

GENIUS TOOLS Model Processor

13.0.0.0

Manual

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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](#)⁴⁷.

By defining filters, you can control which models and which specifications each task is performed on, see chapter [Introducing filters](#)⁶².

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](#)³⁸⁰.

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
administrato
rs, system
administrato
rs

Rework

CAD/PDM
administrator
s, system
administrator
s

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

2 Usage

The goal of GENIUS TOOLS Model Processor is to automate recurring tasks when overhauling models. A task is a function that is performed on the models you specify. More than 130 actions are available to you. By defining filters, you can control which models each action is performed on.

Each step you want to automate is defined by a task. Tasks are grouped into task lists and processed in the order specified there. Task lists can be easily created using the intuitive user interface of GENIUS TOOLS Model Processor. However, it usually takes more time to figure out how the relevant actions should be arranged most effectively in a task list, which filters and variables should be applied or when it makes sense to change the group mode. In order to create effective task lists, several questions should be clarified at the beginning of the revision process.

The following chapter highlights these questions and illustrates them using example use cases. In the chapter “Examples and Tutorials for These Use Cases” describes the specific procedure for creating the task lists.

When working with GENIUS TOOLS Model Processor, it has proven helpful to first clarify the following questions:

- What is the goal of the data rework? Read the [next chapter](#)^[15].
- Which parts are to be analyzed or overhauled, and by whom? This is described in the chapter [Types of data rework](#)^[17].

To make it easier to use GENIUS TOOLS Model Processor, we also recommend looking at the included MPX files: the tutorial *training_1_-_first_steps.mpx* and the example task lists in the file *mpuser_example_int.mpx*. See chapter [Example and tutorials](#)^[80] for more information.

2.1 Purposes of data rework

When using GENIUS TOOLS Model Processor, the first step should be to clarify the purpose of reworking data: The most important questions are:

- What information from the models is needed?
- Should the models be analyzed or also modified?
- Should data be saved in the model, or are changes needed only temporarily, e.g. for data export?

The use cases that can be solved with GENIUS TOOLS Model Processor can be summarized into three categories:

Reporting

To analyze existing models, information is extracted and written to a report. No changes are made to models, see chapter [Reworking models](#)³¹.

Objectives:

- Qualitative or quantitative information about model settings in existing data
- Preparation of documents for further data processing

Use Cases:

- Basis for any revision of model data
- Prerequisite for estimating the effort required for PDM implementations
- Prerequisite for assessment of proposed CAD work guidelines

Reworking model data

When overhauling models, changes are made to models and saved, see chapter [Reworking models](#)³¹.

Objectives:

- Improving model data quality
- Compliance with work guidelines

Use Cases:

- One-time rework of legacy data
- Bringing model data up to company standards
- Continuous updating of model data

Temporary data changes

New or modified data is not saved in the models, see chapter [Temporary data processing](#)³³.

Objectives:

- Temporarily prepare or restrict model data

Use Cases:

- Extract selected information and save it in an export format
- Add additional information without modifying models, e.g., adding a QR code to drawings for export.

2.2 Types of data rework

Once you have clarified the purpose of reworking your data, determine which models are to be analyzed or revised. This will guide your decision on which type of data processing is most appropriate.

With GENIUS TOOLS Model Processor (MP), the following options are available for report generation and data processing.

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Types of data rework	Use	Users	Modules
			for reports
Run task list in batch mode (MP)	For large amounts of data	Administrator	Model Processor Report

Types of data rework	Use	Users	Modules
			for reports
Run task list on current model (MP User)	For individual models or dependent components	Creo user	Model Processor User

Types of data rework	Use	Users	Modules
			for reports
Run task list on current model (MP Worker Extension)	For individual models or dependent components	Automated process	Model Processor Worker Extension

for
con-
re-
re-
e-
v-
con-
re-
k-
i-
re-
con-
a-
t-
a-

Run task list on current model

Task lists can be run on the model currently open in Creo Parametric. A license for [GENIUS TOOLS Model Processor Report](#)¹² is required.

Advantages:

- The fastest way to analyze or revise model data required for a project
- Easy use of [group mode](#)²⁴

Use Cases:

- Data analysis of assemblies, e.g., to determine how well company standard parameters are maintained
- Execute actions on all components of an assembly

Run task list in batch mode

For analyzing or reworking large amounts of data you can use interactive and automated batch processing is available. If you want to save the changes made in batch mode, a license for [GENIUS TOOLS Model Processor Rework](#)¹² is required.

Advantages:

- All parts in a folder or list are reworked.
- No involvement of Creo users is required during data rework. Rework can take place e.g. overnight.

Disadvantages:

- All models must be located in one or more directories or be easily grouped by name.
- Takes a long time, as large amounts of data are reworked at once.
- Not suitable for the continuous updating of model data.

Use Cases:

- To support PDM implementation (existing data, library adjustments, parameter updates, etc.).
- One-time revision of all company data, e.g., when the company name on drawings must be replaced following a company acquisition.
- Data analysis or revisions for models located in one or more library folders

Run task lists on current model in Model Processor User

Users can initiate data processing in Creo Parametric using Model Processor User (MPU). A license for [GENIUS TOOLS Model Processor User](#)¹² is required.

Advantages:

- Creo users control the data processing (selection of individual models is possible)
- Fast revision of individual parts and small assemblies
- Faster data revision when working with [cross-model group modes](#)²⁴
- Best suited for continuous maintenance of model data
- Data revisions can be derived from PDM status

Disadvantage:

- Takes longer to process large amounts of data than Batch Mode C—no use case—K

Use Cases:

- Support for implementing CAD work guidelines
- Ongoing maintenance of model data to keep company standard up-to-date

2.3 Usage of the group mode

For all types of data processing the group mode can be used. This allows actions to be executed on parts that are related to the current model, such as on all components of an assembly or on the drawing model of a drawing.

The group mode is defined for an action group, i.e., the settings of the task *Group*. By default, the selection is set to *Currently Reworking Model*, meaning that during rework tasks cannot run on another model or state. This group mode does not change the scope of the actions within the group.

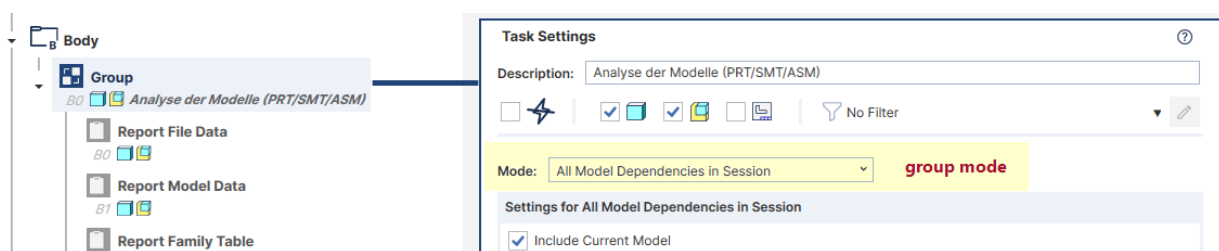
A group can also be used as an organizational element, for example, to define filters that apply across actions or to repeat actions within the group, see chapter [Combining tasks in groups](#)⁵⁵.

Scope-changing group modes

Most group modes change the scope of actions, for example to switch from the current model to another model during editing, or to switch within a model to combined views.

You can apply the group mode:

- **within the model (intra-model):** to execute actions on all sheets or on all bodies, see the [overview of group modes](#)²⁵ below.
- **outside the model (across models):** when you need to switch between models or model types (PRT, DRW) during editing, e.g., from an assembly to a component part (Group Mode *All Model Components*) or from a part to a drawing (Group Mode *Other Model*).



Cross-model group mode: Reports in an action group are applied to the current model and all dependent models

Advantages of state-changing group modes:

- Fastest method for making changes to nested product data with Model Processor User, e.g., when revising an assembly.

Disadvantages:

- More complicated to implement when first starting to work with Model Processor
- For cross-model group modes, mapkeys cannot be executed during revision.

Use cases for state-changing group modes:

- Project-related data revision, e.g., restricting parameters when delivering an assembly to a customer (group mode *All Model Dependencies in Session*).
- Switching from the current model to another model, e.g., writing the drawing number from the drawing model into the drawing (group mode *Other Model*).

Refer to the following table to see which group modes apply across models and which apply within a model.

	Cross-model	Intra-model
Scope-changing group modes		
Currently Reworking Model ¹⁹⁴ (Group is organizing element)		X
All Rows in CSV File ¹⁹¹		X
For Loop ¹⁹²		X
While Loop ¹⁹⁴		X
Group modes that do not change the scope		
Other Model ¹⁹³	X	
All Bodies ¹⁸⁸		X
All Combined Views ¹⁹⁰		X
All Instances ¹⁹⁰	X	
All Model Components ¹⁹⁰	X	
All Model Dependencies in Session ¹⁹¹	X	
All Sheets ¹⁹²		X
Custom Simplified Representation ¹⁹²		
New Drawing Created ¹⁹³	X	

All group modes are described in detail in the chapter [Group](#)¹⁸⁷.

2.4 Reporting

With GENIUS TOOLS Model Processor, you can create reports to obtain a good analysis of existing model data. No changes are made to the models.

Please note: A license for [GENIUS TOOLS Model Processor Report](#)¹² is required to generate reports.

2.4.1 Workflow

This general workflow is recommended for creating reports.

Considerations

1. Who creates the report?
 - Administrator → Model Processor Report
 - Creo User → Model Processor User
2. Which models should be analyzed? ([Type of data processing](#)¹⁷)
 - One or more parts, drawings or assemblies → Task list on the current model (MP or MP User)
 - Files that are grouped in one or more directories or can be easily found by filename → Task list in batch mode
3. What data should be checked for what?
 - Model data, parameters, relations, material properties, family tables etc. → Search for relevant actions in the [category Report](#)²⁸⁵
4. Does the focus need to be switched to another part or within a part? → Select a [group mode](#)²⁴
5. Are specifications needed for executing tasks? → Use [enhanced filters](#)⁶⁵
6. What type of report is needed?
 - CSV file, SQLite database → Choose a [report template](#)²⁹

Create task list

7. Create at least one report template in the Resources area.
8. Drag the required actions into the Body area.
9. Consider where using group modes and filters makes sense.
10. Test the result after each task.

Create a report

11. Select the type of data processing specified in Step 2.
12. Execute the task list.

2.4.2 Checking data quality

If you want to revise models, assessing data quality is the basis for deciding what tasks are needed during the revision process.

Follow the [general procedure for reporting](#)^[26]. When assessing data quality, the questions are typically answered as follows.

Considerations

1. Who creates the report?

Data analysis of existing models is typically not performed by Creo users, but rather by an administrator who is also responsible for subsequent data revision procedure. → Run task list on the current model or in batch mode (MP)

2. Which models should be analyzed? ([Type of data processing](#)^[17])

One or more parts, drawings or assemblies → Task list on the current model (MP or MP User)

- Files that are grouped in one or more directories or can be easily found by filename → Task list in batch mode

3. What data should be checked for what?

Typical questions include:

- Do all models use the same unit system? Do all models have the same level of accuracy? → *Action Report Model Data*
- Have the parameters been filled in? → *Action Report Parameters*
- Have the material properties been set? → *Action Report Materials*
- What relationships are stored in the model? → *Action Report Relations*

4. Does the focus need to be switched to another part or within a part? → [Group mode](#)^[24] *All Model Dependencies in Session*

5. Are specifications needed for executing tasks? → Use [enhanced filters](#)^[65]

6. What type of report is needed?

- To analyze large amounts of data, you should create a CSV file with one row per model or an SQLite database → [Report Definition](#)^[290]. If the focus is on the model data values, for example, for filtering, select the → [List Report](#)^[285].

Create task list

7. Create at least one report template in the Resources area.
8. Drag the required actions into the Body area.
9. Consider where using group modes and filters makes sense.

10. Test the result after each task.

Create report

11. Select the type of data processing specified in Step 2.

12. Execute the task list.

Examples

■ Reporting Parameters: Checking a library's default parameter set

Initial Situation: A company wants to determine how well its models adhere to the parameters defined as company standards.

Considerations:

- Who creates the report? Administrator → Task list for current model or in batch mode.
- Which parts are to be used for the report? All models in a library folder → Task list in batch mode
- Which model data are to be queried? All values of the parameters included in the default parameter set. → Task *Report Parameter*. The parameter set from the start model can be used.
- Which report type is needed? SQLite database or CSV file → Report Definition

The implementation is explained in the chapter *Examples and Tutorials* chapter, see [Checking parameter set \(1\) \(1\)](#)³⁵⁴.

■ Reporting Parameters: Checking the standard parameter set on large assemblies

Initial Situation: A company wants to analyze the model parameters of its corporate standard across three large assemblies designed at different points in its history. This will provide a meaningful cross-section of data quality between older and newer models.

Considerations:

- Who creates the report? Administrator → Task list for current model or in batch mode.
- Which parts are to be used for the report? Three large assemblies → Task list for the current model; group-mode tasks for all model components.
- Which model data are to be queried? All values of the parameters included in the default parameter set. → Task *Report Parameter*. The parameter set from the start model can be used.
- Which report type is needed? CSV file, one line per model → Report Definition

The implementation is explained in the chapter *Examples and Tutorials* chapter, see [Checking parameter set \(2\) \(2\)](#)³⁵⁵.

2.4.3 Finding outdated model data

Follow the [general procedure for reporting](#)²⁶. Outdated model data can be identified as shown in the following example.

■ Reporting out-dated parameter: Checking whether material information is up-to-date

Initial situation: A company wants to check whether outdated material files (MTL versus MAT files) are contained in existing model data.

Considerations:

- Who creates the report? Administrator → Run task list in Model Processor
- Which parts should be included in the report? All components of an assembly → Run task list on current model
- Which model data should be checked? In this company old materials (MAT files) can be found by using the old the parameter MATERIAL_GROUP_DE → The task *Universal Report* can filter for old material parameters.
- Does the focus need to be switched to a different part or within a part? Yes, from assembly to all model componens → Group mode required
- What report type is needed? CSV file, one row per model → Report definition

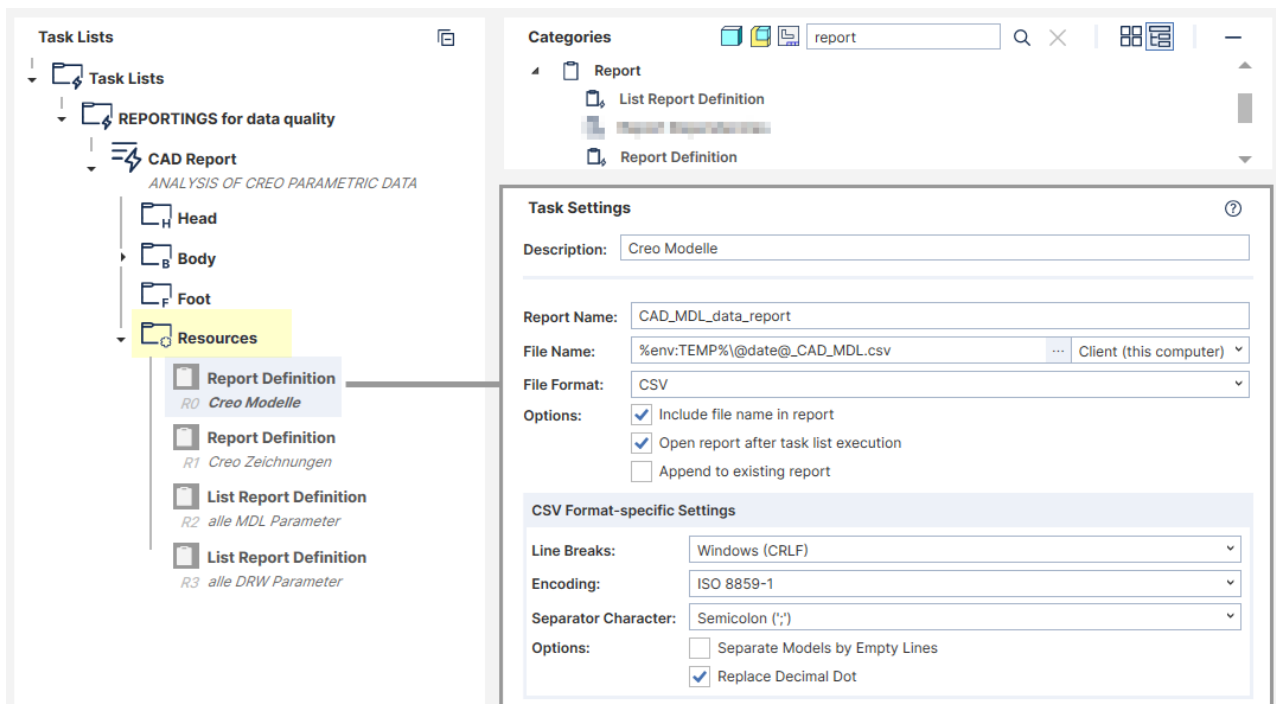
The implementation is explained in the chapter *Examples and Tutorials* chapter; see [Checking material files](#)³⁵³.

2.4.4 Report templates

Reports can be exported as CSV files or as SQLite databases. TO

To create CSV reports, you can use two different types of templates: the report definition and the list report.

The templates are created using the task Create Report Definition or Create List Report actions. The settings are identical. The templates are saved in a project's Resources directory. They can then be selected for any report task.



Template: Report Definition

In a report definition, one row is used per model.

A	B	C	D	E	F	G	H	I	J	K	L
File name	DEPARTMEN	DESCRIPTION	DIMENSION	MATERIAL Va	STANDARD_I	STANDARD_E	STANDARD_S	STANDARD_T	HEAT_TREATI	MASS Value	MC_CHECKTY
start_box_bottom.prt	I-DE-SN	Bodenplatte	-	Buche	DIN EN ISO 1	ISO 13715	ISO 1302		-	0.693000	
start_box_side.prt	I-DE-SN	Seitenwand	-	Buche	DIN EN ISO 1	ISO 13715	ISO 1302	ISO 2768-mK		0.390000	SUT_INT_DE
start_box_strip.prt	I-DE-SN	Leiste	-	Buche	DIN EN ISO 1	ISO 13715	ISO 1302		-	0.056000	

- This template is used automatically when you create a new report in a report task.
- Use this template to obtain a list of models and selected model data, for example, if you want to compare parameter entries from many models.

Template: List Report

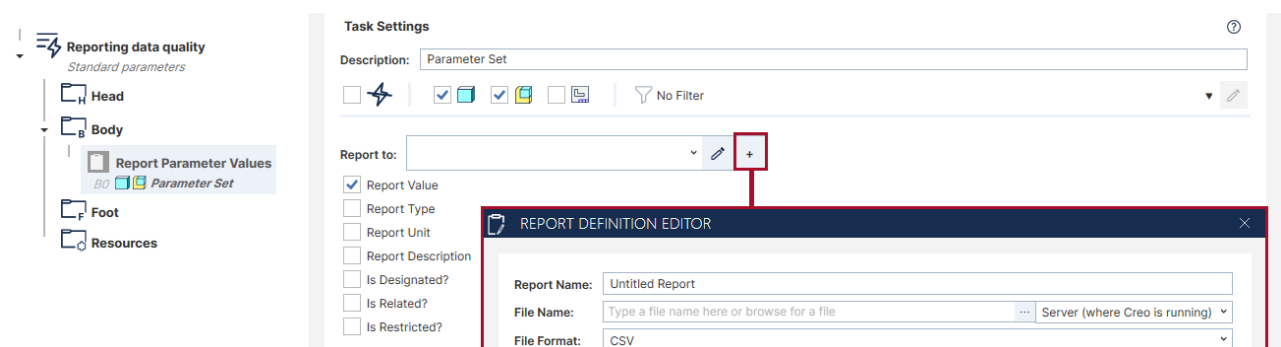
In a list report any number of rows can be created per model.

	A	B	C	D
1	File name	Parameter	Value	
2	start_box_bottom.prt	DEPARTMENT	I-DE-SN	
3	start_box_bottom.prt	DESCRIPTION_1_DE	Bodenplatte	
4	start_box_bottom.prt	DIMENSION	-	
5	start_box_bottom.prt	MATERIAL	Buche	
6	start_box_bottom.prt	STANDARD_DIMENSION	DIN EN ISO 14405	
7	start_box_bottom.prt	STANDARD_EDGE	ISO 13715	
8	start_box_bottom.prt	STANDARD_SURFACE	ISO 1302	
9	start_box_bottom.prt	STANDARD_TOL_CLASS		
10	start_box_bottom.prt	HEAT_TREATMENT	-	
11	start_box_bottom.prt	MASS	0.693000	
12	start_box_side.prt	DEPARTMENT	I-DE-SN	
13	start_box_side.prt	DESCRIPTION_1_DE	Seitenwand	
14	start_box_side.prt	MC_CHECKTYPE	SUT_INT_DE	
15	start_box_side.prt	DIMENSION	-	
16	start_box_side.prt	MATERIAL	Buche	
17	start_box_side.prt	STANDARD		
18	start_box_side.prt	STANDARD_DIMENSION	DIN EN ISO 14405	
19	start_box_side.prt	STANDARD_EDGE	ISO 13715	

- Use this template to get an overview of model data, e.g., if you want to view the properties of parameters in a model or see which parameters are used overall.
- If there are multiple models, they are appended to the previous report if the option “Append to an existing report” is selected.

Report Definition Editor

You can create a new template within a task using the Plus sign. The report definition editor will open. You can create a template for report definition there; but not for list reports. The template you create is stored under Resources.



2.5 Reworking models

With GENIUS TOOLS Model Processor, you can add, modify, or replace model data.

Please note: A license for [GENIUS TOOLS Model Processor Rework](#)¹² is required for report generation.

Typical use cases include:

- Revising legacy data (adjusting parameter sets)
- Ensuring standardized model data in a company (continuous data maintenance)
- Revising external model data, e.g., from suppliers

2.5.1 Workflow

The following general workflow is recommended for revising model data.

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

Preparation

1. Create reports from multiple data sets, such as large assemblies, to gain a good overview of the data quality. (See [Checking data quality](#)²⁷)
 - Data quality issues form the basis for deciding which actions need to be taken on the data.
 - Create reports to document the current status before rework and to highlight discrepancies.

Considerations

2. When should the rework take place, and who should perform it?
 - during operations:
 - Administrator → Model Processor Report (on current model)
 - Creo users → Model Processor User
 - when model data is not in use:
 - Administrator → Model Processor Rework in batch mode

Please note: During any data rework, ensure that the models are not being edited by other users or checked out.

3. Which models should be reworked? ([Type of data rework](#)¹⁷)
 - Are the models stored in folders or project-based?
 - One or more parts, drawings, or assemblies → Task list on the current model/assembly or in Model Processor User

- Files that are grouped together in one or more directories or can be easily found by filename → Task list in batch mode
 - Are all parts in an assembly?
4. Which data needs to be revised?
 - Model data, parameters, relationships, material properties, family tables, etc. → Search for corresponding actions
 5. Does the revision require switching to a different part (e.g., from Part to Drawing?) or changing the focus within a part? → Set [group mode](#)²⁴
 6. Are specifications needed for executing tasks? → Use [enhanced filters](#)⁶⁵

Create task list

7. Drag the required actions into the Body area.
8. Test each action on a test model before adding the next task to the task list.

Please note: The order of the tasks is crucial, as later steps may depend on previous ones. Therefore, always build a task list step by step.

9. Where appropriate, create task groups and use advanced filters.
10. The Save Model task must be the last action in the list.

Test the task list

11. Run test runs. To do this, deactivate the "Save Model" action by checking the Deactivate box .

Please note: The analysis of the test data usually results in additional actions being added to the task list. Therefore, set aside some time for this fine-tuning of the final task list.

Reworking models

12. Select the type of data rework specified in steps 2 and 3.
13. Execute the task list on your models or integrate the task list into Model Processor User.

Report after rework (optional)

14. Run the task list from step 1 again.

2.6 Temporary data processing

Changes to model data are not always be saved to the model. This is particularly true in cases where model data is temporarily prepared for export.

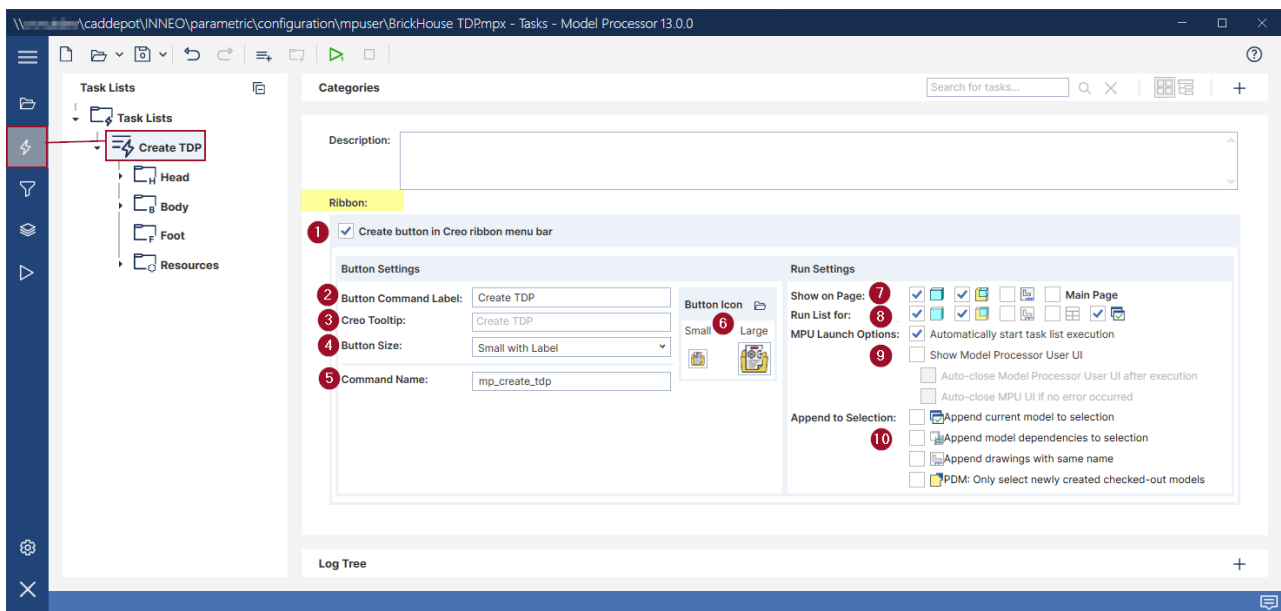
Typical use cases include:

- Extracting selected information and saving it in an export format, e.g., for model data to be shared with customers
- Adding additional information without permanently modifying the model data, e.g., a QR code on drawings for export to a PDF

2.7 Executing task lists in Model Processor User

2.7.1 Create button in ribbon menu

Task lists can be added to Creo in the Model Processor 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.

For example, if the command name is "mp_create_tdp", the mapkey looks like this:
mapkey ~ Command `mp\_create\_tdp`;

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

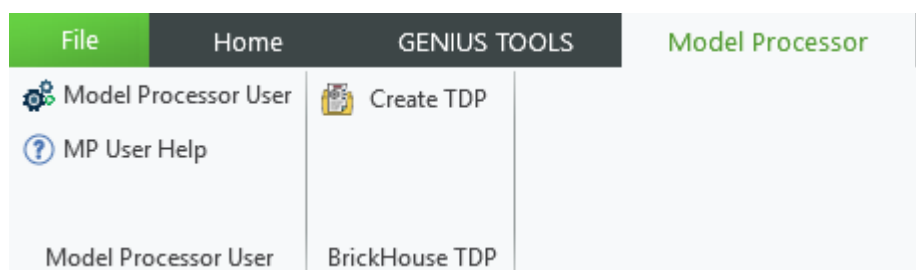
9. MPU Launch Options

- *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.

2.8 Running tests

You have created a task list and want to test it without saving anything. In this case, all you need to do is disable the task [Save Model](#)^[223] by selecting the check box *Disable* ⚡. The task list can then be processed. If errors occur, you can correct them before re-enabling the task *Save Model*.

2.9 Best practice

Creating Reports

- Create reports to document the current state of your data prior to the revision.
- To obtain a meaningful snapshot of your data quality, select three large assemblies—each containing drawings—from different time periods for your reports.
- Retrieve only the data that is needed.

Settings in a task

- User variables and environment variables can be used in the input fields, e.g., `%env:TEMP%\@date@_MDL_data.csv`. The chapter [Variables](#)^[363] lists all variables.
- If you set a global user variable for your company name in the Resources section, the name can be used as a variable, e.g., in the file name: `C:\TEMP\Creo\REPORTS\@date@_user:COMPANY_NAME%_MDL.csv`.
- For reports in batch mode, always specify CLIENT (this computer) as the storage location.

Before revising a larger amount of data

- Automatic scripts on the PC must be deactivated and if possible, all programs that are not needed should be closed.

- Windows Updates must be disabled.
- Check PDM server backup and shutdown phases to ensure that the PDM server does not shut down **or** perform backups that prevent work from being carried out on it.
- Check the Creo license server for backup scripts and shutdown times.
- Check startup TOOLS database and server for shutdown times.
- Users should set the following registry keys to prevent Windows error handling from running and waiting:

Windows Registry Editor Version 5.00

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\Windows Error Reporting]
```

```
"ForceQueue"=dword:00000001
```

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\Windows Error Reporting\Consent]
```

```
"DefaultConsent"=dword:00000001
```

Revision of large amounts of data in PDM systems

Within PDM systems, large amounts of data can be checked out automatically, but cannot be checked in automatically. Therefore, data from PDM systems should only be revised in manageable fractions of the total data volume.

In addition, Creo slows down noticeably with a large number of files in the workspace. Therefore, the number of files (note: instances are not files) should not exceed a reasonable amount. Depending on computer speed and disk capacity, a limit of 1500 to 2000 files is recommended.

When writing a report, the amount of data can be significantly larger. However, it should be noted that Creo also loses speed significantly when a certain amount of data is opened and logged. Therefore, a restart is also recommended here after approximately 1500 - 2000 files.

Automatic start of ProE / Creo Parametric with Startup TOOLS

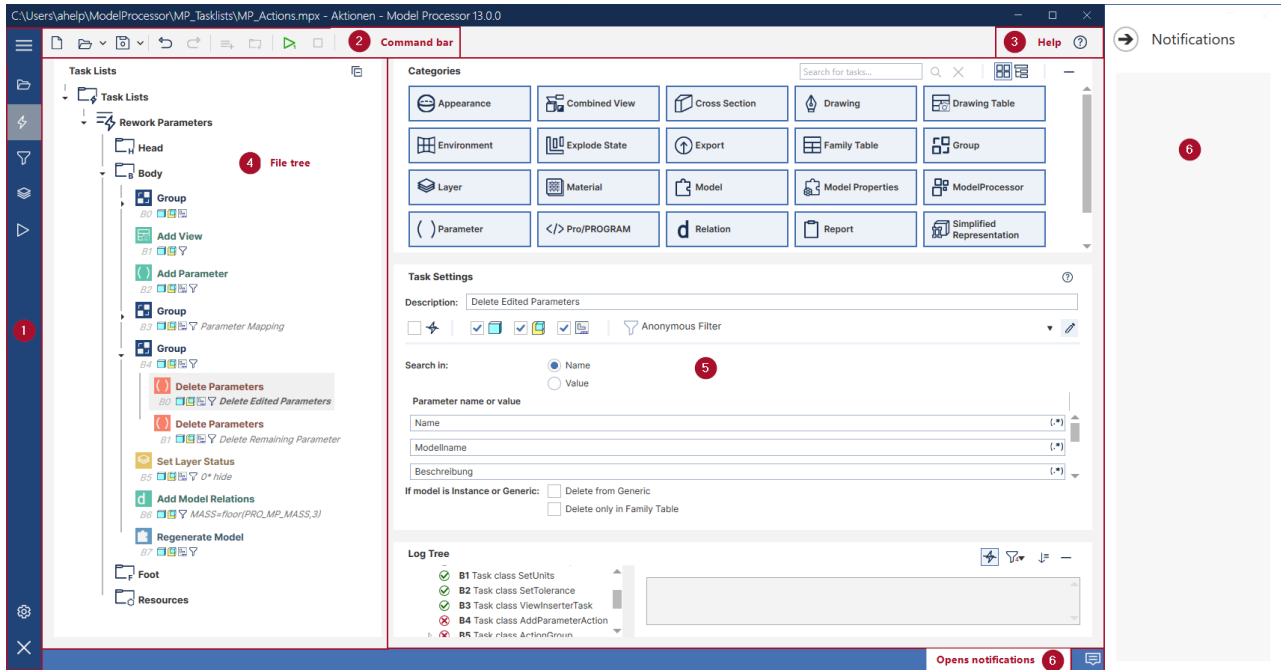
To automatically start ProE / Creo Parametric with Startup TOOLS, the start command must be extended with `-gts:p=projectname`.

Environment Variables

The configuration option `freeze_failed_assy_comp` should be set to *NO*. If this variable is set to *YES*, this can lead to errors in assemblies, as faulty assemblies can then be loaded, revised, saved, and checked into a PDM system.

3 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:

- Project 40
- Tasks 47
- Filter 65
- Batch Settings 84
- Run 96
- Settings 102

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.

4 Project

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

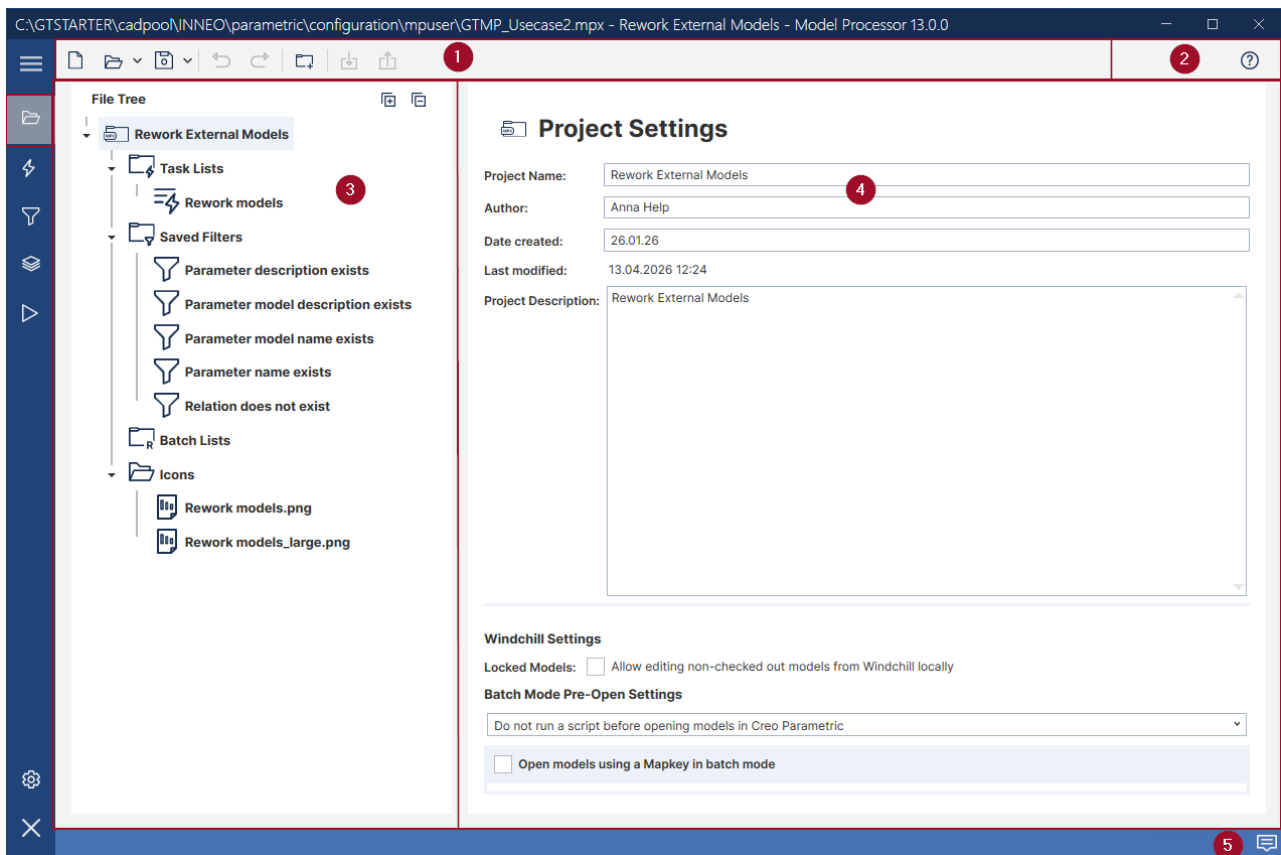
A project consists of

- metadata (name, author, project-specific settings).
- a folder containing [Task lists](#)⁴⁷ for defined work steps,
- a folder containing [Enhanced filters](#)⁶⁵ to restrict tasks,
- a folder containing [batch lists](#)⁸⁶ for rules and automated processing,
- and any number of additional subfolders for individual structuring.

4.1 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](#)⁴³ and [pre-open settings \(batch mode\)](#)⁴⁴

5. Footer with notifications

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

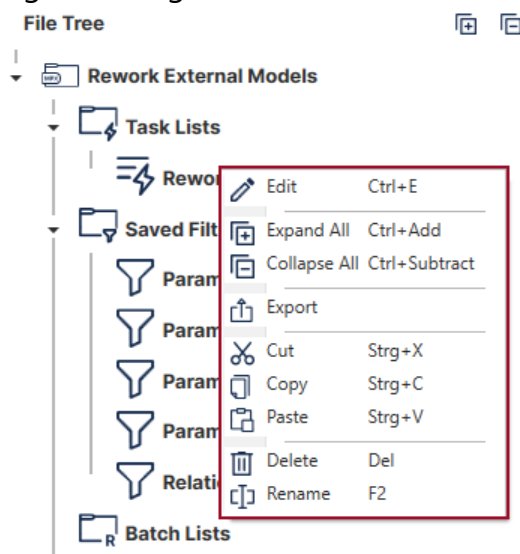
Command bar

The command bar contains the following commands:

Symbol	Name	Description
	New	Create a new, empty project.
	Open ⁴⁴	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 ⁴⁵	Imported file is saved in the currently selected project folder.
	Export ⁴⁵	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.
	Copy	Ctrl + C	Copies the selected item.

Symb ol	Menu item	Shortcut	Description
	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.

4.2 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](#)  ⁴³.
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](#)  ⁴⁴.

4.2.1 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.

4.2.2 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., @mdlIn@ must be replaced by “@@mdlIn@@”.

For further information on the use of mapkeys, see [Start Mapkey](#)¹⁵².

4.3 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.

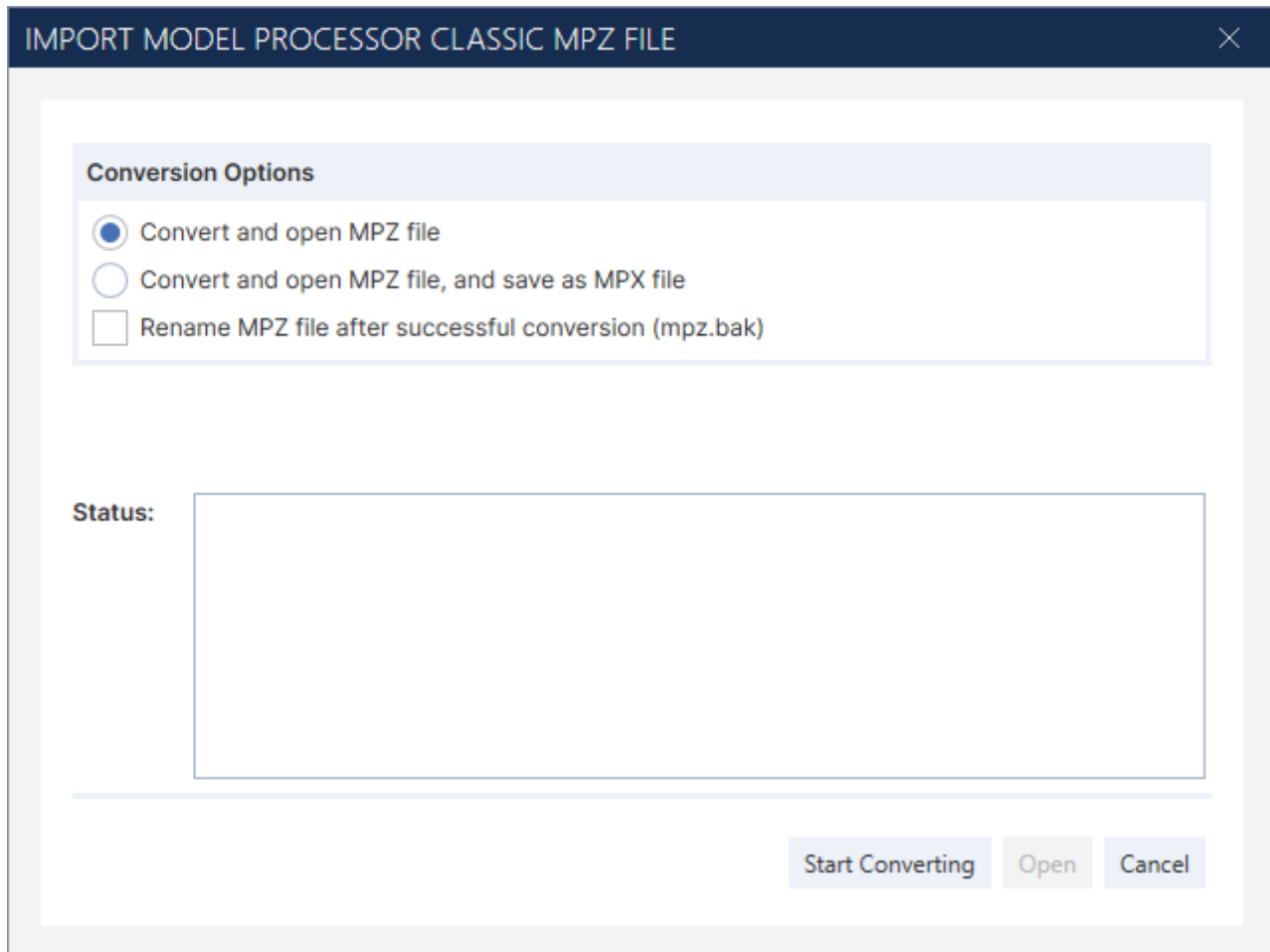
Convert MPZ file

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.



