"

4. Report Filter – Model Filter

Select the models for which the *Matching Value* (6) is reported, here: Assembly, Part. All other models (here: drawing) are reported with the *Mismatching Value* (7).

5. Report Filter – Enhanced Filter

You can further detail the condition by activating the model filter. If the checkbox is ticked, the tree structure is activated in which you can enter filters, see [Filter Tree](#)⁴².

6. Matching Value

Enter how the applicable models are reported, e.g. "Yes".

7. Mismatching Value

Enter how the non-applicable models are reported, e.g. "No".

The example values entered here have the following result: If the model is a part or an assembly, the value "Yes" is reported under the "Part/Assembly" column; if the model is neither a part nor an assembly, "No" is reported.

9.21.17 Write Report

This task creates a report based on a report definition.

Please note: Diese Aktion kann nur ausgeführt werden, wenn in der [Report Definition](#)²²² eingestellt wurde, dass der Report auf dem Server gespeichert wird. Andernfalls erscheint eine Fehlermeldung:

 **Warning:** The selected report is not a server-side report! Running this task will not produce any output.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings



The **task-specific** settings are:

Report:  Unbenannter Report 1 2

1. Report

Select in which [Report Definition](#)²²² or in which [List Report Definition](#)²¹⁸ this report is written.

2. Edit Report Definition and Add Report Definition

A new *Report Definition Editor* window opens in which you can *edit* the selected *Edit Report Definition*  or *Add Report Definition* . Alternatively, you can navigate to the *Resources* area in the task list to edit the existing report definition or create a new report definition.

9.22 Simplified Representation

This category contains tasks that can be used to edit simplified representations.

9.22.1 Create Simplified Representation

This task adds a simplified representation to the model.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1	Name:	<input type="text" value="Type a name here"/>
2	Type:	<input type="text" value="Reverse"/>

1. Name

Enter the name of the new simplified representation to be created.

2. Type

Select the type of the new simplified representation to be created:

- *Reverse*
- *Include*
- *Exclude*
- *Substitute*
- *Geometric*
- *Graphics*
- *Symbolic*
- *None*

9.22.2 Delete Simplified Representation

This task deletes a specified simplified representation. If you are working with regular expressions or wildcards, you can delete multiple simplified representations.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter



This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1

Names:

2

3

(.*)

1. Names

Enter the name of the simplified representation to be deleted.

You can use [Variables](#)²⁷². The icon (.*) opens the RegEx Editor.

2. Import list of parameters from CSV file

3. Clear List

All entries are deleted, regardless of whether the entries were made manually or imported from a CSV file.

9.22.3 Edit Simplified Representation

This task processes one or more simplified representations.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Assemblies

The **task-specific** settings are:

1

Simplified Representation:


(.*)

2

Set to:

3

Feature Filter



1. Simplified Representation

Enter the name of the simplified representation to be created.

2. Set to

Select the display mode to which all matching elements should be set.

You can choose between the following options:

- *Derived*
- *Exclude*
- *Geometry*
- *Graphics*
- *Include*
- *None*
- *Symbolic*
- *User defined*
- *Default Envelope*

3. Feature Filter

You can find more information about feature filters here [Feature Filter](#)⁵⁰.

9.22.4 Rename Simplified Representation

This task renames a specified simplified representation.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

Names:




1. Import list of parameters from CSV file

2. Clear List

All entries are renamed, regardless of whether the entries were made manually or imported from a CSV file.

3. Simplified Representation Name

Enter the simplified representation to be renamed.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

4. New Name

Enter the new name for the simplified display.

9.22.5 Set Simplified Representation

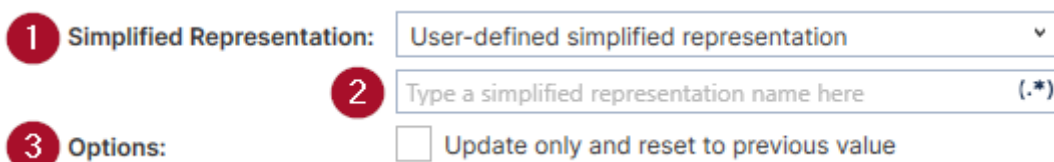
This task adds a simplified representation to the model.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Assemblies

The **task-specific** settings are:



1 Simplified Representation: User-defined simplified representation ▼

2 Type a simplified representation name here (.*)

3 Options: ☐ Update only and reset to previous value

1. Simplified Representation

Select a simplified representation:

- User-defined simplified representation
- Graphics Rep
- Geometric Rep
- Symbolic Rep

2. User-Defined Name

Enter a name for the simplified representation to be set.

You can use [Variables](#)²⁷². The icon (.) opens the RegEx Editor.

3. Options

You have the following additional options, which you can activate via the checkbox:

- Update only and reset to previous value: If activated, the simplified representation will be reset to its previous value immediately after executing this task.

9.23 View

This category contains tasks that can be used to rework views.

