



UNLIMITED PLM PERFORMANCE DEVELOPED BY ISD

## HELiOS 2025 - What's new?

Version 2025

News Overview

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# Notes on HELiOS Updates

## Microsoft SQL Server

The SQL Server Native Client (often abbreviated to SNAC) has been removed by Microsoft from SQL Server 2022 (16.x) and SQL Server Management Studio 19 (SSMS). It is recommended to use the latest version of the Microsoft ODBC Driver for SQL Server instead.

Further information can be found on the [Microsoft](#) website or in the installation instructions for [Microsoft SQL Server 2022](#).

## HELiOS Workspaces: Conversion of the system directories

When updating from an older version to HELiOS 2025 (Version 30.0.0) or higher, please note that the directory structure will change. Since an automated migration is not possible, all users have to check out all data and empty their workspaces before installing the update to avoid data loss.

In previous versions, the workspaces were located at %localappdata%. This meant that different workspaces could be located on one system. To prevent this, the update to HELiOS 2025 will move the workspaces to the **%programdata%** directory.

Checked-out files are then stored at **%programdata%\ISD Software und Systeme\HELiOS Workspace\(...)\*\** (\*plus Location ID and User ID). The workspace databases are stored version-dependently at **%programdata%\ISD Software und Systeme\HELiOS <Version>\Location-ID\**.

## Notes on update installations

For an update installation of a HELiOS version older than HELiOS 2020 (version 2500), a central update of the supplied HELiOS database must be carried out..

Since conflict may occur during the update process in case of inconsistent data stocks, you should do the following:

- **Data backup before updating**

Make sure that a data backup was made before carrying out the update of your HELiOS database.

For the backup, either use the HELiOS Database Creator (further information can be found in the Installation Notes) or your SQL Server Application.

In case of any questions, or if you need any help with regard to your customized system architecture, contact the ISD Hotline.

- **Log file for update**

If any conflicts occur during the update, these will be recorded in the log file **HeliosDbUpdate.txt** (in the system path **%appdata%\ISD Software und Systeme\HeliosDbUpdate\**).

Have this file ready when contacting the ISD Hotline in case of an unsuccessful update, so that they can help you solve the problem and make a successful update.

- **New mask format**

Please read all notes on the new mask format introduced with HELiOS 2020 !

- **MultiCAD interfaces**

If you are working with a multi-CAD interface (e.g. the HELiOS-Inventor interface), please note that before installing an update of an older version to HELiOS 2020 (Version 2500) or higher, some adjustments may have to be made before the update.

In this case, please contact the Consulting department of the ISD Group.



# HELiOS Desktop

## Service Pack 2

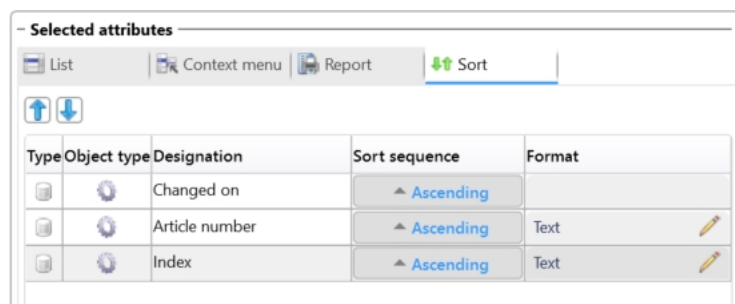
### Result lists

#### Sort

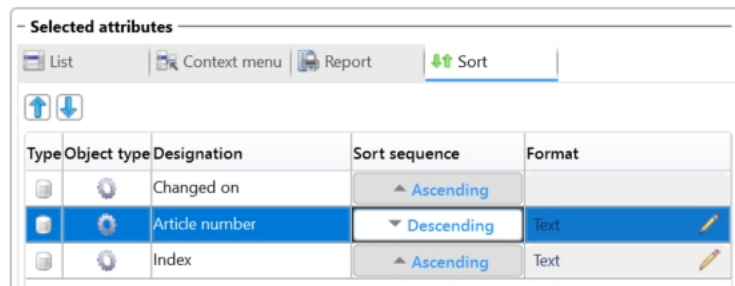
In the dialogue window for configuring attributes for result lists, you will find the new **Sort** tab.

In this submenu item, you can configure the default sorting for the respective result list. This is then applied both during the initial setup and each time a result list is refreshed (e.g. via F5).

Similar to the other tabs in the window, you can create a list of attributes that are then used to sort the result list in the specified order:

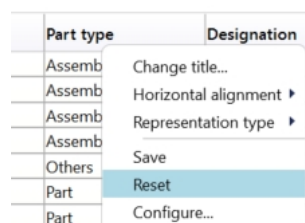


For each attribute, you can specify whether the attribute should be sorted in ascending or descending order (numerical, alphabetical). For example, always by the highest index (descending), but first by date from oldest to newest.