4.4 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.

5 Task lists

A task list defines Creo functions („[tasks](#)⁵²“) 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](#)⁶².

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

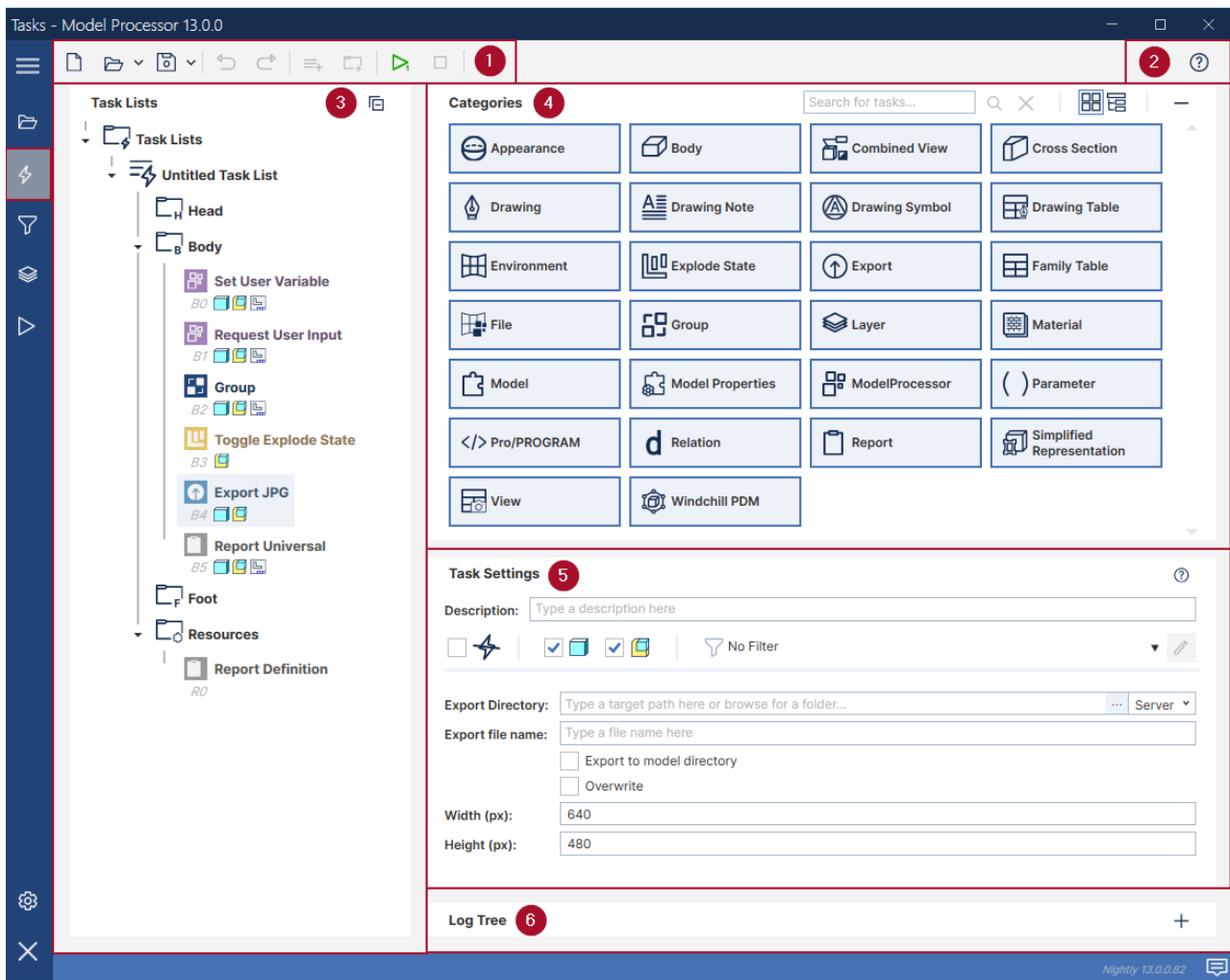
- Multiple task lists can be loaded into Model Processor User and thus made available for selection in the drop-down menu (instead of having to load a new MPX project).
- Multiple task lists can access all saved filters and files of a project.

Task lists can be exported and imported as XML files, see [Importing and exporting task lists](#)⁵⁶.

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

5.1 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 bar⁴⁹

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](#)⁴⁷.

5. Task Settings

Available settings for the task that is currently selected in the task list. There are [general task settings](#)⁵⁴ and task-specific settings.

6. Log Tree

Notifications on the processing status of the selected task list.

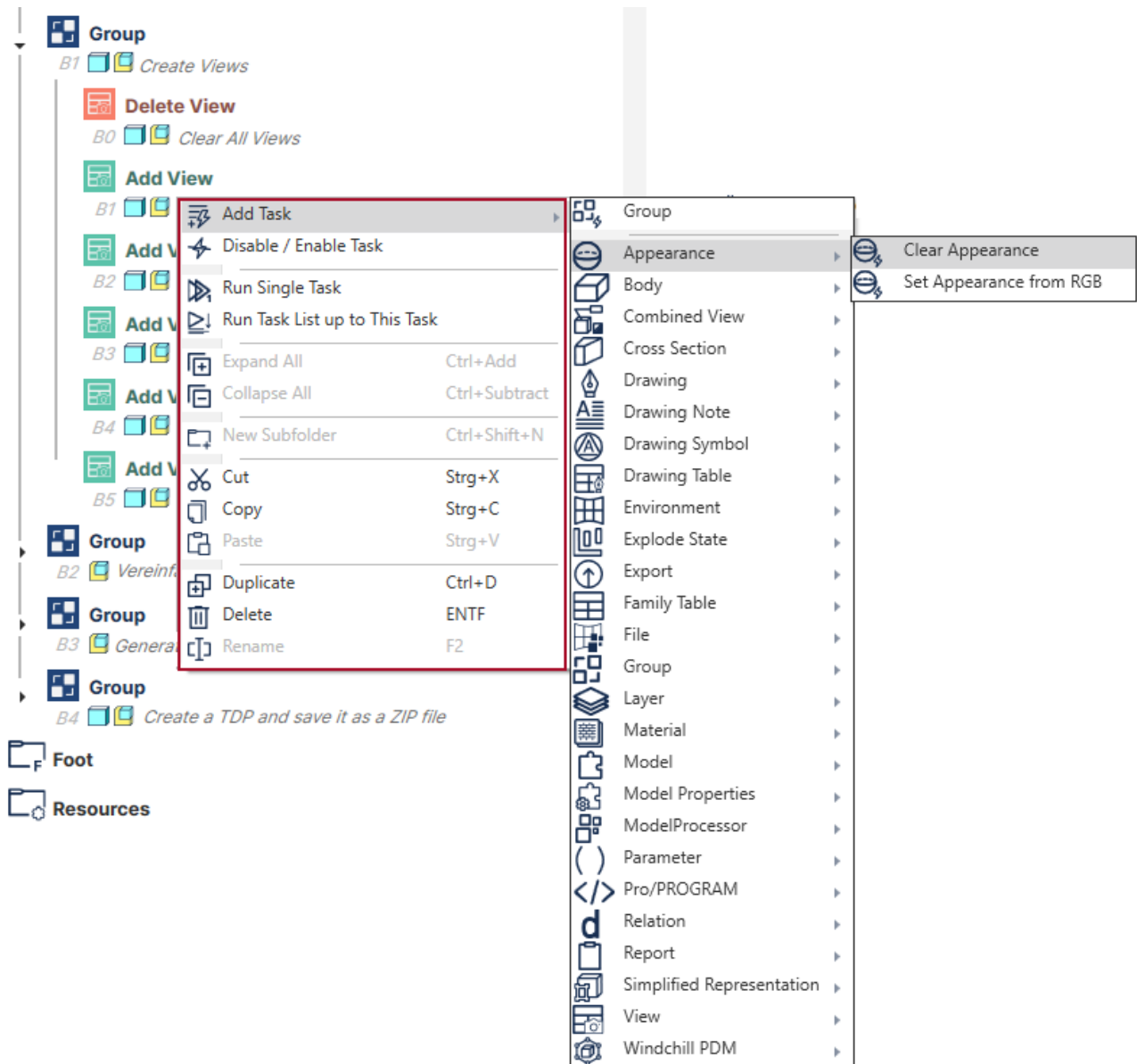
Command bar

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.
	Start	Run the currently selected task list.
	Stop	Stop the current run.

Context Menu

Right-clicking on a task in the file tree opens the context menu.



It contains the following functions:

Symbol	Menu item	Shortcut	Description
	Add Task		Adds a task to the task list.
	Disable / Enable Task		Enables or disables a task.
	Run Single Task		Only the selected task or group will be performed.

Symbol	Menu item	Shortcut	Description
	Run Task List up to this Task		The task list is executed up to the selected task.
	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.
	Cut	Ctrl + X	Removes the selected element and places it on the clipboard.
	Copy	Ctrl + C	Copies the selected item.
	Paste	Ctrl + V	Inserts a previously copied or cut element at the selected position.
	Duplicate	Ctrl + D	Creates the selected task again.
	Delete	Del	Removes the selected element.
	Rename	F2	Allows you to change the name of the element directly.

5.2 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)

Section	Content	Examples
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](#)⁵⁴.
4. Specify the cross-tasks settings, see [General task settings](#)⁵⁴.
5. 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](#)¹⁰³.
6. You can group tasks to set group filters and a group mode, see [Combining tasks in groups](#)⁵⁵.
7. Save the project.

5.3 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](#)⁸⁴, 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:

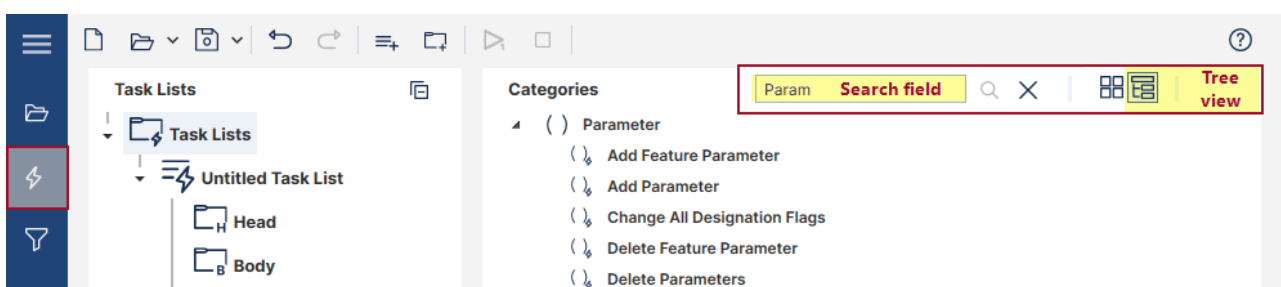
Color of the symbol		Operation
	red	task that deletes
	yellow	task that changes
	green	task that adds
	blue	task affecting the environment
	purple	task affecting the variables
	gray	report

To all tasks, you can apply filters to determine whether a task is executed, see [Introducing filters](#)⁶².

An overview of all available tasks with links to the subchapter that describes this task can be found under [List of all tasks](#)¹⁰³.

5.3.1 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.

5.3.2 Creating tasks

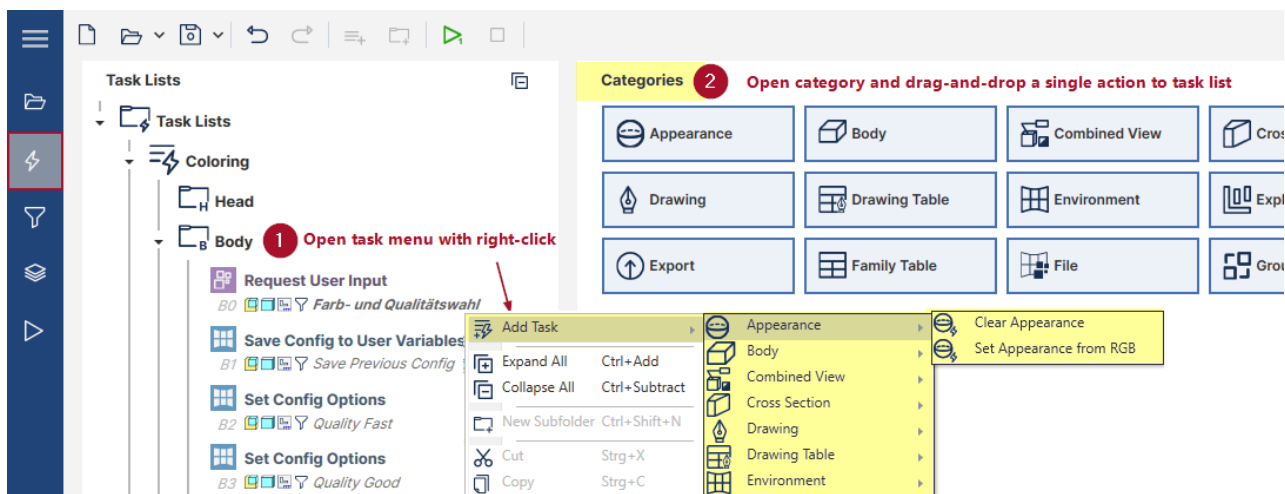
There are several ways to create tasks.

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.

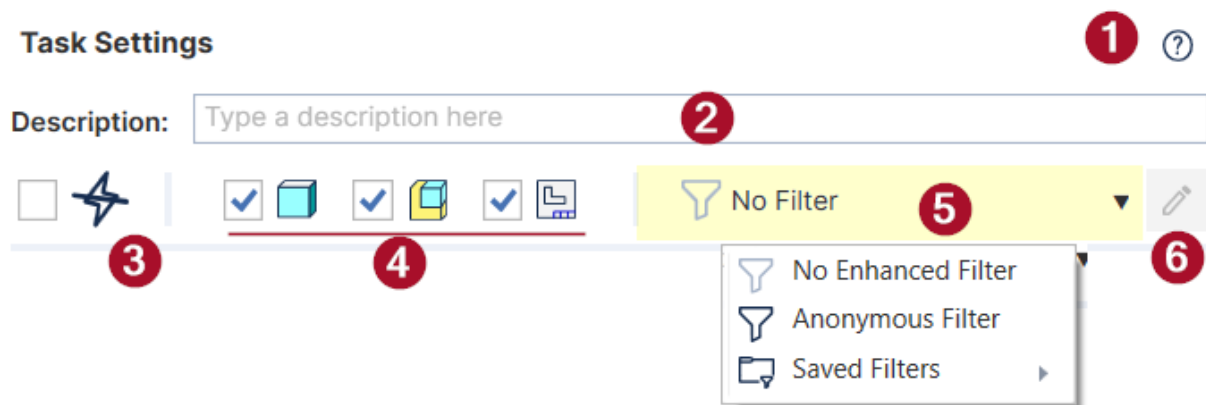


- Click on a task category to see the tasks it contains.
- Add the task to the task list using drag and drop. The task is automatically added to the end of the task list, at the position of the mouse pointer (colored gray).
- Note that the subdivision of the task list ^[51] into *Head*, *Body*, *Foot* 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*.

5.3.3 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 / RegEx](#)³⁶³.

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](#)⁶². 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](#)¹⁰³ 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](#)⁶⁵.

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.

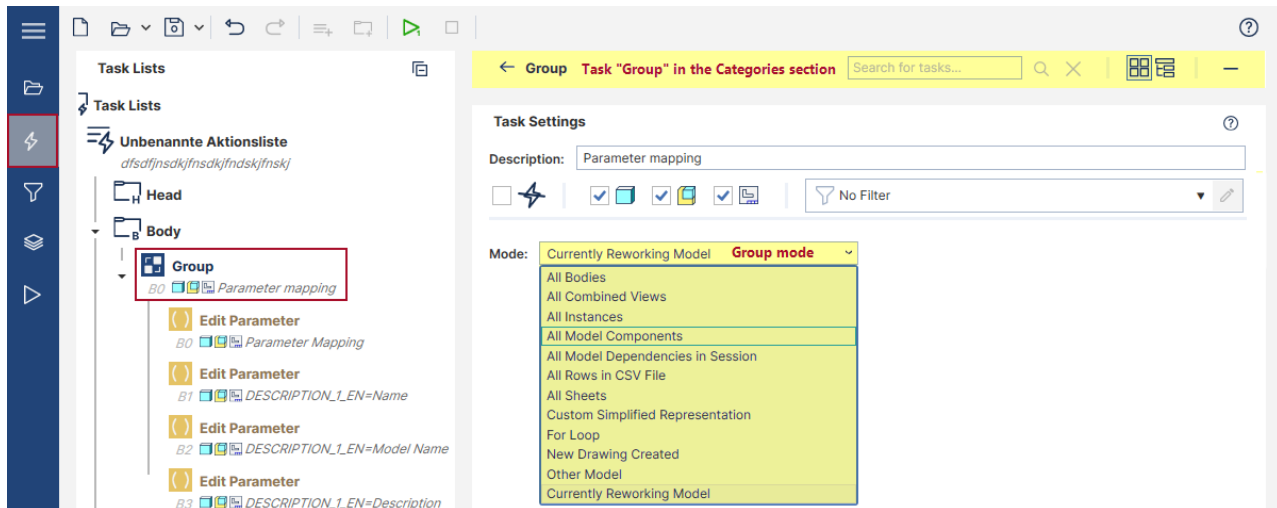
5.3.4 Combining tasks in groups

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](#)¹⁸⁷. All options for group mode are also described there.



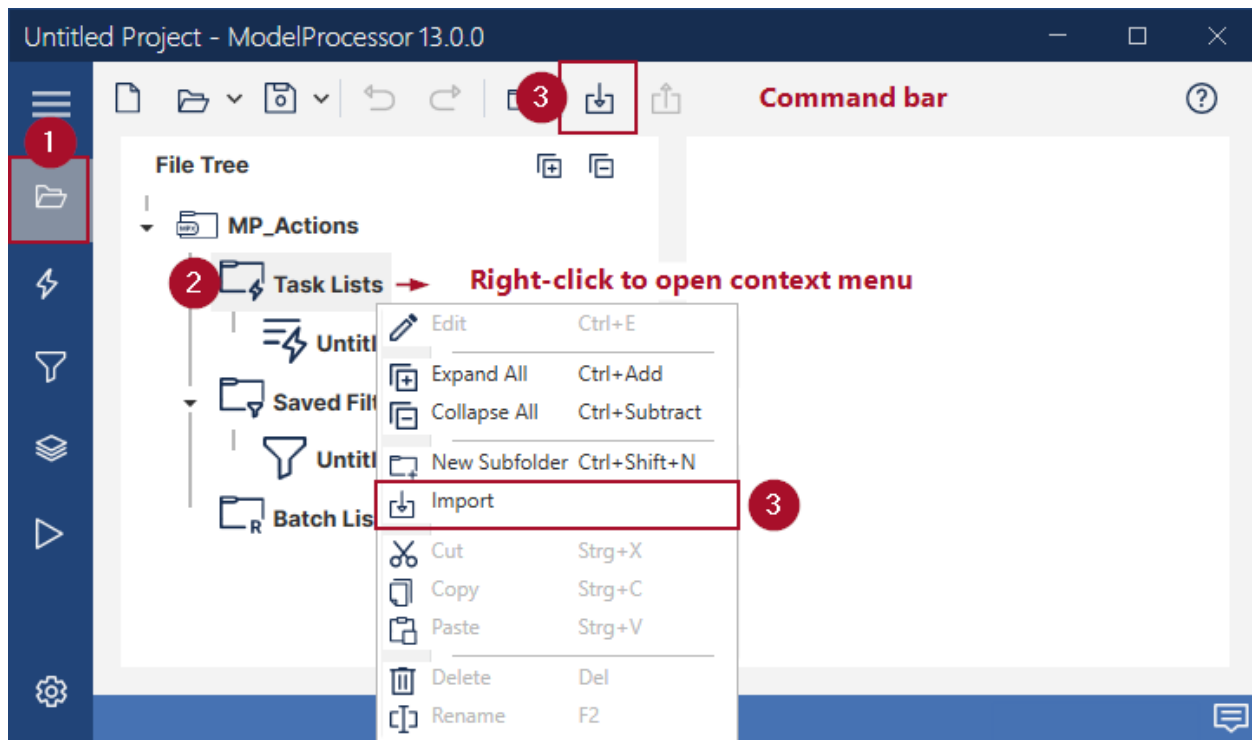
5.4 Importing and exporting task lists

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](#)⁴⁵.

Procedure: Importing a task list

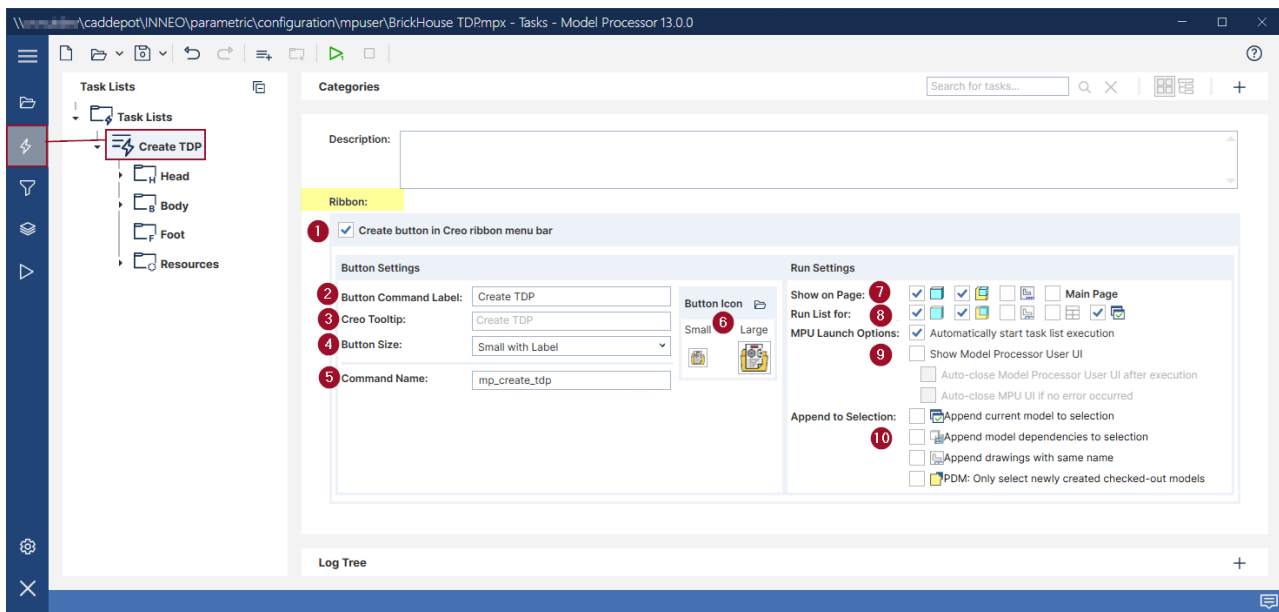
1. Go to the *Project* menu item .
2. Select the folder *Task Lists* in the file tree.
3. Click on the *Import* icon in the command bar or open the context menu by right-clicking on a task list and selecting the command *Import*.

**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*.

5.5 Create button for ribbon menu

Task lists can be added to Creo in the Model Processor 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.

For example, if the command name is "mp_create_tdp", the mapkey looks like this:
mapkey ~ Command `mp\_create\_tdp`;

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

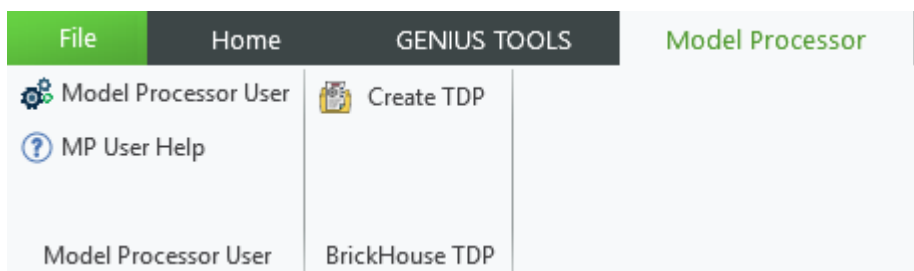
9. MPU Launch Options

- *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.

5.6 Example and tutorials

We offer the following supporting materials to help you get started with GENIUS TOOLS Model Processor. You find these in the Model Processor directory.

Path: *<InstallationDirectory>\Model Processor 13\examples*

Tutorial (MPX file)

For an introduction to the user interface and creating task lists, we recommend using the included MPX file *training_1_-_first_steps.mpx*, see [next chapter](#)⁶⁰.

Practical task lists (MPX file)

The included MPX file *mpuser_example_int.mpx* contains a collection of numerous task lists. These lists serve as examples of real-world use cases, see chapter [Example MPX file](#)⁶¹.

5.6.1 Tutorials

To get started with GENIUS TOOLS Model Processor, we recommend using the training exercise MPX file *training_1_-_first_steps.mpx*.

The instructions inside will walk you through creating a task list step by step. Each exercise includes a short video introducing the task and providing valuable practical tips for implementation.

The following tasks are available:

1. Creating a Report
2. Creating a Model Parameter
3. Modifying a Model Parameter
4. Renaming and Translating Model Parameters
5. Executing Tasks on an Assembly

Supplementary materials:

- Sample models: Ready-made CAD models for immediate testing and verification.
- Dictionary: A pre-built CSV file for the translation process.
- Test Task Lists: A separate test is available for each custom task list so you can check its functionality right away.

You find the training exercise MPX file under *<InstallationDirectory>\Model Processor 13\examples*.

5.6.2 Example MPX file

The MPX file *mpuser_example_int.mpx* contains 26 sample task lists that can be used as templates and customized as needed. Each task list is self-contained and functions independently of the others. Also pay attention to the filters that are part of the task list settings.

All files required to run the task lists are included and can be found under *Model Tree*, such as PNGs, materials, and table templates.

You find the example MPX file under *<InstallationDirectory>\Model Processor 13\examples*.

6 Filter concept

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

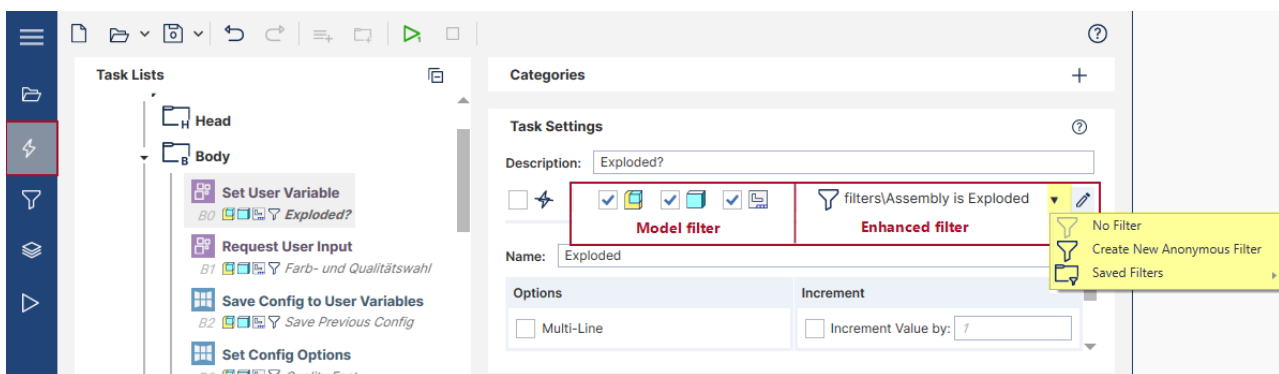
- If the filter result is true, the task is executed.
- If the filter result is false, the task is not executed.

The following applies to filters:

- There are two types of filters: Model filters and enhanced filters.
- The scope of a filters' 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](#)⁷⁵.
- Many filters support regular expressions. Examples are given in the chapter [RegEx](#)³⁷⁴.

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](#)⁵⁴. 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 a task should be executed. There are over [40 filter nodes](#)^[329] that can be used to define enhanced filters. Multiple filter nodes can be combined to differentiate the filter condition more precisely.

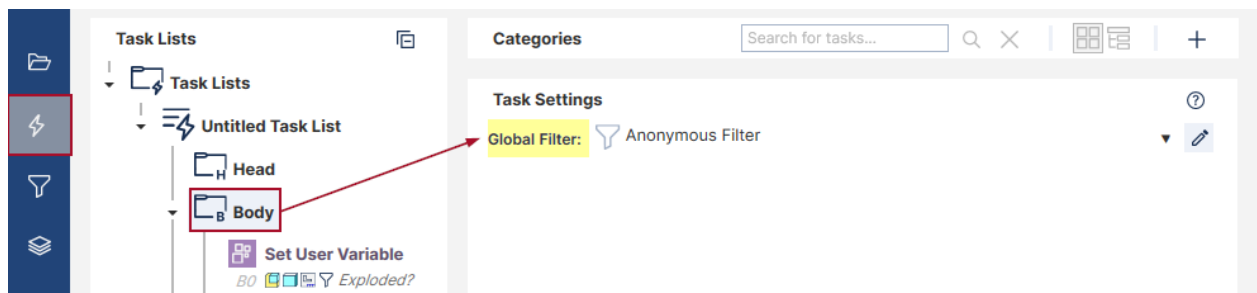
Enhanced filters can be created for a single task (anonymously) or saved for use within multiple tasks. They are created and edited in the Enhanced Filters  menu item in the filter tree. Detailed information can be found in the chapter [Enhanced filters](#)^[65].

Scope of validity

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

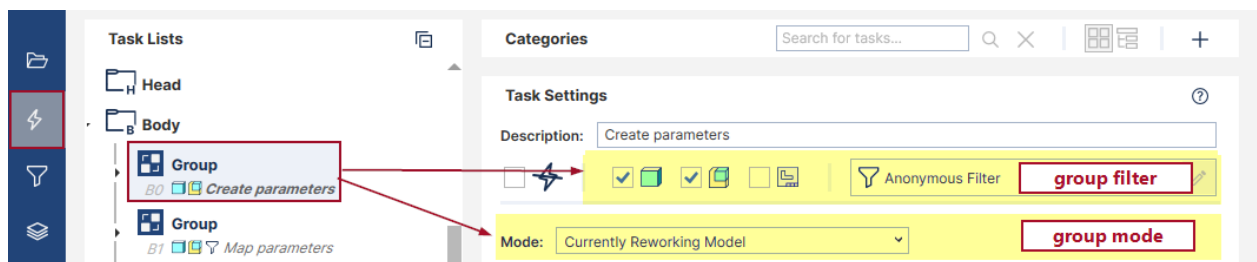
Global filters

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



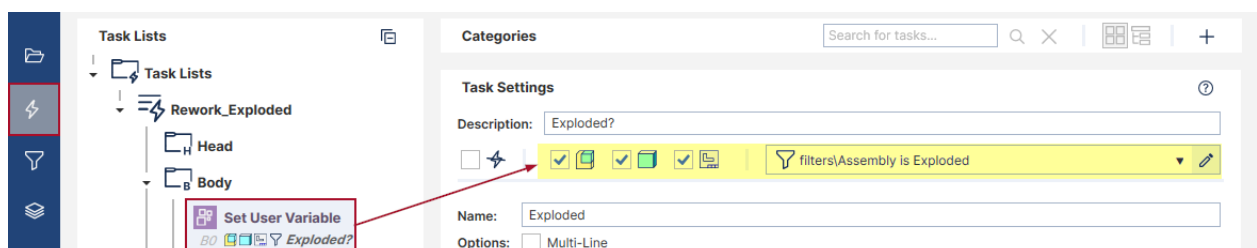
Group filters

- Model filter or enhanced filter that applies to all tasks in the group, see chapter [Combining tasks in groups](#)^[55]



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:

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

7 Enhanced filters

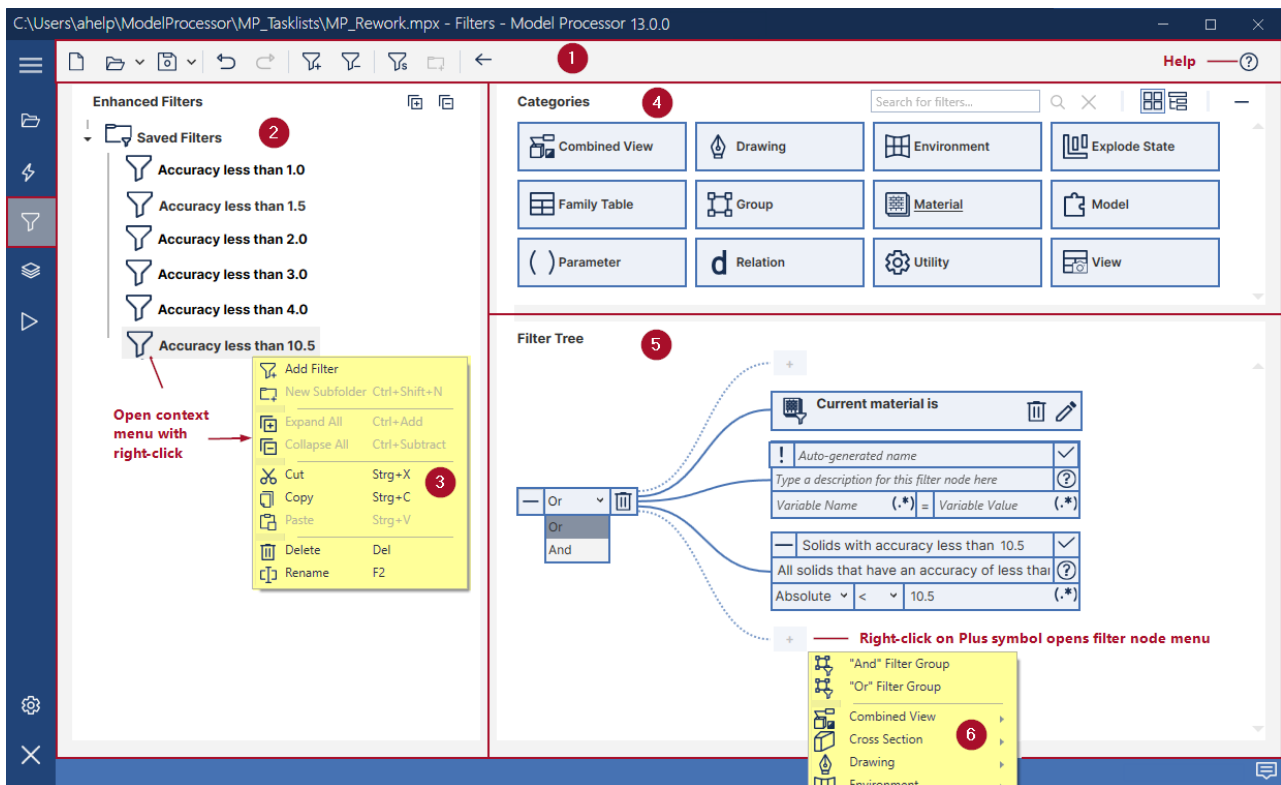
Enhanced filters are created and edited in the *Enhanced Filters* menu item .

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](#)^[62].
- are defined in the [filter tree](#)^[67], with the exception of [feature filters](#)^[75] and [report filters](#)^[312].
- 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.

7.1 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](#)⁶⁷: Defines the filtering process
6. Filter node menu

Command bar

The command bar contains the following commands:

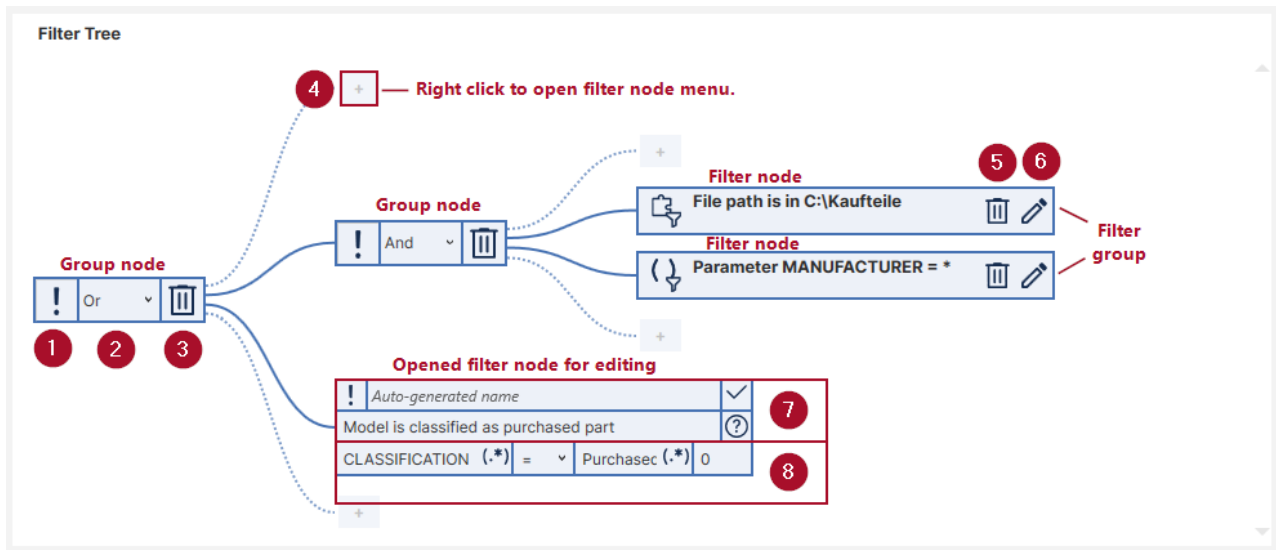
Icon	Name	Description
	New	Create a new empty project.
	Open	Open an existing project as MPX file. The arrow icon opens a drop-down menu with previously edited projects.
	Save	Save the current project as MPX file, including all assets and project settings that are displayed in the

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.

7.2 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



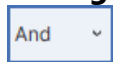
If the conditions of the filter node are met, the filter node outputs TRUE. The task containing the filter is executed.



Filter is negated.

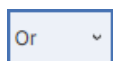
If the conditions of the filter node are NOT met, the filter node outputs TRUE. The task containing the filter is executed.

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](#)  ⁶⁵.

7. General filter settings

Negation, Name and description, see [<%TARGETTITLE%>](#)  ⁷².

8. Filterspecific settings

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

7.3 Creating filters

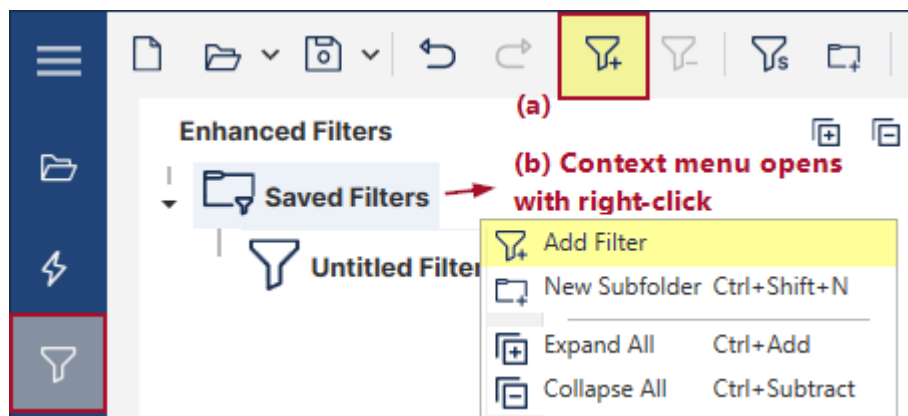
Enhanced filters can be saved and therefore used for multiple tasks or created anonymously for each task.

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. .

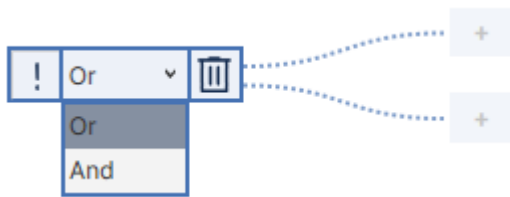
A new entry called *Untitled Filter* appears in the filter folder.