9.23.1 Add View

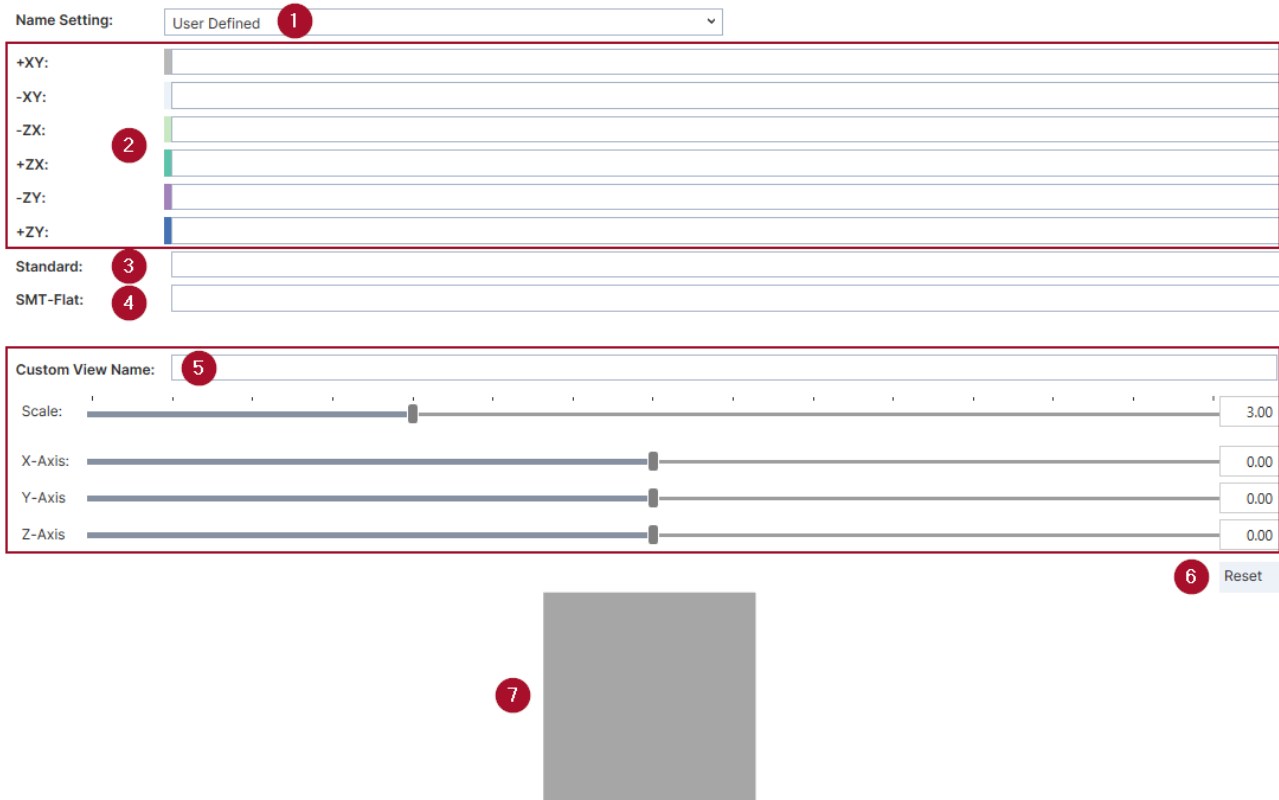
This task adds views to the model. The orientation of the views is defined by the axes. The default view in Creo is a 3D view that is created depending on the configuration options set.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



The screenshot shows the 'Name Setting' dropdown menu (1) set to 'User Defined'. Below it is a table (2) with columns for '+XY:', '-XY:', '-ZX:', '+ZX:', '-ZY:', and '+ZY:'. The 'Standard:' field (3) and 'SMT-Flat:' field (4) are empty. The 'Custom View Name:' field (5) is empty. The 'Scale:' slider is set to 3.00. The 'X-Axis:', 'Y-Axis:', and 'Z-Axis:' sliders are all set to 0.00. A 'Reset' button (6) is located at the bottom right. A large gray square (7) is positioned below the sliders.

1. Name Setting

Selecting a naming scheme will pre-populate the fields under 2.

- English
- German
- International

2. Names of the views with their visible axis names

3. Standard

Specify a name for the Creo default view.

4. SMT-Flat

For unfolded sheet metal only: If you enter a name for a view here, a view of the green side of the unfolded sheet metal part is generated.

5. Custom View Name

Create a new view with rotation around the corresponding axes X, Y, Z. The current values can be read from Creo.

6. Reset

Resets the X-, Y- and Z-axis (2) to the default settings.

7. Preview

Please note: Views cannot be created from named layers.

Example settings

Example values for ISO views

- Front Left Top
X: 45 Y: 35.26 Z: 30
- Front Right Top
X: 45 Y: -35.26 Z: -30
- Back Right Top
X: -45 Y: -144.74 Z: 30
- Back Left Top
X: -45 Y: -144.74 Z: -30

9.23.2 Delete View

This task deletes the specified view. If you use regular expressions or wildcards, you can delete multiple views.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

Name:

1

(.*)

1. Name

Enter the name of the view to be deleted.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

9.23.3 Rename View

This task renames the specified view.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

Name: 1 (.*)

New Name: 2

1. Name

Enter the name of the view to be renamed.

You can use [Variables](#)²⁷². The icon (.*) opens the RegEx Editor.

2. New Name

Enter the new name of the view.

9.23.4 Set View

This task rotates the model to the specified view. A view defined by a given name is set as the current view and fitted into the window.

Please note: A visibly open model is required to perform this task.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

Name: 1 (.*)

☐ Standard view 2

1. Name

Name of the view to be set.

You can use [Variables](#)²⁷². The icon (.*) opens the RegEx Editor.

2. Standard view

By selecting the check box, you can activate the option *Set Creo standard view*.

Frequently used tasks

This task is often used before generating images or PDFs.

9.24 Windchill PDM

This category contains tasks that can be used to rework processes in Windchill.

9.24.1 Add File to Workspace

This task adds a file to the Windchill workspace.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

File:	<input type="text" value="Type a file path here"/>	1
Primary Model:	<input type="text" value="Add as primary content"/>	2

1. File

Enter the file to be added to the workspace or select a file from a folder, e.g. foreign formats created by exports such as STEP files.

2. Primary Model

Enter the model to which the file is attached as secondary content. If no model is defined under *File* (1), the file is added to the workspace as primary content (if possible).

9.24.2 Check In Model

This task checks a model into Windchill.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Path:	<input type="text" value="Keep previous path"/>	1
-------	---	---

1. Path

You can enter a path under which the model is checked in if it has not yet been checked in. If no path is specified, the original path is retained.

9.24.3 Check Out Model



This task checks out a model in Windchill.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Check Out Instances:  

All
None

1. Check Out Instances

Select how the instances of a model are to be checked out:

- *All*: The generic part is checked out with all instances.
- *None*: Only the generic part is checked out.

9.24.4 Clear Workspace

This task clears the workspace in Windchill. All removable models are removed from the workspace. For models to be removed from the workspace, they must no longer be used in the current session.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter

This task can revise the following models: Parts, Assemblies and Drawings

9.24.5 Remove File from Workspace

This task removes a file from the Windchill workspace.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter


This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

File name:  

1. File Name

Enter the name of the file to be removed.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

Please note: Instances must be specified with a generic part (instance < generic part > type). If a generic part is removed, all instances are also removed.

Please note: Files that are currently in session can also be removed.

9.24.6 Set Server Active

This task activates an existing Windchill server in Creo.

The **cross-task settings** can be found in the chapter [General task settings](#)³⁵.