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

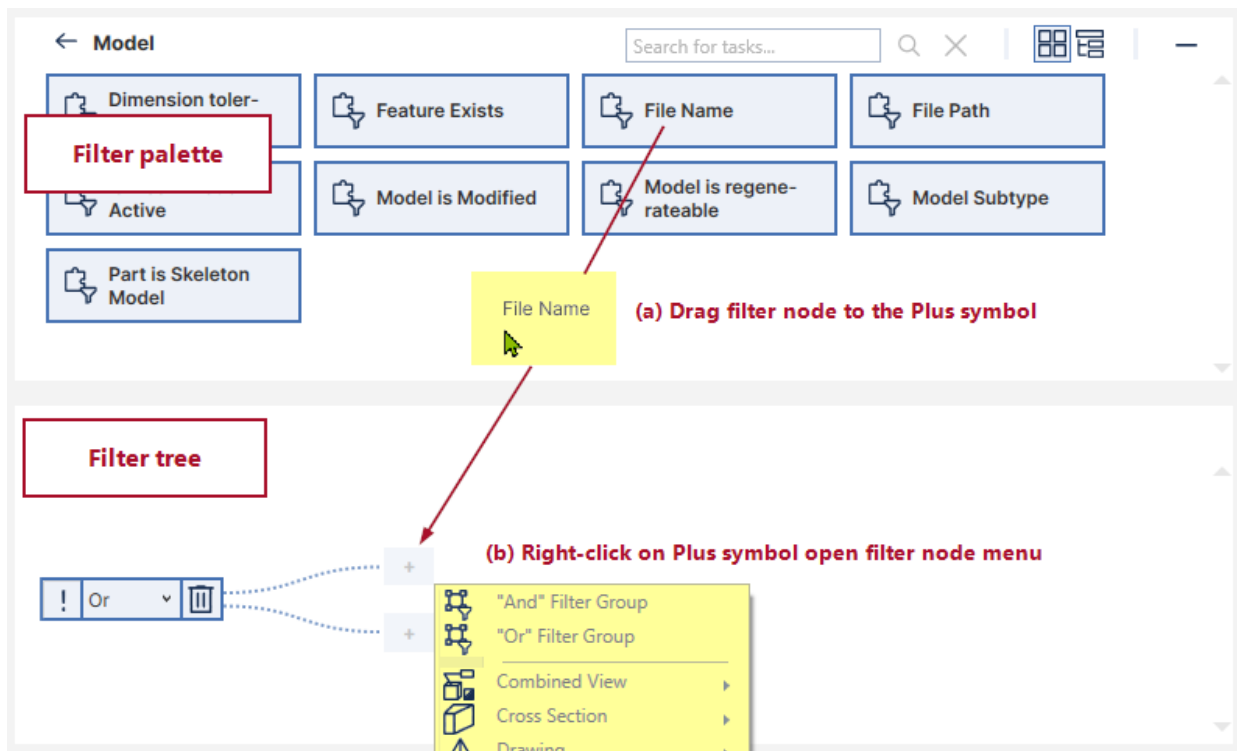
3. Go to the predefined group node.



- a. Determine the link between the filter nodes 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

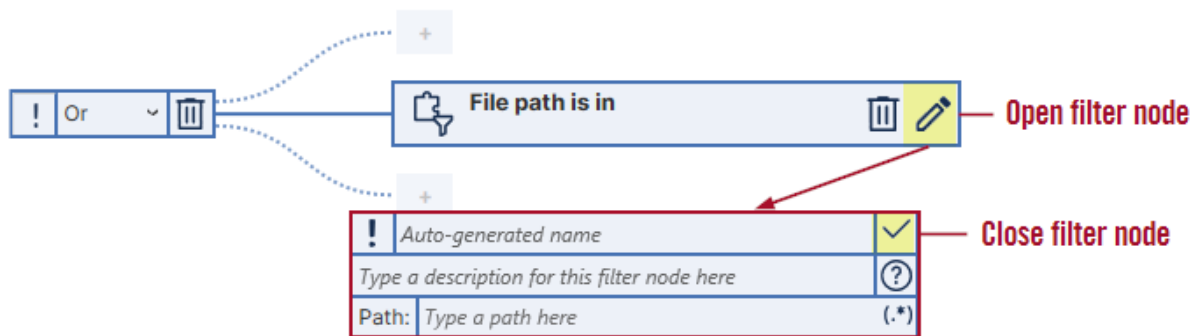
4. Create a filter node for the filter group. There are two options.



- 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

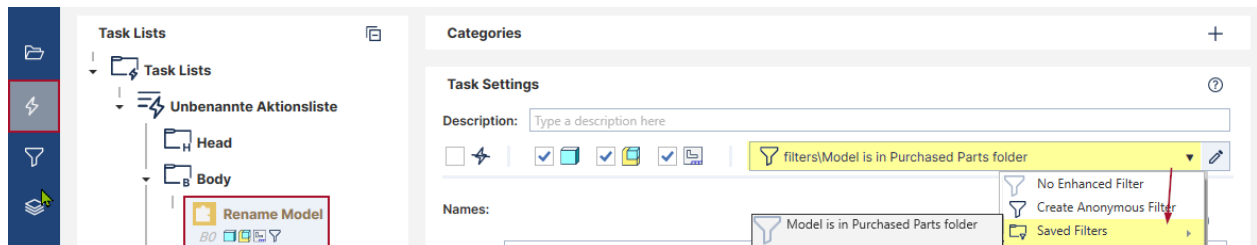
- Click on the pencil icon  to open the filter node. The area for editing the filter node appears.



- Fill in the first two lines, see [general filter settings](#) ⁷².
- 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.

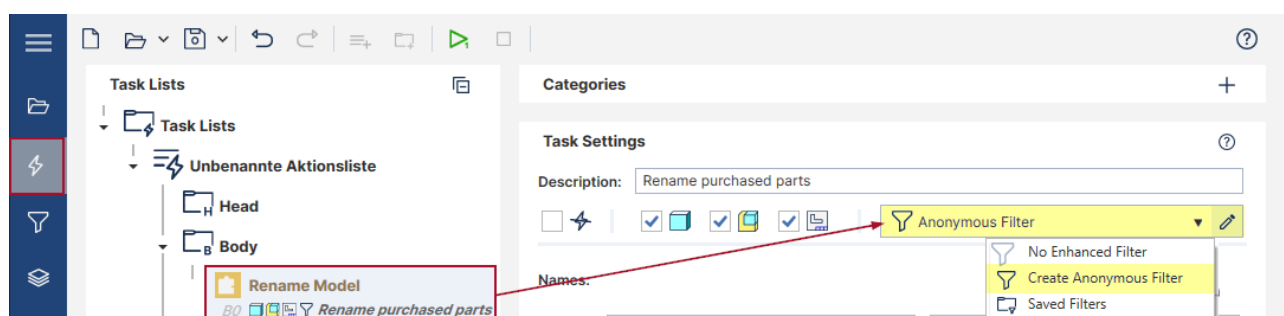


- The saved filter can be linked in other filters, see [Link filter](#) ⁷³.
- The saved filter can be exported for use in other projects.

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

Create anonymous filters within a task

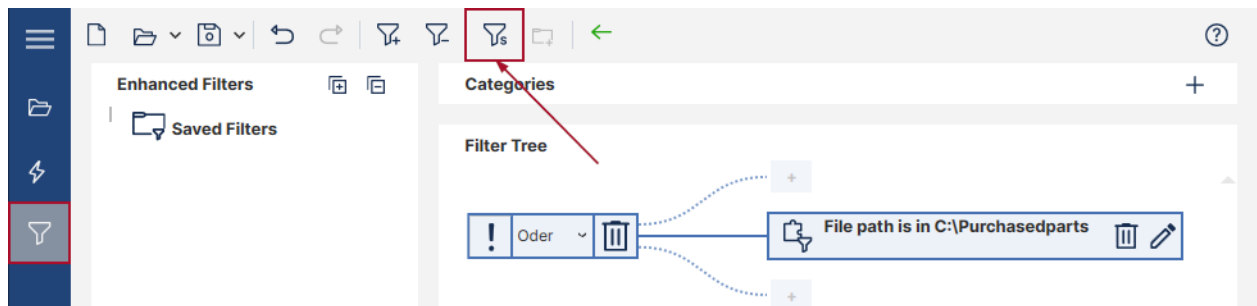
- In the menu item *Task Lists* , select the task that should only be executed under certain conditions.



- 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.

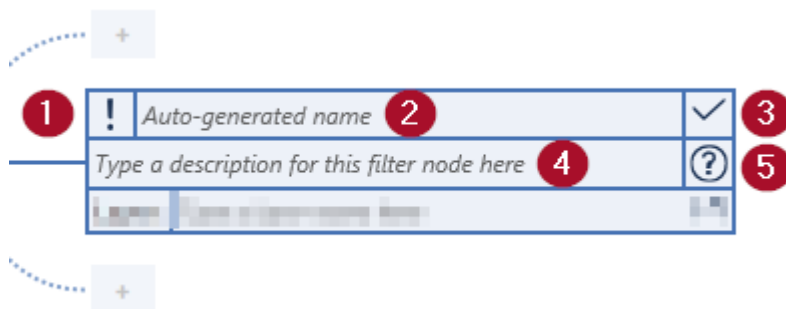
Result:

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



7.4 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](#) ³⁶³.

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

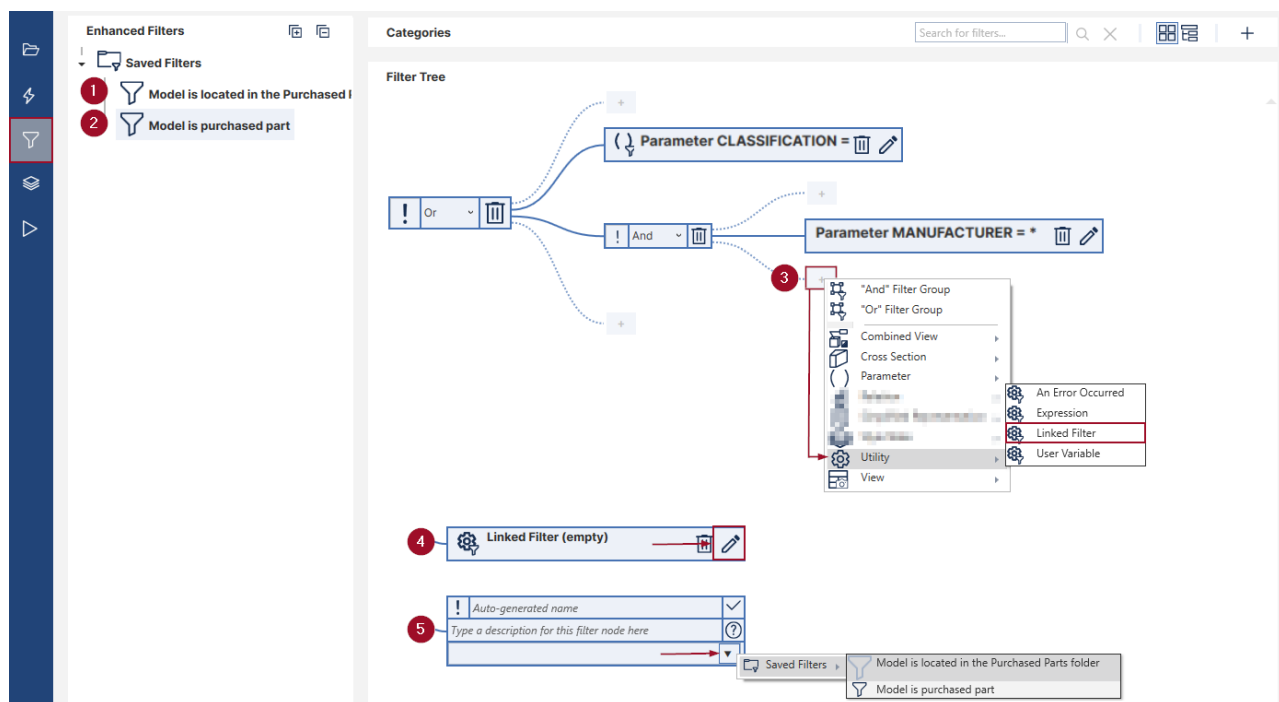
Opens the chapter in which the corresponding filter is described.

7.5 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](#)^[221] 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](#)^[67].
- 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](#)^[69]
 - 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

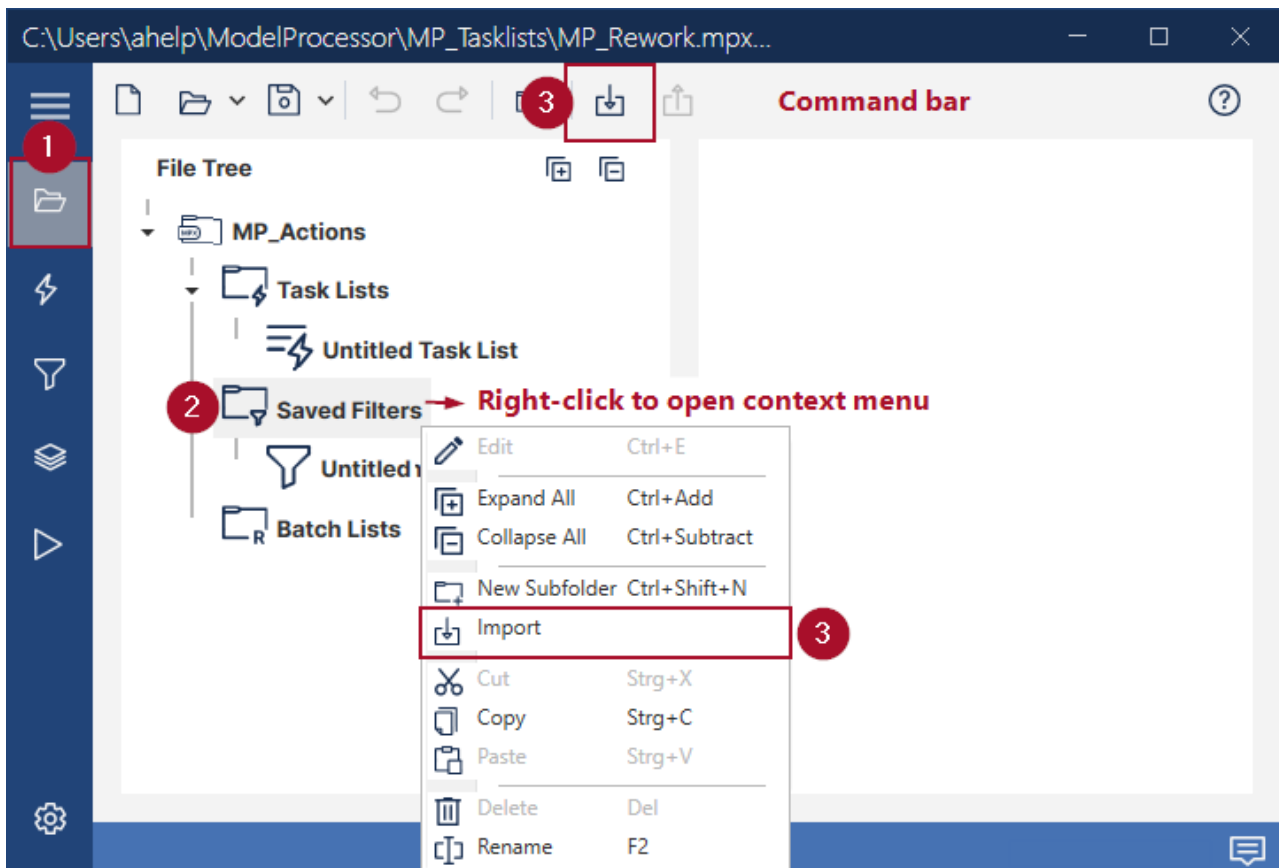
Changes to the file path are applied to all filter conditions that contain a operation to the *Model is in the purchased parts folder* filter.

7.6 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

7.7 Feature Filter

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

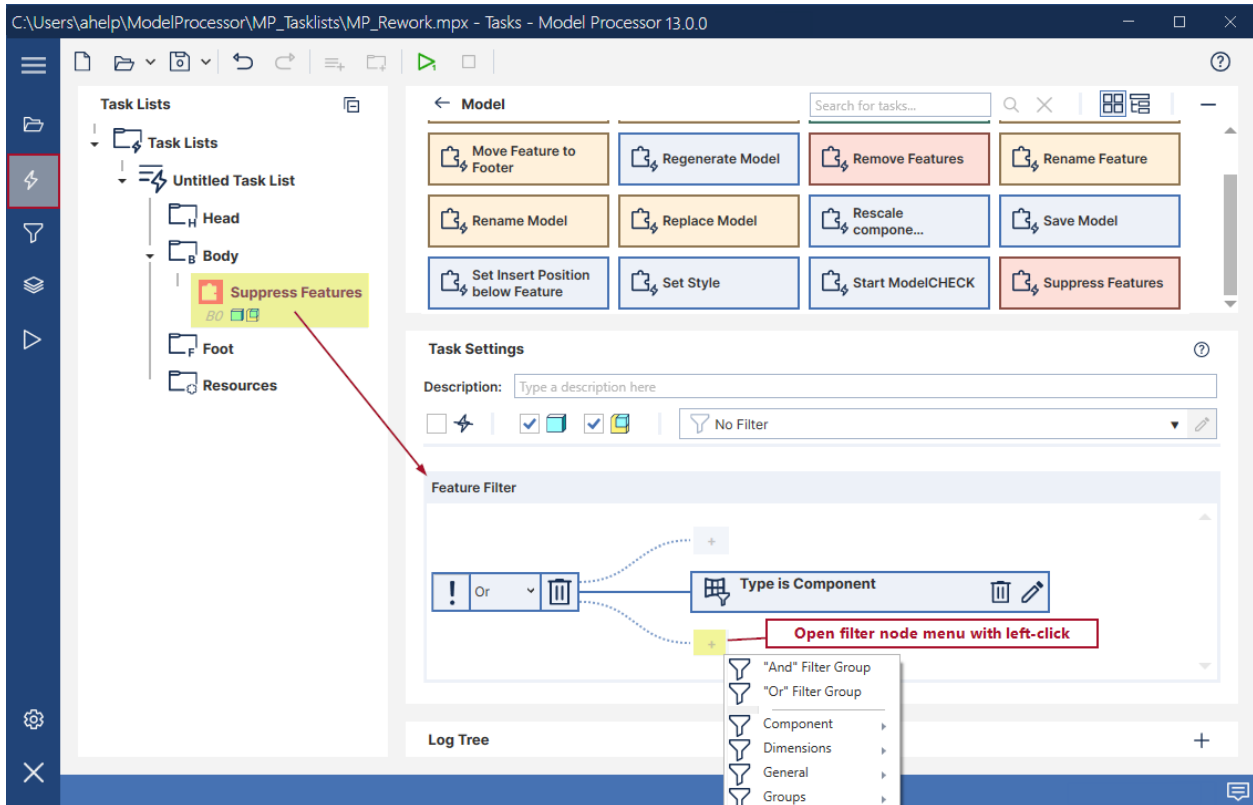
Feature filters are created in two situations:

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

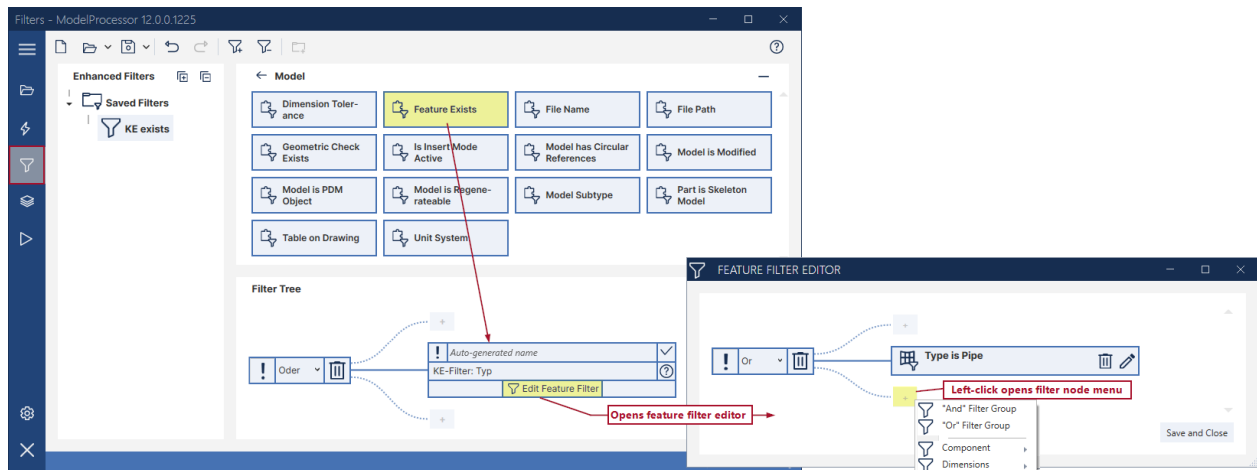
Feature-relevant tasks are:

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	Create Feature, 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**^[341] in the filter tree, you can access the feature filter editor using the **Feature Filter Editor** command.



Feature filter in an enhanced filter

7.7.1 Dimensions

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

7.7.1.1 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](#)^[72].

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

1. Tolerance

Enter an expression with which the thread tolerance class is to be compared. You can use [RegEx](#)^[374]. The icon **(.*)** opens the RegEx Editor.

7.7.1.2 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](#)^[72].

! 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.

7.7.1.3 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](#)⁷².

! 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.

7.7.2 Components

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

7.7.2.1 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](#)⁷².

7.7.2.2 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](#)⁷².

1. Model Type

Select the model type.

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

7.7.3 General

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

7.7.3.1 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](#)⁷².

!	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.

7.7.3.2 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](#)⁷².

7.7.3.3 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](#)⁷².

7.7.3.4 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](#)⁷².

7.7.3.5 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](#)⁷².

!	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.

7.7.3.6 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](#)⁷².

7.7.3.7 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](#)⁷².

!	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.

7.7.3.8 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](#)⁷².

!	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.

7.7.3.9 Feature Tree Node exists

This filter checks whether the nodes in the feature tree match the specified expressions.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁷².

!	Auto-generated name		✓
Type a description for this filter node here			?
Type:	Any type	(.*)	1
Value:	*	(.*)	2

1. Type

Enter the type of feature tree node. If this field is left blank, the entire tree is searched for a node with the given value (2).

2. Value

Enter the value of the tree node being searched for. If a type has been specified, the search is limited to nodes of that type. If this field is left blank, a node with an empty value is searched for.

7.7.4 Groups

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

7.7.4.1 Groups

For more information on "Or" and "And" filters, see [Group](#)³³⁸.

7.7.5 Parameter

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

7.7.5.1 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](#)⁷².

!	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.

8 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.

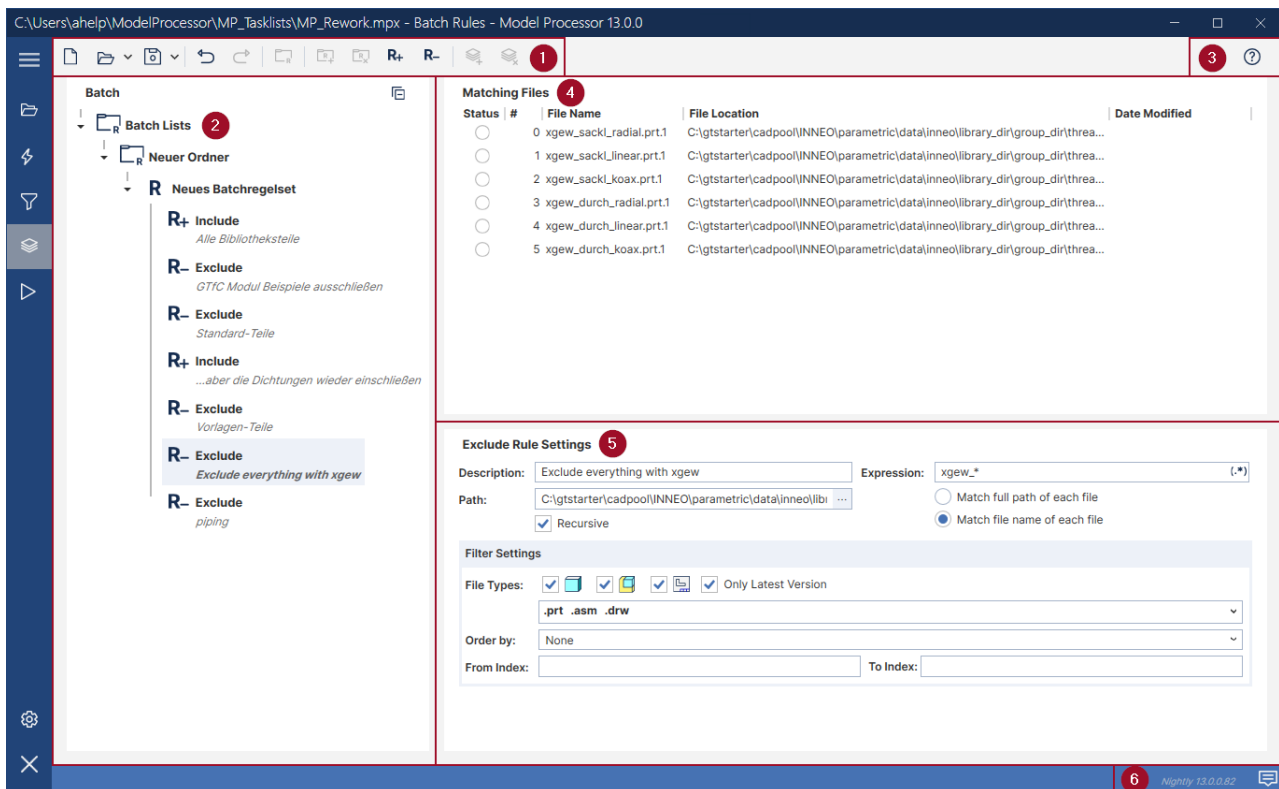
There are two options available for defining the database:

- [Batch rules](#)⁸⁶, which can be used to specifically include or exclude files
- [File lists](#)⁸⁶, in which specific models are listed.

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

8.1 User interface

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



1. [Command bar](#)⁸⁵

2. [Batch Lists](#)⁸⁶

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 87

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  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.

8.2 Create batch list

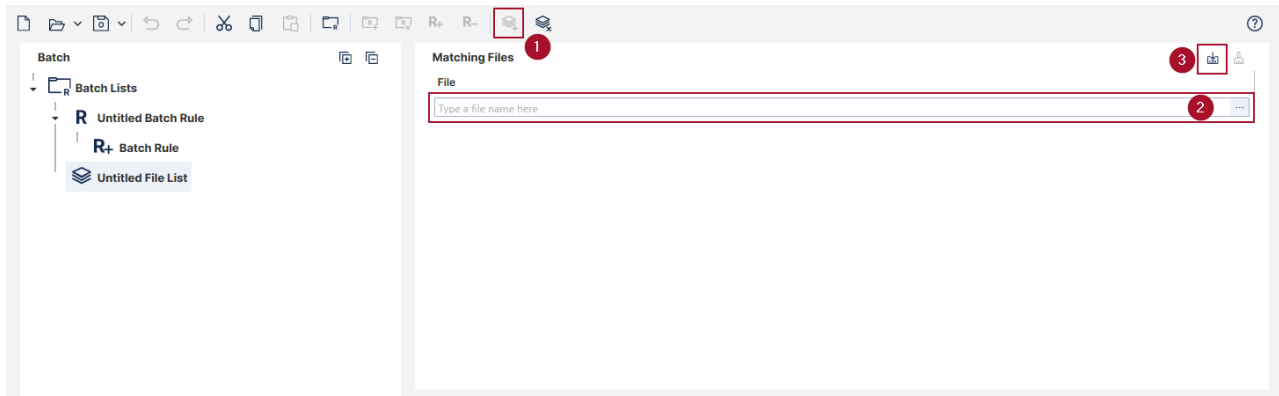
Batch lists are used to provide a defined database for executing tasks. Here you can specify which files should be processed and which should not.

There are two options available for this:

- [Batch rule sets](#)⁸⁶, which are used to filter files dynamically
- [Batch file lists](#)⁸⁶, which contain specific files

8.2.1 Create batch file list

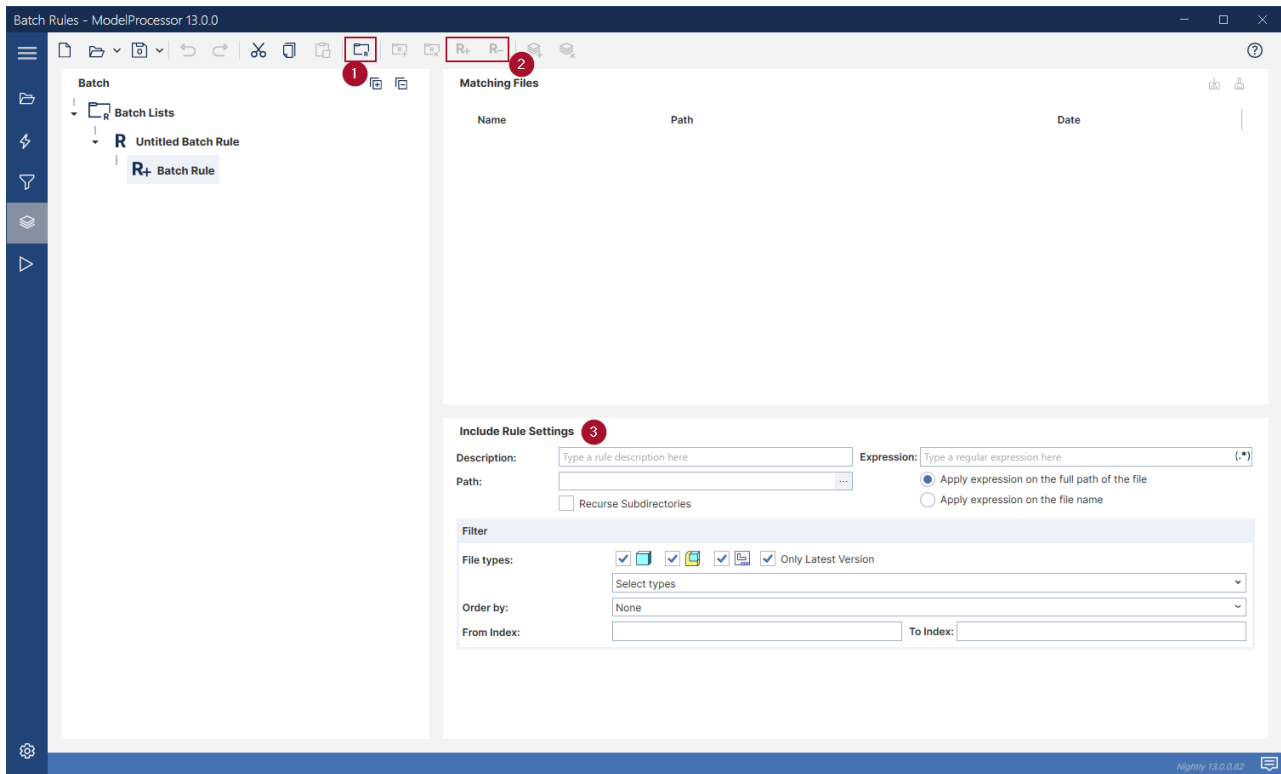
Instead of rule sets, you can also use a fixed file list.



1. Select the New Batch File List  command from the [command bar](#)⁸⁴. 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.

8.2.2 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](#) . 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](#) . This inserts a subrule under the currently selected batch rule.
3. After a rule has been added, it can be [configured](#) .

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.

8.3 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). Hereby it 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).

8.3.1 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:

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

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](#)⁸⁴.

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](#)³⁷⁴ 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*

8.3.2 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.

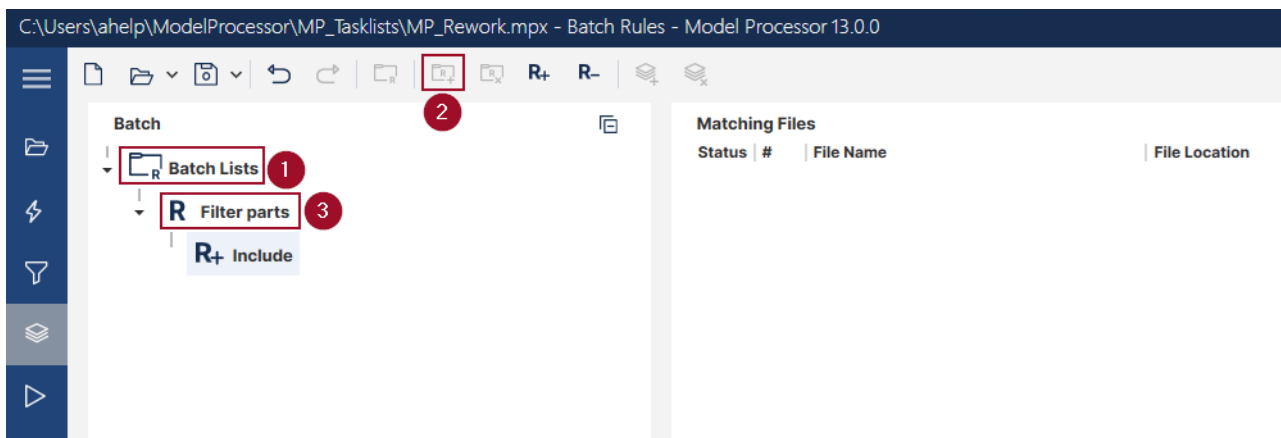
2. File

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.

8.4 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

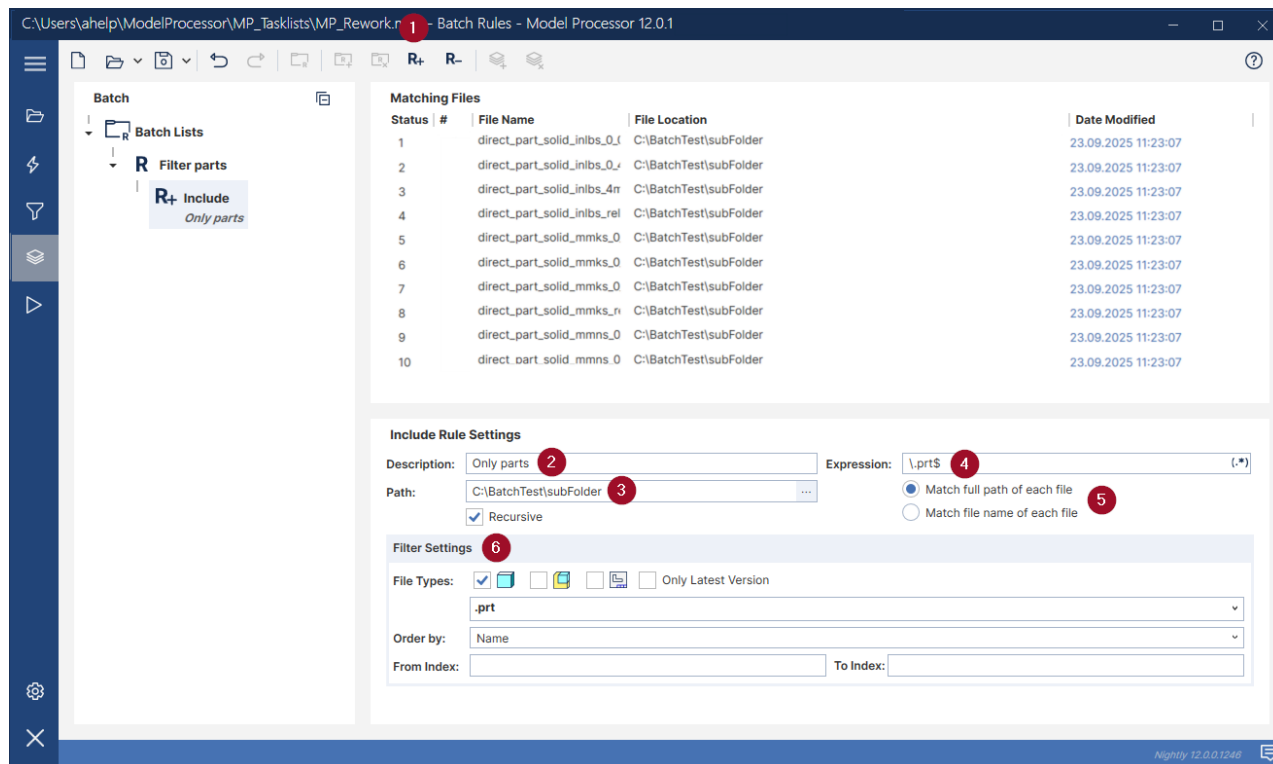
A batch rule set contains any number of rules that are processed sequentially.

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*  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_r	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	

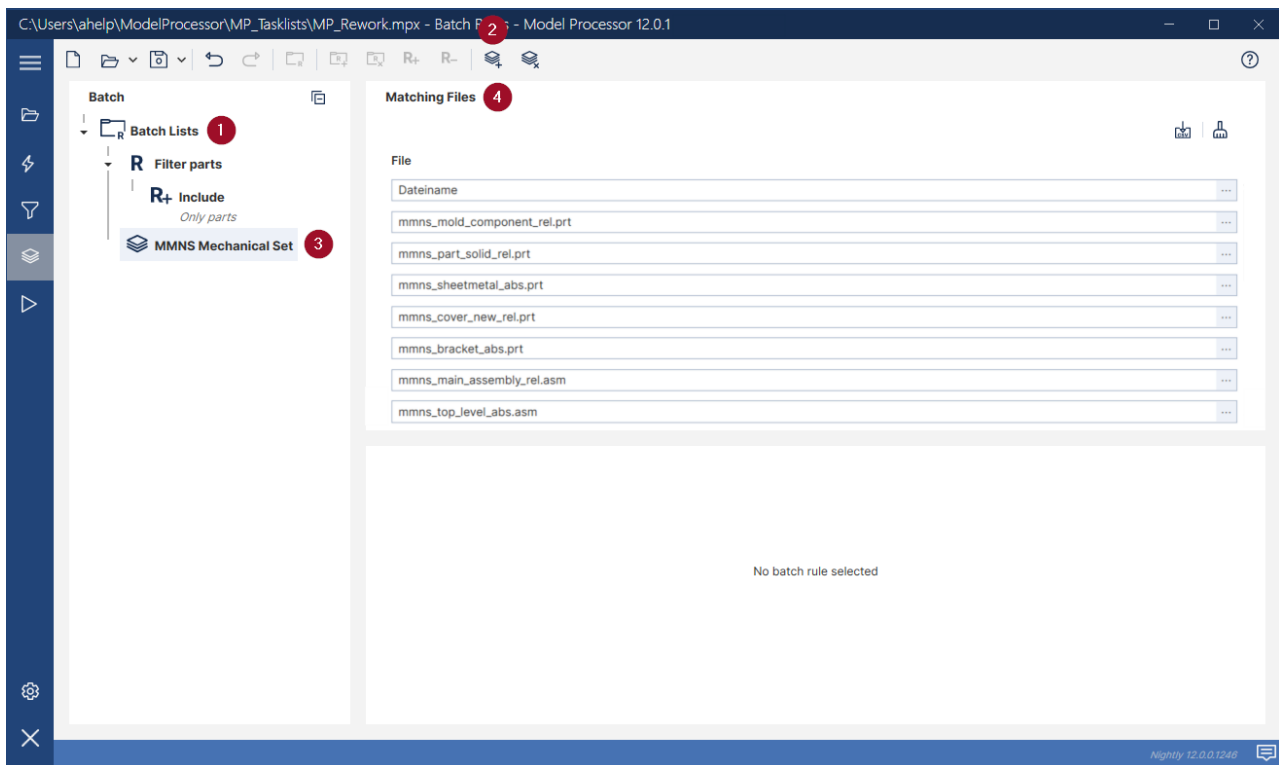
If a set is selected → the files that remain after all rules have been applied are displayed.

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

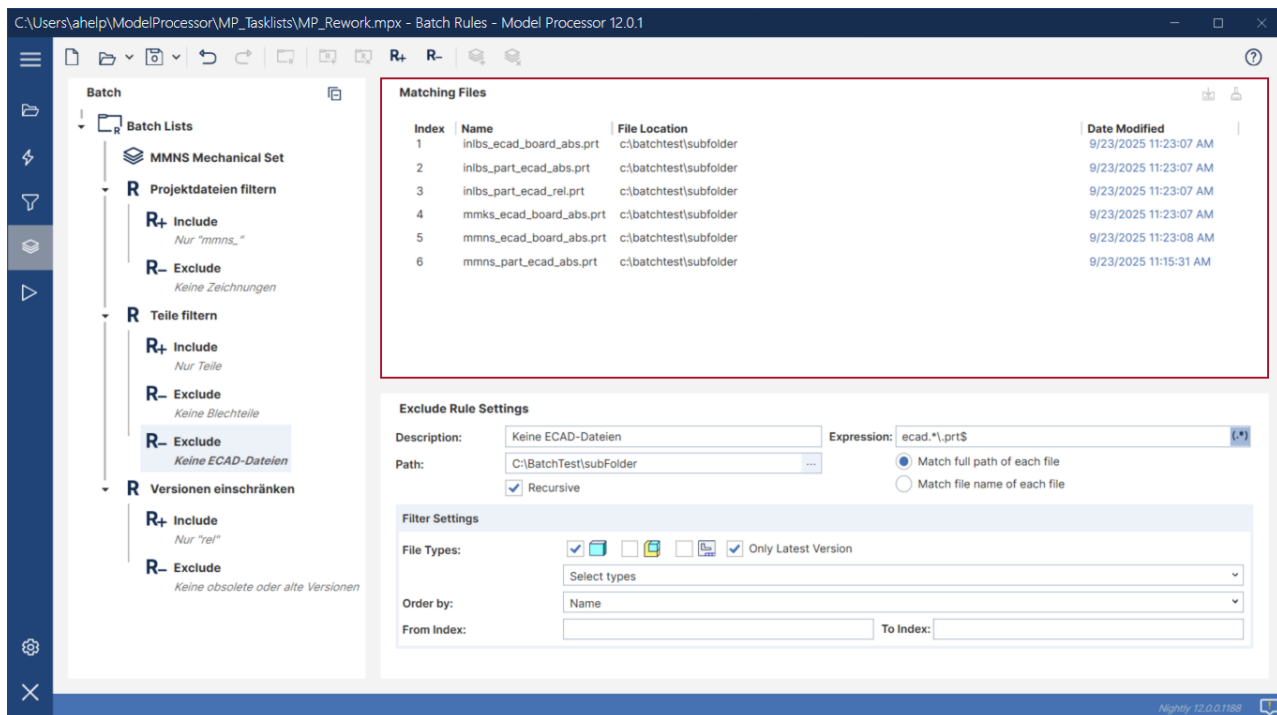
In addition to rules, you can also create a file list.