Model filter


This task can revise the following models: Parts, Assemblies and Drawings

The **task-specific** settings are:

Server Name: 1 (.*)

1. Server Name

Enter the name of the server to be set. The server must already exist in Creo.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10 List of all filters

The filter palette groups filter into categories. Click on a filter to go to the sub-chapter in which this filter is described in detail.



Combined View

[Combined View Exists](#) ²⁵¹



Cross Section

[Cross Section Exists](#) ²⁵¹



Drawing

[Current Drawing Model](#) ²⁵²

[Current Sheet Size](#) ²⁵²

[Dimension Text Exists in Drawing](#) ²⁵³

[Format Name](#) ²⁵³

[Formats on Sheets](#) ²⁵³

[Is Multi Model Drawing](#) ²⁵³

[Symbol Exists in Drawing](#) ²⁵³

[Symbol Exists On Drawing](#) ²⁵⁴



Environment

[Creo Version](#) ²⁵⁴

[DTL Option](#) ²⁵⁵

[Environment Variable](#) ²⁵⁵

[File Exists](#) ²⁵⁵

[Model Exists](#) ²⁵⁶



Explode State

[Assembly is Exploded](#) ²⁵⁶

[Explode State Exists](#) ²⁵⁶



Family Table

[Instance Exists](#) ²⁵⁷

[Ungenerated Instance Exists](#) ²⁵⁷

[Solid is Generic](#) ²⁵⁷

[Solid is Instance](#) ²⁵⁷



Group

["Or" Filter Group](#) ²⁵⁸

[Feature Parameter](#) ²⁵⁸



Layer

[Layer has Status](#) ²⁵⁹

[Layer has Items](#) ²⁵⁸

**Layer**[Layer Exists](#) ²⁵⁸[Layer State Exists](#) ²⁵⁹**Material**[Current Material Name](#) ²⁶⁰**Model**[File Name](#) ²⁶¹[File Path](#) ²⁶¹[Unit System](#) ²⁶⁴[Geometric Checks Exists](#) ²⁶¹[Is Insert Mode Active](#) ²⁶¹[Is Insert Mode Active](#) ²⁶¹[Feature Exists](#) ²⁶⁰[Dimension Tolerance](#) ²⁶⁰[Model has Circular References](#) ²⁶²[Model is Embedded](#) ²⁶²[Model is PDM Object](#) ²⁶²[Model is Regeneratable](#) ²⁶³[Model is Modified](#) ²⁶²[Model Subtype](#) ²⁶³[Table on Drawing](#) ²⁶³[Part is Skeleton Model](#) ²⁶³**Model Properties**[Solid has Tolerance](#) ²⁶⁴[Solid Accuracy](#) ²⁶⁴**Parameter**[Double Defined Parameters](#) ²⁶⁵[Material Parameter Value](#) ²⁶⁶[Parameter Type](#) ²⁶⁷[Parameter Value](#) ²⁶⁷[Active Model Parameter Value](#) ²⁶⁵[Parameter Is Designated](#) ²⁶⁶**Relation**[Relation Exists](#) ²⁶⁷**Simplified Representation**[Simplified Representation Exists](#) ²⁶⁸**Style State**[Style State Exists](#) ²⁶⁸

**Utility**[Expression](#) ²⁶⁹[User Variable](#) ²⁶⁹[An Error Occured](#) ²⁶⁹[Linked Filter](#) ²⁷⁰**View**[Current View Name](#) ²⁷⁰[View Exists](#) ²⁷¹

10.1 Combined View

This category combines filters that relate to combined views.

10.1.1 Combined View Exists

This filter checks whether a combined view exists.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#) ⁴⁷.

1. Name

Enter the name of the combined view.

You can use [Variables](#) ²⁷². The icon  opens the RegEx Editor.

10.2 Cross Section

This category combines filters that filter model cross sections.

10.2.1 Cross Section Exists

This filter checks whether the given cross section exists in the current model.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#) ⁴⁷.

1. Cross section

Type and expression that must match an existing cross section in the model.

You can use [Variables](#) ²⁷². The icon  opens the RegEx Editor.

10.3 Drawing

This category combines filters that filter drawings.


10.3.1 Current Drawing Model

This filter checks if the name of the current drawing model matches the given value.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Model name

Enter an expression that must apply to the name of the current drawing model.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

2. Or none

Enable if drawings without an active drawing model are also to be accepted by this filter.

10.3.2 Current Sheet Size

This filter checks if the size of the current drawing sheet is within the specified limits.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Height

Select an operator to use to check the sheet height.

2. Height


Enter a value to compare the height of the current sheet with.

3. Width

Select an operator to use to check the sheet width.

4. Width

Enter a value to compare the width of the current sheet with.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.


10.3.3 Dimension Text Exists in Drawing

This filter checks if a dimension text exists on a drawing.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Dimension Text

Enter a measurement text, regular expression, or part of the dimension text.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.3.4 Format Name

This filter checks if the name of the current drawing format matches the given expression.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Format

Enter a format name that must be set in the current drawing.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.3.5 Formats on Sheets

This filter checks if the sheets of the current drawing have formats.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. One or All

Select if at least one sheet or all sheets of the current drawing must have a format.

10.3.6 Is Multi Model Drawing

This filter checks if the drawing is a multi model drawing.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

10.3.7 Symbol Exists in Drawing

This filter checks if a symbol exists in a drawing. The symbol does not have to be placed.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Symbol

Enter the name of the symbol.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.3.8 Symbol Exists On Drawing

This filter checks if a symbol is placed on the current drawing.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Symbol

Enter the name of the symbol.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.4 Environment

This category combines filters that relate to the Model Processor environment.

10.4.1 Creo Version

This filter checks whether a specific Creo version is currently running.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Creo 9

Enable this configuration to check if the currently running Creo version is major version 9.

2. Creo 10

Enable this configuration to check if the currently running Creo version is major version 10.

3. Creo 11

Enable this configuration to check if the currently running Creo version is major version 11.

4. Creo 12

Enable this configuration to check if the currently running Creo version is major version 12.

10.4.2 DTL Option

This filter checks whether the given DTL option has a specific value in the current model.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. DTL-Optionsname

Enter the name of the DTL config option that is to be checked in the current model.

2. Konfigurationswert

Enter the value that the found DTL option must assign.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.4.3 Environment Variable

This filter checks if the given environment variable exists and has a specific value.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Environment Variable

Enter the name of the environment variable that must exist with the given value.