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.

9 Run

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

Prerequisites for executing the task lists

1. Edit task lists

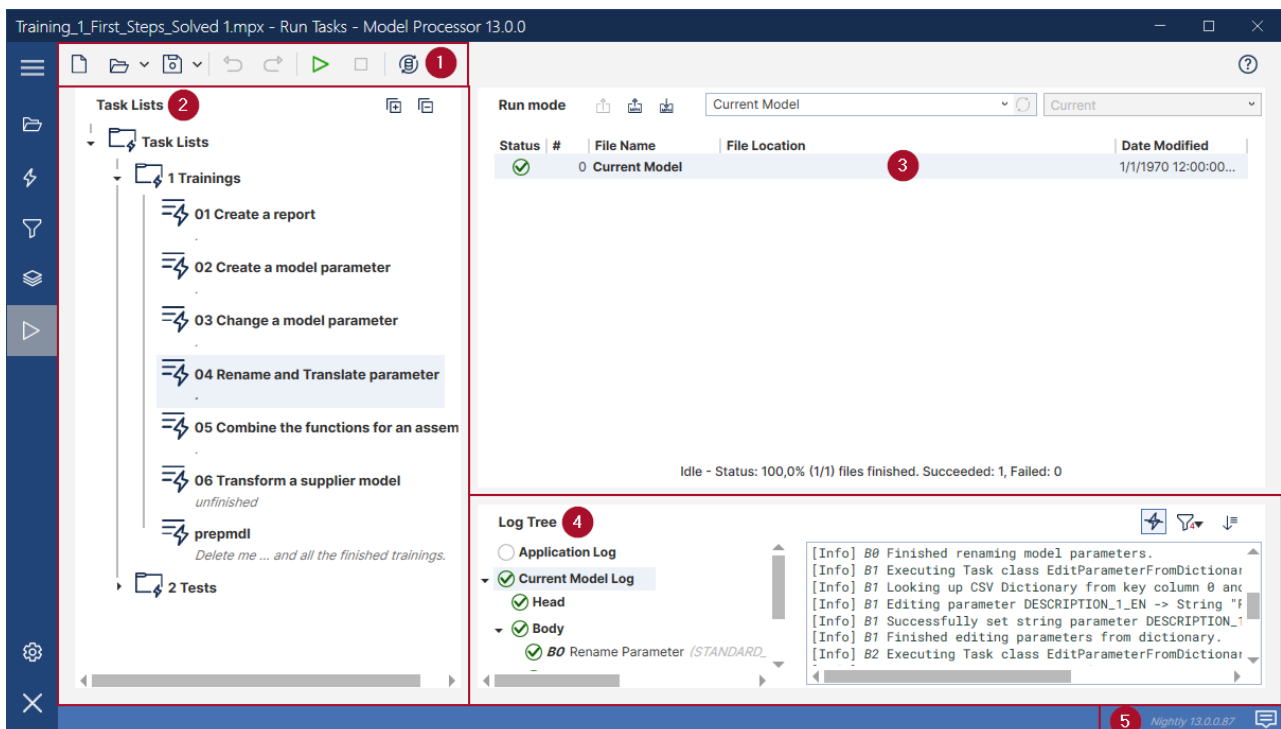
- Install Creo Parametric
- Install GENIUS TOOLS Model Processor and register
- Start Creo Parametric
- Start GENIUS TOOLS Model Processor and establish a connection to Creo Parametric

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.

9.1 User interface

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



1. Command Bar

2. Task Lists

You will see an overview of the task lists available under [Tasks](#)⁴⁷. Select the task list you want to execute.

3. Files⁹⁸

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

4. Log Tree¹⁰⁰

Here you can see the revision status of the task list to be executed and communication log for displaying the revision status of the task list

5. Notifications

Shows whether updates are available.

Command bar

The command bar contains the following commands:

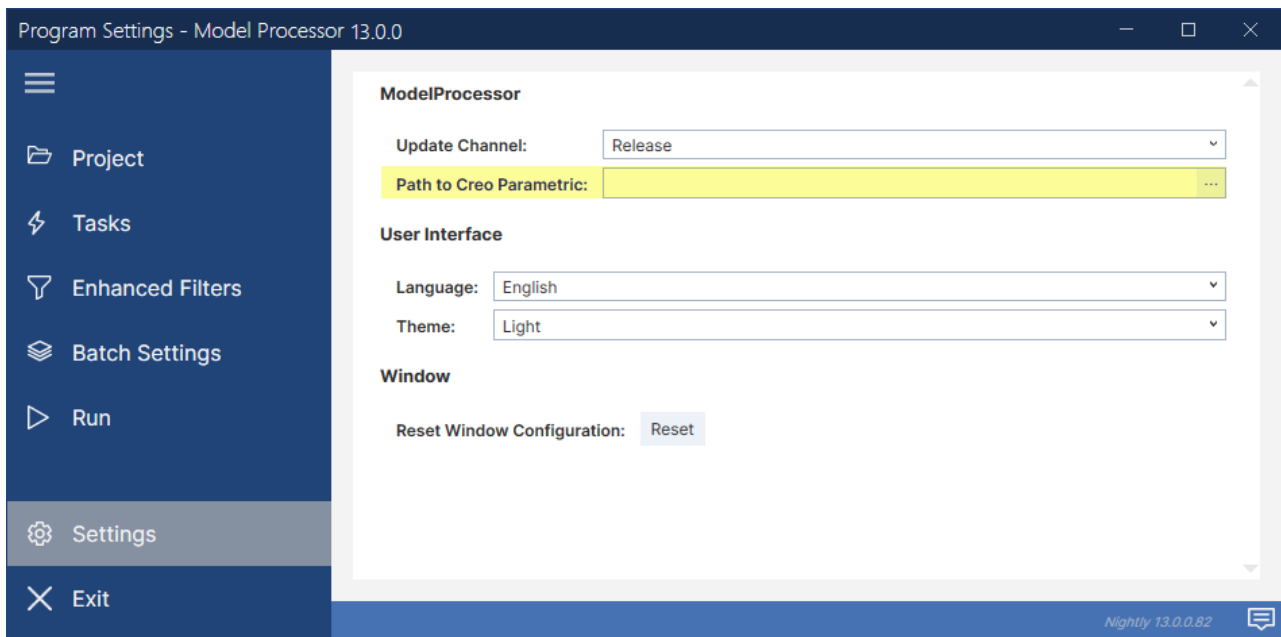
Icon	Name	Description
	New	Create a new empty project.
	Open	Open an existing project as MPX file.
	Save	Save the current project as .mpx file, including all assets and project settings that are displayed in the project tree. The arrow icon  opens a drop-down menu with the additional commands <i>Save 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.

9.2 Models in revision

To start revising the models, you must select both a [Run Mode](#)⁹⁸ and the [Batch Rules](#)⁹⁹ to be applied.

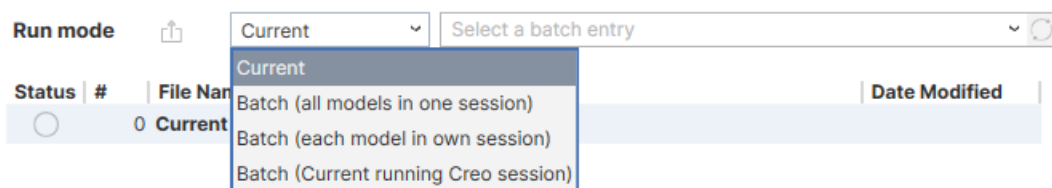
Prerequisite

Ensure that the Creo version to be used for the revision is selected in the *Settings* tab under [Path to Creo Parametric](#)¹⁰²:



Select Mode

Select a mode for executing the task list:

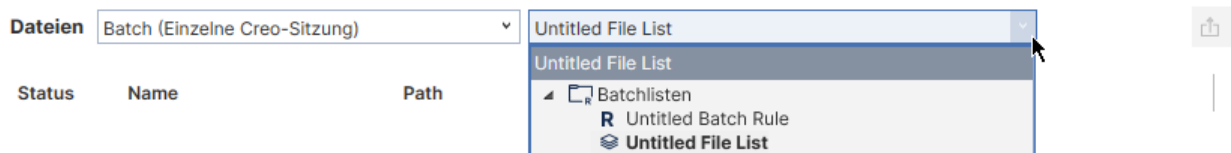


Select Creo session	Description	Is it possible to work with a PDM system?	Is a batch rule necessary for execution?
Current model	The model that is in the active window of Creo at the time the revision is started will	yes	no

Select Creo session	Description	Is it possible to work with a PDM system?	Is a batch rule necessary for execution?
	be revised. If there is no model there, the revision will be canceled after Head is executed and completed with Foot.		
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
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](#).⁸⁷

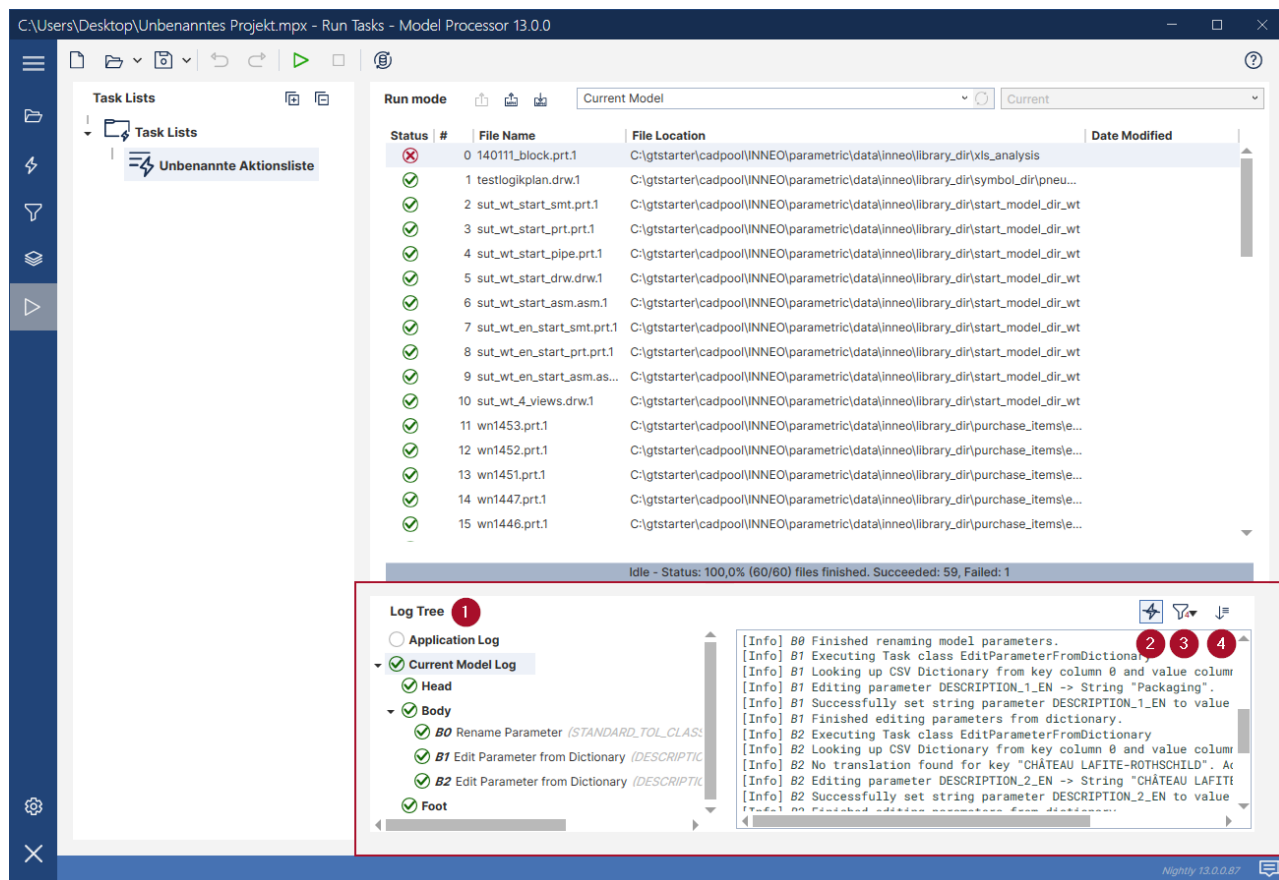


Start revision

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](#) ¹⁰⁰.

9.3 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* .

On the right side you will see the 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](#)¹⁰². You can change the text size by holding down the Ctrl key and scrolling with the mouse.

2. Show Disabled Tasks

Displays disabled tasks in the log tree.

3. Log Levels

Select the log levels to be displayed in the log tree.

- Trace
- Debug
- Info
- Warning
- Error
- Fatal

4. Enable Auto-Scroll

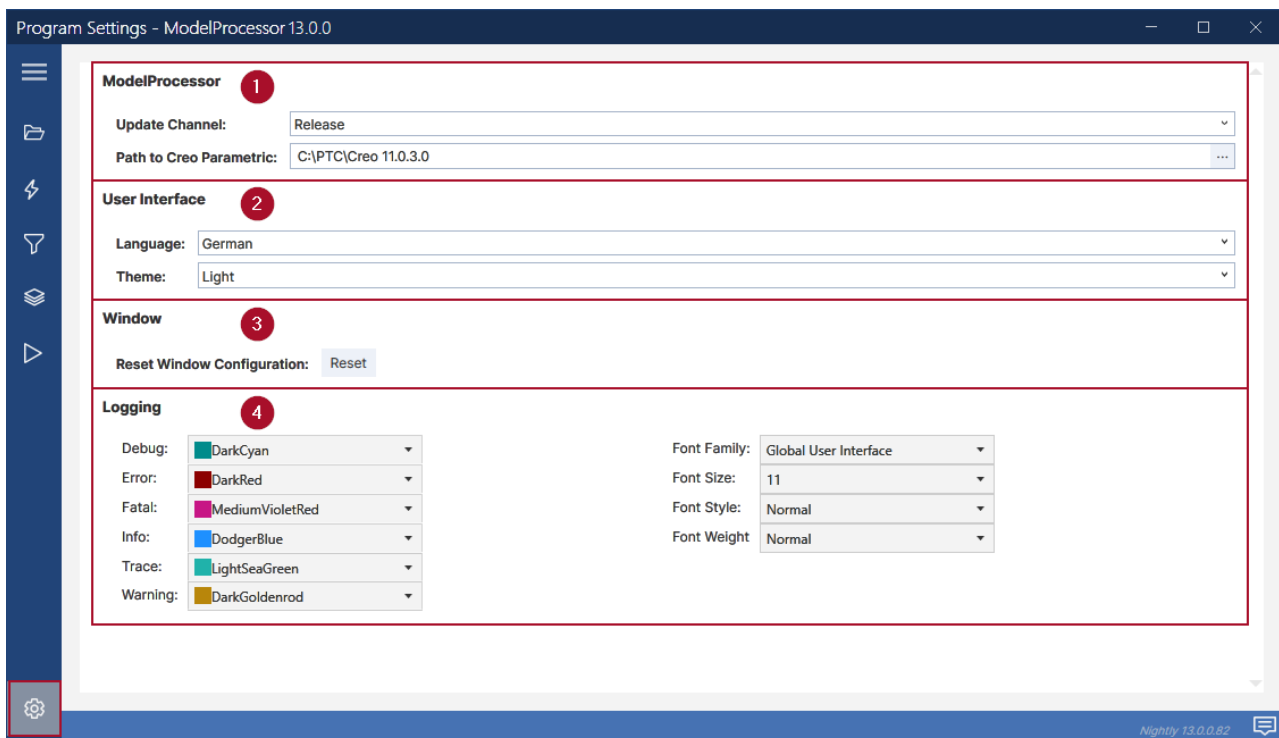
Enables auto-scroll as soon as new log lines are written. You can disable auto-scroll by manually scrolling or clicking in the log.

10 Settings

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

10.1 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

11 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](#)¹⁰⁹

[Set Appearance from RGB](#)¹⁰⁹



Body

[Delete Body](#)¹¹³

[Rename Body](#)¹¹⁴

[Show/Hide Body](#)¹¹⁵



Combined View

[Add Combined View](#)¹¹⁷

[Delete Combined View](#)¹¹⁸

[Edit Combined View](#)¹¹⁹

[Edit Default Combined View](#)¹²¹

[Set Combined View](#)¹²²



Cross Section

[Add Cross Section](#)¹²³

[Delete Cross Section](#)¹²⁴

[Set Cross Section](#)¹²⁴

[Update all Cross Sections](#)¹²⁵



Drawing

[Edit Drawing Note from Dictionary](#)¹²⁵

[Remove All Annotations](#)¹²⁷

[Remove Unused Drawing Models](#)¹²⁷

[Replace Drawing Format](#)¹²⁷

[Replace Drawing Model](#)¹²⁹

[Replace View Model Display](#)¹²⁹

[Set Current Drawing Model](#)¹³⁰

[Set Current Sheet Scale](#)¹³¹

[Show Drawing Format](#)¹³¹

[Show Unbend Features on Views](#)¹³¹



Drawing Note

[Add Note](#)¹³²

[Delete Note](#)¹³³

[Edit Model Notes from File](#)¹³⁴

**Drawing Note**[Move Note](#) ¹³⁵**Drawing Symbol**[Add Symbol](#) ¹³⁶[Change Symbol Group Variant](#) ¹³⁷[Create Data Matrix Code Symbol](#) ¹³⁸[Create PDF417 Barcode Symbol](#) ¹³⁹[Create QR Code Symbol](#) ¹⁴⁰[Delete Symbol](#) ¹⁴²[Move Symbol](#) ¹⁴³[Remove Symbol Paths](#) ¹⁴⁴**Drawing Table**[Add Table](#) ¹⁴⁴[Delete Table](#) ¹⁴⁵[Move Table](#) ¹⁴⁶**Environment**[Close All Open Windows](#) ¹⁴⁷[Erase Undisplayed Models](#) ¹⁴⁸[Load Config from User Variables](#) ¹⁴⁸[Repaint View](#) ¹⁴⁸[Run Javascript](#) ¹⁴⁹[Save Config to User Variables](#) ¹⁴⁹[Set Config Options](#) ¹⁵⁰[Set Environment Variable](#) ¹⁵¹[Set Working Directory](#) ¹⁵¹[Start Mapkey](#) ¹⁵²[Start MS-DOS Command](#) ¹⁵³[Start Plugin Function](#) ¹⁵⁵[Start PowerShell Command](#) ¹⁵⁵[Start Python Script](#) ¹⁵⁷[Start Trail File](#) ¹⁵⁸[Transform XSLT](#) ¹⁵⁸[Write to Creo Log](#) ¹⁵⁹[Write to Model Data](#) ¹⁵⁹**Explode State**[Add Explode State](#) ¹⁶⁰[Delete Explode State](#) ¹⁶¹[Set Explode State](#) ¹⁶¹[Toggle Explode State](#) ¹⁶²**Export**[Export 2D PDF](#) ¹⁶³

**Export**

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- [Export ACIS \(SAT\)](#) ¹⁶⁶
- [Export Creo View](#) ¹⁶⁷
- [Export DWG](#) ¹⁶⁹
- [Export DXF](#) ¹⁷⁰
- [Export Feature Tree](#) ¹⁷¹
- [Export IGES](#) ¹⁷²
- [Export JPG](#) ¹⁷⁴
- [Export Neutral](#) ¹⁷⁵
- [Export Parasolid](#) ¹⁷⁶
- [Export Step](#) ¹⁷⁷
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- [Split up Family Table](#) ¹⁸²
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**File**

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- [Group](#) ¹⁸⁷
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11.1 Appearance

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

11.1.1 Clear Apperance

This task deletes one or more specified color effects.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

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 [RegEx](#)³⁷⁴. 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](#)⁷⁵.

11.1.2 Set Appearance from RGB

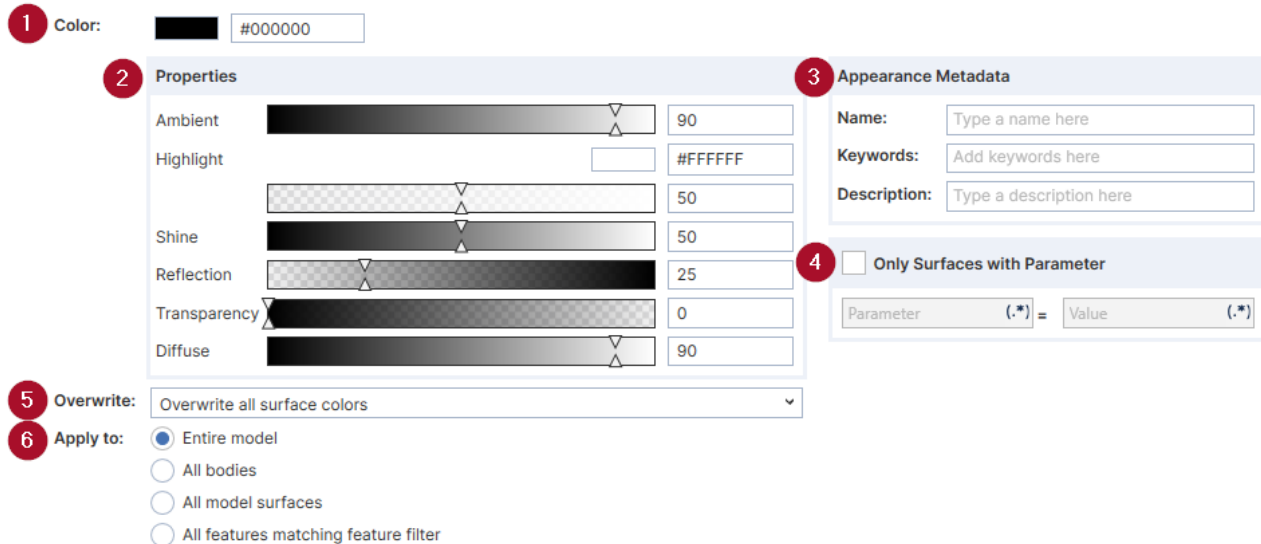
This task changes the appearance of the model to a defined color. In addition to the color to be set, you can also set the color properties from the Appearances Manager.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



The screenshot shows the 'Model filter' settings dialog with the following components:

- 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: slider at 90
 - Highlight: input field with #FFFFFF
 - Shine: slider at 50
 - Reflection: slider at 25
 - Transparency: slider at 0
 - Diffuse: slider at 90
- 3 Appearance Metadata:** A section with text input fields for:
 - Name: Type a name here
 - Keywords: Add keywords here
 - Description: Type a description here
- 4 Only Surfaces with Parameter:** A checkbox section with a text input field for a parameter and a value, both with (.*) wildcards.
- 5 Overwrite:** A dropdown menu set to 'Overwrite all surface colors'.
- 6 Apply to:** A radio button group with four options:
 - ☒ Entire model
 - ☐ 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](#)¹⁵¹ 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. You can use [RegEx](#)³⁷⁴. The icon (.*³⁷⁴) opens the RegEx Editor.

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.

11.1.2.1 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](#)⁵⁴.

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		<input type="text" value="90"/>
Highlight		<input type="text" value="#FFFFFF"/>
		<input type="text" value="50"/>
Shine		<input type="text" value="50"/>
Reflection		<input type="text" value="25"/>
Transparency		<input type="text" value="0"/>
Diffuse		<input type="text" value="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:

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](#)⁶⁷.

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.

11.2 Body

This category contains tasks that modify bodies in multibody assemblies.

11.2.1 Delete Body

This task deletes bodies from the current multibody part.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

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. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

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*.

Tip: You can use [Variables](#)³⁶³.

11.2.2 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](#)⁵⁴.

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. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

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*.

Tip: You can use [Variables](#)³⁶³.

11.2.3 Show/Hide Body

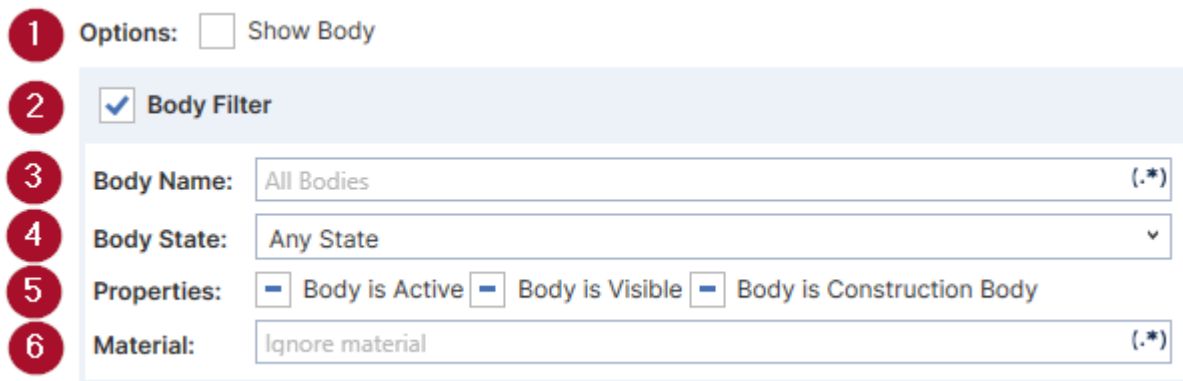
This task displays or hides all applicable bodies from the current multibody part.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts

The **task-specific** settings are:



1 Options: ☐ Show Body

2 ☒ Body Filter

3 Body Name: All Bodies (.)

4 Body State: Any State

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

6 Material: 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. You can use [Regex](#)³⁷⁴. The icon (.) opens the RegEx Editor.

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*.

Tip: You can use [Variables](#)³⁶³.

11.3 Combined View

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

11.3.1 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 Name:

Part & Assembly

2 Layer State: (.)

3 Orientation: (.)

4 Simplified Representation: (.)

Cross Section: (.) **5** **6**

7 Options: ☒ Annotations ☒ Supplemental Geometry

Assembly Only

8 Explode State: (.) ☒ Show exploded

9 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. You can use [RegEx](#)³⁷⁴. The icon (.) opens the RegEx Editor.

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.

6. Cross Section Visibility Mode

Select a visibility mode for the cross section:

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

7. Options

- *Annotations*

Enable to display annotations in the new combined view.

- *Supplemental Geometry*

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

8. 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*.

9. 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.

Tip: You can use [Variables](#)³⁶³.

11.3.2 Delete Combined View

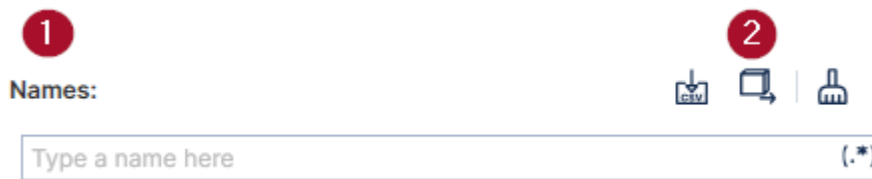
This task deletes a combined view. If you use regular expressions or wildcards, you can delete multiple combined views.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



1. Names

Enter the name of the combined view to be deleted. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

2. 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.

Tip: You can use [Variables](#)³⁶³.

11.3.3 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](#)⁵⁴.

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

(.*)

2

Part & Assembly

Layer State:

Do not change assigned layer state

(.*)

☐ Reset

Orientation:

Do not change assigned orientation

(.*)

☐ Reset

Simplified Representation:

Do not change assigned simplified representation

(.*)

☐ Reset

Cross Section:

Do not change assigned cross section

(.*)

Front View

☐ Reset

Options:

☐ Annotations

☐ Supplemental Geometry

3

Assembly Only

Explode State:

Do not change assigned explode state

(.*)

☐ Show exploded

☐ Reset

Style State:

Do not change assigned style state

(.*)

☐ Reset

1. Name

Enter the name of the combined view to be added. You can use [RegEx](#)³⁷⁴. The icon **(.*)** opens the RegEx Editor.

2. Part & Assembly

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.

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.

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.

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*

Options

- *Annotations*
Enable to display annotations in the combined view.
- *Supplemental Geometry*
Activate to display the supplementary geometry.

3. Assembly Only

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.

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.

Tip: You can use [Variables](#)³⁶³.

11.3.4 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](#)⁵⁴.

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. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

– *Reset*

When enabled, it resets the slide state of the default view to the default setting.

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.

Tip: You can use [Variables](#)³⁶³.

11.3.5 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](#)⁵⁴.

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 [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

Tip: You can use [Variables](#)³⁶³.

11.4 Cross Section

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

11.4.1 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

The form consists of five numbered steps, each with a label and a corresponding input field:

- 1 Name:** A text input field with the placeholder text "Type a cross section name here".
- 2 Type:** A dropdown menu currently showing "Parallel".
- 3 Reference Plane:** A text input field with the placeholder text "Type the name of a datum plane here" and a "(.*)" icon on the right.
- 4 Flip Direction:** A checkbox labeled "Flip Direction".
- 5 Distance:** A text input field with the value "0".

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. You can use [RegEx](#)³⁷⁴. The icon **(.*)** opens the RegEx Editor.

4. Flip Direction

If this option is enabled, the direction of the cross-section relative to the *reference plane* (3) is flipped.

5. Distance

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

Tip: You can use [Variables](#)³⁶³.

11.4.2 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 Names:  

(.)

1. Names

Enter the name of the Cross Section to be deleted. You can use [RegEx](#)³⁷⁴. The icon (.) opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

Tip: You can use [Variables](#)³⁶³.

11.4.3 Set Cross Section

This task sets the current active cross section to a cross section with the given name and activates it.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

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*

Toggles the specified cross section. If a cross section is enabled, it is disabled, and vice versa.

- *Enabled*

Activates the specified cross section if none is currently active.

- *Disabled*

Deactivates the current cross section if a cross section is currently active.

2. Cross Section

Enter the name of the cross section to be set. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

Tip: You can use [Variables](#)³⁶³.

11.4.4 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

11.5 Drawing

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

11.5.1 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](#)⁵⁴.

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: v

5 CSV Format-specific Settings

Line Breaks: v

Encoding: v

Separator Character: v

Columns: (.*), (.*)

Ignore: ☐ () ☐ [] ☐ { }

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

7 If no translation found: v

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

Either specify the path to the file(s) or directory(ies) to be copied, or browse the file system using the *Browse* button .

4. Format

List of formats to choose from:

- CSV
- SQLite
- JSON

5. Format-specific Settings

Specify settings for CSV, SQLite, or JSON. You can use [RegEx](#)³⁷⁴. The icon (.*³⁷⁴) opens the RegEx Editor.

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.

Tip: You can use [Variables](#)³⁶³.

11.5.2 Remove All Annotations

This task removes all annotations from a drawing.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

11.5.3 Remove Unused Drawing Models

This task removes all unused drawing models.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

11.5.4 Replace Drawing Format

This task replaces one or more drawing formats.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 **Format Folder:** Load from PDM system with preceding @pro_format_dir@

2 **Multi-Model Mode:** ☒ Active model
☐ Model selected by frame

3 **Options:** ☐ Change the current drawing sheet only

4 **From Format** Any format (.)

5 **To Format** Type a format here

6 **Keep Table (col:row)** Delete all format tables

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*

If this option is enabled, only the current sheet of the current drawing will be changed.

4. From Format



Imports content from a CSV file to fill the input fields.



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

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. You can use [RegEx](#)³⁷⁴. The icon (.) opens the RegEx Editor.

5. To Format

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

6. 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.

Tip: You can use [Variables](#)³⁶³.

11.5.5 Replace Drawing Model

This action replaces the currently used of a drawing model in the current drawing with another model instance from the same family table.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1	Old Instance:	<input type="text" value="Replace current drawing model"/> (.)
2	New Instance:	<input type="text" value="Type a replacement instance name here"/>

1. Old Instance

Specify the model instance from the current drawing that you want to replace. You can use [RegEx](#)³⁷⁴. The icon (.) opens the RegEx Editor.

2. New Instance

Specify the model instance from the same family table that is to replace the existing instance.

Tip: You can use [Variables](#)³⁶³.

11.5.6 Replace View Model Display

This task replaces the model display style of saved views.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1	From:	<input type="text" value="All"/>
2	To:	<input type="text" value="Hidden Line"/>

1. From

Select the model display style that matches this value:

- All

- *Default*
- *Follow Environment*
- *Wireframe*
- *Hidden Line*
- *No Hidden*
- *Shaded*

2. To

Select a new model display style to match saved views:

- *All*
- *Default*
- *Follow Environment*
- *Wireframe*
- *Hidden Line*
- *No Hidden*
- *Shaded*

11.5.7 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](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1

Model:

Type a model name here

(.*)

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

[RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

Tip: You can use [Variables](#)³⁶³.

11.5.8 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](#)⁵⁴.

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.

Tip: You can use [Variables](#)³⁶³.

11.5.9 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](#)⁵⁴.

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.

11.5.10 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](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

11.6 Drawing Note

This category contains tasks which change notes on drawings.

11.6.1 Add Note

This task inserts drawing notes from a txt file into the current drawing at specified positions.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 **Note File:** ...

2 **Text Height:**

3 **Format Name** (.)

4 **Sheet Number**

5 **Position (x:y)**

1. Note File

Specify the path to the file(s) or directories(s) to be copied or browse the file system using the *Browse* button .

2. Text Height

Enter the height for the inserted note. If no height is specified, the default text height is used.

3. Format Name

 Imports content from a CSV file to fill the input fields.

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

Enter the format name to add the note only to pages with that format. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

4. Sheet Number

Enter the sheet number to add the note to only this sheet.

5. Position (x:y)

Enter the position for the note. You can also originate positioning from corners other than the bottom left using negative numbers:

- Bottom left: 0:0
- Top left: 0:-100
- Bottom right: -100:0
- Top right: -100:-100

Tip: You can use [Variables](#)³⁶³.

11.6.2 Delete Note

This task deletes matching drawing notes from the current drawing.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

 | 

1	2	3	4
Format Name	Sheet Number	Position (x:y)	Note Text
<input type="text" value="All formats"/> (.*)	<input type="text" value="All sheets"/>	<input type="text" value="All positions (*:*)"/>	<input type="text" value="All note texts"/> (.*)

1. Format Name

 Imports content from a CSV file to fill the input fields.

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

Enter the format name to add the note only to pages with that format. You can use [RegEx](#)³⁷⁴. The icon (.*) opens the RegEx Editor.

2. Sheet Number

Enter the sheet number to add the note to only this sheet.

3. Position (x:y)

Enter the position for the note. You can also originate positioning from corners other than the bottom left using negative numbers:

- Bottom left: 0:0
- Top left: 0:-100

- Bottom right: -100:0
- Top right: -100:-100

4. Note Text

Enter the expression to delete notes whose text matches it.

Tip: You can use [Variables](#)³⁶³.

11.6.3 Edit Model Notes from File

This task reads replacements for model notes from a CSV file and applies them to drawing notes.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 **Model Note File:** Type or browse for a model note file ...

2 **CSV Options**

Separator Character: Semicolon (;)

3 ☐ Change the current drawing sheet only

1. Model Note File

Either specify the path to the file(s) or directory(ies) to be copied to the model note file, or browse the file system using the *Browse* button .

2. CSV Options

Select the separator character used in the CSV file:

- Comma (',')
- Semicolon (;)

3. Change the current drawing sheet only

If this option is enabled, only the model notes on the current drawing sheet are modified. Otherwise, the model notes on all drawing sheets are modified.

Tip: You can use [Variables](#)³⁶³.

Structure of the CSV file

There are two possible types of CSV files:

1. Item value old; Item value
Replaces a value in any cell that corresponds to the value of `Item value old` with `Item value`.
2. Filename;ID; Item value
Replaces a value in the cell that has the same ID and is in the same part.

Do not forget to also specify the title row within the file.

Example (the displayed parameter `LANG` is replaced with `LOCAL_LANG`, both read from the first part):

```
Item value old;Item value
&lang:1;&local_lang:1
```

The notes that are to be filled must already exist in the model.

`@project_dir@` is located at: *Project directory/reports*

Information about variables for the text box (1) can be found at [variables](#)³⁶³.

Information about description and model filters can be found at [model filter](#)³²⁹.

11.6.4 Move Note

This task moves matching drawing notes to the specified position.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

 | 

1	2	3	4	5
Format Name	Sheet Number	Old Position (x:y)	Note Text	New Position (x:y)
All formats (.*)	All sheets	All positions (*.*)	All note texts (.*)	Type a position here

1. Format Name

 Imports content from a CSV file to fill the input fields.

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

Enter the format name to add the note only to pages with that format. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

2. Sheet Number

Enter the sheet number to add the note to only this sheet.

3. Old Position (x:y)

Enter the position for the note. You can also originate positioning from corners other than the bottom left using negative numbers:

- Bottom left: 0:0
- Top left: 0:-100
- Bottom right: -100:0
- Top right: -100:-100

4. Note Text

Enter the expression to delete notes whose text matches it.

5. New Position (x:y)

Enter the new position for the note.

- Bottom left: 0:0
- Top left: 0:-100
- Bottom right: -100:0
- Top right: -100:-100

Tip: You can use [Variables](#)³⁶³.

11.7 Drawing Symbol

This category contains tasks which change symbol definitions on drawings.

11.7.1 Add Symbol

This task adds a symbol from a SYM file to the current drawing at the specified positions.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1

Symbol File:

Type the path to a symbol file here or browse for a file

...

2

Format Name

All formats

3

Sheet Number

All sheets

4

Position (x:y)

Type a symbol position here





1. Symbol File

Either specify the path to the file(s) or directory(ies) to be copied, or browse the file system using the *Browse* button .

2. Format Name

Enter the format name to add the symbol only to pages with that format. You can use [RegEx](#)  ³⁷⁴. The icon  opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

3. Sheet Number

Enter the sheet number to add the symbol to only this sheet.

4. Position (x:y)

Enter the position for the symbol. You can also originate positioning from corners other than the bottom left using negative numbers:

- Bottom left: 0:0
- Top left: 0:-100
- Bottom right: -100:0
- Top right: -100:-100

Tip: You can use [Variables](#)  ³⁶³.

11.7.2 Change Symbol Group Variant

This task changes the grouping option for matching symbols on the current drawing.

The **cross-task settings** can be found in the chapter [General task settings](#)  ⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

 | 

1	2	3	4	5
Format Name	Sheet Number	Position (x:y)	Symbol Name	New Variant Name
All formats 	All sheets	All positions (*:*)	All symbol name 	Type a variant name

1. Format Name

Enter the format name to change the symbol only for the sheets with that format. You can use [RegEx](#)  ³⁷⁴. The icon  opens the RegEx Editor.



Imports content from a CSV file to fill the input fields.



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

2. Sheet Number

Enter the sheet number to change the symbol to only this sheet.

3. Position (x:y)

Enter the position for the symbol. You can also originate positioning from corners other than the bottom left using negative numbers:

- Bottom left: 0:0
- Top left: 0:-100
- Bottom right: -100:0
- Top right: -100:-100

4. Symbol Name

Enter the expression to change symbols whose text matches it.

5. New Variant Name

Enter the name of the group variant for which the corresponding symbols are enabled.

Tip: You can use [Variables](#)³⁶³.

11.7.3 Create Data Matrix Code Symbol

This task creates a data matrix code symbol on the current drawing. Use the [Add Symbol](#)¹³⁶ task to add the symbol.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 Symbol Name: DMSymbol

2 Pixel Size: 1.0

3 Color: Drawing

4 Type the Data Matrix value here

1. Symbol Name

Enter the name of the data matrix code symbol.

2. Pixel Size

Enter the size for each data matrix pixel.

3. Color

Choose the color for the data matrix code symbol.

4. Data Matrix Value

Enter the text encoded in the data matrix code. Multiple lines are supported.

Tip: You can use [Variables](#) .

11.7.4 Create PDF417 Barcode Symbol

This task creates a PDF417 barcode symbol on the current drawing. Use the [Add Symbol](#)  task to add the symbol.

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

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1	Symbol Name:	BCSymbol
2	Error Correction Level:	Automatic
3	Color:	Drawing
4	Pixel Size:	1.0
5	Pixel Slim:	0.0
6	Type the PDF417 barcode value here	

1. Symbol Name

Enter the name of the PDF417 barcode symbol.

2. Error Correction Level

Choose the error correction level from 0-8 or automatic. Automatic selection lets the barcode generator choose a suitable level.

3. Color

Choose the color for the PDF417 barcode symbol.

4. Pixel Size

Enter the size for each PDF417 barcode pixel.

5. Pixel Slim

Enter the amount by which each PDF417 barcode pixel is narrowed.

6. Barcode Value

Enter the text encoded in the PDF417 barcode symbol. Multiple lines are supported.

Tip: You can use [Variables](#)³⁶³.

11.7.5 Create QR Code Symbol

This task creates a QR code symbol on the current drawing. Use the [Add Symbol](#)¹³⁶ task to add the symbol.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

The screenshot shows a web interface for generating QR codes. It features seven numbered steps: 1. Symbol Name (input field with 'QRSymbol'), 2. Error Correction Level (dropdown menu with 'High'), 3. Encoding (dropdown menu with '8-bit'), 4. Color (dropdown menu with 'Drawing'), 5. Pixel Size (input field with '1.0'), 6. Case sensitive (checkbox checked), and 7. A large text area for the QR code value with the placeholder text 'Type the QR code value here'.

1. Symbol Name

Enter the name of the QR code symbol.

2. Error Correction Level

Choose the error correction level. Automatic selection lets the barcode generator choose a suitable level.

- *Low*
- *Medium*
- *Quartile*
- *High*

3. Encoding

Choose the encoding mode for the QR code symbol.

- *Numeric*
- *Alphanumeric*
- *8-bit*
- *Kanji (Shift-JIS)*
- *ECI*
- *FNC1, first position*

4. Color

Choose the color for the QR code symbol.

5. Pixel Size

Enter the size for each QR code pixel.

6. Case sensitive

Check the box to preserve uppercase and lowercase characters when encoding the QR code value.

7. Barcode Value

Enter the text encoded in the QR code symbol. Multiple lines are supported.

Tip: You can use [Variables](#)  363.

11.7.6 Delete Symbol

This task deletes matching drawing symbols from the current drawing.

The **cross-task settings** can be found in the chapter [General task settings](#)  54.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

 | 

1 Format Name	2 Sheet Number	3 Position (x:y)	4 Symbol Name
<input style="width: 100%;" type="text" value="All formats"/> <small>(.*)</small>	<input style="width: 100%;" type="text" value="All sheets"/>	<input style="width: 100%;" type="text" value="All positions (*:*)"/>	<input style="width: 100%;" type="text" value="All symbol names (.*)"/>

1. Format Name

Enter the format name to add the symbol only to pages with that format. You can use [RegEx](#)  374. The icon  opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

2. Sheet Number

Enter the sheet number to add the symbol to only this sheet.

3. Position (x:y)

Enter the position for the symbol. You can also originate positioning from corners other than the bottom left using negative numbers:

- Bottom left: 0:0
- Top left: 0:-100
- Bottom right: -100:0
- Top right: -100:-100

4. Symbol Name

Enter the expression to delete symbols whose text matches it.

Tip: You can use [Variables](#)³⁶³.

11.7.7 Move Symbol

This task moves matching drawing symbols to the specified position.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

 | 

1	2	3	4	5
Format Name	Sheet Number	Old Position (x:y)	Symbol Name	New Position (x:y)
<input style="width: 100%;" type="text" value="All formats"/> (.*)	<input style="width: 100%;" type="text" value="All sheets"/>	<input style="width: 100%;" type="text" value="All positions (*:*)"/>	<input style="width: 100%;" type="text" value="All symbol name (.*)"/>	<input style="width: 100%;" type="text" value="Type a position here"/>

1. Format Name

Enter the format name to add the note only to pages with that format. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

2. Sheet Number

Enter the sheet number to add the note to only this sheet.

3. Old Position (x:y)

Enter the position for the note. You can also originate positioning from corners other than the bottom left using negative numbers:

- Bottom left: 0:0
- Top left: 0:-100
- Bottom right: -100:0
- Top right: -100:-100

4. Symbol Name

Enter the expression to delete notes whose text matches it.

5. New Position (x:y)

Enter the new position for the note.

- Bottom left: 0:0
- Top left: 0:-100
- Bottom right: -100:0
- Top right: -100:-100

Tip: You can use [Variables](#)³⁶³.

11.7.8 Remove Symbol Paths

This task deletes explicitly defined paths in symbol definitions to make it easier to update the symbols.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 Filter: (.*)

1. Filter

Enter the symbol path which should be removed. You can use [RegEx](#)³⁷⁴. The icon (.*) opens the RegEx Editor.

Tip: You can use [Variables](#)³⁶³.

11.8 Drawing Table

This category contains tasks which edit drawing tables.

11.8.1 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](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 **Table File:** ...

2 **Format Name** (.)

3 **Sheet Number**

4 **Position (x:y)**

1. Table File

Specify the path to the table to be copied or browse the file system using the *Browse* button .

2. 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 [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

3. Sheet Number

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

4. 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.

Tip: You can use [Variables](#)³⁶³.

11.8.2 Delete Table

This task deletes one or more drawing tables.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

 |
 

1 Format Name
 (.*

2 Sheet No

3 Position (x:y)

4 Text:Column:Row
 (.*

1. 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". You can use [RegEx](#)³⁷⁴. The icon (.* opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

2. Sheet No

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

3. 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.

4. 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.

Tip: You can use [Variables](#)³⁶³.

11.8.3 Move Table

This task moves one or more drawing tables.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

 |
 

1 Format Name
 (.*

2 Sheet No

3 Old Position (x:y)

4 Text:Column:Row
 (.*

5 New Position (x:y)

1. Format Name

Enter a name for the drawing format so that only these tables are moved. You can use [RegEx](#)³⁷⁴. The icon (•*) opens the RegEx Editor.



Imports content from a CSV file to fill the input fields.



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

2. Sheet No

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

3. 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.

4. 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.

5. 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.

Tip: You can use [Variables](#)³⁶³.

11.9 Environment

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

11.9.1 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](#)⁵⁴.

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.

11.9.2 Erase Undisplayed Models

This task erases models that are not displayed.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

There are no other settings.

Tip: In most task lists, this function is only useful when used in the header or footer area.

11.9.3 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](#)⁵⁴.

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.

Tip: You can use [Variables](#)³⁶³.

11.9.4 Repaint View

This task redraws the current view.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

There are no other settings.

11.9.5 Run Javascript

This task executes a JavaScript script.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1 User Variable: Do not fill any 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. To search the text box, right-click to open the context menu and click *Search*. Alternatively, you can use the keyboard shortcut Ctrl + F.

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("");`

Tip: You can use [Variables](#)³⁶³.

11.9.6 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1 Name:

2 Config Keys:  

(.)

1. Name

Enter the name of the configuration.

2. Config Keys

Enter the configuration keys to be saved. You can use [RegEx](#)³⁷⁴. The icon (.) opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

Tip: You can use [Variables](#)³⁶³.

11.9.7 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

Config Options:  

1 (.) 2

1. 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 [RegEx](#)³⁷⁴. The icon (.) opens the RegEx Editor.

2. Configuration Value

Enter the value with which the configuration option is set.

Tip: You can use [Variables](#)³⁶³.

11.9.8 Set Environment Variable

This task sets an environment variable.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1	Variable Name:	<input type="text" value="Type a name here"/>
2	Variable Value:	<input type="text" value="Type a value here"/>

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.

Tip: You can use [Variables](#)³⁶³.

11.9.9 Set Working Directory

This task sets the current Creo working directory to the given folder.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1	Directory:	<input type="text" value="Type a path here"/>	...
---	------------	---	-----

1. Directory

Specify the directory or browse the file system using the *Browse* button .

Tip: You can use [Variables](#)³⁶³.

11.9.10 Start Mapkey

This task starts a mapkey.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

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](#)³⁶³ 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., @mdl@ must be replaced by “@@mdl@@”.

- 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.

To search the text box, right-click to open the context menu and click *Search*. Alternatively,

you can use the keyboard shortcut Ctrl + F.

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*

Filling out open/save dialogues automatically

Using Mapkeys to open and save dialog boxes results in error messages in Creo. You can work around these error messages by adding an extra line of code:

```
@mdlIn@;
```

Example

This Mapkey is used to export the current DTL file:

```
` ` html
~ Close `main_dlg_cur` `appl_casc`;
~ Command `ProCmdDwgProperties` ;
~ Activate `mdlprops_dlg` `OPTIONS_lay_Controls.push_Change.lay_instance`;
~ FocusOut `preferences` `InputOpt`;
~ Activate `preferences` `SaveAs`;
~ Trail ` ` ` `DLG_PREVIEW_POST` `file_open`;
~ Input `file_open` `Inputname` `a`;
~ Update `file_open` `Inputname` `a`;
~ Command `ProFileSelPushOpen@context_dlg_open_cmd` ;
@mdlIn@;
~ Activate `preferences` `Close`;
~ Activate `mdlprops_dlg` `DlgClose_push`;
`` `ctivate `file_saveas` `OK`;
```

11.9.11 Start MS-DOS Command

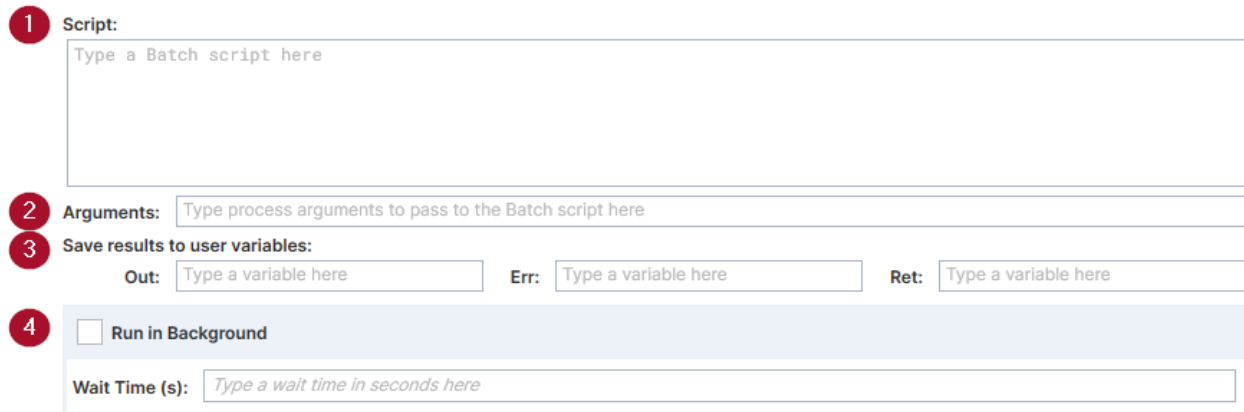
This task executes a system command.

The **cross-task settings** can be found in the chapter [General task settings](#) ⁵⁴.

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 "%*"`

To search the text box, right-click to open the context menu and click *Search*. Alternatively, you can use the keyboard shortcut Ctrl + F.

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.

Tip: You can use [Variables](#)³⁶³.

11.9.12 Start Plugin Function

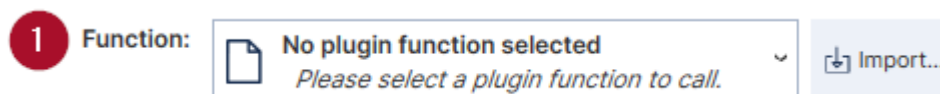
This task starts a function of a Creo add-on application (plugin) with given arguments. No mapkeys are required for this.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:



1. Function

Select the function from the Creo plugin with the given arguments.

2. Import

Import a function call definition file into the current task.

11.9.13 Start PowerShell Command

This task starts a PowerShell command.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

The screenshot shows a configuration window with five numbered steps:

- Script:** A large text area for entering the script.
- Arguments:** A text box with the placeholder "Type process arguments to pass to the PowerShell script here".
- Save results to user variables:** Three text boxes labeled "Out:", "Err:", and "Ret:", each with the placeholder "Type a variable here".
- Run in Background:** A checkbox labeled "Run in Background".
- Wait Time (s):** A text box with the placeholder "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 "%*"`

To search the text box, right-click to open the context menu and click *Search*. Alternatively, you can use the keyboard shortcut Ctrl + F.

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.

Tip: You can use [Variables](#) ³⁶³.

11.9.14 Start Python Script

This task starts a Python script.

The **cross-task settings** can be found in the chapter [General task settings](#) ⁵⁴.

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. To search the text box, right-click to open the context menu and click *Search*. Alternatively, you can use the keyboard shortcut Ctrl + F.

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.

Tip: You can use [Variables](#)  363.

11.9.15 Start Trail File

This task executes a trail file.

The **cross-task settings** can be found in the chapter [General task settings](#)  54.

Model filter

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

The **task-specific** settings are:

1 Trail File: 

1. Trail File

Either specify the path to the file(s) or directory(ies) to be copied, or browse the file system using the *Browse* button .

11.9.16 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](#)  54.

Model filter

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

The **task-specific** settings are:

1 Input Variable: Type an input variable here

2 Output Variable: Same as input 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. To search the text box, right-click to open the context menu and click *Search*. Alternatively, you can use the keyboard shortcut Ctrl + F.

Tip: You can use [Variables](#)³⁶³.

11.9.17 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1 Message: Type a message here

1. Message

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

Tip: You can use [Variables](#)³⁶³.

11.9.18 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](#)⁵⁴.

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.

Tip: You can use [Variables](#)³⁶³.

11.10 Explode State

This category contains tasks which rework explode states.

11.10.1 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](#)⁵⁴.

Model filter

This task can revise the following models: Assemblies

The **task-specific** settings are:

- 1 **Name:**

1. Name

Enter the name of the new explode state.

Tip: You can use [Variables](#)³⁶³.

11.10.2 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](#)⁵⁴.

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 deleted. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

Tip: You can use [Variables](#)³⁶³.

11.10.3 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](#)⁵⁴.

Model filter

This task can revise the following models: Assemblies

The **task-specific** settings are:

1

Name:

(.*)

1. Name

Enter the name of the explode state to be set for the current assembly. You can use [RegEx](#)³⁷⁴. 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.

Tip: You can use [Variables](#)³⁶³.

11.10.4 Toggle Explode State

This task toggles the current explode state.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Assemblies

The **task-specific** settings are:



1. Toggle Mode

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

- *Toggle*

When this option is enabled, it toggles the current explosion status. If it is enabled, it is disabled, and vice versa.

- *Enable*

When this option is enabled, the current explosion status is enabled.

- *Disable*

When this option is enabled, the current explosion status is disabled.

11.11 Export

This category contains tasks which export models.

11.11.1 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](#)⁵⁴.

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	DPI:	200			
5	Font Stroke:	Use TrueType Fonts			
6	Color Depth:	Color			
7	Layer:	Visible			
8	Line Cap:	Butt			
9	Line Join:	Miter			
10	Format:	Normal			

1. Export Directory

Enter the path where the exported file is stored or browse the file system using the *Browse* button .

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 (1).
- *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.

Tip: You can use [Variables](#)³⁶³.

11.11.2 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](#)⁵⁴.

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 file you want to export will be saved or browse the file system using the *Browse* button .

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 (1).
- *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.

Tip: You can use [Variables](#) ³⁶³.

11.11.3 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](#) ⁵⁴.

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 or browse the file system using the *Browse* button .

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 (1).
- *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.

Tip: You can use [Variables](#) .

11.11.4 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](#) .

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 or browse the file system using the *Browse* button .

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 (1).
- *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.

Tip: You can use [Variables](#) .

11.11.5 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](#)⁵⁴.

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

1. Export Directory

Enter the path where the file you want to export will be saved or browse the file system using the *Browse* button .

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 (1).
- *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*

Tip: You can use [Variables](#) .

11.11.6 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](#) .

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...  Server **2**

3 Export file name: Type a file name here

☐ Export to model directory

☐ Overwrite

4 Export Profile: Use the Creo Parametric standard profile 

5 Sheet Configuration: ☒ All sheets
☐ Selected sheet
☐ All sheets as single files

1. Export Directory

Enter the path where the file you want to export will be saved or browse the file system using the *Browse* button .

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 (1).
- *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.

5. Sheet Configuration

– All sheets

If this option is selected, all sheets in the current drawing are exported into a single DXF file.

– Selected sheet

If this option is selected, only the selected sheet in the current drawing is exported.

– All sheets as single files

If this option is selected, all sheets in the current drawing are exported, and a separate DXF file is created for each sheet.

Tip: You can use [Variables](#)³⁶³.

11.11.7 Export Feature Tree

This task writes all elements and subelements of a feature into an XML file or a user variable.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1. File Name

Enter the path to an XML file where the feature tree should be written or browse the file system using the *Browse* button . You can use the variables @featID@, @featname@, and @featype@ to include the file name in the output.

Tip: Use the variables to create a file for each feature. If you specify a filename without variables, the file will contain the feature tree of the last feature.

2. Save Location

Select the location:

- *Client*
- *Server*

3. Variable Name

Enter the name of the variable name to which the feature tree should be written.

4. Feature Filter

Add the features to be removed via the feature filter tree, see [Feature Filter](#)⁷⁵.

11.11.8 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

The screenshot shows the 'Export IGES' task configuration window. It includes 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 'Browse' button (three dots). A dropdown menu is set to 'Client'.
- 2** (Callout pointing to the 'Client' dropdown)
- 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 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 or browse the file system using the *Browse* button .

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 (1).
- *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

Select how you want to export the assembly:

- *Flat File*

Export the current assembly to a flat file.

- *Multiple Files*

Export the current assembly to multiple files.

- *Assembly Parts*

Exports all components of the current assembly.

Tip: You can use [Variables](#) .

11.11.9 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](#)⁵⁴.

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 or browse the file system using the *Browse* button .

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 (1).
- *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.

Tip: You can use [Variables](#) .

11.11.10 Export Neutral

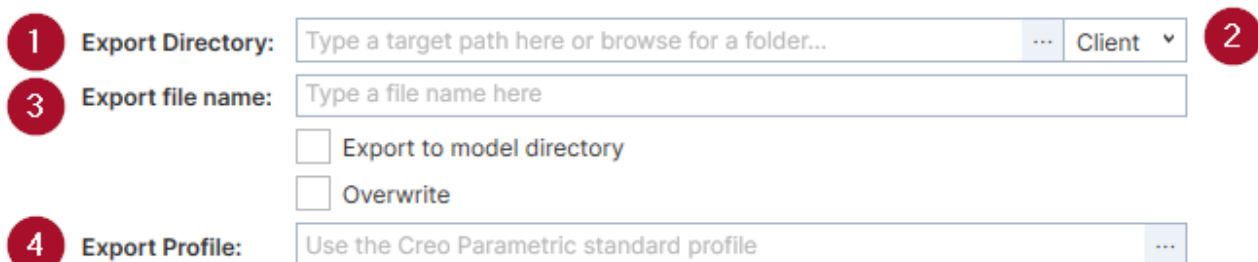
This task exports a model as a neutral file to a selectable location.

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

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 or browse the file system using the *Browse* button .

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 (1).

- *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.

Tip: You can use [Variables](#)³⁶³.

11.11.11 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](#)⁵⁴.

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 or browse the file system using the *Browse* button .

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 (1).
- *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.

Tip: You can use [Variables](#) ³⁶³.

11.11.12 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](#) ⁵⁴.

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 or browse the file system using the *Browse* button .

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 (1).
- *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.

Tip: You can use [Variables](#)³⁶³.

11.11.13 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](#)⁵⁴.

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... **2**

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

☐ Export to model directory

☐ Overwrite

4 **Output Mode:** ☒ ASCII ☐ Binary

☒ Allow negative values

Deviation Control

5 **Chord Height:** Find default chord height

6 **Angle Control:** Find default angle control

7 ☐ **Step Size:** Find default step size

8 ☐ Use Proportional Chord Heights

9 ☐ Use Proportional Step Sizes

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

1. Export Directory

Enter the path where the exported file is stored or browse the file system using the *Browse* button

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 (1).
- *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.

Tip: You can use [Variables](#)³⁶³.

11.11.14 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](#)⁵⁴.

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 or browse the file system using the *Browse* button

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 (1).
- *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)*

Tip: You can use [Variables](#)

11.11.15 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](#) .

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

1. Export Directory

Enter the path where the exported file is stored or browse the file system using the *Browse* button

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 (1).
- *Overwrite:* An existing file with this name will be overwritten.

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

Tip: You can use [Variables](#)

11.12 Family Table

This category contains tasks which edit family tables.

11.12.1 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](#)

Model filter

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

The **task-specific** settings are:

1

Instances:




(.*)

1. Instances

Enter the name of the instance to be deleted. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

Tip: You can use [Variables](#)³⁶³.

Structure of the CSV file

Reading from a CSV file adds a maximum of 8000 lines. A list MUST NEVER have more than 9940 lines. Even if this is possible by adding several CSV files. Exceeding this limit corrupts the task list. An expedient way of using more than 8000 lines is to insert several consecutive *Delete family table instances* actions and to import a maximum of 8000 lines with instance names per action.

11.12.2 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1

Options:

☒ Delete the family table afterwards

1. Options

You can activate this option using the checkbox:

- *Delete the family table afterwards*
Specifies whether the empty family table should subsequently be deleted from the generic model.

11.12.3 Unlock all Instances

This task unlocks all instances.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

There are no other settings.

11.12.4 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](#)⁵⁴.

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.

11.13 File

This category contains tasks which edit files.

11.13.1 Copy File

This task copies one or more files or directories.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1	Source:	<input type="text" value="Type a source path here"/>
2	Destination:	<input type="text" value="Current directory"/>
3	Options:	☐ Overwrite existing files ☒ Auto-create missing directories at destination

1. Source

Either specify the path to the file(s) or directory(ies) to be copied, or browse the file system using the *Browse* button .

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 files*

If this checkbox is selected, existing files at the destination will be overwritten. If it is deselected, existing files will be skipped.

– *Auto-create missing directories at destination*

Any missing directories at the destination will be created automatically before the files are copied. If this option is disabled, an error message will be displayed if any directories are missing.

Tip: You can use [Variables](#) .

11.13.2 Delete File

This task deletes one or more files or directories.

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

Model filter

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

The **task-specific** settings are:

1	File:	<input type="text" value="Type a file or folder path here"/>
2	Options:	☒ Move to system trash bin

1. File

Either specify the path to the file(s) or directory(ies) to be deleted, or browse the file system using the *Browse* button . You can use [Variables](#) .

2. Options

- *Move to system trash bin*

11.13.3 Move File

This task moves one or more files or directories.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1	Source:	<input type="text" value="Type a source path here"/>
2	Destination:	<input type="text" value="Current directory"/>
3	Options:	☐ Overwrite existing files ☒ Auto-create missing directories at destination

1. Source

Either specify the path to the file(s) or directory(ies) to be moved, or browse the file system using the *Browse* button .

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*

If this checkbox is selected, existing files at the destination will be overwritten. If it is deselected, existing files will be skipped.

- *Automatically create missing destination directories*

Any missing directories at the destination will be created automatically before the files are copied. If this option is disabled, an error message will be displayed if any directories are missing.

Tip: You can use [Variables](#)³⁶³.

11.13.4 Rename File

This task renames one or more files or directories.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

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

Either specify the path to the file(s) or directory(ies) you want to rename, or browse the file system using the *Browse* button .

2. New Name

Enter the new file name.

Tip: You can use [Variables](#) .

11.13.5 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](#) .

Model filter

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

The **task-specific** settings are:

Output File: ... **Client** 

Client

Server

1. Output File

Enter the path to the output file or browse the file system using the *Browse* button .

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.

Tip: You can use [Variables](#) ³⁶³.

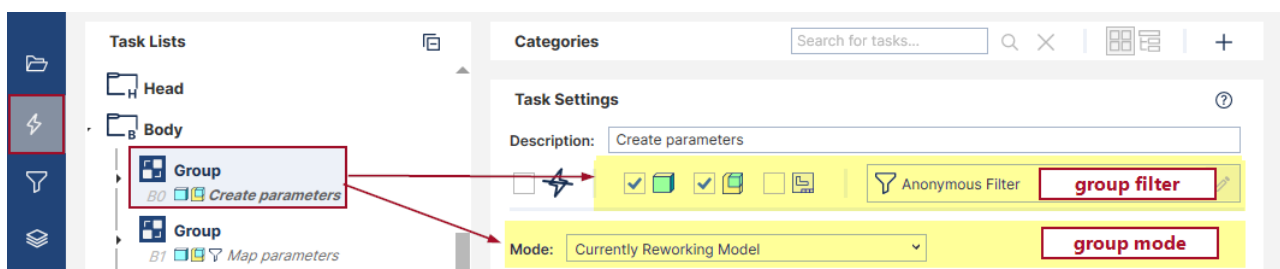
11.14 Group

This category contains tasks which group several tasks into one group.

11.14.1 Group

This action groups multiple actions into a single group. You can use a group as:

1. Organizational element
 - to organize actions for clarity
 - to set group filters
 - to specify on which models the grouped actions are executed → Set model filters
 - to control the group: how the group's actions are executed → Create enhanced filters
2. State-changing element
 - to define a group mode that changes the state of the Creo session
 - within the model (intra-model): to specify details, such as All Sheets, All Solids.
 - Outside the model (across models): when switching between models or model types (PRT, DRW) during editing, e.g., from an assembly to a part contained within it (group mode "All Model Components") or from a part to a drawing (group mode "Other Model").



Set filter und mode for a task group

Group filter

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](#) ⁵⁵.

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

Group mode

Group modes can be used to switch from the currently loaded model to another model during rework, or to change states within a model, such as switching to combined views. Using such state-changing group modes can increase the speed of data processing, for example, when editing assemblies,

If non-state-changing group modes are set for the action group, the group acts as an organizer.

The following group modes are available:

	Cross-model	Intra-model
--	-------------	-------------

Scope-changing group modes

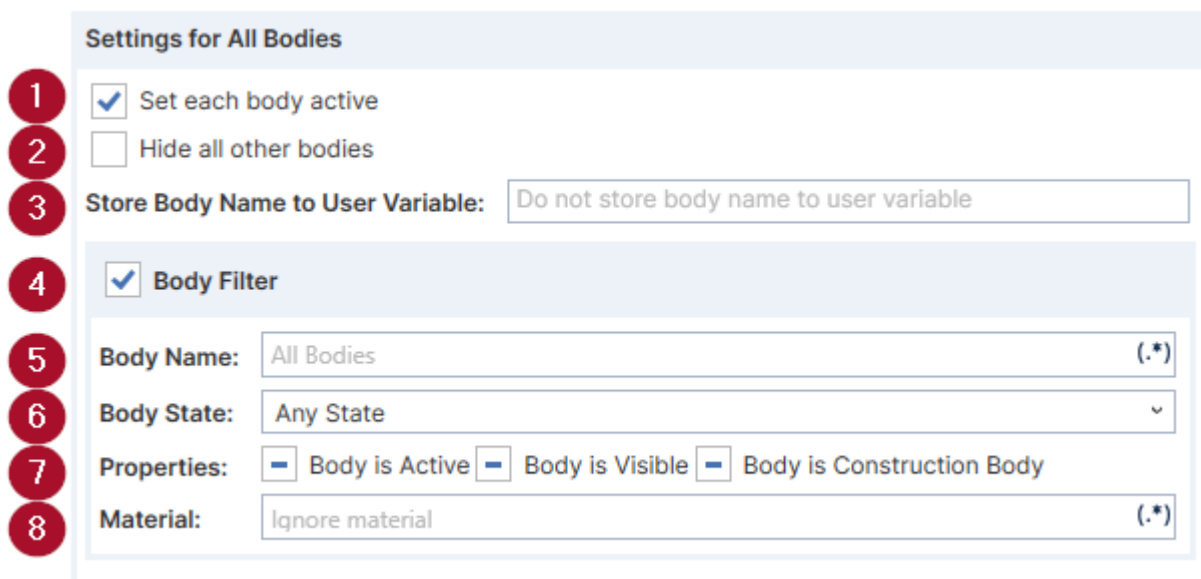
Currently Reworking Model ¹⁹⁴ (Group is organizing element)		X
All Rows in CSV File ¹⁹¹		X
For Loop ¹⁹²		X
While Loop ¹⁹⁴		X

Group modes that do not change the scope

Other Model ¹⁹³	X	
All Bodies ¹⁸⁸		X
All Combined Views ¹⁹⁰		X
All Instances ¹⁹⁰	X	
All Model Components ¹⁹⁰	X	
All Model Dependencies in Session ¹⁹¹	X	
All Sheets ¹⁹²		X
Custom Simplified Representation ¹⁹²		
New Drawing Created ¹⁹³	X	

11.14.1.1 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: v
- 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 [RegEx](#)³⁷⁴. The icon (•*) opens the RegEx Editor.

11.14.1.2 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.

11.14.1.3 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.

11.14.1.4 All Model Components

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

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

Settings for All Model Components

- 1** ☐ Recursive
- 2** ☐ Include Current Model
- 3** ☐ Use generic instead of instance
- 4** ☒ Visit models only once

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.

11.14.1.5 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.

11.14.1.6 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)*

11.14.1.7 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.

11.14.1.8 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*.

11.14.1.9 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](#)²³¹) can also be used for this, which can be changed during the runtime of the loop.

11.14.1.10 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](#)²²³ 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.

11.14.1.11 Other Model

The option *Other Model* allows further settings.

Settings for Other Model		
File Name:	<input type="text"/>	1
Import as:	<input type="text" value="Part"/>	2
Remove after Group:	<input type="text" value="None"/>	3

1. File Name

The file name indicates the model to which the grouped tasks are applied. [Variables](#)³⁶³ 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*

11.14.1.12 Currently Reworking Model

Continue work on the model currently being overhauled.

11.14.2 While Loop

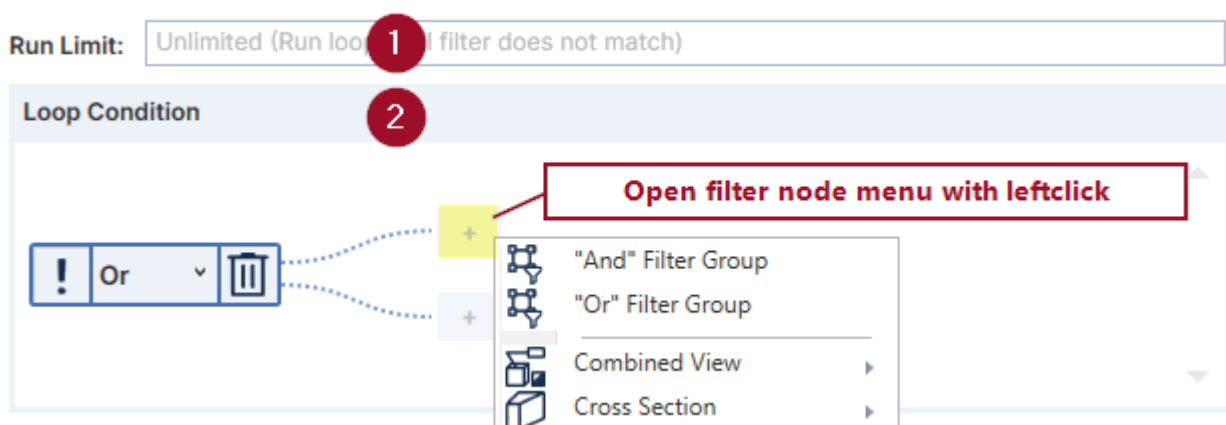
The actions in this group are repeated until a loop condition is no longer met.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:



11.15 Layer

This category contains tasks which edit layers.

11.15.1 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

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 [RegEx](#)³⁷⁴. The icon **(*)** opens the RegEx Editor.

3. Layer State

Select the foil status to be set:

- *Hide*
- *Isolate*
- *Show*
- *Hidden Layer (Assembly only)*

Tip: You can use [Variables](#)³⁶³.

11.15.2 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1 **Template:** ...

2 **Layers:** 4

3 **Options:** ☐ Regenerate model and remove independent and associative options

1. Template

Either specify the path to the file(s) or directory(ies) to a Creo template model, or browse the file system using the *Browse* button . 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.

Imports content from a CSV file to fill the input fields.

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

- 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. Options

- *Regenerate model and remove independent and associative options*

If this option is enabled, the current model is regenerated to populate the newly created layers with elements. The options *independent* and *associative* flags are then removed from each layer.

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 (2) to the list.

Tip: You can use [Variables](#) ₃₆₃.

11.15.3 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](#) ₅₄.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 **States:**  

(.)

1. 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 [RegEx](#)³⁷⁴. The icon (.) opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

Tip: You can use [Variables](#)³⁶³.

11.15.4 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1 **Delete:**  

(.)

2 **Move Content to:** (.)

3 **Options:** ☐ Delete all empty layers

1. Layer Name

 Imports content from a CSV file to fill the input fields.

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

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 [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

2. 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.

3. Options

Select a checkbox to set additional options:

- *Delete all empty layers*

If this option is enabled, all empty layers in the current Creo model will be deleted.

Please note: The *Hidden Elements* layer is not a layer and therefore cannot be affected by filters and/or functions.

Tip: You can use [Variables](#)³⁶³.

11.15.5 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

 | 

1

Layers:

(.*)

2

Group Name:

1. 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 [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

 All entries are deleted, regardless of whether the entries were made manually or

imported from a CSV file.

2. Group Name

Enter a group name for the group to be created.

Tip: You can use [Variables](#) ³⁶³.

11.15.6 Rename Layers

This task renames the specified layer.

The **cross-task settings** can be found in the chapter [General task settings](#) ⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

 | 

Layers:

1
(.*)

2

3
Options: ☐ Copy content to already existing layers

1. Layer Name

Enter the name for the layer. You can use [RegEx](#) ³⁷⁴. The icon  opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

2. New Layer Name

Enter the new name for the layer.

3. Options

Select a checkbox to set additional options:

- *Copy content to already existing layers*

Tip: You can use [Variables](#) ³⁶³.

11.15.7 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](#)⁵⁴.

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 [RegEx](#)³⁷⁴. The icon (.) opens the RegEx Editor.

Tip: You can use [Variables](#)³⁶³.

11.15.8 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

Layers: 1 (.) **Show** 2

Save: ☐ Save Layer Status 3

1. Layers

Name of the layer status to be set. You can use [RegEx](#)³⁷⁴. The icon (.) opens the RegEx Editor.

2. Layer status

Select the layer status to be set:

- Hide
- Isolate
- Show
- Hidden Layer (Assembly Only)

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.

Tip: You can use [Variables](#)³⁶³.

11.15.9 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

There are no further settings.

11.16 Material

This category contains tasks which rework materials.

11.16.1 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](#)⁵⁴.

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:

- *@pro_material_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](#)¹⁵⁰ during Model Processor runtime. The option only affects automatic substitution, not manual editing of the material.

Tip: You can use [Variables](#)³⁶³.

11.16.2 Add Material Parameter

This task adds a new material parameter to the current material.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts

The **task-specific** settings are:

1

Parameters:

+

-

Name	Type	Value	Designated	Description	Unit
<input type="text" value="Type a parameter name"/>	<input type="text" value="String"/>	<input type="text" value="Type a value here"/>	☐	<input type="text" value="Type a description"/>	<input type="text" value="No Unit"/>

2

Options

☐ Replace description if parameter exists
☐ Replace designated if parameter exists

1. 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*:

2. Options

Existing parameter descriptions can be replaced, and the designation flags for existing material parameters can be changed.

- *Replace description if parameter exists*
- *Replace designated if parameter exists*

Tip: You can use [Variables](#)³⁶³.

11.16.3 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts

The **task-specific** settings are:

1 Materials: (.*)  

2 Options: ☐ only not current material
☐ also from skeletons (NOT CREO STANDARD)

1. Materials

Enter the material(s) to be deleted from the model. You can use [RegEx](#)³⁷⁴. The icon **(.*)** opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

2. Options

The following additional options are available:

- *only not current material*

If this option is enabled, only materials that are not the part's current material will be deleted.

- also from skeleton (NOT CREO STANDARD)

If this option is enabled, the materials of the skeleton models will also be deleted.
Note that this should not happen in Creo standard.

Tip: You can use [Variables](#)³⁶³.

11.16.4 Edit Material from File

This task reads material assignments from a CSV file and applies them to parts.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts

The **task-specific** settings are:

1 **Material Assignment File:** Type or browse for a material assignment file ...

2 **Material Directory:** @pro_material_dir@ ...

3 **CSV Options**

Separator Character: Semicolon (';')

4 ☒ Write parameters for family table instances

1. Material Assignment File

Either specify the path to the file(s) or directory(ies) containing the model names and the assigned materials, or browse the file system using the *Browse* button .

2. Material Directory

Either specify directory(ies) containing the assigned materials or browse the file system using the *Browse* button . If nothing is specified, *pro_material_dir* is used.
@project_dir@ is located at: *Project directory/reports*

3. CSV Options

Select the delimiter used in the CSV file:

- Comma (',')
- Semicolon (';')

4. Option

Use the checkbox to specify whether the parameter should also be edited for family instances.

- *Write parameters for family table instances*

If this option is enabled, the material parameters are also updated for family table instances. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

Structure of the CSV file

The materials that are to be assigned can be distinguished by *file name* or parameter content (### *value*). The column with the path is only necessary for an exact selection of the file, not for the function.

In the CSV file, the following boxes are evaluated:

file name	specification of the file name
path	specification of the file path (data from the hard disk with \, data from Windchill server with /). The specifications must end with a separator character.
### value	instead of the <i>file name</i> cells, you can specify a parameter name with the suffix <i>value</i>
old material	the currently assigned material (the name without extension)
current material	the material that is to be assigned (the name without extension)

The following examples show some possibilities:

– example of a CSV file:

```
file name;current material;
loko.prt;STEEL;
```

– example of a CSV file with path specification:

```
file name;path;current material;
loko.prt;C:\testdata\;STEEL;
```

– example of CSV file with parameter value:

```
MATERIAL value;current material;
Steel;STEEL;
```

11.16.5 Edit Material Parameter

This task edits a material parameter of the current assigned material.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts

The **task-specific** settings are:

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 [RegEx](#)³⁷⁴. 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.

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 parameter. Specifying a new value replaces any other specifications for the parameter. If you want to retain the old value, you must enter @para@.

Tip: You can use [Variables](#)³⁶³.

11.16.6 Replace Material

This task replaces the given materials in a Creo part.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts

The **task-specific** settings are:

1 **Material Dir:** ...




2 (.*)

3

1. Material Dir

Enter the material directory from which the replaced materials should be loaded or folder or browse the file system using the *Browse* button . If no material directory is specified, the *pro_material_dir* setting in Creo will be used.

2. Current Material

Enter the material name of the material to be replaced. You can use [RegEx](#)³⁷⁴. The icon (.*³⁷⁴) opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

3. New Material

Enter the new name of the material.

Tip: You can use [Variables](#)³⁶³.

11.17 Model

This category contains tasks which edit models.

11.17.1 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](#)⁵⁴.

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

Either specify the path or browse the file system using the *Browse* button .

2. Options

You can activate additional options using the checkboxes:

- *Activate for models that have been checked out from a PDM system*

If this option is enabled, the model and its dependencies will be saved again under the current path.

Tip: You can use [Variables](#) .

11.17.2 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

There are no other settings.

11.17.3 Compute Mass

This task calculates the mass of the part or assembly and stores the value in a `pro_mp_mass` parameter based on a specified coordinate system.

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:

Standard Coordinate System

1. Coordinate System

Specify the coordinate system. If no coordinate system is specified, the default Creo coordinate system is used.

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.

Tip: You can use [Variables](#) .

11.17.4 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](#)⁵⁴.

Model filter

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

Names:



Type the old model name here.

1

(.*)

Type the new model name here.

2

1. Name of the model to be replaced

Enter the current name of the model including the file extension. You can use [RegEx](#)³⁷⁴.

The icon (.) opens the RegEx Editor.

Imports content from a CSV file to fill the input fields.

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

2. 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.

Tip: You can use [Variables](#)³⁶³.

11.17.5 Create Feature

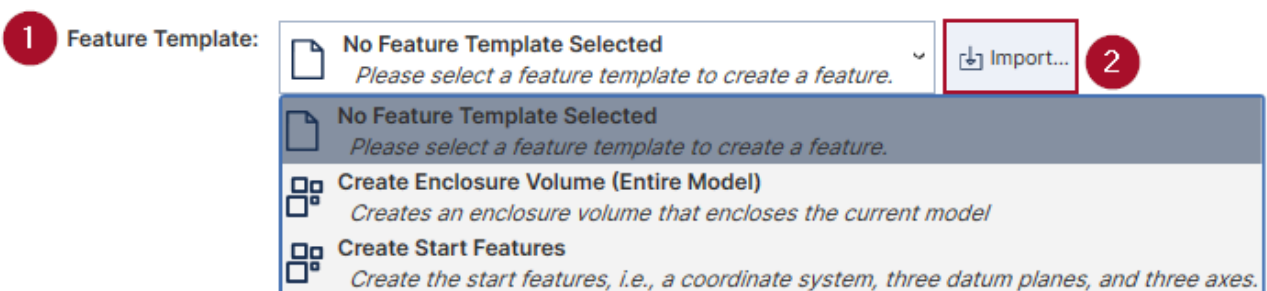
This task creates features from a template.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



1. Feature Template

Select a template. The settings differ for each template.

- [Create Enclosure Volume \(Entire Model\)](#)²¹⁰: Creates an enclosure volume that encloses the current model
- [Create Start Features](#)²¹⁰: Create the start features, i.e. a coordinate system, three datum planes and three axes

2. Import

You can import a template file.

11.17.5.1 Create Enclosure Volume

This template generates an enclosure volume.

Settings

Name:

The enclosure volume will only be created if no feature with same name exists.

11.17.5.2 Create Start Features

1 Feature Template:

 Create Start Features
Create the start features, i.e., a coordinate system, three datum planes, and three axes.

Settings

2 Coordinate System Name:

3 Datum Plane Settings

Datum Plane 2 Name:

Datum Plane 1 Name:

Datum Plane 3 Name:

4 Axes Settings

Name (Plane 1, Plane 2):

Name (Plane 2, Plane 3):

Name (Plane 1, Plane 3):

The coordinate system will only be created if no coordinate system exists at the first position in the feature tree. It is r

1. Coordinate System Name

Specify the name of the coordinate system.

Please note: The coordinate system is created only if no coordinate system currently exists at the first position. All elements are checked beforehand for duplicate names.

2. Datum Plane Settings

Enter the names of the planes. These are located on the default coordinate system along the X, Y, and Z axes.

3. Axes Settings

Enter the names of the axes of the default coordinate system.

11.17.6 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](#)³⁸⁰.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1

New Name:

2

Options:

☐ Enable for models checked out from a PDM system
☐ Process all instances of generic recursively

1. New Name

Enter the new common name. You can use [variables](#)³⁶³.

2. Options

You can activate additional options using the checkboxes:

- *Enable for models checked out from a PDM system*

This allows you to change the common name of the model that was checked out from the 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.

Tip: You can use [Variables](#) .