2. Value

Enter an expression that should be checked inside the found variables.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.4.4 File Exists

This filter checks whether a file with the given name exists on the server (the machine on which Creo is running).

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Path to file

Specify the full path to the file on the server.

2. Browse...

Browse for a file or folder on the hard drive.

10.4.5 Model Exists

This filter checks if a model exists.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#) .

1. Modelname

Enter the model name with the file extension.

2. Check Parameter



Enable to check if the parameter exists.

3. Parameter Name

Enter a parameter name.

4. Parameter Value

Enter a parameter value.

You can use [Variables](#) . The icon  opens the RegEx Editor.

10.5 Explode State

This category combines filters that filter explode state parameters and settings.


10.5.1 Assembly is Exploded

This filter checks if the current model is an exploded assembly.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#) .

10.5.2 Explode State Exists

This filter checks whether an exploded view exists.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#) .

1. Name

Enter the name of the exploded state, which must exist in the current assembly.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.6 Family Table

This category combines filters that refer to family tables.


10.6.1 Instance Exists

This filter checks whether a variant (instance) exists.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Name

Enter the name of the instance.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.6.2 Solid is Generic

This filter checks whether a part or assembly is a generic model.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

10.6.3 Solid is Instance

This filter checks whether a part or assembly is an instance.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

10.6.4 Ungenerated Instance Exists

This filter checks whether the current part or assembly is a generic model with at least one instance that has not been regenerated.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Recurse through sub-family tables

Enable to check all sub-family tables for unregenerated instances recursively.

10.7 Group

Group node that creates further filter nodes in groups with an "Or" or "And" link.

The link specifies how the conditions of the individual filter nodes interact with each other to produce a true result.

And link All conditions must be true for the result of the filter node to be true.

Or link At least one condition must be true for the result of the filter node to be true.

10.7.1 "And" Filter Group

If all conditions are true, the filter node returns a true result, see [Filter Tree](#)⁴².

10.7.2 "Or" Filter Group

If at least one condition is true, the filter node returns a true result [Filter Tree](#)⁴².

10.8 Layer

This category combines filters that filter layers.

10.8.1 Layer Exists

This filter checks whether a layer exists in the model.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Layer

Enter the name of the layer that exists in the current model. Multiple slide names can be specified using a regular expression.

10.8.2 Layer has Items

This filter checks whether the layer contains elements.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Layer

Enter the name of the layer whose number of elements is to be checked.

2. Operator

The comparison operator for the number of layer elements.

3. Elements

Specify the number of elements to be checked using the specified operator in the layers found.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.8.3 Layer has Status

This filter checks whether a layer with status exists in the model.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Layer

Enter the name of the layer to be checked.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

2. Status

Status Select a status that the found slides must have.

- *Hide*
- *Isolate*
- *Show*
- *Hidden Layer (Assembly Only)*

10.8.4 Layer State Exists

This filter checks whether a layer status with the specified name exists in the current model.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Layer state

Enter the name of the layer status that must exist in the model for this filter to return True.

10.9 Material

This category combines filters that filter materials.


10.9.1 Current Material Name

This filter checks whether a material is present in the model.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Material Name

Enter a material name that should be matched with the current material name.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

2. Accept parts without active material

If enabled, this filter also returns true if no active material has been set.

10.10 Model

This category combines filters that refer to models.

10.10.1 Dimension Tolerance

This filter checks if the model has a specified dimension tolerance type.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Model contains asymmetric tolerance

When enabled, this configuration checks whether a model has a dimension with a certain tolerance.

10.10.2 Feature Exists

This filter checks if the current model has at least one feature that matches the given feature filter.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Edit Feature Filter

Edit the feature filter in the feature filter editor.


10.10.3 File Name

This filter checks if the current model's file name matches the given expression.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Name

Enter a name to compare against the file name of the current model.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.


10.10.4 File Path

This filter checks whether the file of the currently open model is located in the specified folder.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Path

Enter the file path where the current model must be located.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.10.5 Geometric Checks Exists

This filter checks if the current model has geometric checks.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

10.10.6 Is Insert Mode Active

This filter checks if the insert mode is active in the current solid.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

10.10.7 Model has Circular References

This filter checks if the current model has circular references.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

10.10.8 Model is Embedded

This filter checks whether the current model is an embedded component.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

10.10.9 Model is Modified

This filter checks whether the current model has any unsaved changes.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

10.10.10 Model is PDM Object

This filter checks the location where a model is retrieved from.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Never saved

Activate for a model that has been newly created but never saved.

2. From Harddrive

Activate for a model that has been loaded from the hard drive.

3. From Workspace

Activate for a model that has been loaded from a Windchill Workspace.

4. From Commonsplace (Checked in)

Activate for a model that has been loaded from Windchill Commonsplace and is not checked out.

5. From Commonsplace (Checked out)

Activate for a model that has been loaded from Windchill Commonsplace and is checked out.

10.10.11 Model is Regeneratable

This filter checks if the model is regeneratable.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Force Reneration

Activate to ignore the regeneration state and regenerate each feature regardless of the regeneration state reported by Creo.

10.10.12 Model Subtype

This filter checks if the current model has the given subtype.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Subtype

Select the subtype that the current model must have.

10.10.13 Part is Skeleton Model

This filter checks if the current part is a skeleton.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

10.10.14 Table on Drawing

This filter checks if the specified table is on the drawing.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Sheet

Enter the sheet number.

2. Position

Enter the position.

3. Cell

Enter the column and row.

10.10.15 Unit System

This filter checks if the current unit system matches.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Unit system

Select a unit system.

10.11 Model Properties

This category combines filters that have model properties.

10.11.1 Solid Accuracy

This filter checks, if the current solid's accuracy matches the given expression.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Accuracy Kind

Select whether the accuracy is measured in absolute or relative terms.

2. Comparison Operator

Select the comparison operator to use when comparing the solid accuracy to the given accuracy.

3. Accuracy

Type an accuracy here to compare the solid accuracy using the given operator.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.11.2 Solid has Tolerance

This filter matches if the current model is a solid and has the given tolerance set.

Define the general settings for enhanced filters: negation, filter name, and filter

description. See [General filter settings](#)⁴⁷.

1. Tolerance Version

Select a tolerance version that the current part or assembly must have.

2. Tolerance Class

The ISO tolerance class that the current part or assembly must have.

10.12 Parameter


This category combines filters that refer to parameters.

10.12.1 Active Model Parameter Value

This filter checks whether the active model of the current drawing contains a parameter whose value matches the given expression.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Parameter Name

Enter the parameter name that is to be compared. You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

2. Operator

Select an operator to evaluate the parameter value.

3. Parameter Value

Enter a value that matches the value of the parameter value output.

4. Floating-Point Precision

Enter a value to specify the floating-point precision.

10.12.2 Double Defined Parameters

This filter checks whether the current model contains double defined parameters.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

10.12.3 Material Parameter Value

This filter checks whether the active material contains a parameter whose value matches the given expression.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Parameter Name

Enter the parameter name that is to be compared.

2. Operator

Select an operator to evaluate the parameter value.

3. Parameter Value

Enter a value that matches the value of the parameter value output.

4. Floating-Point Precision

Enter a value to specify the floating-point precision.


You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.12.4 Parameter exists

This filter checks whether the current model contains a specified parameter.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Parameter Name


Enter the parameter(s) to be checked. You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.12.5 Parameter Is Designated

This filter checks whether specified parameters have been designated.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Parameter Name

Enter the parameter(s) to be checked. You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.12.6 Parameter Type

This filter checks whether the specified parameters have a specific type.


Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Parameter Name

Enter the parameter name to be compared.

2. Type

Select a type with which the parameter types found are to be compared.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.12.7 Parameter Value

This filter checks whether a given parameter has a value that matches a given expression.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Parameter Name

Enter the parameter name that is to be compared.

2. Operator

Select an operator to evaluate the parameter value.

3. Parameter Value

Enter a value that matches the value of the parameter value output.

4. Floating-Point Precision

Enter a value to specify the floating-point precision.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.13 Relation

This category combines filters that relate to relationships.

10.13.1 Relation Exists

This filter checks if the current solid has a relation or post-regen relation that matches the given value.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Search in

Select the type of relation:

- *Relation*
- *Post-Regen Relation*
- *Relation or Post-Regen Relation*

2. Relation

Enter the relation whose existence is to be checked. You can enter text (z. B. `d51 = PARAMNAME`) or use regular expressions (e.g. `d(51|52) = PARAMNAME`).

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.14 Simplified Representation

This category combines filters that filter simplified representations.

10.14.1 Simplified Representation Exists

This filter checks whether a simplified representation exists.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Name

Enter the name of the simplified representation.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.15 Style State

This category combines filters that filter style states.

10.15.1 Style State Exists

The filter checks if a style exists whose name matches the given expression.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Name

Enter the name of the style.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.16 Utility

This category combines filters that provide enhanced functions for filters.

10.16.1 An Error Occured

This filter checks if an error has occurred in the previous execution of the current task list.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

10.16.2 Expression

This filter checks if a given expression is evaluated and matches a given string.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Expression

Enter an expression, which may also contain variables or string substitutions. The expression entered is evaluated and compared with the given string or regex.

2. Operator

Select an operator to be used for the comparison.

3. Value

Enter a value to compare the given expression. If no numeric comparison operator is selected, a regular expression can also be used.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

4. Epsilon Range

Enter a value to compare the floating-point numbers inside the given epsilon range.

10.16.3 User Variable

This filter checks if the given user variable exists and has a specific value.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. Variable

Enter the name of the variable. You should enter the variable name in an expression in this form: "%user:XYZ%".

2. Value

Enter an expression that must match the value of the user variable found. With this regular expression `.*`, this filter can check whether a given user variable exists with any value.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.16.4 Linked Filter

This filter checks if an existing saved filter is evaluated and the result is returned.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.



1. Saved Filters

Select a saved filter from the current MPX project and assign it to this task.

10.17 View

This category combines filters that relate to views.

10.17.1 Current View Name

This filter checks if the view name matches the model's view.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. View

Enter the name of the current view.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

10.17.2 View Exists

This filter checks if a view with the given name exists inside the current model or not.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁴⁷.

1. View

Enter the name of the current view.

You can use [Variables](#)²⁷². The icon  opens the RegEx Editor.

11 Variables / RegEx

This chapter contains alphabetical lists of expressions you can use to make it easier for you to work with Model Processor. The subchapters are arranged according to the type of expression.

11.1 Variables

The use of variables allows values to be automatically adjusted in many Model Processor tasks. Values with entered variables automatically adapt to the prevailing environment.

The variable entries can be clicked on and then automatically write the variable values into the text field provided.

Please use logical decision criteria to assess whether a variable can be used. Please use logical decision criteria to assess whether a variable can be used. (When checking parameters, @project_dir@ is not useful, for example.) Unsupported variables are retained at the end.

String-Operations

Please note: An outer RegEx cannot contain string operations inside it.

String-Operations work on any strings and are initiated with the double dollar sign \$\$. The following string operations are available in the Model Processor:

Operation	Description
\$\$post\$N\$\$	Returns the last N characters of the given string, e.g.: \$\$post\$6\$Hello World!\$\$ Result: World!
\$\$poste\$N\$\$	Deletes the first N characters of the given string and returns the result, e.g.: \$\$poste\$4\$Hello World!\$\$ Result: orld!

Operation	Description
\$\$posts\$A\$\$	<p>Returns the last characters of the given string starting from the first occurrence of string A, e.g.:</p> <p>\$\$posts\$W\$Hello World!\$\$</p> <p>Result: orld!</p>
\$\$pre\$N\$\$	<p>Returns the first N characters of the given string, e.g.:</p> <p>\$\$pre\$5\$Hello World!\$\$</p> <p>Result: Hello</p>
\$\$pree\$N\$\$	<p>Deletes the last N characters of the given string and returns the result, e.g.:</p> <p>\$\$pree\$4\$Hello World!\$\$</p> <p>Result: Hello W</p>
\$\$pres\$A\$\$	<p>Returns the first characters of the given string up to the last occurrence of string A, e.g.:</p> <p>\$\$pres\$o\$Hello World!\$\$</p> <p>Result: Hell</p>
\$\$repl\$A\$B\$\$	<p>Replaces all occurrences of A in the given string with B and returns the result. Regular expressions can be used in A with /.../.</p> <p>If a \$ is to be used in A or B, it must be marked with a ! following it. Examples:</p> <ul style="list-style-type: none"> – \$\$repl\$.-\$-@\$para@\$ – Replace spaces in values with underscores: <p>\$\$repl\$/^\s\$/\$_\$with the\$\$</p> <ul style="list-style-type: none"> – \$\$repl\$e\$o\$Hello World!\$\$ <p>Result: Hollo World!</p>

Operation	Description
\$\$sub\$A\$B\$\$s\$\$\$	Returns the sub-string from character A to character B-1 of the given string. The first character has the index 0, e.g.: <code>\$\$sub\$1\$9\$Hello World!\$\$</code> Result: ello Worl

Parameters, user variables, system variables

Parameters, user variables, system variables, etc. are queried using the percent sign %. There are different sources for values that can be queried, as well as different operations for processing data. Only one source should be specified per expression; otherwise, the source furthest to the right in the expression will be used. Operations can generally be combined in any order and are executed in the specified sequence. Individual sub-expressions are separated by a colon.