11.17.7 Edit Dimensions from Dictionary

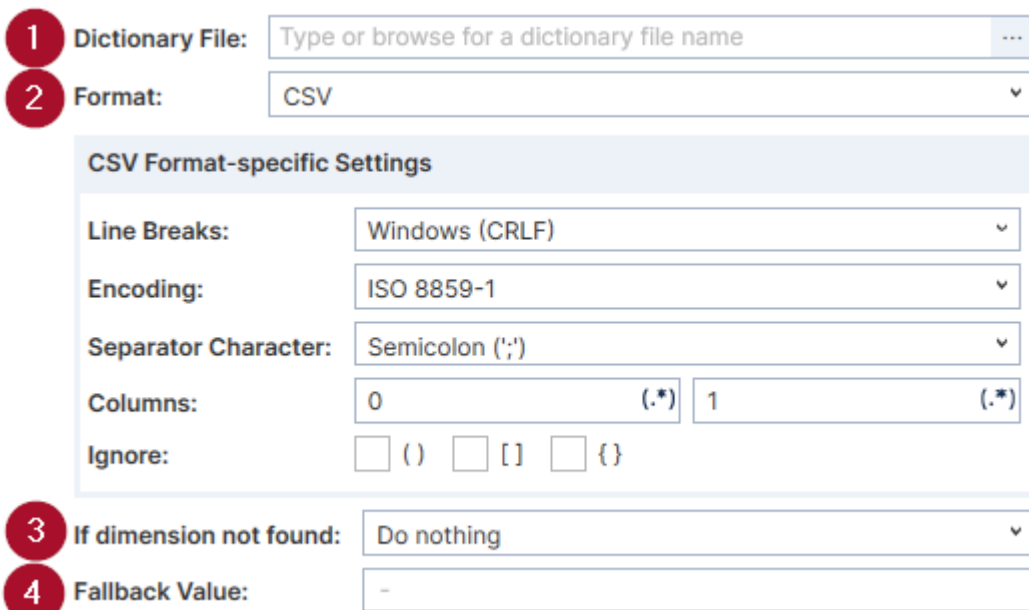
This task reads values of model dimensions from a given dictionary and writes them into the model.

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 Dictionary File: Type or browse for a dictionary file name ...

2 Format: CSV

CSV Format-specific Settings

Line Breaks: Windows (CRLF)

Encoding: ISO 8859-1

Separator Character: Semicolon (;)

Columns: 0 (.) 1 (.)

Ignore: ☐ () ☐ [] ☐ { }

3 If dimension not found: Do nothing

4 Fallback Value: -

1. Dictionary File

Specify the path to the dictionary file in which to search for dimension values.

2. Format

WählenSelect the format of the dictionary file:

- CSV
- JSON
- SQLite

Depending on the Format selected, different other setting options are available, see [Format-Specific Settings](#)²³⁴. You can use [RegEx](#)³⁷⁴. The icon (•*) opens the RegEx Editor.

3. If dimension not found

Select an option:

- *Do nothing*

If this option is selected, dimensions that are not found in the dictionary remain unchanged.

- *Store a fallback value*

Select this option if a dimension was not found in the given dictionary file.

4. Fallback Value

If you have selected the *Store a fallback value* option, you can enter a value.

Tip: You can use [Variables](#)³⁶³.

11.17.8 Edit Dimension from File

This task reads dimension names and values from a CSV file.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1. Dimension File

Enter the path to the CSV file containing the model dimension names and values or browse the file system using the *Browse* button .

2. CSV Options

Select the separator character used in the CSV file:

- *Comma (',')*
- *Semicolon (';')*

Tip: You can use [Variables](#)³⁶³.

Structure of the CSV file

Following cells inside the CSV file would be evaluated:

- *File name* - defines the file name
- *File path* - defines the file path
- *### VALUE* - the value that should be set on a dimension with the name ###

Example of a CSV file:

```
Filename;LENGTH VALUE;
test.prt;355;
peter.prt;400;
```

Information about variables for the text box (1) can be found at [variables](#)³⁶³.

Information about description and model filters can be found at [model filter](#)³²⁹.

11.17.9 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](#)⁵⁴.

Model filter

This task can revise the following models: Assemblies

There are no other settings.

11.17.10 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](#)⁵⁴.

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 or browse the file system using the *Browse* button .

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"
...
```

Tip: You can use [Variables](#)³⁶³.

11.17.11 Move Feature from Footer

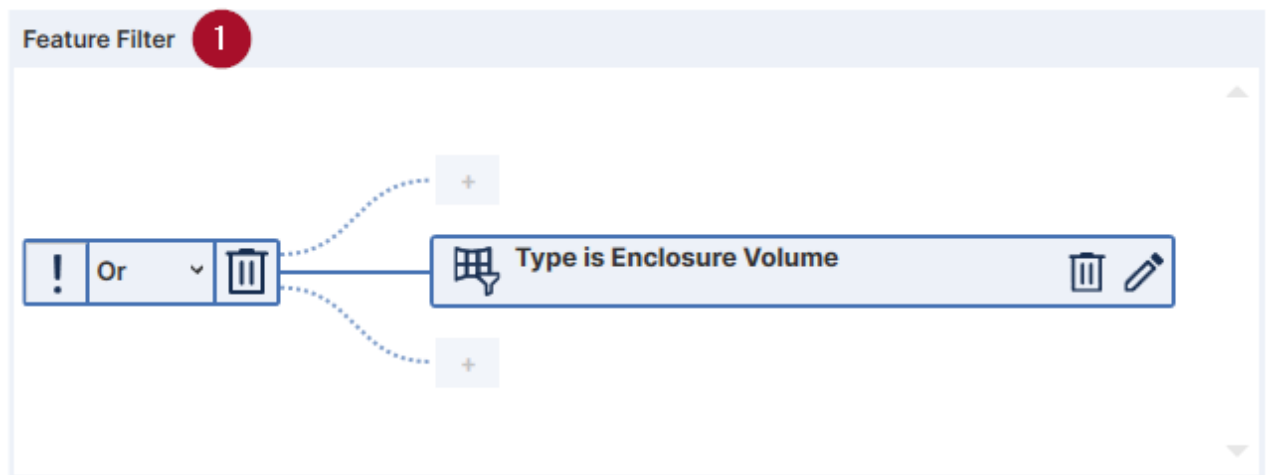
This task moves all applicable features from the footer to the Creo feature tree.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

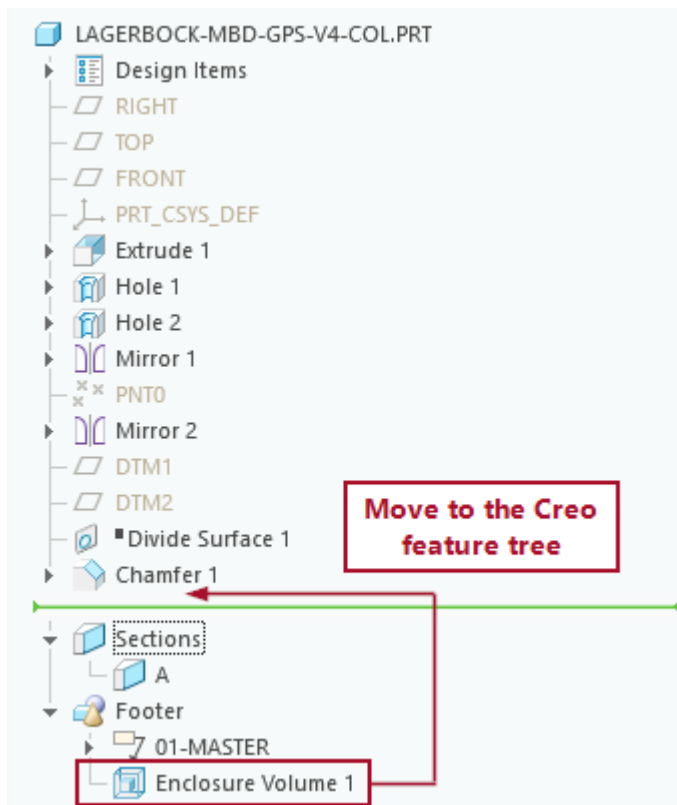
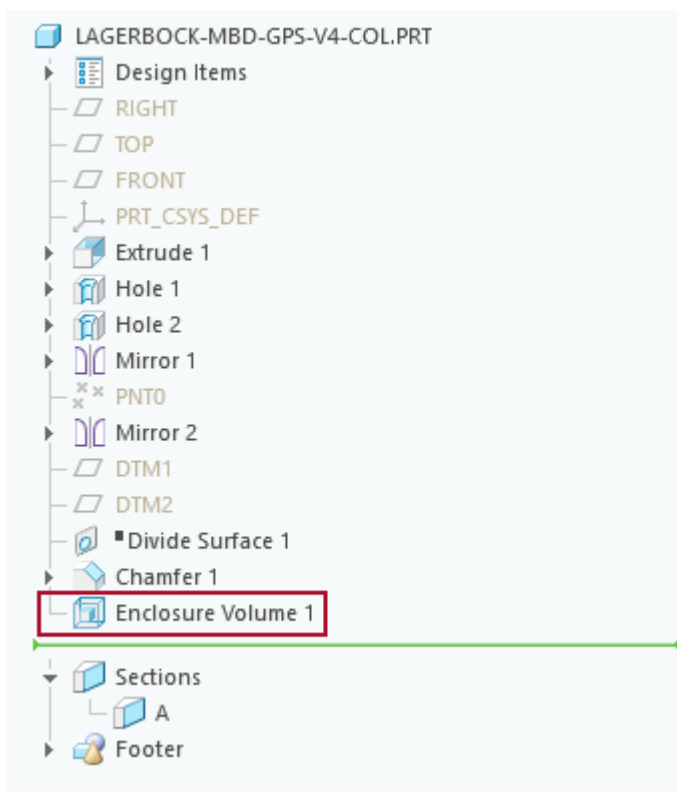
The **task-specific** settings are:



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](#)⁶⁷.

In the following example, you can see how the enclosure volume was moved from the footer to the Creo feature tree.



11.17.12 Move Feature to Footer

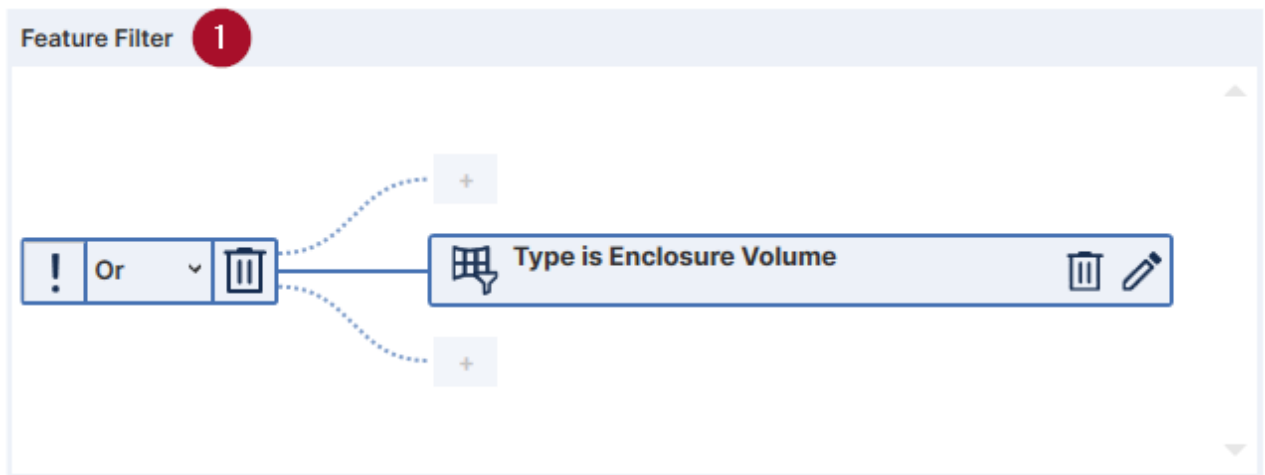
This task moves all applicable features from the Creo feature tree to the footer.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

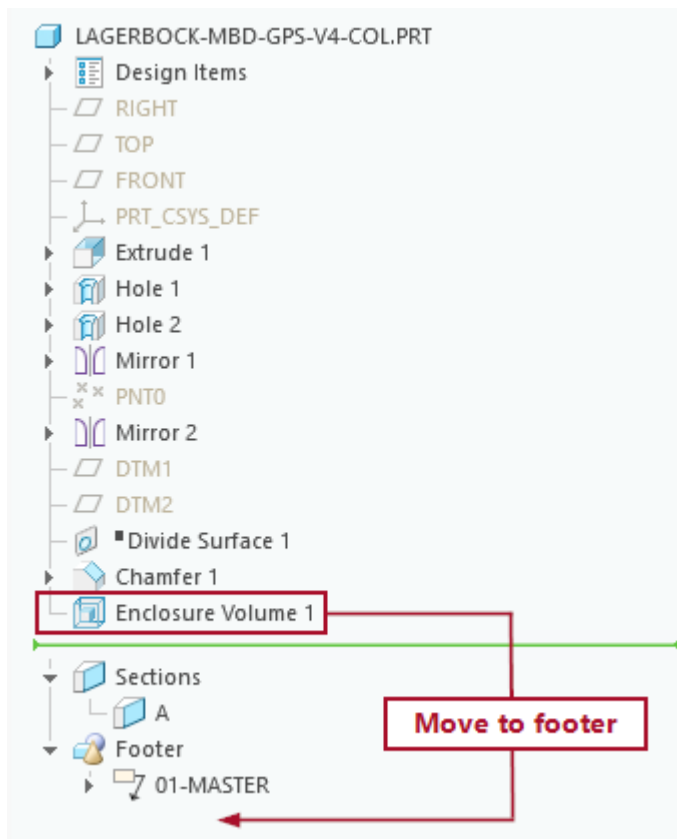
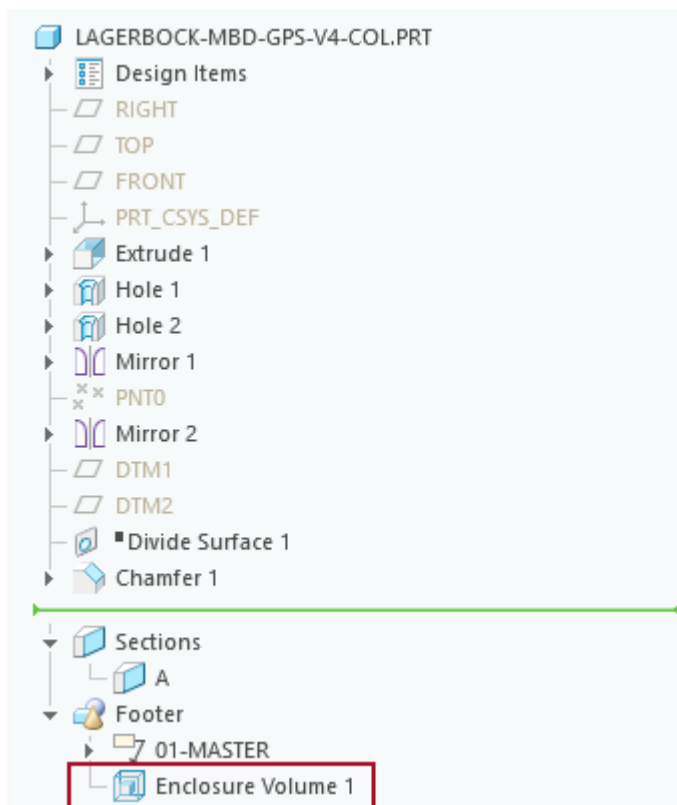
The **task-specific** settings are:



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](#)⁶⁷.

In the following example, you can see how the enclosure volume was moved from the Creo feature tree to the footer.



11.17.13 Regenerate Model

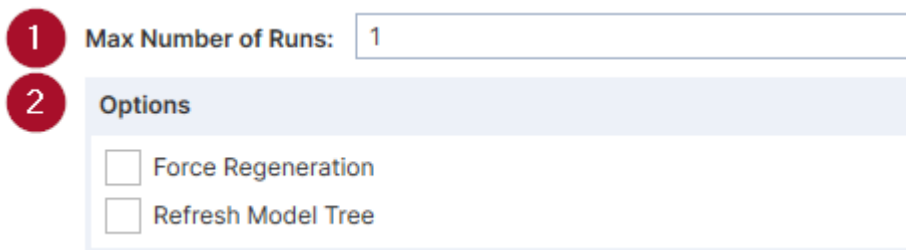
This task regenerates a model.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

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.

11.17.14 Remove Features

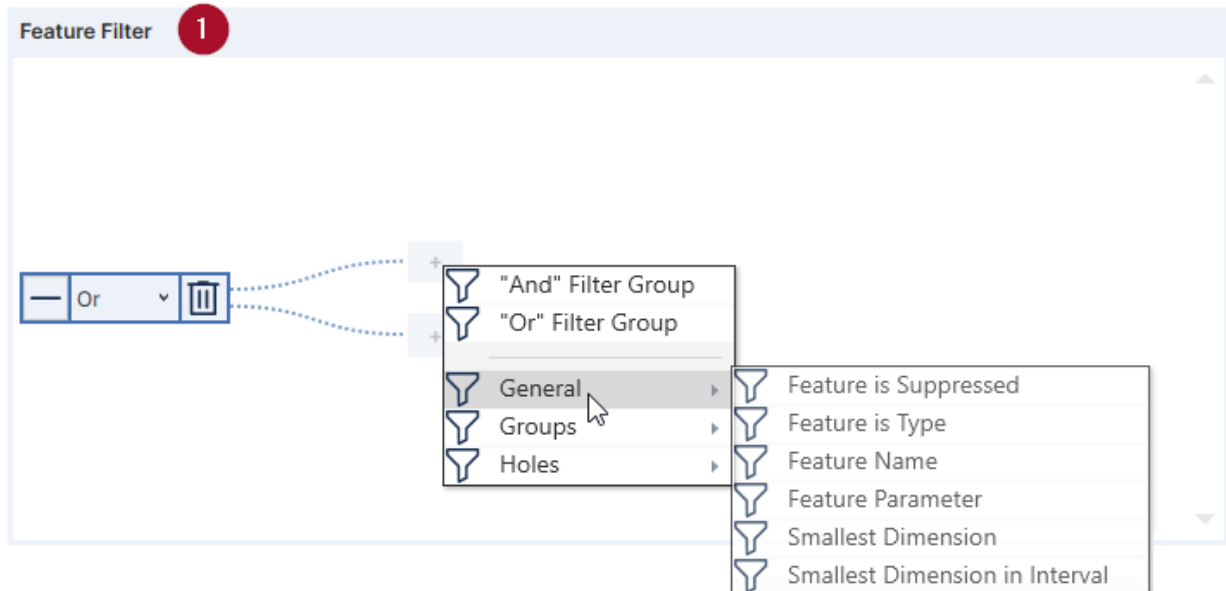
This task removes one or more features.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

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](#)⁷⁵.

11.17.15 Rename Feature

This task renames one or more features.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

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. 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 [RegEx](#)³⁷⁴. The icon opens the RegEx Editor.

Imports content from a CSV file to fill the input fields.



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

2. Name of the new feature

Enter the name of the new feature without the ending.

Tip: You can use [Variables](#)³⁶³.

11.17.16 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

Names:



Type the old model name here. 1 (*)	Type the new model name here. 2
--	--

1. 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 [RegEx](#)³⁷⁴.

The icon (*) opens the RegEx Editor.



Imports content from a CSV file to fill the input fields.



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

2. Name of the new model

Enter the name of the new model without the ending.

Tip: You can use [Variables](#)³⁶³.

11.17.17 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](#)⁵⁴.

Model filter

This task can revise the following models: Assemblies

The **task-specific** settings are:

Models:



1
(.*)

2

Options: ☐ Retrieve single models with same name

3

1. 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 [RegEx](#)³⁷⁴.

The icon (.*) opens the RegEx Editor.



Imports content from a CSV file to fill the input fields.



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

2. Name of the new model

Enter the name of the new model without the ending.

3. 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](#)³²⁰ 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).

Tip: You can use [Variables](#)³⁶³.

11.17.18 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](#)⁵⁴.

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.

11.17.19 Save Model

This task saves a model.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

There are no other settings.

11.17.20 Set Feature Insert Position

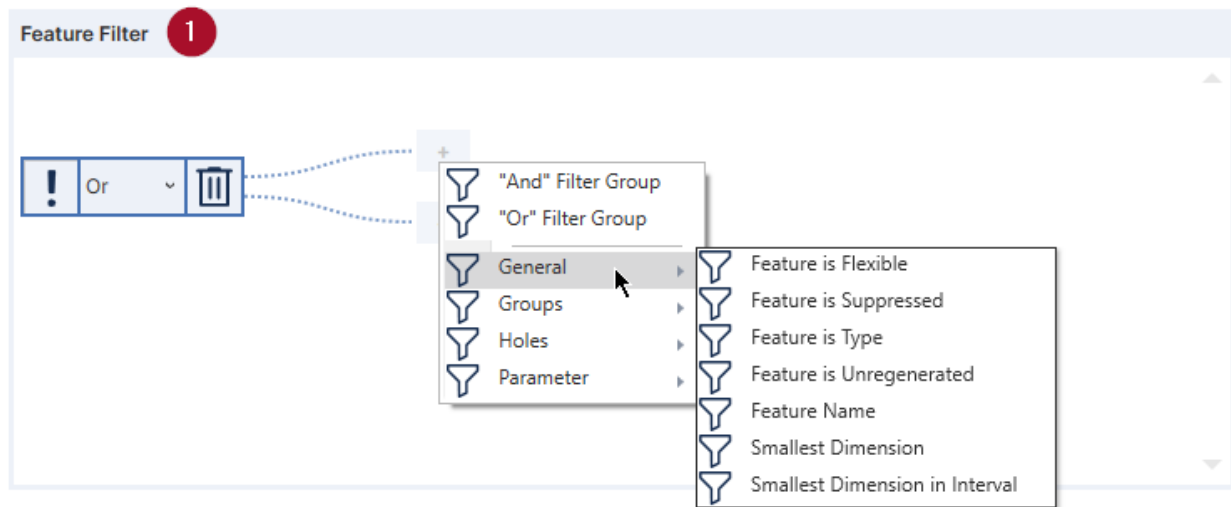
This task starts the insert mode and sets the insert position to the desired position.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

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](#)⁶⁷.

11.17.21 Set style

This task sets the specified style.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Assemblies

The **task-specific** settings are:

1 **Style Name:**

1. Style Name

Enter the style name that you want to set.

Tip: You can use [Variables](#)³⁶³.

11.17.22 Start ModelCHECK

This task runs ModelCHECK for the current model with the specified configuration.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

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. Config File

Enter the path to the configuration file or the full path to the directory or browse the file system using the *Browse* button . 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.

Tip: You can use [Variables](#) .

11.17.23 Suppress Features

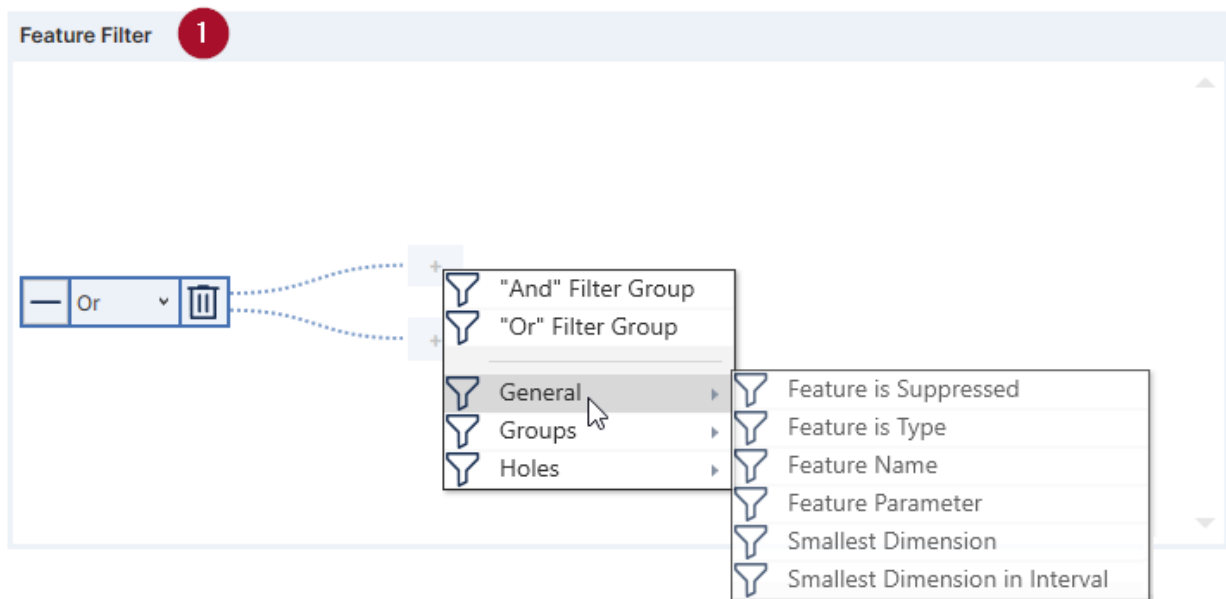
This task suppresses one or more features.

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. Feature Filter

Add the features to be suppressed via the feature filter tree. For the structure of the feature filter tree, see [Feature Filter](#)⁷⁵.

11.18 Model Processor

This category contains tasks with which you can edit the internal Model Processor environment.

11.18.1 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1 Wait Time:

1. Wait Time

Specify the duration, in seconds, for which the execution of the task list will be paused.

11.18.2 Request User Input

This task requests a user input.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

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 'Request User Input' task. It is divided into three main sections, each marked with a red circle and a number:

- 1. Window Title:** A text input field with the placeholder 'Type a window title here'.
- 2. Button Result:** A text input field with the placeholder 'Do not store the dialog button result'.
- 3. Window Content:** A large container for the user input elements. It includes a '+' icon to add new elements and a '-' icon to remove them. The container shows a list of elements:
 - Label (Two-Column):** A blue-highlighted section with fields for 'Caption' (placeholder: 'Type a short caption here') and 'Body' (placeholder: 'Type the label content here').
 - Label:** A section with fields for 'Heading' (placeholder: 'No heading (only show body)') and 'Body' (placeholder: 'No body (only show heading)').
 - Separator:** A section with a separator icon and the label 'Separator'.
 - Check Box:** A section with fields for 'Caption' (placeholder: 'No caption (only show checkbox in right column)' and 'Type a text for the checkbox here'), 'Variable Name' (placeholder: 'Type a user variable name here'), 'Tooltip' (placeholder: 'No tooltip'), and 'Assigned Value' (with a dropdown set to 'true' and a 'false' option). There is also a checkbox labeled 'Checked by default'.

1. Window Title

Enter a name for the window to be created.

2. Feedback

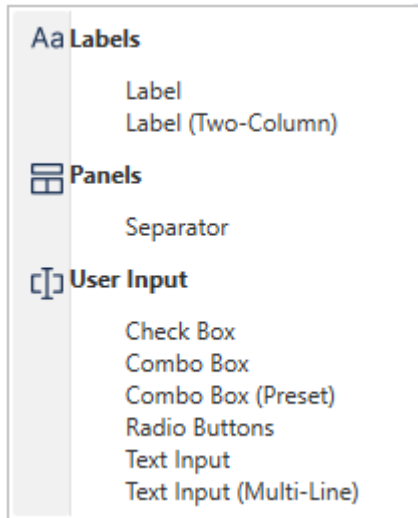
You can specify a **user variable**³⁶³ to save the text of a selected button, such as "OK" or "Cancel." If nothing is specified, nothing will be saved.

3. Window Content

This field is empty when this task is created.

Use the *plus icon* + to add the desired elements to be queried by the user input. Each new query is added to a new, blue-highlighted section where it is specified in detail. You can change the order using drag-and-drop.

Use the *minus icon*  to delete existing queries. The following queries 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.
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.

Tip: You can use [Variables](#) 

11.18.3 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1	Variable Name:	<input type="text" value="Type a variable name here"/>
2	Dialog type:	<input type="text" value="Open File"/>
3	Dialog title:	<input type="text" value="Use the default dialog title"/>
4	Path:	<input type="text" value="Type a file name here or browse for a file..."/>
5	Extensions:	<input type="text" value="*. *"/>

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 or browse the file system using the *Browse* button .

5. Extensions

Specify the file types that will be available for selection. Multiple file extensions are separated by commas, e.g. *.txt, *.csv

Tip: You can use [Variables](#)³⁶³.

11.18.4 Reset Error State

This task resets an error state.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

There are no other settings.

11.18.5 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](#)²³¹.

Please note: This task can only be performed in the *Resources* area, see [Glossary](#)³⁸².

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

1

Description:

3

Name:

4

Options:
☐ Multi-Line

5

Initial Value:

1. Description

Give the task a name of your choice. Naming conventions can be defined via [Variables / RegEx](#)³⁶³.

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* (5).

5. Initial Value

Enter an initial value.

Tip: You can use [Variables](#) .

11.18.6 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](#) .

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](#) .

Model filter

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

The **task-specific** settings are:

1	Name:	<input type="text" value="Type a name here"/>
2	Options:	☐ Multi-Line ☐ Increment Value by: <input type="text" value="1"/>
3	Value:	<input type="text" value="Type a value here"/>

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).

– *Increment Value by*

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.

3. Value

Enter the value of the variable.

Tip: You can use [Variables](#) .

11.18.7 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](#) .

Model filter

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

The **task-specific** settings are:

- 1 **Look-Up Key:**
- 2 **Variable:**
- 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

If no translation found:

Fallback Value:

1. Look-Up Key

Enter the value of the target variable.

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 or browse the file system using the *Browse* button .

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](#)²³⁴. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

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*.

Tip: You can use [Variables](#)³⁶³.

11.18.7.1 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: 0 4 (.) 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-8859-1) 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 [RegEx](#)³⁷⁴. 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

JSON Format-Specific Settings

Behavior for multiple values: Take the first value 1

File Structure: Single Dictionary 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	Target Column
Source Column Name: <input type="text" value="Type a column name here"/> 2	Target Column Name: <input type="text" value="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.

11.18.8 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1 Variable Name:

2 File Name: ...

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 or browse the file system using the *Browse* button .

The file must be available on the server on which Creo is running.

Tip: You can use [Variables](#)³⁶³.

11.18.9 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

- 1 **User variable name:**
- 2 **Save name:**

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.

Tip: You can use [Variables](#)³⁶³.

11.18.10 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1	Variable Name:	<input type="text" value="Type a variable name here"/>
2	URL:	<input type="text" value="Type a URL here"/>
3	Authentication:	☐ Use Single Sign-On (SSO) Authentication ☐ Use Username and Password (Standard Authentication) <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> Username: <input type="text" value="Type a username here"/> Password: <input type="text" value="Type a password here"/> </div>
4	Options:	☐ Use Windchill CSRF Token ☐ Use Proxy Server <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> 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"/> </div>
5	Post Variables:	<input style="height: 40px;" type="text" value="Add HTTP post variables here"/>
6	Response Type:	<input type="text" value="Application/XML"/>
7	Upload File (no SSO)::	<input type="text" value="No file defined"/>

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*
- *Custom...*

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.

7. Upload File (no SSO): Type

Enter the file path to the file you want to upload. The file will then be read and added to the `$_FILES` array.

Tip: You can use [Variables](#) .

11.18.11 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](#) .

Model filter

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

The **task-specific** settings are:

1 **Level:**

2 **Message:**

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.

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.

Tip: You can use [Variables](#)³⁶³.

11.19 Model Properties

This category contains tasks that can be used to rework the properties of models.

11.19.1 Set Accuracy

This task sets the accuracy.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

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.

11.19.2 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](#)⁵⁴.

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*

11.19.3 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1 DTL File:

1. DTL File

Enter the full path to the DTL file or browse the file system using the *Browse*  button.

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](#).

Tip: You can use [Variables](#) .

11.19.4 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](#) .

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

Tolerance:	<input type="text" value="ANSI 2018"/>	
Tolerance Class for ISO/DIN:	<input type="text" value="Medium"/>	

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.

11.19.5 Set Unit System

This task sets a unit system.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

- 1 **Type:**
- ☒ Millimeters - Kilograms - Seconds
 - ☐ Centimeters - Grams - Seconds
 - ☐ Millimeters - Newtons - Seconds
 - ☐ Foot - Pounds - Seconds
 - ☐ Inches - Pounds - Seconds
 - ☐ Inches - lbm - Seconds
 - ☐ Meters - Kilograms - Seconds
 - ☐ Custom

2 **Custom Settings**

Name:	<input type="text" value="Type a name here"/>
System:	<input type="text" value="Mass - Length - Time"/>
Length:	<input type="text" value="cm"/>
Mass:	<input type="text" value="g"/>
Force:	<input type="text" value="dyne"/>
Time:	<input type="text" value="day"/>
Temp:	<input type="text" value="C"/>

- 3 **Conversion:**
- ☐ Interpret dimensions (1 " → 1 mm)
 - ☒ Convert dimensions (1 " → 25.4 mm)

1. Type

Select the unit system to be set.

2. Custom Settings

Select *Custom* under *Type* (1) 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.

Tip: You can use [Variables](#) 363.

11.20 Parameter

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

11.20.1 Add Associative Parameter to Flexible Dimension

This task extends the flexible dimension of a flexible-placed component of the current assembly by a new associative parameter.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Assemblies

1	Component Model:	Type a model name here	(.*)
2	Dimension Name:	Type a dimension name here	(.*)
3	Parameter Name:	Type a parameter name here	
4	Options:	☐ Designate Parameter	

1. Component Model

Enter the name of the flexible component model that contains the flexible dimension. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

2. Dimension Name

Enter the name of the flexible dimension.

3. Parameter Name

Enter the name of the new associative parameter that should be created.

4. Options

- *Designate Parameter*

If this option is enabled, the associative parameter is marked as designated.

Tip: You can use [Variables](#)³⁶³.

11.20.2 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1

Feature Filter

2

Parameters:

+

-

Name	Type	Initial Value	Designated	Description	Unit
Type a (.*)	String	Type a valu	☒	Type a description here	m

3

Options

☐ Replace description if parameter exists
☐ Replace designated if parameter exists

4

If model is instance or generic

☐ 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](#)⁶⁷.

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 [RegEx](#)³⁷⁴. 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 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.

Tip: You can use [Variables](#)³⁶³.

11.20.3 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1 Parameters: + -

2

Name	Type	Initial Value	Designated	Description	Unit
Type a parameter r	String	Type a value here	☐	Type a description here	No Unit

3

Options

☐ Replace description if parameter exists

☐ Replace designated if parameter exists

4

If model is generic

☐ Add family table parameter column

5

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

- Initial 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 generic

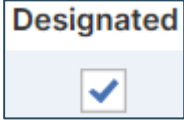
- *Add family table parameter column*

The newly added parameters of the family table of the current model are added if the current model is generic.

5. Read all parameters

Read all the parameters from the current Creo model into the parameter list.

Please note: *PTC_* parameters* cannot be created with this task. However, you can modify

designation and description. To do so, select options  and

 **Replace designated if parameter exists**, then modify the *Description* as required.

11.20.4 Change All Designation Flags

This task clears all marking flags.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

- 1 Set to:**
 - ☒ Set all parameters to designated
 - ☐ Remove designation from all parameters
- 2 Options:**
 - ☐ Change Generic

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.

Tip: You can use [Variables](#)³⁶³.

11.20.5 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1 Feature Filter

! Or ▾ [Trash Icon] + +

2 Search by: ☒ Name ☐ Value

3 Search

Type a parameter name or value here (.*)

4 If model is Instance or Generic: ☐ Delete from Generic ☐ 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](#)⁶⁷.

2. Search by

Select whether the entry in *Search* (3) is based on the name or value of the parameter.

3. Search

Enter the name or value of the feature parameter to be deleted. You can use [RegEx](#)³⁷⁴.

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.

Tip: You can use [Variables](#)³⁶³.

11.20.6 Delete Parameters

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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1

Search in:

☒ Name
☐ Value

2

Search



3

If model is Instance or Generic:

☐ Delete from Generic
☐ Delete only in Family Table

1. Search in

Select whether the entry in *parameter name or value* (2) is compared with the parameter name or the parameter value.

2. Search

Enter the name or value of the parameter to be deleted. You can use [RegEx](#)³⁷⁴. 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](#)¹⁵² 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: PROJ_**
- *Mapkey: Connect server*

Tip: You can use [Variables](#)³⁶³.

11.20.7 Edit Drawing Parameter from Model

This task copies the value of drawing parameters into solid parameters.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 Save model parameter:

2 Model selection:

☒ Active model

☐ Model selected through frame (all sheets)

☐ Throw error message

☐ Do nothing

Parameter:

Model Parameter (read value) 3 (.*)

Drawing Parameter (would be edited) 4

1. Save model parameter

Enter the drawing parameter that contains the model name. If not given or if the parameter does not exist, the active drawing model or the model from the selection below will be used.

2. Model selection

Select an option from the following:

– *Active model*

Selects the active drawing model for multimodel drawings.

– *Model selected through frame (all sheets)*

Selects the model that has been set by each drawing sheet's frame for multimodel drawings.

– *Throw error message*

Logs an error message for multimodel drawings.

– *Do nothing* (skips multimodel drawings without logging an error)

Skips multimodel drawings without logging an error.

3. Model parameter

Enter the name of the model parameter which value would be copied. You can use [RegEx](#)³⁷⁴. The icon (.*³⁷⁴) opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

4. Drawing parameter

Enter the name of the drawing parameter that should be filled.

Tip: You can use [Variables](#)³⁶³.

11.20.8 Edit Feature Parameter

This task edits one or more feature parameters.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1 Search by: ☒ Name ☐ Value

2 Search: (.*)

3 New type: ▼

4 New value:

5 If Model is Instance: ☐ Change parameter in generic

6 If Model is Generic: ☐ Process all instances

7 Feature Filter

! Or ▼ [trash icon] + +

1. Search by

Select whether the entry in *Search* (2) is compared with the parameter name or the parameter value.

2. Search

Enter the comparison value. You can use [RegEx](#)³⁷⁴. 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 Model is Instance

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 box is ticked, the outcome of the revision may differ depending on whether the parameter is generic or in the family table.

6. If Model is Generic

Select the *Process all instances* checkbox to specify whether all instances should be processed if the model is a generic part.

If this text box is ticked, the *New value* (4) is re-evaluated 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 generic parent, even if the generic parent itself is an instance.

7. Feature Filter

Enter one or more features for which this task should or should not be applied. To build the feature filter tree, see [Filter Tree](#)⁶⁷.

Please note: Deleting PDM parameters can lead to inconsistent data. This can affect usage with or without a PDM system.

Tip: You can use [Variables](#)³⁶³.

11.20.9 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

The screenshot shows a configuration window with six numbered steps:

- 1 Search by:** Two radio buttons, "Name" (selected) and "Value".
- 2 Search:** A text input field containing "Type a parameter name or value here" and a "RegEx" icon (a small box with a question mark).
- 3 New type:** A dropdown menu showing "String".
- 4 New value:** A text input field containing "Type a value here".
- 5 If Model is Instance:** A checkbox labeled "Change parameter in generic".
- 6 If Model is Generic:** A checkbox labeled "Process all instances".

1. Search by

Select whether the entry in *Search* (2) is compared with the parameter name or the parameter value.

2. Search

Enter the comparison value. You can use [RegEx](#)³⁷⁴. The icon (RegEx) 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.

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

Enter the new value for the parameter. Specifying a new value will replace any previous specifications for the parameter. To retain the old value, 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.

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](#)³⁰⁹.
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](#)¹⁵²:

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*.

Tip: You can use [Variables](#)³⁶³.

11.20.10 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

- 1 **Source Parameter:** (.*)
- 2 **Target Parameter:**
- 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
If no translation found:
Fallback Value:

1. Source Parameter

Enter the source parameter name. You can use [RegEx](#)³⁷⁴. The icon (.*) opens the RegEx Editor.

2. Target Parameter

Enter the name of the target parameter. If this field is left blank, the target parameter will be the same as the source parameter.

Tip: Please ensure that the names in the source parameter are descriptive and as unique as possible, e.g.

Example Source parameter (target parameter)	More efficient
mother	hexagonal nut
disc	washer

3. Dictionary File

Enter the file that contains the translations or browse the file system using the *Browse* button .

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](#) ²³⁴

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 found*.

Tip: You can use [Variables](#) .

11.20.10.1 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-8859-1) 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 [RegEx](#)³⁷⁴. 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

JSON Format-Specific Settings

Behavior for multiple values: Take the first value **1**

File Structure: Single Dictionary **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	Target Column
Source Column Name: Type a column name here 2	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.

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.

11.20.10.2 Guidelines for Creating the CSV File

The *Edit model parameter from dictionary* action uses a dictionary to fill a parameter. This requires source (3) and target (4) parameter to be specified after the list. The source parameter must contain meaningful and unambiguous words.

Example:

Example (translation German)	Better use (translation German)
Power (Macht)	Voltage (Spannung)
Gear (Zahnrad)	Gearbox (Getriebe)

The data base can easily be created in Excel (two-column Excel document) and be saved as a CSV file. The different formats for saving can be selected from the drop-down box. Available formats:

- .csv / .txt - UTF8 - tab-separated
- .csv / .txt - UTF8 - semicolon-separated
- .csv / .txt - UTF8 - comma-separated
- .csv / .txt - ISO-8859-2 - tab-separated

- .csv / .txt - ISO-8859-2 - semicolon-separated

- .csv / .txt - ISO-8859-2 - comma-separated

When you translate parts, they are tested in word groups reduced bit by bit starting from the front. A value of *I will be translated*, for example, will be searched in the following sequence for a translation. If possible, parts are translated.

- I will be translated

- I will be

- I will

- I

- will be translated

- will be

- will

- be translated

- translated

If a translation is found for a part, the translation is used. The search for a translation is continued for the remaining text.

The selection is used if a translation could not be found (for parts, if no part could be translated). The following options exist:

- do nothing - the old value remains in the target parameter

- fill up with empty value - the target parameter receives the specified value from the *Empty Value* box

- copy the source value - the target parameter is set to the value of the source parameter

A free database for translation can be downloaded from *dict.cc*. Ensure that you select the correct translation / direction of translation for the database.

The *pmm.mdb* from the Startup TOOLS can also be used as source file for translation.

However, this works only if you have Microsoft Access installed on your PC, or if you have added the Access ODBC component to your 32-bit JDBC component management manually.

You can find it in a 64-bit system under *%systemdrive%\Windows\SysWoW64\Odbcad32.exe*

Bear in mind that only the new title *Microsoft Access Driver (*.mdb, *.accdb)* is supported.

The title *Microsoft Access Driver (*.mdb)* is not supported. It will generate an error message that appears in the dialog.

You can download the Microsoft Access driver individually from the address <http://www.microsoft.com/en-us/download/details.aspx?id=13255>.

If the driver still cannot be located automatically, create a system DSN link to your database under the name *MSALink*.

Make sure that the installed Office version and the version of the employed driver (x86, x64) is compatible with your installed Creo. Since a 64-bit Creo can only cooperate with a 64-bit database, you need a 64-bit Office to be installed to be able to use the driver.

From Model Processor version 3.0 onwards, direct server access is no longer supported.

@project_dir@ is located at: *Project directory/reports*

Information about description and model filters can be found at [Filter](#)³²⁹.

11.20.11 Edit Parameter from File

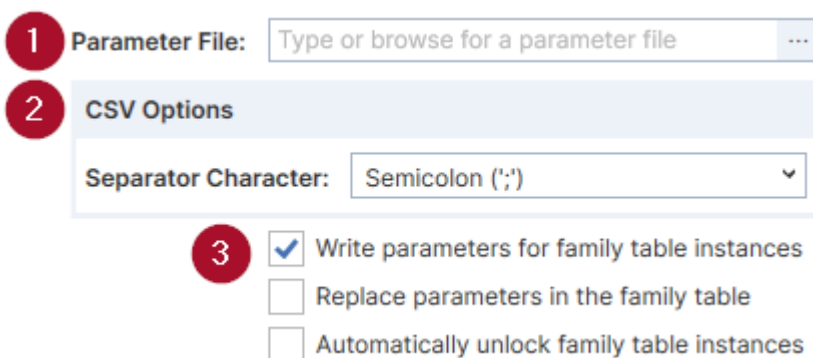
This task reads parameter names and values from a CSV file and applies them to the model.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:



1 **Parameter File:** Type or browse for a parameter file ...

2 **CSV Options**

Separator Character: Semicolon (';')

3 ☒ Write parameters for family table instances
☐ Replace parameters in the family table
☐ Automatically unlock family table instances

1. Parameter File

Enter the CSV file with the model parameter names and values or browse the file system using the *Browse* button .

2. CSV Options

Select the delimiter used in the CSV file:

- Comma (',')
- Semicolon (';')

3. Options

Use the checkboxes to select whether the parameter should also be edited in the family table or family instances.

- Write parameters for family table instances

Writes parameters for the current model even if the current model is a family table instance.

- *Replace parameters in the family table*

Replaces parameters in the family table of the current family table instance, if the current model is a generic.

- *Automatically unlock family table instances*

Automatically unlocks locked family table instances to write parameters.

Tip: You can use [Variables](#)³⁶³.

Structure of the CSV file

- *file name* - specification of the file name
- *Old param ###* - Define a parameter ### as alternative to the file name (file name should not be defined) - no instance support
- *file path* - specification of the file path
- *### Value* - the value of parameter ### that is to be set

Typical CSV file:

```
file name;DESIGNATION Value;
test.prt;test file;
peter.prt;Peter's part;
```

When you activate reworking instances in the generic family table (5), they are only specified in the CSV with instance name and suffix (as in *Instance.prt*).

@project_dir@ is located at: *Project directory/reports*

Information about variables for the text box (1) can be found at [variables](#)³⁶³.

Information about description and model filters can be found at [model filter](#)³²⁹.

11.20.12 Edit Parameter from Symbol Text

This task writes variable text from matching symbols in the current drawing into the given parameters.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 Write to: ☒ Drawing Parameter
☐ Current Drawing Model Parameter

2 Symbol Name (.)^{*}

3 Variable Text (.)^{*}

4 Parameter

1. Write to

- *Drawing Parameter*

Writes the symbol text into a parameter of the current drawing.

- *Current Drawing Model Parameter*

Writes the symbol text into a parameters to the current drawing model.

2. Symbol Name

Enter the symbol name whose variable text is read. You can use [RegEx](#)³⁷⁴. The icon (.)^{*} opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

3. Variable Text

Enter the name of the variable text to read from the matching symbol.

4. Parameter

Enter the name of the parameter to fill with the symbol text.

Tip: You can use [Variables](#)³⁶³.

11.20.13 Edit Parameter from Table Cell

This task writes data from table cells of the current drawing into the given parameters. This task requires at least one parameter. To add a parameter, first use the [Add Parameter](#)²⁴⁸ task.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 Write to: ☒ Drawing Parameter
☐ Current Drawing Model Parameter

2 Options: ☐ Search current sheet only

3 Table Selection: Any table (.)

4 Cell: Any cell

5 Parameter: Type a parameter name here

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*

If this option is ticked, only search for matching table cells on the drawing sheet that is currently being shown.

3. 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 [RegEx](#)³⁷⁴. The icon (.) opens the RegEx Editor.



Imports content from a CSV file to fill the input fields.



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

4. 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.

5. Parameter

Enter the name of the parameter that you want to fill with the data found.

Tip: You can use [Variables](#)³⁶³.

11.20.14 Fill Components Parameters by Reference

This task populates a parameter of components in the current assembly based on their installation reference.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Assemblies

1 Parameter Name:

2 Rule:

This task only works for components assembled with exactly one reference.

1. Parameter Name

Enter the name of the component parameter to fill.

2. Rule

Enter the rule used to derive the parameter value from the installation reference.

@ref_name@ serves as a placeholder for the reference name.

Tip: You can use [Variables](#)³⁶³.

11.20.15 Rename Feature Parameter

This task renames one or more feature parameters.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1 Feature Filter



2 Search

3 Search by

4 Rename to

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](#)⁶⁷.

2. Search

Enter a search term to find the feature parameter you want to rename. You can use

[Regex](#)³⁷⁴. The icon  opens the Regex Editor.

3. Search by

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.

Tip: You can use [Variables](#)³⁶³.

11.20.16 Rename Parameter

This task renames one or more parameters.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

The screenshot shows the 'Rename Parameter' task interface with three numbered steps:

- 1 Search:** A text input field with the placeholder 'Type a parameter name (.*)'.
- 2 Search by:** A dropdown menu currently showing 'Name'.
- 3 Rename to:** A text input field with the placeholder 'Type the new name here'.

1. Search

Enter a parameter name or value to find the parameter you want to rename. You can use [RegEx](#)³⁷⁴. The icon opens the RegEx Editor.

2. Search by

Select whether the entry in *Search* (1) is based on the parameter name or value.

3. Rename to

Enter a name to rename the selected parameter.

Tip: You can use [Variables](#)³⁶³.

11.20.17 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1 Search by: ☒ Name
☐ Value

2 Search: (.*)

3 State: ☒ Full
☐ Limited
☐ Locked

1. Search by

Select whether the entry in *Search* (2) is based on the parameter name or value.

2. Search

Enter a search term to find the parameter for which you want to set the access state. You can use [RegEx](#)³⁷⁴. 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.

Tip: You can use [Variables](#)³⁶³.

11.21 Pro/PROGRAM

This category contains tasks that can be used to rework the Pro/PROGRAM environment.

11.21.1 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 **Parameters:**  



1. Parameters

Enter the name of the parameters to be deleted. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

Tip: You can use [Variables](#)³⁶³.

11.21.2 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 **Matching Lines:**  



Delete a block of lines

2 **Start from line:** 

3 **End at line:** 

4 **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. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

2. Start from line

Specify the line from which to begin deleting the Pro/PROGRAM lines.

3. End at line

Specify the line from which to end deleting the Pro/PROGRAM lines. All lines between the start line and the end line will be deleted, including the two lines themselves.

4. 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.

Tip: You can use [Variables](#)  363.

11.22 Relation

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

11.22.1 Add Feature Relation

The task adds relations to the feature.

The **cross-task settings** can be found in the chapter [General task settings](#)  54.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 **Feature Filter**



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](#)⁶⁷.

2. Relations

Enter new relations line by line. The entries will be added as a block.

3. Add to

– *Start of existing relations*

If this option is enabled, existing feature relations are added to the beginning of matching line.

– *End of existing relations*

If this option is enabled, the existing feature relations are added at the end of the matching line.

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](#)²⁸⁰.

4. Options

– *Disable failure check*

If this option is enabled, error checking is disabled when adding the specified feature relations to the current model. This makes it possible to insert invalid feature relations as well. Use this option only if you are certain that the errors in the relations will not affect

the execution of the newly added lines. Otherwise, the validity of the relations, and thus the data quality, cannot be guaranteed after the revision.

Tip: You can use [Variables](#)³⁶³.

11.22.2 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



1 Relations:
Type relations here.

2 Post-Regen Relations:
Type Post-Regen relations here.

3 Add to: ☐ Start of existing relations
☒ End of existing relations

4 Options: ☐ Disable failure check

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*

If this option is enabled, the specified relationships are inserted at the beginning of the existing model relations.

- *End of existing relations*

If this option is enabled, the specified relationships will be inserted at the end of the existing model 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](#)²⁸⁰.

4. Options

- *Disable failure check*

If this option is enabled, error checking is disabled when adding the specified model relations to the current model. This makes it possible to insert invalid feature relations as well. Use this option only if you are certain that the errors in the relations will not affect the execution of the newly added lines. Otherwise, the validity of the relations, and thus the data quality, cannot be guaranteed after the revision.

Tip: You can use [Variables](#)³⁶³.

11.22.3 Delete Feature Relations

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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1

Feature Filter

!

Or

▼

🗑️

+

+

2

Matching Lines:

📄

📄

Type a matching line here

(.*)

3

Delete a block of lines

Start from line:

Type a block start line here

(.*)

End at line:

Type a block end line here

(.*)

Options:

☐ Automatically detect and match end of If block

4

Options:

☐ 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](#)⁶⁷.

2. Matching Lines

Enter a relation line used to determine whether a relation is deleted above or below. You can use [RegEx](#)³⁷⁴. The icon **(.*)** opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

3. Delete a block of lines

– *Start from line*

Enter the start line from which you want to begin deleting the feature relations.

– *End at line*

Enter the end line where you want the deletion of feature relationships to end. All lines between the start line and the end line will be deleted, including the two lines themselves.

- *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.

4. Options

- *Comment instead of deleting*

If this option is enabled, matching feature relations are commented out rather than deleted.

- *Disable Failure Checks*

If this option is enabled, error checking is disabled when the specified feature relations are deleted. This can cause the relations list to become invalid.

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.

Tip: You can use [Variables](#)³⁶³.

11.22.4 Delete Model Relations

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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 Delete in:

2 Matching Lines: (.*)

3 Delete a block of lines

Start from line: (.*)

End at line: (.*)

Options: ☐ Automatically detect and match end of If block

4 Options: ☐ Comment instead of deleting
☐ 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. You can use [RegEx](#)³⁷⁴. The icon (.*) opens the RegEx Editor.

Imports content from a CSV file to fill the input fields.

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

3. Delete a block of lines

- *Start from line*

Enter the start line from which you want to begin deleting the model relations.

- *End at line*

Enter the end line where you want the deletion of model relations to end. All lines between the start line and the end line will be deleted, including the two lines themselves.

- *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.

4. Options

- *Comment out instead of deleting*

If this option is enabled, matching lines are commented out rather than deleted.

- *Disable failure checks*

If this option is enabled, error checking is disabled when regenerating model relations.

This makes it possible to delete relations in a way that renders the set of relations invalid.

Tip: You can use [Variables](#)  363.

11.22.5 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](#)  54.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1

Feature Filter

! Or ▾ 🗑️

+

+

2

Replacements:

📄

🧹

Type a find value here

(.*)

Type a replacement here

3

Add Relations:

Type feature relations here

4

Add:

☒ Above the matching line

☐ Below the matching line

5

Matching Line:

Type a matching relation line here

(.*)

6

Options:

☐ Disable Failure Check

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](#)⁶⁷.

2. Replacements

 Imports content from a CSV file to fill the input fields.

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

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. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

3. 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.

4. Add

It determines the position at which the *Add Relations* (3) text is inserted:

- *Above the matching line*

If this option is enabled, the specified feature relations are added above the matching line.

- *Below the matching line*

If this option is enabled, the specified feature relations are added below the matching line.

5. Matching Line

Enter a reference line that is used to determine whether a relation is inserted above or below that line.

6. Options

- *Disable Failure Check*

If this option is enabled, error checking is disabled when editing the specified feature relations. This makes it possible to insert invalid feature relations as well. Use this option only if you are certain that the errors in the relations will not affect the execution of the newly added lines. Otherwise, the validity of the relations, and thus the data quality, cannot be guaranteed after the revision.

Tip: You can use [Variables](#)³⁶³.

11.22.6 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 Edit in: Relations

Replacements:

2 Type a find value here (.)

3 Type a replacement here

4 Add Relations:

Type relations here

5 Add:

☒ Above the matching line

☐ Below the matching line

6 Matching Line: Type a matching relation line here (.)

7 Options: ☐ Disable Failure Check

1. Edit in

Enter the relations you want to modify:

- Relations
- Post-Regen Relations
- Both Relations and Post-Regen Relations

2. Find Value

Type a value to search in each relation line. You can use [RegEx](#)³⁷⁴. The icon (.) opens the RegEx Editor.



Imports content from a CSV file to fill the input fields.



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

3. Replacement Value

Type a replacement value the found value the found value should be replaced with.

Please note: If an identical line is entered more than once, it will be inserted multiple times.

4. Add Relations

Enter new relations line by line. The entries are inserted as a block.

5. Add

- Above the matching line

If this option is enabled, the specified feature relations are added above the matching line.

- *Below the matching line*

If this option is enabled, the specified feature relations are added below the matching line.

6. Matching Line

Enter a reference line that is used to determine whether a relation is inserted above or below that line.

7. Options

- *Disable Failure Check*

If this option is enabled, error checking is disabled when editing the specified model relations. This makes it possible to insert invalid model relations as well.

Tip: You can use [Variables](#)³⁶³.

11.22.7 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](#)⁵⁴.

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:

1. Apply to

Specify the type of relations for which the unit reference is being changed:

- *Relations*
- *Post-Regen Relations*

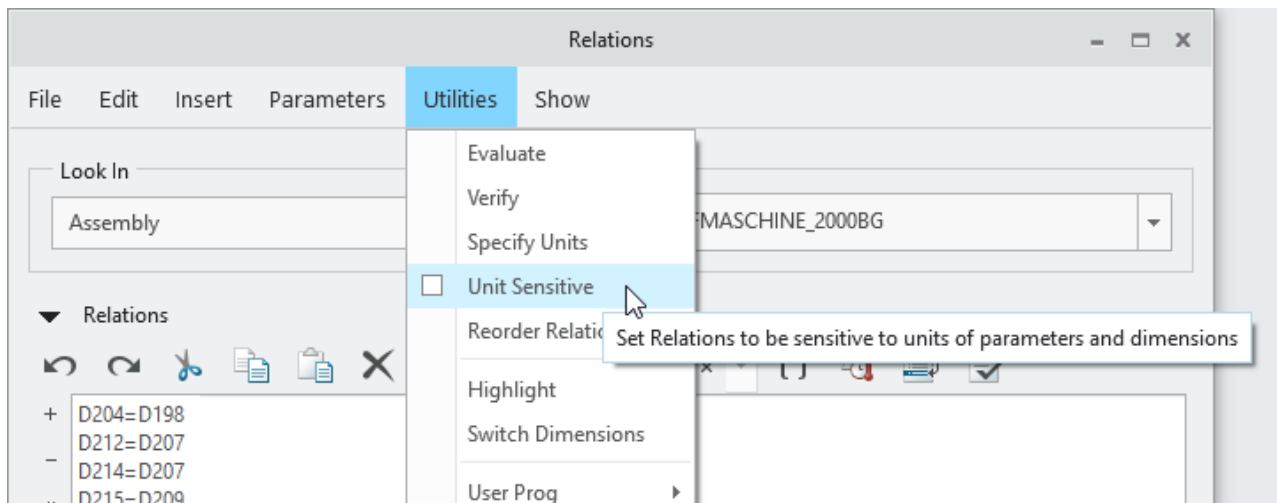
2. Set to

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*.



11.23 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.

11.23.1 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](#)³¹⁴.

Please note: This task can only be performed in the *Resources* area, see [Glossary](#)³⁸².

Task Settings ?

1 Description:

2 Report Name:

3 File Name: ... **4** Server (where Creo is running)

5 File Format:

6 Options:

- ☐ Include file name in report
- ☐ Open report after task list execution
- ☐ Append to existing report

7 CSV Format-specific Settings

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](#) 363 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. Save Location

Select the destination to save to:

- *Client*
- *Server*

5. File Format

Select the file format:

- CSV
- *SQLite*

6. Options

- Include file name in report
- Open report after task list execution
- Append to existing report

7. CSV Format-Specific Settings

Depending on the *File Format* (4) selected, various other setting options are available, see [CSV Format-Specific Settings](#)^[316].

Ergebnis eines Auflistungsreports

Bei einem Auflistungsreport werden alle Werte tabellarisch aufgelistet, z. B.:

	A	B	C	D
1	File name	Parameter	Value	Type
2	cri_dampfmaschine_2000bg.asm	DESCRIPTION_1_DE	Dampfmaschine 2Z	String
3	cri_dampfmaschine_2000bg.asm	DESCRIPTION_1_EN	steam engine 2Z	String
4				
5				

< > list_report_definition +

Ergebnis eines Auflistungsreports, geöffnet mit Excel

11.23.2 Report Annotations

This task fills a report definition with information about annotations.

The **cross-task settings** can be found in the chapter [General task settings](#)^[54].

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 Report to: Untitled Report ✎ +

3

2

4 Options: ☒ Report Annotation ID

☒ Report Annotation Name

☒ Report Annotation Value

☒ Report Annotation Type

☒ Include Text Formats

1. Report to

Select in which [Report Definition](#)^[290] or in which [List Report Definition](#)^[285] this report is written.

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved under *Resources*.

3. Checkboxes

The elements to be included in the report are selected using the checkboxes:

- *Report Annotation ID*
- *Report Annotation Name*
- *Report Annotation Value*
- *Report Annotation Type*

4. Options

Select whether the cell *Annotation Value* also includes information about the formatting of the annotations before the *Annotation Value*:

- *Include Text Formats*
[[[font | Underlined true/false| Height | Slant | Thickness | Width]]]

11.23.3 Report BOM Balloons

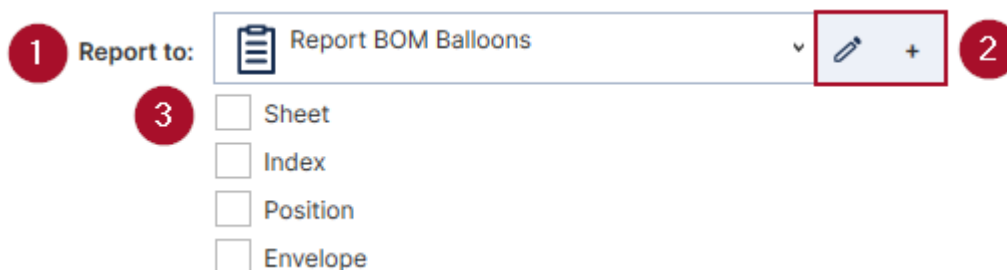
This task reports all BOM balloons on a drawing, according to the option selected by the user.

The **cross-task settings** can be found in the chapter [General task settings](#)^[54].

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:



1. Report BOM Balloons

Select in which [Report Definition](#)^[290] or in which [List Report Definition](#)^[285] this report is written.

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved under *Resources*.

3. Checkboxes

The elements to be included in the report are selected using the checkboxes.

- *Sheet*
- *Index*
- *Position*
- Envelope

11.23.4 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](#)^[54].

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 Report to: Report Combined Views 2

3

- ☒ Name
- ☐ Orientation
- ☐ Simplified Representation
- ☐ Style State
- ☐ Cross Section
- ☐ Explode State
- ☐ Layer State
- ☐ Annotations Enabled
- ☐ Supplemental Geometry Enabled

4 Filter: Include all combined views (.)

1. Report to

Select in which [Report Definition](#)^[290] or in which [List Report Definition](#)^[285] this report is written.

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved under *Resources*.

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 [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

Tip: You can use [Variables](#)³⁶³.

11.23.5 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](#)²⁸⁵.

Please note: This task can only be performed in the *Resources* area, see [Glossary](#)³⁸².

Task Settings ?

Description: Descriptive parameters in German and English; for internal use only

Report Name: List Report Definition for Parameters

File Name: C:\Users\ahelp\mp_use_cases\auflistungsreport.csv Server (where Creo is running)

File Format: CSV

Options:

- ☒ Include file name in report
- ☐ Open report after task list execution
- ☐ Append to existing report

CSV Format-specific Settings

Line Breaks: Windows (CRLF)

Encoding: ISO 8859-1

Separator Character: Semicolon (;)

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](#) 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
- SQLite

5. Save Location

Select the destination to save to:

- Client
- Server

6. Options

- Include file name in report
- Open report after task list execution
- Append to existing report

7. CSV Format-Specific Settings

Depending on the *File Format* (4) selected, various other setting options are available, see [CSV Format-Specific Settings](#)³¹⁶.

Ergebnis einer Reportdefinition

Im Gegensatz dazu werden bei einer Reportdefinition alle Werte hintereinander in dieselbe Zeile geschrieben, z. B.:

	A	B	C	D	E
1	File name	DESCRIPTION_1_DE Value	DESCRIPTION_1_DE Type	DESCRIPTION_1_EN Value	DESCRIPTION_1_EN Type
2	cri_dampfmaschine_2000bg.asm	Dampfmaschine 2Z	String	steam engine 2Z	String
3					
4					
5					

Ergebnis einer Reportdefinition, geöffnet mit Excel

11.23.6 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1

Report to:

Report all dependent paths and layouts

2

3

☐ Report all dependencies
☐ Report all dependency paths
☒ Report all dependent paths
☒ Report layouts
☐ Report missing dependencies

1. Report to

Select in which [Report Definition](#)²⁹⁰ or in which [List Report Definition](#)²⁸⁵ this report is written.

2. Edit or add + a report template

The [report definition editor](#)³¹⁴ opens. When you create a new report template, it is saved under *Resources*.

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.

11.23.7 Report Dimensions

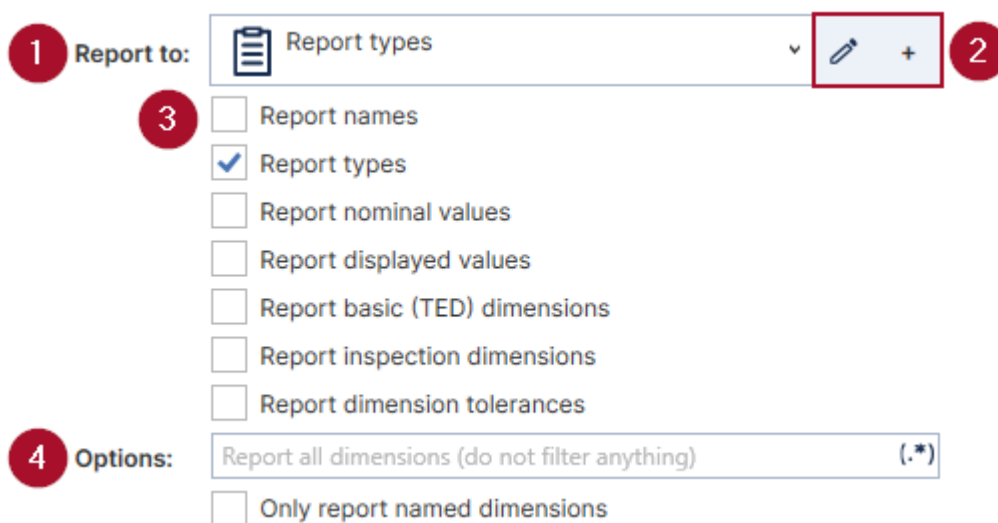
This task writes dimensions that into a CSV file or an SQLite database.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



1 Report to: Report types   2

3 ☐ Report names

☒ Report types

☐ Report nominal values

☐ Report displayed values

☐ Report basic (TED) dimensions

☐ Report inspection dimensions

☐ Report dimension tolerances

4 Options: Report all dimensions (do not filter anything) (.*)

☐ Only report named dimensions

1. Report to

Select the report to which the dimension are reported.

2. Edit or add + a report template

The [report definition editor](#)³¹⁴ opens. When you create a new report template, it is saved under *Resources*.

3. Select Dimensions

Select the dimensions to be reported. Each selected element is displayed in a table column of the report:

- *Report names*: Report the names of all matching dimensions as an explicit line.
- *Report types*: Report the types of all matching dimensions.
- *Report nominal values*: Reports the nominal value of all matching dimensions, that is, the value that was manually assigned to each dimension in Creo Parametric.
- *Report displayed values*: Displays the value of each matching dimension as shown in the Creo viewport.
- *Report basic (TED) dimensions*: Reports whether a dimension is basic, i.e., a TED dimension.
- *Report inspection dimensions*: Reports whether each matching dimension is an inspection dimension.
- *Report dimension tolerances*: Report the tolerance set for each dimension. This includes the type of tolerance as well as the tolerance limits.

4. Options

If a filter is entered, only dimension with the defined names are given out. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

- *Only report named dimensions*

If this option is enabled, only dimensions with a manually entered dimension name will be reported.

Tip: You can use [Variables](#)³⁶³.

11.23.8 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](#)⁵⁴.

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 Report to: Untitled Report ✎ + 2

3 Drawing Models

- ☐ Current Drawing Model
- ☐ Set reported column to "File Name"
- ☐ All Models
- ☐ All Models not displayed as a view

4 Drawing Data

- ☐ Number of Shown Dimensions
- ☐ Dimension Outside Sheet
- ☐ Number of Symbols
- ☐ Used Symbols
- ☐ Symbol Paths

5 Drawing Sheets

- ☐ Number of Sheets
- ☐ By Paper Size

6 Drawing Views

- ☐ Number of Views
- ☐ View - Line Display Style
- ☐ Default ▼
- ☐ View Outside Sheet

7 Drawing Notes

- ☐ Drawing Notes
- ☐ Drawing Notes Fonts
- ☐ Excluding Default Fonts
- ☐ Drawing Notes outside Sheet

1. Report to

Select in which [Report Definition](#)^[290] or in which [List Report Definition](#)^[285] this report is written.

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved under *Resources*.

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*

11.23.9 Report Drawing Formats

This task fills a report definition with drawing formats.

The **cross-task settings** can be found in the chapter [General task settings](#)^[54].

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

1 Report to: Untitled Report ✎ + 2

3 ☒ Report Sheet Number

4 ☒ Report Format Name

5 ☐ Report Size

1. Report to

Select in which [Report Definition](#)^[290] or in which [List Report Definition](#)^[285] this report is written.

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved under *Resources*.

3. Report Sheet Number

Select whether to include the drawing sheet number in the report.

4. Report Format Name

Select whether to include the used format name in the report. The file extension .frm is not included, e. g. *SUT_INT_EN_A3*.

5. Report Size

Select whether to include the sheet size in the report, e. g. A3.

11.23.10 Report Drawing Tables

This task reports table contents and table metadata from the current drawing.

The **cross-task settings** can be found in the chapter [General task settings](#)^[54].

Model filter

This task can revise the following models: Drawings

The **task-specific** settings are:

The screenshot shows the 'Report to:' dropdown menu set to 'Report Drawing Table'. A red box highlights the edit (+) icon. Below are two sections: 'Report Settings' and 'Options'. 'Report Settings' has four checkboxes: 'Report table cell contents' (checked), 'Report table position' (checked), 'Report sheet number' (checked), and 'Report table page count' (unchecked). 'Options' has four checkboxes: 'Only report first matching table' (checked), 'Expand parameters in table cells' (unchecked), 'Replace double quotes with two single quotes' (checked), and 'Remove all line breaks' (unchecked). At the bottom, there are three input fields: 'Table Selection' (set to 'All tables'), 'Table Cell' (set to 'All cells'), and 'Column Header' (set to 'Optional output column header').

1. Report in

Wählen Sie aus, in welche [Reportdefinition](#)^[290] oder in welchen [Auflistungsreport](#)^[285] dieser Report geschrieben wird.

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved under *Resources*.

3. Report settings

- *Report table cell contents*
Reports the contents of all applicable table cells.
- *Report table position*
Reports the position of the table found on the drawing sheet.
- *Report sheet number*
Report the sheet number of each applicable table.
- *Report table page count*
Reports the number of pages occupied by each applicable table.

4. Options

- *Only report first matching table*
If this option is enabled, only the first applicable table per definition is reported.
- *Expand parameters in table cells*

Expands parameter placeholders in table cell text before running the report.

- *Replace double quotes with two single quotes*

Replaces every in the reported table cell values with.

- *Remove all line breaks*

Removes all line breaks from reported table cell values.

5. Table Selection

Select the table from which data will be read. Supported syntax: column::row::cellcontent searches by cell reference; xpos!!ypos searches by position; and xpos!!ypos!!tolerance allows for a positional offset. You can use [RegEx](#)³⁷⁴. The icon (•*) opens the RegEx Editor.

6. Table Cell

Select one or more cells to include in the report. Supported syntax: column:row, column:row:textline (textline starts at 0).

7. Column Header

If specified, this controls the name of the column in the output report. If not specified, the table column header or the coordinate is used as the output column title.

11.23.11 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

Report to:  Untitled Report 1  2

Report Family Table 3	Report Instances 4
☐ Number of first-level instances ☐ Total number of instances ☐ Number of locked instances ☐ Number of unregenerated instances ☐ Is recursive	☐ Instance name ☐ Full name ☐ Has sub-family tables ☐ Number of sub-instances ☐ Is unregenerated ☐ Is locked <div>Top-Level instances only </div> <div>Report all instances</div>

1. Report to

Select in which [Report Definition](#)^[290] or in which [List Report Definition](#)^[285] this report is written.

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved under *Resources*.

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*

Output the number of first-level family table instances in the report, excluding subinstances.

- *Total number of instances*

Output the total number of all instances in the family table in the report.

- *Number of locked instances*

Display the number of locked instances on the first level of the family table in the report.

- *Number of unregenerated instances*

Output the number of unregenerated instances on the first level of the family table in the report.

- *Is recursive*

In the report, indicate whether the family table of the current generic part 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*

Name of each instance of the family table

- *Full name*

Full name of each instance in the format instance<generic>.ext

- *Has sub-family tables*

Indicate in the report whether an instance itself contains a generic family table.

- *Number of sub-instances*

Number of subinstances contained in an instance

- *Is ungenerated*

Indicate in the report whether an instance has not been regenerated.

- *Is locked*

Indicate in the report whether an instance 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.

Tip: You can use [Variables](#)³⁶³.

11.23.12 Report Features

This task fills a report definition with features.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

The screenshot shows the 'Report Features' task configuration interface. It includes the following elements:

- 1** **Report to:** A dropdown menu showing 'Report Features' with a red box highlighting the edit and add icons.
- 2** A red circle next to the edit and add icons in the 'Report to' dropdown.
- 3** **Feature Filter:** A section with a filter bar containing an 'Or' operator and a trash icon. Below the bar are two empty slots with plus signs for adding more filters.
- 4** A list of checkboxes for reporting feature details:
 - ☒ Report feature names
 - ☐ Report feature ID
 - ☐ Report feature type
 - ☐ Report number of matching features
- 5** **Report Feature Parameters:** A section with a checkbox for 'Report Feature Parameters' (checked). Below it are two sub-sections:
 - On the left, a text input field with the placeholder 'Type a feature parameter name here' and a wildcard '(*)'.
 - On the right, two checkboxes:
 - ☒ Report parameter name
 - ☒ Report parameter value

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](#)³¹¹)**: 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](#)²⁹⁰ or [listing report](#)²⁸⁵)**: **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 or add + a report template

The [report definition editor](#)³¹⁴ opens. When you create a new report template, it is saved under *Resources*.

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](#)⁶⁷.

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.

- *Feature Parameter Name*: Enter the name of the feature parameters to be reported.

You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

- *Report parameter name*: Names of all matching parameters within all matching features
- *Report Parameter value*: Output the values of all matching parameters within all matching key entries in the report

Tip: You can use [Variables](#)³⁶³.

11.23.13 Report Feature Positions

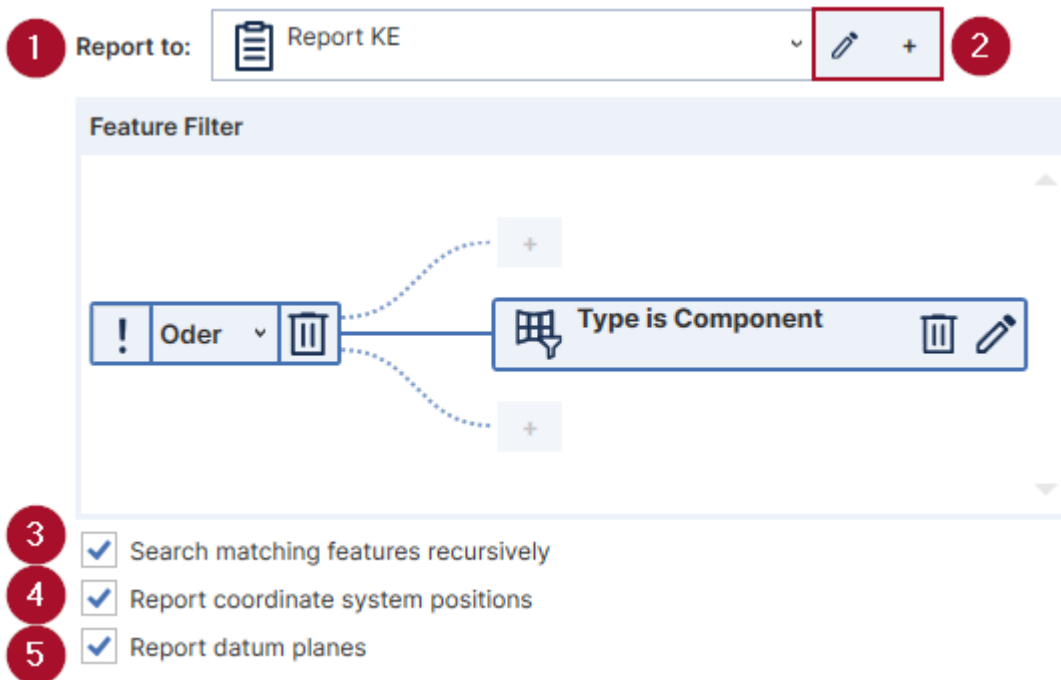
This task reports the positions of matching feature based references for the current model.

The **cross-task settings** can be found in the chapter [General task settings](#)^[54].

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



1 Report to: Report KE 2

Feature Filter

! Oder v [trash icon] [plus icon] Type is Component [trash icon] [edit icon]

3 ☒ Search matching features recursively

4 ☒ Report coordinate system positions

5 ☒ Report datum planes

1. Report to

Select in which [Report Definition](#)^[290] or in which [List Report Definition](#)^[285] this report is written. In the tree structure you can enter filters, see [Filter Tree](#)^[67].

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved under *Resources*.

3. Search matching features recursively

When this option is enabled, matching features are searched for recursively across assembly components.

4. Report coordinate system positions

When this option is enabled, the coordinate system positions of all matching features are output relative to the default coordinate system of the current model.

5. Report datum planes

When this option is enabled, the positions of datum planes for all matching feature elements are displayed relative to the current model's default coordinate system.

11.23.14 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](#)^[54].

Model filter

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

The **task-specific** settings are:

The screenshot shows the 'Report File Data' task settings. At the top, there is a 'Report to:' dropdown menu with 'Report Features' selected. To the right of the dropdown is a red circle with the number '2' and a red box containing an edit icon and a plus sign. Below the dropdown is a red circle with the number '3' next to a list of checkboxes. The checkboxes are for the following items: Model Name, Model name without generic, Common Name, File Version, File Name, Path, Size, Date, and Is Modified.

1. Report to

Select in which [Report Definition](#)^[290] or in which [List Report Definition](#)^[285] this report is written.

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved under *Resources*.

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.

11.23.15 Report Geometry Properties

This task fills a report definition with information about the geometry properties of a model.

The **cross-task settings** can be found in the chapter [General task settings](#)^[54].

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 Report to: Report Volume

2

3

- ☐ Mass
- ☒ Volume
- ☐ Gravity Center
- ☐ Bounding Box
- ☐ Surface
- ☐ Inertia

1. Report to

Select in which [Report Definition](#)^[290] or in which [List Report Definition](#)^[285] this report is written.

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved under *Resources*.

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:

- Mass
- Volume
- Gravity Center
- Bounding Box
- Surface
- Inertia

Please note: File size and date can only be read if Creo is not connected to a PDM server.

11.23.16 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](#)^[54].

Model filter

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

The **task-specific** settings are:

1 Report to: Report layer names

2

3

4 Options: Report all layers

- Report all layers
- Report all layers with matching name
- Report all non-empty layers
- Report non-empty layers with matching name

1. Report to

Select in which [Report Definition](#)^[290] or in which [List Report Definition](#)^[285] this report is written.

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved under *Resources*.

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*
Names of each layer in the current model
- *Report layer statuses*
Status of each layer in the current model
- *Report number of elements*
Number of elements on each layer in the current model

4. Options

Select which layers are to be reported:

- *Report all layers*

Output all layers in the current presentation, regardless of their names and content

- *Report all layers with matching name*

All layers whose names match the specified term

- *Report all non-empty layers*

Only non-empty layers in the current model

- *Report non-empty layers with matching name*

Only non-empty layers whose names match the specified expression

11.23.17 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](#)^[54].

Model filter

This task can revise the following models: Parts

The **task-specific** settings are:

1 Report to: Report current material

2

3

☒ Report current material

☐ Report all materials

1. Report to

Select in which [Report Definition](#)^[290] or in which [List Report Definition](#)^[285] this report is written.

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved under *Resources*.

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*

Reports the material of the current part that is set as Current Material.

- *Report all materials*

Reports all materials inside the current part.

11.23.18 Report Model Data

This task write model data that into a CSV file or an SQLite database.

The **cross-task settings** can be found in the chapter [General task settings](#)^[54].

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 Report to: Report Unit System

2

3 Solid

- ☐ 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
- ☐ Current Orientation Transformation Matrix

4 Parts

- ☐ Used Density

1. Report to

Select the report in which [Report Definition](#)^[290] or in which [List Report Definition](#)^[285] the data is written.

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved under *Resources*.

3. Solid

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
- Current Orientation Transformation Matrix

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

11.23.19 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](#)^[54].

Model filter

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

The **task-specific** settings are:

The screenshot shows the configuration interface for the 'Report Parameter Values' task. It includes a 'Report to:' dropdown menu (1) with a pencil icon (2). Below this is a list of checkboxes (3) for 'Report Value', 'Report Type', 'Report Unit', 'Report Description', 'Is Designated?', 'Is Related?', and 'Is Restricted?'. To the right of these checkboxes are three icons labeled 5, 6, and 7. Below the checkboxes is a section titled 'Parameters to report:' (4) containing two text input fields. The first field contains 'CAD_APPROVED_BY' and the second is a placeholder 'Please type a parameter name here...'. Both fields have a file icon (8) to their right.

1. Report to

Select in which [Report Definition](#)^[290] or in which [List Report Definition](#)^[285] this report is written.

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved under *Resources*.

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 Value*
- *Report Type*
- *Report Unit*
- *Report Description*
- *Is Designated?*
- *Is Related?*
- *Is Restricted?*

4. Parameters to report

Enter the name of the parameter to be reported. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

5. Import from CSV

Fills the current task with entries from a CSV file of your choice.

6. Read all parameters

Read all the parameters from the current Creo model into the parameter list.

7. Clear list

All entries will be deleted.

8. Clear entry

The selected row will be deleted.

11.23.20 Report Pro/PROGRAM

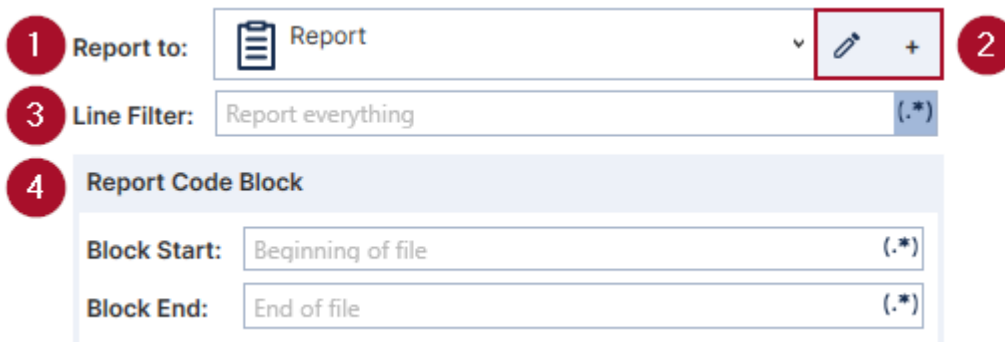
This task fills a report definition with information that is read from Pro/PROGRAM.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



1 Report to:  Report  + 2

3 Line Filter: Report everything  (.)

4 Report Code Block

Block Start: Beginning of file  (.)

Block End: End of file  (.)

1. Report to

Select in which [Report Definition](#)^[290] or in which [List Report Definition](#)^[285] this report is written.

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved under *Resources*.

3. Line Filter

You can enter filters to exclude certain lines from the report. You can use [RegEx](#)^[374]. The icon  opens the RegEx Editor.

4. Report Code Block

If you want to report a code block, you must enter a start line and an end line:

- *Block Start*: Beginning of file
- *Block End*: End of file

Tip: You can use [Variables](#)^[363].

11.23.21 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](#)^[54].

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:



1 Report to:  Report relations  

3 Model Relations: ☒ Relations
☐ Post-Regen Relations
☐ Failure in Relations
☐ Failure in Post-Regen Relations

4 Line Filter: No filter (report everything) 

1. Report to

Select in which [Report Definition](#)^[290] or in which [List Report Definition](#)^[285] this report is written.

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved

under *Resources*.

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*

Display relations in the current model.

- *Post-Regen Relations*

Display relations in the current model after regeneration.

- *Failure in Relations*

Display errors within the model relations.

- *Failure in Post-Regen Relations*

Specify errors in relations after regeneration of the current model.

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 [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

Tip: You can use [Variables](#)³⁶³.

11.23.22 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

The screenshot shows the GENIUS TOOLS report configuration interface. It includes the following elements:

- 1 Report to:** A dropdown menu showing "Report relations" with an edit icon (pencil) and an add icon (+) to its right.
- 2** A red circle next to the edit and add icons.
- 3 Column Title:** A text input field with the placeholder "Type a Column Title here".
- 4 Report Filter:** A section containing three checkboxes, each followed by a small 3D model icon (blue, yellow, and purple).
- 5** A red circle next to the "Report Filter" section header.
- Report Filter** A sub-section with a checkbox, a funnel icon, and the text "Report Filter". Below it is a tree structure with a root node containing an exclamation mark, the word "Or", and a trash icon. Two dotted lines connect this root to two child nodes, each containing a plus sign (+).
- 6 Matching Value:** A text input field with the placeholder "Type a value here".
- 7 Mismatching Value:** A text input field with the placeholder "Type a value here".

1. Report to

Select in which [Report Definition](#)^[290] or in which [List Report Definition](#)^[285] this report is written.

2. Edit or add + a report template

The [report definition editor](#)^[314] opens. When you create a new report template, it is saved under *Resources*.

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](#)^[67].

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.

Tip: You can use [Variables](#)³⁶³.

11.23.23 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](#)²⁹⁰ 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:



1. Report