Please note: The percent sign "%" can be escaped with two percent signs: "%%". These are replaced with a single percent sign during substitution. Since Creo parameters never start with a number, percent signs that appear directly before a digit are also replaced with a single percent sign. This is useful, for example, in percent-encoded URLs.

Source	Description
<code>``</code> (no source)	Parameters of the current model or drawing
conf	Currently set value of a Creo Config option
curmat	Parameters of the current material of the current model
curmod	Parameters of the currently active drawing model of the current drawing
env	Value of an environment variable of the current Creo process, e.g. §§ (paragraph symbols)
user	Value of a user variable

Operation	Description
dubase	Converts a given number to exponential e-notation with 6 decimal places
length	The length (number of characters)
nozero	Removes leading zeros from a number
tolower	Converts the given text to lowercase
toupper	Converts the given text to uppercase

Environment Variables

Text Operation	Description
\$env-var\$	Output of an environment variable of the model processor/from Windows, e.g. \$COMPUTERNAME\$, \$HOME\$, \$HOMEDRIVE\$, \$LOGONSERVER\$, \$USERDOMAIN\$, \$USERNAME\$. Two \$ signs "\$\$" are supported.

Creo Variables

Please note: An @ sign can be escaped with two @ signs: "@@". These are replaced with a single @ sign during substitution, e.g. escape @mdl@ with "@@mdl@".

Text-Operation	Description
@workerdir:XX@	The current Windchill Worker Directory in a subfolder under XX

– Combined views

Text-Operation	Description
@combview@ / @combstate@	Output of the name of the currently set combined view, e.g. <i>F01_Master</i>
@explodestate@ / @explodedstate@	Output of the name of the explode state in the currently set combined view, e.g. <i>AssyInstrctns</i>

Text-Operation	Description
@layerstate@	Output of the name of the layer state in the currently set combined view, e.g. <i>Work_State</i>
@orientation@ / @view@	Output of the name of the orientation in the currently set combined view, e.g. <i>Front</i>
@simplprep@	Output of the name of the simplified representation in the currently set combined view, e.g. <i>Detailed_Medium</i>
@stylestate@ / @displaystyle@	Output of the name of the style or display style in the currently set combined view, e.g. <i>CustomStyle</i>
@xsec@	Name of the cross section of the currently set combined view, e.g. <i>CUR_XSEC</i> or ""

– Model informations

Text Operation	Description
@body@	Output of the name of the standard body, e. g. <i>ratchet</i> .
@common@	Output of the usual name of the current model, e.g. <i>steam engine</i>
@curworkdir@ / @workdir@ / @cwd@	Output of the current work directory, e.g. <i>C:\temp</i>
@feat@	Output of the name of the current feature (only in "Rename Feature" and "Add Feature Parameter")
@filename@	Output of the file name of the current model, e.g. <i>Steamengine.asm</i>
@fileversion@	Output of the current version of the file preceded by '.' (number after the file extension), e.g. <i>test.prt.2</i>
@fullmdl@	Output of the complete name of the current model, e.g. <i>SCREW_M6<SCREW></i>

Text Operation	Description
@gennam@	Output of the generic name of the current instance. If the model currently being edited is not an instance, the output is '-', e.g. <i>SCREW</i>
@line@	Output of the value of the current parameter (only in "Edit Relations")
@mdl@	Output of the current model name, e.g. <i>STEAMENGINE</i>
@mdlno@	Output the current version of the file WITHOUT the preceding '.' (number after the file extension), e.g. <i>test.prt2</i>
@mdlpath@ / @filepath@	Output of the current directory of the current model, e.g. C:\
@mdlpathr@	Output of the complete POSIX folder of the current model, e.g. C:\
@mdltype@	Output of the current model type (file extension), e.g. <i>asm</i>
@number@	Output of a continuously increasing number. This number is increased each time "@number@" is called. No distinction is made between tasks; therefore, the number is also increased when "@number@" is used in different task.
@origin@	Output of the complete file path of the current model, e.g. C:\Dampfmaschine.asm.2
@para@	Output of the value of the current parameter (only in "Edit Model Parameters")
@selmdl@	Output of the model name of the first selected model in an assembly
@selmdlpath@	Output of the directory of the first selected model in an assembly

– Solids

Text Operation	Description
@regen_status@	Output of the current regeneration status: – PRO_SOLID_CONNECT_FAILED – PRO_SOLID_FAILED_REGENERATION – PRO_SOLID_NEEDS_REGENERATION – PRO_SOLID_REGENERATED

– Drawings

Text Operation	Description
@curdrwmdl@	Output of the model name of the current drawing model, e.g. <i>STEAMENGINE</i> . If the model currently being edited is not a drawing, the output is '-'.
@curdrwmdltype@	Output of the model type of the current drawing model, e.g. <i>asm</i> . If the model currently being edited is not a drawing, the output is '-'.
@cursheetcurmdlsc ale@	Output of the model scaling of the current model relative to the current sheet, e.g. output: 0.5 for 1:2. If the model currently being edited is not a drawing, the output is '-'.
@cursheetcurmdlsc aleISO@	Output of the model scaling of the current model relative to the current sheet in ISO-compliant notation, e.g. output: 1:2 for 1:2. Denominators of the ISO standard: 2, 3, 5, 10. If the model currently being edited is not a drawing, the output is '-'.
@cursheetformat@ / @curpageformat @	Output of the format name based on the current sheet. If the model currently being edited is not a drawing, or if the current sheet does not have an assigned format frame, the output is '-'.
@cursheetname@ / @curpagename@	Output of the sheet name based on the current sheet, e.g. <i>COVERSHEET</i> . If the model currently being edited is not a drawing, or if the current sheet has no name, the output is '-'.

Text Operation	Description
@cursheetsize@ / @curpagesize@	Output of the sheet size of the current sheet, e.g. <i>A0, A1, A2, A3, A4, A, B, C, D, E, F, var: x:y, empty</i> . If the model currently being edited is not a drawing, the output is '-'.
@maxsheet@ / @maxpage@	Output of the total number of pages. If the model currently being edited is not a drawing, the output is '-'.
@sheetno@ / @pageno@	Output of the current page. If the model currently being edited is not a drawing, the output is '-'.

– Folder variables

Text Operation	Description
@default_layer_model@	Will be replaced by the contents of the default_layer_model configuration option.
@pro_material_dir@	Will be replaced by the contents of the pro_material_dir configuration option, e.g. @pro_material_dir@stahl_c35.mtl
@project_dir@	Is always replaced by the directory in which the corresponding data is located within the Model Processor project (mpx), e.g. project_dir@steell_c35.mtl equals materials\steel_c35.mtl in the Model Processor project.

– Time and date variables

Text Operation	Description
@date@	Output of the current date in <i>yyyy-mm-dd</i> format (ISO 8601), e.g. 2025-07-06.
@datede@	Output of the current date in US English format <i>dd.mm.yyyy</i> , e.g. 13.02.2025.
@dateen@	Output of the current date in British format <i>dd-mm-yyyy</i> , e.g. 13-02-2025.

Text Operation	Description
@dateus@	Output of the current date in US formatting <i>mm-dd-yyyy</i> , e.g. 02-13-2025.
@dateusshort@	Output of the current date in US formatting, short notation <i>mm-dd-yy</i> , e.g. 02-13-25.
@fulldate@ / @datetime@	Output of the current date and time in a local textually informative readable format, e.g. Sun Jul 6 14:01:31 2025 or Cp. 28 дек. 2011 10:21:16
@time@	Output of the current time in a format that can also be used for file names, short format <i>HH-MM</i> (0-23)-(0-59), e.g. 14-15
@time_with_seconds@	Output of the current time in a notation that can also be used for file names, short notation <i>HH-MM-SS</i> (0-23):(0-59):(0-59), e.g. 14-15-59.
@time12@ / @timeen@	Output of the current time in 12-hour format <i>hh:mm</i> p.m., e.g. 03:24 PM
@time24@ / @timede@	Output of the current time in 24-hour format <i>hh:mm</i> , e.g. 15:24
@timede@	Output of the current time in US English format, short notation <i>HH:MM</i> (0-23):(0-59), e.g. 14:15.
@timeen@	Output of the current time US formatting, short notation <i>HH:MM</i> (1-12):(0-59) AM/PM, e.g. 02:15 AM.
@xsec@	Name of the cross section of the currently set combined view, e.g. "CUR_XSEC" or ""

PTC Windchill variables

Text Operation	Description
@oid@	Returns the current OID of the model currently being edited, provided that there is a connection to PTC Windchill and the model has a corresponding representation in PTC Windchill. This variable is primarily required for ODATA REST API requests, e.g. @oid@ or wt.epm.EPMDocument:6431854.
@workdir:<PATH> @	When triggered in conjunction with PTC Creo View Adapter, this task can be used to determine the transfer folder in the pubtemp/transfer directory. This variable is primarily required for GENIUS TOOLS Model Processor Worker Extension processing, e.g. @workdir:D:\pubtemp\@.

Model Processor: internal variables

Text Operation	Description
@errorcount@	Number of errors logged in the previous execution of Model Processor, e.g. 2.
@logfile@	Current log file written by Model Processor, e.g. %AppData%\INNEO\GENIUS TOOLS\ModelProcessorServer\X\var\log\ModelProcessor.0.log
@temp@	Output the full path to a temporary directory that will be deleted after the task list has been fully executed, e.g. %Temp%\abcde

Parameter operations

Text Operation	Description
%curmat:PARAM%	<p>Output of the value of a parameter from the current material of a part. The replacement of PARAM may vary.</p> <p>For parts without a current material or without the material parameter, the notation fails. To catch these cases, the enhanced filter Material Parameter Value²⁶⁶ can be used, e.g. %curmat:SELECT_EN_NAME%.</p>
%curmod:PARAM%	<p>Output of the value of a parameter from the current model of a drawing into a drawing. The replacement of PARAM may vary.</p> <p>This notation does not make sense outside of drawings, e.g. %curmod:DRAWINGNUMBER%.</p>
%DubAsE:PARAM%	<p>Output of a double value in e^ notation instead of the normal output rounded to 6 decimal places. This can also be used in combination with curmod and curmat. The order %curmat:dubase:PARAMETER% must be followed in this case, e.g. %dubase:DOUBLE_PARAMETER%.</p>
%length:PARAM%	<p>Outputs the length of the value of a parameter from the current model. This can also be used in combination with user, curmod, and curmat. In this case, the order %curmat:dubase:PARAMETER% must be observed, e.g. %length:NAME%.</p>
%NoZero:PARAM%	<p>Output of a double value without trailing zeros. This can also be used in combination with user, curmod, and curmat. In this case, the order %curmat:nozero:PARAMETER% must be followed, e.g. %nozero:DOUBLE_PARAMETER%.</p>
%PARAM%	<p>Output of the value of another parameter. The input between the % signs may vary, e.g. %NAME%.</p>

Text Operation	Description
%tolower:PARAM%	Output the value of a parameter in lowercase. This can also be used in combination with 'user', e.g. %tolower:STRING_PARAMETER%.
%toupper:PARAM%	Output the value of a parameter in uppercase. This can also be used in combination with user, e.g. %toupper:STRING_PARAMETER%.
%user:PARAM%	Output of the value of a user variable. The replacement of PARAM may vary.
%conf:PARAM%	Output of the value of a Creo configuration option. The replacement of PARAM may vary.

11.2 RegEx

Regular expressions (RegEx) can be used in a variety of ways in the Model Processor, particularly for text processing, filtering, and replacement. This chapter provides an overview of the most important functions, special features, and rules for using RegEx in the context of the Model Processor.