Select in which [Report Definition](#)²⁹⁰ or in which [List Report Definition](#)²⁸⁵ this report is written.

2. Edit or add + a report template

The [report definition editor](#)³¹⁴ opens. When you create a new report template, it is saved under *Resources*.

11.23.24 Report Definition Editor

Use the Report Definition Editor to create a new report template. To open the Editor from a report task, first select a template, then click *Edit Report Definition* . Whether a [List Report Definition](#)²⁸⁵ or a [Report Definition](#)²⁹⁰ is created depends on which type of report is preselected. By default, a report definition is created.

REPORT DEFINITION EDITOR

Report Name:

File Name: ... Server (where Creo is running) ▾

File Format: CSV ▾

Options:

- ☐ Include file name in report
- ☐ Open report after task list execution
- ☐ Append to existing report

CSV Format-specific Settings

Line Breaks: Windows (CRLF) ▾

Encoding: ISO 8859-1 ▾

Separator Character: Semicolon (;') ▾

Options:

- ☐ Separate Models by Empty Lines
- ☐ Replace Decimal Dot

Close

1. 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.

2. File Name

Enter the path with file name to an existing file or to the file to be created. You can use [Variables](#) ³⁶³ 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.

3. Save Location

Select the destination to save to:

- *Client*
- *Server*

4. File Format

Select the file format:

- *CSV*
- *SQLite*

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* (4) selected, various other setting options are available, see [CSV Format-Specific Settings](#)³¹⁶.

11.23.24.1 CSV 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:

4 ☐ Separate Models by Empty Lines

5 ☐ Replace Decimal Dot

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-8859-1) 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

11.23.24.2 Client/Server

This chapter compares client- and server-based storage locations for reports.

	Client saves the report on the client computer after the entire task list has been processed. The report can be opened automatically.	Server saves the report directly after execution on the computer running Creo.
Batch-mode behavior	One report per model	If the option <i>Append to existing report</i> is enabled: One report per server containing the models processed by that server. If the option <i>Append to existing report</i> is disabled: One report for each model processed in batch mode.
Task: Write Report  314	<i>Not supported</i>	Executes the task during processing.

11.24 Simplified Representation

This category contains tasks that can be used to edit simplified representations.

11.24.1 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](#)  54.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1

Name:

2

Type:

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*
- *Default Envelope*
- *None*

Tip: You can use [Variables](#)³⁶³.

11.24.2 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1

Names:

(.*)

1. Names

Enter the name of the simplified representation to be deleted. You can use [RegEx](#)³⁷⁴. The icon opens the RegEx Editor.

Imports content from a CSV file to fill the input fields.

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

Tip: You can use [Variables](#)³⁶³.

11.24.3 Edit Simplified Representation

This task processes one or more simplified representations.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Assemblies

The **task-specific** settings are:

1 **Simplified Representation:** Type a simplified representation name here (.)

2 **Set to:** Derived

3 **Feature Filter**

! Or ▾ [trash icon] + +

1. Simplified Representation

Enter the name of the simplified representation to be created. You can use [RegEx](#)³⁷⁴. The icon (.) opens the RegEx Editor.

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](#)⁷⁵.

Tip: You can use [Variables](#)³⁶³.

11.24.4 Rename Simplified Representation

This task renames a specified simplified representation.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

Names:

 | 

1 

2

1. Simplified Representation Name

Enter the simplified representation to be renamed. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

 Imports content from a CSV file to fill the input fields.

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

2. New Name

Enter the new name for the simplified representation.

Tip: You can use [Variables](#)³⁶³.

11.24.5 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](#)⁵⁴.

Model filter

This task can revise the following models: Assemblies

The **task-specific** settings are:

1 Simplified Representation:

2 (.)

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 [RegEx](#)³⁷⁴. 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.

Tip: You can use [Variables](#)³⁶³.

11.25 View

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

11.25.1 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

The screenshot displays the GENIUS TOOLS configuration window. At the top, the 'Name Setting' dropdown is set to 'User Defined' (1). Below this, a section for axis selection includes checkboxes for +XY, -XY, -ZX, +ZX, -ZY, and +ZY (2). Further down are text fields for 'Standard' (3) and 'SMT-Flat' (4). The 'Custom View Name' field (5) is empty. Below the name field are sliders for 'Scale' (set to 3.00), 'X-Axis' (0.00), 'Y-Axis' (0.00), and 'Z-Axis' (0.00). A 'Reset' button (6) is located at the bottom right of the sliders. A large gray square (7) represents the preview area.

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.

Tip: You can use [Variables](#)³⁶³.

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

11.25.2 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](#)⁵⁴.

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 view that you want to delete. You can use [RegEx](#)³⁷⁴. The icon (.*) opens the RegEx Editor.

Tip: You can use [Variables](#)³⁶³.

11.25.3 Rename View

This task renames the specified view.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 **Name:** (.) (*)

2 **New Name:**

1. Name

Type in the name of the view that you want to change. You can use [RegEx](#)³⁷⁴. The icon (.) (*) opens the RegEx Editor.

2. New Name

Enter the new name of the view.

Tip: You can use [Variables](#)³⁶³.

11.25.4 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](#)⁵⁴.

Model filter

This task can revise the following models: Parts and Assemblies

The **task-specific** settings are:

1 **Name:** (.) (*)

2 ☐ Standard view

3 ☒ Refit

1. Name

Name of the view to be set. You can use [RegEx](#)³⁷⁴. The icon (.) (*) opens the RegEx Editor.

2. Standard view

If the checkbox is selected, the *name* (1) is ignored and the standard view is set.

3. Refit

If the checkbox is selected, the view is resized to fit the Creo window.

Frequently used tasks

This task is often used before generating images or PDFs.

Tip: You can use [Variables](#)³⁶³.

11.26 Windchill PDM

This category contains tasks that can be used to rework processes in Windchill.

11.26.1 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1	File:	<input type="text" value="Type the path to a file here"/>
2	Primary Model:	<input type="text" value="Add as primary content"/>

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. You can also browse the file system using the *Browse* button .

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).

Tip: You can use [Variables](#)³⁶³.

11.26.2 Check In Model

This task checks a model into Windchill.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1	Path:	Keep previous path
2	Comment:	No comment

1. Path

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.

2. Comment

Enter a comment that is written into the checkin history of the model.

Tip: You can use [Variables](#)³⁶³.

11.26.3 Check Out Model

This task checks out a model in Windchill.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1	Check Out Instances:	All
		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.

11.26.4 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](#)⁵⁴.

Model filter

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

11.26.5 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1 **File name:** (.*)

1. File name

Enter the name of the file to be removed. You can use [RegEx](#)³⁷⁴. 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.

Tip: You can use [Variables](#)³⁶³.

11.26.6 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](#)⁵⁴.

Model filter

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

The **task-specific** settings are:

1 **Server Name:** (.*)

1. Server Name

Enter the name of the server to be set. The server must already exist in Creo. You can use [RegEx](#)³⁷⁴. The icon (.*) opens the RegEx Editor.

Tip: You can use [Variables](#)³⁶³.

11.26.7 Undo Check Out

This task undoes the check out of the current active model.

The **cross-task settings** can be found in the chapter [General task settings](#)⁵⁴.

Model filter

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

12 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](#)³³¹

[Name of the Current Combined View](#)³³¹



Cross Section

[Cross Section Exists](#)³³²



Drawing

[Current Drawing Model](#)³³²

[Current Sheet Size](#)³³²

[Dimension Text Exists in Drawing](#)³³³

[Format Name](#)³³³

[Formats on Sheets](#)³³³

[Is Multi Model Drawing](#)³³³

[Symbol Exists in Drawing](#)³³⁴

[Symbol Exists On Drawing](#)³³⁴



Environment

[Creo Version](#)³³⁴

[DTL Option](#)³³⁵

[Environment Variable](#)³³⁵

[File Exists](#)³³⁶

[Model Exists](#)³³⁶



Explode State

[Assembly is Exploded](#)³³⁶

[Explode State Exists](#)³³⁷



Family Table

[Instance Exists](#)³³⁷

[Solid is Generic](#)³³⁷

[Solid is Instance](#)³³⁷

[Ungenerated Instance Exists](#)³³⁸



Group

[Feature Parameter](#)³³⁸

["Or" Filter Group](#)³³⁸



Layer

[Layer Exists](#)³³⁸



Layer

[Layer has Items](#) ³³⁹
[Layer has Status](#) ³³⁹
[Layer State Exists](#) ³⁴⁰



Material

[Current Material Name](#) ³⁴⁰



Model

[Dimension Tolerance](#) ³⁴⁰
[Feature Exists](#) ³⁴¹
[File Name](#) ³⁴¹
[File Path](#) ³⁴¹
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Model Properties

[Solid Accuracy](#) ³⁴⁴
[Solid has Tolerance](#) ³⁴⁵



Parameter

[Active Model Parameter Value](#) ³⁴⁵
[Double Defined Parameters](#) ³⁴⁶
[Material Parameter Value](#) ³⁴⁶
[Parameter exists](#) ³⁴⁶
[Parameter Is Designated](#) ³⁴⁷
[Parameter Type](#) ³⁴⁷
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Relation

[Relation Exists](#) ³⁴⁸



Simplified Representation

[Simplified Representation Exists](#) ³⁴⁸



Style State

[Style State Exists](#) ³⁴⁹

**Utility**[An Error Occured](#)³⁴⁹[Expression](#)³⁴⁹[User Variable](#)³⁵⁰[Linked Filter](#)³⁵⁰**View**[Current View Name](#)³⁵¹[View Exists](#)³⁵¹

12.1 Combined View

This category combines filters that relate to combined views.

12.1.1 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](#)⁷².

1. Name

Enter the name of the combined view. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.1.2 Name of the Current Combined View

This filter checks if the given combined view matches the current combined view.

Define the general settings for enhanced filters: negation, filter name, and filter description. See [General filter settings](#)⁷².

1. Name

Enter the name of the combined view. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.2 Cross Section

This category combines filters that filter model cross sections.

12.2.1 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](#)⁷².

1. Cross section

Type and expression that must match an existing cross section in the model. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.3 Drawing

This category combines filters that filter drawings.

12.3.1 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](#)⁷².

1. Model name

Enter an expression that must apply to the name of the current drawing model. You can use [RegEx](#)³⁷⁴. 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.

12.3.2 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](#)⁷².

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 [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.3.3 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](#)⁷².

1. Dimension Text

Enter a measurement text, regular expression, or part of the dimension text. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.3.4 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](#)⁷².

1. Format

Enter a format name that must be set in the current drawing. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.3.5 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](#)⁷².

1. One or All

Select if at least one sheet or all sheets of the current drawing must have a format.

12.3.6 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](#)⁷².

12.3.7 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](#)⁷².

1. Symbol

Enter the name of the symbol. You can use [RegEx](#)³⁷⁴. The icon (•*) opens the RegEx Editor.

12.3.8 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](#)⁷².

1. Symbol

Enter the name of the symbol. You can use [RegEx](#)³⁷⁴. The icon (•*) opens the RegEx Editor.

12.4 Environment

This category combines filters that relate to the Model Processor environment.

12.4.1 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](#)⁷².

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.

5. Creo 13

Enable this configuration to check if the currently running Creo version is major version 13.

6. Creo 2027

Enable this configuration to check if the currently running Creo version is major version 2027.

12.4.2 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](#)⁷².

1. DTL Option Name

Enter the name of the DTL config option that is to be checked in the current model. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

2. Config Option Value

Enter the value that the found DTL option must assign.

12.4.3 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](#)⁷².

1. Environment Variable

Enter the name of the environment variable that must exist with the given value. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

2. Value

Enter an expression that should be checked inside the found variables.

12.4.4 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](#)⁷².

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.

12.4.5 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](#)⁷².

1. Model name

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 [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.5 Explode State

This category combines filters that filter explode state parameters and settings.

12.5.1 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](#)⁷².

12.5.2 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](#)⁷².

1. Name

Enter the name of the exploded state, which must exist in the current assembly. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.6 Family Table

This category combines filters that refer to family tables.

12.6.1 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](#)⁷².

1. Name

Enter the name of the instance. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.6.2 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](#)⁷².

12.6.3 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](#)⁷².

12.6.4 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](#)⁷².

1. Recurse through sub-family tables

Enable to check all sub-family tables for unregenerated instances recursively.

12.7 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.

12.7.1 "And" Filter Group

If all conditions are true, the filter node returns a true result, see [Filter Tree](#)⁶⁷.

12.7.2 "Or" Filter Group

If at least one condition is true, the filter node returns a true result [Filter Tree](#)⁶⁷.

12.8 Layer

This category combines filters that filter layers.

12.8.1 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](#)⁷².

1. Layer

Enter the name of the layer that exists in the current model. Multiple slide names can be specified using a regular expression. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.8.2 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](#)⁷².

1. Layer

Enter the name of the layer whose number of elements is to be checked. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

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.

12.8.3 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](#)⁷².

1. Layer

Enter the name of the layer to be checked. You can use [RegEx](#)³⁷⁴. 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)*

12.8.4 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](#)⁷².

1. Layer state

Enter the name of the layer status that must exist in the model for this filter to return True. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.9 Material

This category combines filters that filter materials.

12.9.1 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](#)⁷².

1. Material Name

Enter a material name that should be matched with the current material name. You can use [RegEx](#)³⁷⁴. 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.

12.10 Model

This category combines filters that refer to models.

12.10.1 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](#)⁷².

1. Model contains asymmetric tolerance

When enabled, this configuration checks whether a model has a dimension with a certain tolerance.

12.10.2 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](#)⁷².

1. Edit Feature Filter

Edit the feature filter in the feature filter editor.

12.10.3 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](#)⁷².

1. Name

Enter a name to compare against the file name of the current model. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.10.4 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](#)⁷².

1. Path

Enter the file path where the current model must be located. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.10.5 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](#)⁷².

12.10.6 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](#)⁷².

12.10.7 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](#)⁷².

12.10.8 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](#)⁷².

12.10.9 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](#)⁷².

12.10.10 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](#)⁷².

1. Never saved

Activate for a model that has been newly created but never saved.

2. From Disk

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.

12.10.11 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](#)⁷².

1. Force Reneration

Activate to ignore the regeneration state and regenerate each feature regardless of the regeneration state reported by Creo.

12.10.12 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](#)⁷².

1. Subtype

Select the subtype that the current model must have.

12.10.13 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](#)⁷².

12.10.14 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](#)⁷².

1. Sheet

Enter the sheet number.

2. Position

Enter the position.

3. Cell

Enter the column and row.

12.10.15 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](#)⁷².

1. Unit system

Select a unit system.

2. Name of the unit system

If you selected (1) *Cutom with name*, you can specify a unit system. You can use [RegEx](#)³⁷⁴.
. The icon (•*) opens the RegEx Editor.

12.11 Model Properties

This category combines filters that have model properties.

12.11.1 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](#)⁷².

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 [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.11.2 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](#)⁷².

1. Tolerance Version

Select a tolerance version that the current part or assembly must have.

2. Tolerance Class

Select a ISO tolerance class that the current part or assembly must have.

12.12 Parameter

This category combines filters that refer to parameters.

12.12.1 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](#)⁷².

1. Parameter Name

Enter the parameter name that is to be compared. You can use [RegEx](#)³⁷⁴. 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.

12.12.2 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](#)⁷².

12.12.3 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](#)⁷².

1. Parameter Name

Enter the parameter name that is to be compared. You can use [RegEx](#)³⁷⁴. 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.

12.12.4 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](#)⁷².

1. Parameter Name

Enter the parameter(s) to be checked. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.12.5 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](#)⁷².

1. Parameter Name

Enter the parameter(s) to be checked. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.12.6 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](#)⁷².

1. Parameter Name

Enter the parameter name to be compared. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

2. Type

Select a type with which the parameter types found are to be compared.

12.12.7 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](#)⁷².

1. Parameter Name

Enter the parameter name that is to be compared. You can use [RegEx](#)³⁷⁴. 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.

12.13 Relation

This category combines filters that relate to relationships.

12.13.1 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](#)⁷².

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 [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.14 Simplified Representation

This category combines filters that filter simplified representations.

12.14.1 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](#)⁷².

1. Name

Enter the name of the simplified representation. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.15 Style State

This category combines filters that filter style states.

12.15.1 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](#)⁷².

1. Name

Enter the name of the style. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.16 Utility

This category combines filters that provide enhanced functions for filters.

12.16.1 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](#)⁷².

12.16.2 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](#)⁷².

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 [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

4. Epsilon Range

Enter a value to compare the floating-point numbers inside the given epsilon range.

12.16.3 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](#)⁷².

**1. Saved Filters**

Select a saved filter from the current MPX project and assign it to this task.

12.16.4 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](#)⁷².

1. Variable

Enter the name of the variable. You should enter the variable name in an expression in this form: "%user:XYZ%". You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

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.

12.17 View

This category combines filters that relate to views.

12.17.1 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](#)⁷².

1. View

Enter the name of the current view. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

12.17.2 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](#)⁷².

1. View

Enter the name of the current view. You can use [RegEx](#)³⁷⁴. The icon  opens the RegEx Editor.

13 Examples and tutorials

We offer the following supporting materials to help you get started with GENIUS TOOLS Model Processor. You find these in the Model Processor directory.

Path: <InstallationDirectory>\Model Processor 13\examples

Tutorial (MPX file)

For an introduction to the user interface and creating task lists, we recommend using the included MPX file *training_1_-_first_steps.mpx*, see [next chapter](#)⁶⁰.

Practical task lists (MPX file)

The included MPX file *mpuser_example_int.mpx* contains a collection of numerous task lists. These lists serve as examples of real-world use cases, see chapter [Example MPX file](#)⁶¹.

13.1 Tutorials

To get started with GENIUS TOOLS Model Processor, we recommend using the training exercise MPX file *training_1_-_first_steps.mpx*.

The instructions inside will walk you through creating a task list step by step. Each exercise includes a short video introducing the task and providing valuable practical tips for implementation.

The following tasks are available:

1. Creating a Report
2. Creating a Model Parameter
3. Modifying a Model Parameter
4. Renaming and Translating Model Parameters
5. Executing Tasks on an Assembly

Supplementary materials:

- Sample models: Ready-made CAD models for immediate testing and verification.
- Dictionary: A pre-built CSV file for the translation process.
- Test Task Lists: A separate test is available for each custom task list so you can check its functionality right away.

You find the training exercise MPX file under <InstallationDirectory>\Model Processor 13\examples.

13.2 Practical task lists

The MPX file *mpuser_example_int.mpx* contains 26 sample task lists that can be used as templates and customized as needed. Each task list is self-contained and functions independently of the others. Also pay attention to the filters that are part of the task list settings.

All files required to run the task lists are included and can be found under *Model Tree*, such as PNGs, materials, and table templates.

You find the example MPX file under `<InstallationDirectory>\Model Processor 13\examples`.

13.3 Reporting / Data analysis

Follow the general workflow as described in the chapter [Reporting](#)^[25].

13.3.1 Checking material files

■ Reporting out-dated parameter: Checking whether material information is up-to-date

Initial situation: A company wants to check whether outdated material files (MTL versus MAT files) are contained in existing model data.

Considerations:

- Who creates the report? Administrator → Run task list in Model Processor
- Which parts should be included in the report? All components of an assembly → Run task list on current model
- Which model data should be checked? In this company old materials (MAT files) can be found by using the old the parameter MATERIAL_GROUP_DE → The task *Universal Report* can filter for old material parameters.
- Does the focus need to be switched to a different part or within a part? Yes, from assembly to all model components → Group mode required
- What report type is needed? CSV file, one row per model → Report definition

Create task list ⚡

1. Create a template for reports (Task [Report Definition](#)^[290]) in the Resources section.
 - a. Specify a file name, e.g.:
`%env:TEMP%\@date@_MDL_data.csv`
 - b. Specify the storage location: Client

2. Create a group with the task Group
 - a. Select the group mode *All Model Components*: The action is performed on all subcomponents of the assembly
3. Create task [*Universal Report*](#)³¹²
 - a. The report filter should indicate whether the obsolete material parameter is filled in or not.
Regular expression for all entries in a parameter: .+
Filter: %curmat:MATERIAL_GROUP_DE%=.+

→ The universal report outputs Yes or No

Run task list

4. Open the top-level assembly in Creo.
5. Create a report by pressing *Run the task list* (F5).

Further actions

Make the task list for revising the old material files available to Creo users in Model Processor User.

13.3.2 Checking parameter set (1)

■ Reporting Parameters: Checking a library's default parameter set

Initial Situation: A company wants to determine how well its models adhere to the parameters defined as company standards.

Considerations:

- Who creates the report? Administrator → Task list for current model or in batch mode.
- Which parts are to be used for the report? All models in a library folder → Task list in batch mode
- Which model data are to be queried? All values of the parameters included in the default parameter set. → Task *Report Parameter*. The parameter set from the start model can be used.
- Which report type is needed? SQLite database or CSV file → Report Definition

Implementation:

Creating a task list in menu item ⚡ (see screenshot)

1. Create a template for reports in the section *Resources* selecting the task *Report Definition* or by clicking the plus icon within a report task.
 - a. Specify a file name, e. g.:
`%env:TEMP%\@date@_MDL_data.csv`

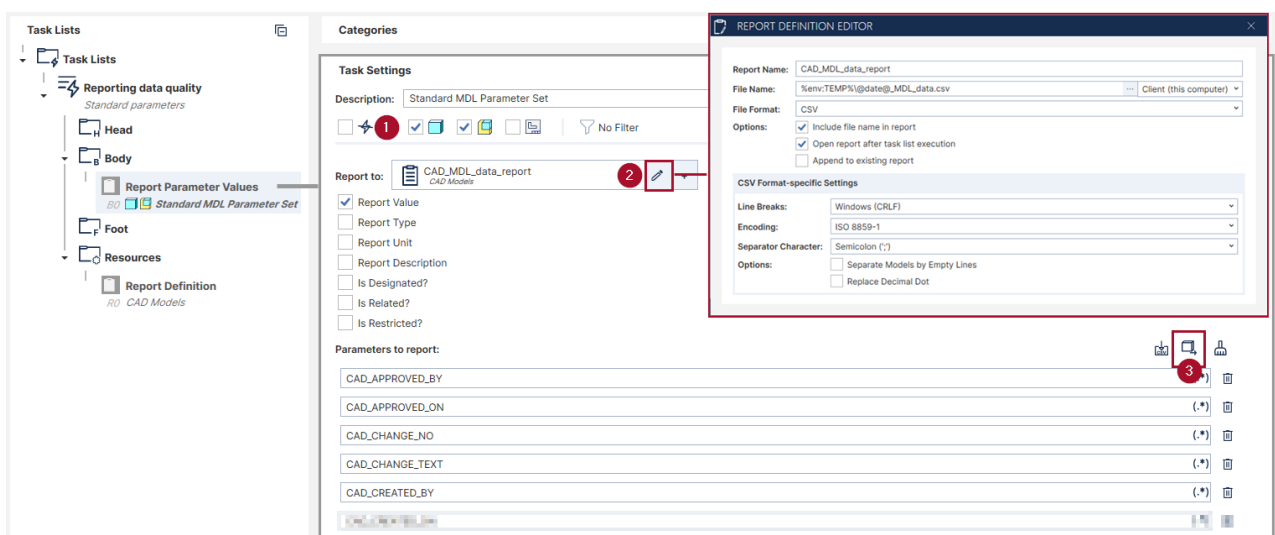
- b. Select a storage location: When using the Batch Mode, select *Client* as storage location.
 2. Create the task *Report Parameter* using the model filter *Assembly* und *Part*.
 - a. Import the parameter set from the current model: To do so, open the default startup model in Creo Parametric.
- All parameter names are imported as a list.

Creating a batch list in menu item

3. Create a batch list with an include rule. In the rule, specify the path to the folder containing the models whose parameters are to be included in the report.

Executing a task list in menu item

4. Set the batch mode to the batch list that you created.
5. Run the report using *Run Immediately (F5)*.



Tip: If you set a global user variable for your company name in the section *Resources*, the name can be used as a variable in the file name, e. g. *C:\TEMP\Creo\REPORTS\@date@_%user:COMPANY_NAME%_MDL.csv*.

13.3.3 Checking parameter set (2)

■ Reporting Parameters: Checking the standard parameter set on large assemblies

Initial Situation: A company wants to analyze the model parameters of its corporate standard across three large assemblies designed at different points in its history. This will provide a meaningful cross-section of data quality between older and newer models.

Considerations:

- Who creates the report? Administrator → Task list for current model or in batch mode.

- Which parts are to be used for the report? Three large assemblies → Task list for the current model; group-mode tasks for all model components.
- Which model data are to be queried? All values of the parameters included in the default parameter set. → Task *Report Parameter*. The parameter set from the start model can be used.
- Which report type is needed? CSV file, one line per model → Report Definition

Implementation:

Creating a task list in menu item ⚡

1. Create a template for reports in the section *Resources* selecting the task *Report Definition* or by clicking the plus icon within a report task.
 - a. Specify a file name, e. g.:
`%env:TEMP%\@date@_MDL_data.csv`
 - b. Select a storage location: When using the Batch Mode, select *Client* as storage location.
2. Create a group (task *Group*) in the section *Body*
 - a. using the group mode *All Model Components*
 - b. using the model filters *Assembly* and *Part*
3. Create a task *Report Parameter* within the group
 - a. Import the parameter set from the model: To do so, open the default startup model in Creo Parametric.

→ All parameter names are imported as a list.

Opening the assembly in Creo Parametric

4. Open the test model in Creo: top-level assembly

Executing the task list

5. Run the report using *Run Immediately (F5)*.

Tip: If you set a global user variable for your company name in the section *Resources*, the name can be used as a variable in the file name, e. g. `C:\TEMP\Creo\REPORTS\@date@_%user:COMPANY_NAME%_MDL.csv`.

13.4 Model rework

Follow the general workflow as described in the chapter [Reworking models](#) ³¹.

13.4.1 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](#) ⁵¹.

First Task list: Reporting output of existing parameters

Task	Task Settings
Body area	
Report Parameter Values ³⁰⁹	Add all relevant DESCR parameters under <i>Parameter Name</i> : DESCRIPTION_1, DESCR, and DESCRIPTION_1_DE.
(Category Report)	
Resources area	
Report Definition ²⁹⁰	Report Name: Parameter report
	File Name: e.g. %env:TEMP%\Quality.csv (temporary file)
(Category Report)	

2. Create the filter [Parameter Value](#) ³⁴⁷, see the chapter [Creating filters](#) ⁶⁹.

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  290 (Category Report)	Report Name: Before and after report. (This is required in the Body for every report task). 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	
Report Model Data  307 (Category Report)	Report to: Before and after report Solid: Unit System
Report Universal  312 (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  187)	Description: Migrate parameters Mode: Currently Reworking Model Filter: Add the filter you created in step 2.

Task	Task Settings
Resources area	
Add Parameter  248 (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
Edit Parameter  255 (Category Parameter)	Create an anonymous filter by clicking <i>Create Anonymous Filter</i> . 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 *. Description: from DESCR if it exists Search by: Name Search: DESCRIPTION_1_DE New type: String New value: %DESCR%
Edit Parameter  255 (Category Parameter)	Create an anonymous filter by clicking <i>Create Anonymous Filter</i> . 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 *. Description: from DESCRIPTION_1 if it exists Search by: Name Search: DESCRIPTION_1_DE New type: String New value: %DESCRIPTION_1%

Task	Task Settings
Resources area	
Group (Category Group ¹⁸⁷)	Description: Delete old parameters Mode: Currently Reworking Model Add a filter that checks whether the old parameters exist, to the filter in the <i>Edit Parameters</i> task.
Delete Parameters ²⁵¹ (Category Parameter)	Search in: Name Name parameter or value: – DESCR – DESCRIPTION_1_DE
Set Unit System ²⁴⁴ (Category Model Properties)	Description: mm-kg-sec Type: Millimeters - Kilograms - Seconds Conversion: Change values (1 m -> 39.37 in)
Report Universal ³¹² (Category Report)	Description: Separation column Report to: Before and after report Column Title: --- Matching value: ---
Report Model Data ³⁰⁷ (Category Report)	Description: AFTER: Unit system Report to: Before and after report Solid: Unit System

Task	Task Settings
Resources area	
Report Universal  312 (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>

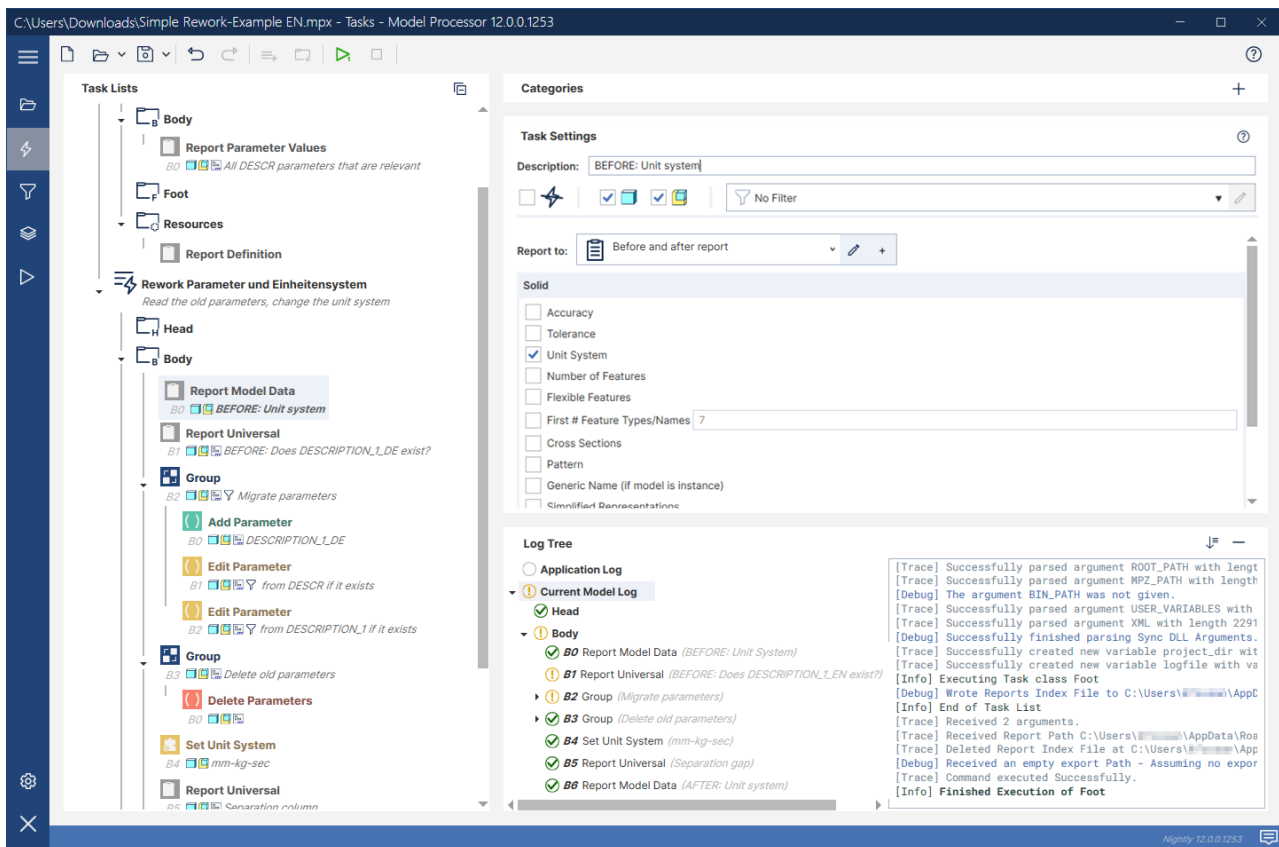
Testing the task lists

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	☐	String		 Full	User-Defined	☐
DESCR	bearing block	☐	String		 Full	User-Defined	☐

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.

14 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.

14.1 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. (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\$\$s\$\$	<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\$\$s\$\$	<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\$\$s\$\$	<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\$\$s\$\$	<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\$\$s\$\$	<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.</p> <p>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\$\$	Returns the sub-string from character A to character B-1 of the given string. The first character has the index 0, e.g.: \$\$sub\$1\$9\$Hello World!\$\$ 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
` (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

Operation	Description
	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 ""

– 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: <i>0.5</i> for <i>1:2</i> . 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: <i>1:2</i> for <i>1:2</i> . 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 '- '.

Text Operation	Description
@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 '- '.
@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 '- '.

– Features

Text Operation	Description
@featID@	Output of the ID of the feature
@featname@	Output of the name of the feature
@feattype@	Output of the type of the feature

– 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@	Points to the root directory of the extracted MPX files, e.g., @project_dir@\Materials\SteelGeneral.mtl or @project_dir@\reports\parameters.csv.

– Model information

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>
@genname@	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. <i>C:\</i>
@mdlpathr@	Output of the complete POSIX folder of the current model, e.g. <i>C:\</i>
@mdltype@	Output of the current model type (file extension), e.g. <i>asm</i>

Text Operation	Description
@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: <i>\Dampfmaschine.asm.2</i>
@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: <ul style="list-style-type: none"> – PRO_SOLID_CONNECT_FAILED – PRO_SOLID_FAILED_REGENERATION – PRO_SOLID_NEEDS_REGENERATION – PRO_SOLID_REGENERATED

– 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.

Text Operation	Description
@dateen@	Output of the current date in British format <i>dd-mm-yyyy</i> , e.g. 13-02-2025.
@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.

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 Value³⁴⁶ 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.

14.2 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.

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.

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.

RegEX-Editor

Use the RegEx Editor to check if a value matches a regular expression. To open the Editor, click the RegEx icon (.*). This feature is available in all fields that allow free-form text entry and support regular expressions, such as parameter names, e. g. parameter names. Enter the

regular expression you want to check in the field *Expression*. Right-click the RegEx icon to enable the interpretation of RegEx expressions ((.*) = Deactivated (default setting); (.*!) = Activated).

Under *Test Value*, enter one or more values. These values are not saved, but are used solely to verify whether the text matches the specified expression. If it does, the corresponding line is highlighted in green. Additionally, an icon at the end of the line indicates the status (✓ = match; ✗ = no match).

Test Value	Status
DESCRIPTION_2	✓
DESCRIPTION_a	✗
DESCRIPTION_231	✓
Type a test value here	

You can then enter the Expression in various ways into the text field from which you opened the RegEx Editor:

- *Insert Regex*

The input is inserted into the text field as a Regular Expression. Then, the Editor closes.

- *Insert Text*

The input is inserted as text into the text field. Then, the Editor closes. This is one way to disable RegEx.

Writing Guide

Character	Description
\	Indicates the following character as a special or verbatim character. For example "n" corresponds to the character "n". "\n" corresponds to a line-break character. The sequence "\\" corresponds to "\", "(" corresponds to "(".
^	Corresponds to the beginning of the input.
\$	Corresponds to the end of the input.
*	Corresponds to the proceeding character zero or multiple times. "zo*" matches e. g. "z" or "zoo".
+	Corresponds to the proceeding character one or multiple times. "zo+" for example matches "zoo", but does not match "z".
?	Corresponds to the proceeding character zero or one time. For example "a?ve?" matches the "ve" in "never".
.	Corresponds to all single characters except for a line-break character.
(Pattern)	Matches Pattern and saves the equivalent. The compared substring can be retrieved from the resulting matches listing using the elements [0]... [n]. For comparing of characters put in parentheses () use "(" or ")".
x y	Corresponds to either x or y. For example matches "l red" either "l" or "red". "(l r)ed" matches "led" or "red".
{n}	n is a positive integer. Corresponds to exactly n times. "o{2}" for example does not match the "o" in "Robert" but the first two "o"s in "Boooooat".
{n,}	n is a positive integer. Corresponds to at least n times. "o{2}" for example does not match the "o" in "Robert" but all "o"s in "Boooooat". "o{1,}" is equivalent to "o+". "o{0,}" is equivalent to "o*".

Character	Description
{n,m}	m and n are positive integers. Corresponds to at least n and maximum m times. For example "o{1,3}" matches the first three "o"s in "Boooooat". "o{0,1,}" is equivalent to "o?".
[xyz]	A group of characters. Corresponds to any of the included characters. "[abc]" for example matches the "a" in "falling".
[^xyz]	A group of excluded characters. Corresponds to any character not included. "[^abc]" for example matches the "f" in "falling".
[a-z]	A character range. Corresponds to any character in the specified range. For example, "[a-z]" matches any lowercase alphabetic character in the range from "a" to "z".
[^m-z]	An excluded range of characters. Corresponds to any character not included in the specified range. "[m-z]" for example matches all characters not included in the range from "m" to "z".

Examples

Regular expression	Description	Example
[a-zA-Z]*_[a-zA-Z]*-+,	Any alphabetic string with an underscore	user_tbx
[0-9]{5}	Five random numbers	12345
^.{7}\$	7 random characters	t_p.prt
^[A-Z]{1}[a-z]{2,10}	A capital letter at the beginning followed by two to ten lower case letters	Tuser
[0-9]{2}\.[0-9]{2}\.[0-9]{4}	German date format	01.07.1975
[0-9]{4}-[0-9]{2}-[0-9]{2}	Date format ISO 8601	1975-07-01

Regular expression	Description	Example
[0-9]{2}/[0-9]{2}/[0-9]{4}	Date format US	01/07/1975
[0-9]{2}-[a-zA-Z]{3}-[0-9]{4}	English date format	01-Jul-1975
[a-zA-Z]{3,9}\s[0-9]{1,2}, \s[0-9]{4}	English date format (long form)	July 01, 1975
(?!)^ (ST B00 DEF).* \$	<p>combstatefilter="(?!)^ (ST B00 DEF).* \$"</p> <p>All combined states that do not begin with ST, B00, or DEF are used. This filters out the Creo Parametric standard states "Default all".</p>	<p>Combined states are filtered with:</p> <p>ST*</p> <p>B00*</p> <p>DEF*</p>
^ABC	Starts with ABC	ABCDEF
ABC\$	Ends with ABC	UVWXYZ
^. {0,3}\$	String with a maximum of 3 characters	AB
^\d+\.\d+\.\d+\$	Version number	1.0.3
^[A-Z] {3}-\d{4}\$	Format	ABC-1234
\b[A-Z] {2}\d{6}\b	Serial number	AB123456
\s{2,}	More than one space (for format check)	Scale: 1:100
^DWG\d{6}\$	Drawing number	DWG123456
^\d+(\.\d+)?\s?(mm	Unit of measurement	cm
^\pm\d+(\.\d+)?\$	Tolerance specification	±0.2

Regular expression	Description	Example
<code>^\d{1,4}x\d{1,4}x\d{1,4}\$</code>	Dimension chain: width x height x depth	120x50x80
<code>^PART_[0-9]{3}\$</code>	part	PART_001

15 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](#) .

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.

16 Copyright

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