RegEx detection und Wildcards

The Model Processor automatically distinguishes between regular expressions, wildcards and plain text:

- **Blue background:** The expression is interpreted as a RegEx.
- **No blue background:** If the text contains a *, it is recognized as a wildcard. Otherwise, it is treated as plain text.

Please note: Where no RegEx is recognized, no wildcard processing is performed.

RegEx-Engine: RE2

Regular expression processing is based on Google's RE2 library. This library supports most of the well-known PCRE (Perl Compatible Regular Expressions) syntax. A complete list of supported functions can be found in the official RE2 documentation, it also serves as a reference for all RegEx functions in the Model Processor.

Special behaviors

1. Negation

Negations are supported in the Model Processor exclusively via a global flag. This is done by prepending (?!) to the regular expression:

(?!) abc

2. Capture Groups & Replacements

Capture groups can be used with the "Find and Replace" mechanism, for example, with the `$$repl` function. The following applies:

Groups are automatically numbered from left to right:

- \0: entire match
- \1, \2, ...: first, second, ... Capture Group

Example:

`$$repl$/ (\\w+) \\s (\\w+) ! ! / $ \\2 \\1 ! $Hello World! $ $`

Result: World Hello!

3. Case sensitivity

By default, case is ignored, as in PCRE with the (?!i) flag.

To enforce case-sensitive matches, set the non-standard flag (?!I) (with an uppercase I) instead.

4. Partial Match instead Full Match

The Model Processor always performs partial matches, the expression only needs to match part of the string, not the entire one.

Example:

ana

also matches "ananas".

To force a full match, you must delimit the expression with ^ and \$:

^ana\$

only matches "ana" exactly.

5. Greedy Matching & Replacement Logic

Regular expression replacements behave greedily: The Model Processor always chooses the leftmost occurrence of the pattern that encompasses as many elements as possible.

Example:

ana in ananas is replaced by xxx.

Result: xxxnas

Summary

Function	Behavior
Capture Groups	\1, \2, \0 etc.
Case Insensitive	Default behavior (like (?i))
Case Sensitive	Force with (?I)
Match Behavior	Always Partial, no Full Match without ^...\$
Negation	Only with (?!) ... at the beginning
RegEx detection	Input highlighted in blue
Replacement	Greedy, prioritizes leftmost position
Wildcard detection	Only with * in the text

Please note: If you encounter unexpected behavior when using RegEx, please first check:

- whether the expression was correctly recognized as a RegEx (highlighted in blue),
- whether case sensitivity is important,
- whether you need a full match.

12 Glossary

New functions added to GENIUS TOOLS Model Processor are marked with *NEW*.

AND linkage

Linkage that requires that all *Filter conditions* must be true for the result of the filter node to be "true."

Anonymous filter

Enhanced filter that is defined within a task and cannot be used for other tasks.

Batch list (batch file list)

List of files that are processed in batch mode using the selected task list in Creo Parametric. Each file in this list is processed once.

Batch mode

Mode of processing that revises a multitude of files when executing an task list.

Batch rule

Specification for the processing of *batch list* that determines which models are processed – either by *Exclude* or *Include rules*.

Body

Area of a *task list* containing the tasks to be executed during model revision.

Creo variable

Can be used in the @VAR@ format wherever text input is possible. View the list of all variables [here](#) ²⁷².

Enhanced filter

Filter that specifies the conditions under which a task is executed. Enhanced filters are divided into *Anonymous* and *Stored filters*.

Environment variable

Variable %user:var%. Can be used in all text input fields.

Exclude Rule

Batch rule that defines files which are to be excluded from previous results, e.g., all files that do not have the file extension *.asm*. Since exclude rules are applied on files that have been specified, they cannot be the first rule in a list.

Feature filter *NEW*

Special type of filter that determines the features to be processed. Can apply to a feature task or can define a feature filter node in an *Enhanced filter*.

Filter

Specifies the model types and conditions for which an task is executed. There are *Model filters* and *Enhanced filters*. Filters are evaluated before a task is executed.

Filter tree *NEW*

Tree structure in which enhanced filters are defined by creating *Filter nodes* and operators (*AND/OR linkage*).

Filter condition

Specifications that must be met for a filter to return "true."

Filter group

Multiple filter nodes created under a *Group node* that must be met together (AND linkage) or individually (OR linkage).

Filter node *NEW*

One or more conditions that define an *Enhanced filter*. Classified by category in the filter palette.

Foot

Area of a *Task list* containing the tasks to be executed after model revision, e.g., report tasks.

Global filter

Model filter that applies to all tasks of a *Task list*. Created in the *Body* area.

Group mode

Defines how the task in an *Task group* are executed, e.g., whether a new drawing should be created.

Head

Area of a *Task list* containing the tasks that are executed before the model revision.

Include Rule

Type of batch rule that specifies that all files matching a specific rule are processed, e.g., all files that start with A.

Model filter

Filter that determines the model type (part, assembly, drawing) to which a task is performed.

MPX file *NEW*

File format in which a project is saved in the new Model Processor.

MPZ file

File format in which a Model Processor project is saved in Model Processor Classic.

Negated filter

Filter node that returns "true" if the filter condition does not apply. Negated filters are colored purple.

OR linkage

Linkage that requires that at least one *Filter condition* must be true for the result of the filter node to be "true."

Project

Compilation of metadata, task lists, filters, and batch rules that are stored in an MPX file.

Regular expressions (RegEx)

Character strings for simplified description of commands that can be used in settings where the RegEx editor symbol (•*) is located to the right of the input mask.

Report

Task from the Report category that creates a report definition and is stored under *Resources*.

Resources *NEW*

Global definitions that apply across the Head, Body, and Foot sections. Resources are not tasks.

Stored filter

Enhanced filter that can be applied to multiple tasks and is saved in the *Enhanced filter* menu item.

Task

One or several action(s) that is (are) applied to a model.

Task group

Collection of tasks to which a group mode and group filter can be assigned.

Task lists

Totality of tasks that rework defined models in sequence. Each task list has the sections *Head*, *Body*, *Foot*, and *NEW: Resources*.

Universal report

Created based on a filter. The content of the universal report depends on if the filter returns *true* or *false*.

User variable

Variable %user:var%. Can be used in all text input fields.

XML file

Output format for task lists and filters.

13 Copyright

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