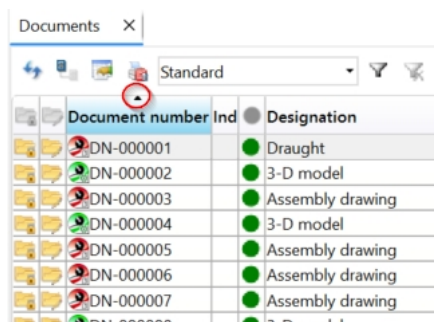
The attributes used for sorting do not necessarily have to be configured as visible columns in the result list in order to sort them.

Resetting result lists via the **Reset** function of the context menu also resets the sorting criteria.



## Sorting arrow

At the top of result lists, a sort arrow icon above the corresponding column indicates whether the result list is sorted by only one attribute (by clicking on the header of a column or by defining only one sort attribute in the result list configuration) in ascending or descending order.



Document number	Ind	Designation
DN-000001		Draught
DN-000002		3-D model
DN-000003		Assembly drawing
DN-000004		3-D model
DN-000005		Assembly drawing
DN-000006		Assembly drawing
DN-000007		Assembly drawing
DN-000008		3-D model

## Subsequent sorting

Subsequent or repeated sorting of result lists has been optimised so that the result list does not have to be loaded completely for sorting. This was previously necessary and resulted in a progress bar.

Apart from the fact that the loading of result lists, for example for UI and VA attributes, has been accelerated in general, they can now be sorted very efficiently for database attributes. Compared to HELiOS Version 30.0, performance in this area has improved by a factor of 20.

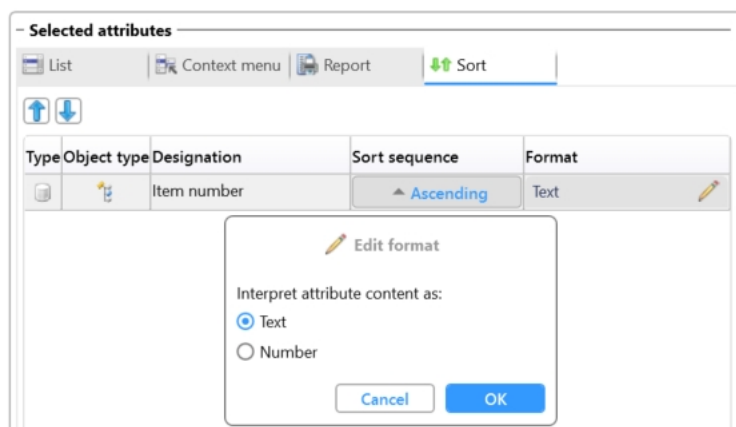
In earlier versions, when multiple sorts were performed in succession, the second sort was very fast (< 1 second) because the result list had already been loaded completely. This still applies to the sorting of UI attributes. When sorting by database attributes, however, each sort requires the time needed for the performance increase mentioned above.

The 'break-even' point in terms of time required is around 3 sorts, i.e. if the user were to perform many sorts in succession, the old method would be advantageous after this number of sorts.

For a certain transition period, we are offering the option of deactivating the subsequent sorting of result lists using the database server. If you require more information, please contact ISD Consulting.

## VARCHAR attributes as Text or Numbers

When sorting result lists, you can also configure attributes of type VARCHAR to be interpreted as **Numbers** instead of **Text**:



In some cases, lexicographical sorting can cause a sort to not be displayed exactly as desired. See the example of the Item number as **Text**:

Item	Qty.	CAD li	Article number	Ir	V	Designation
1	1	<input checked="" type="checkbox"/>	SN-025891	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	front side plate r
11	2	<input checked="" type="checkbox"/>	SN-025903	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Shock Bushing
12	1	<input checked="" type="checkbox"/>	SN-025894	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Front Shock Brace
13	2	<input checked="" type="checkbox"/>	SN-025901	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Front Lower Arm
14	1	<input checked="" type="checkbox"/>	SN-025895	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Front Lower Arm Brace
15	4	<input checked="" type="checkbox"/>	SN-025942	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ANSI B18.22.1 - No. 5 - narrow - Type
16	8	<input checked="" type="checkbox"/>	SN-025917	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	E-Clip
17	2	<input checked="" type="checkbox"/>	SN-025943	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ISO 4035 - M3ISO
18	6	<input checked="" type="checkbox"/>	SN-025944	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ISO 4762 - M3 x 12ISO
19	2	<input checked="" type="checkbox"/>	SN-025945	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ISO 4762 - M3 x 20ISO
2	1	<input checked="" type="checkbox"/>	SN-025893	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Front Upper Arm Mount
20	2	<input checked="" type="checkbox"/>	SN-025905	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Shock Absorber Front

If the format is changed to **Number**, the sorting will look as follows:

Item	Qty.	CAD li	Article number	Ir	V	Designation
1	1	<input checked="" type="checkbox"/>	SN-025891	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	front side plate r
2	1	<input checked="" type="checkbox"/>	SN-025893	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Front Upper Arm Mount
3	1	<input checked="" type="checkbox"/>	SN-025923	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Front Hub Carrier L
4	1	<input checked="" type="checkbox"/>	SN-025939	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Front Hub Carrier R
5	1	<input checked="" type="checkbox"/>	SN-025892	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	front side plate l
6	2	<input checked="" type="checkbox"/>	SN-025896	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Front Lower Hinge Pin
7	2	<input checked="" type="checkbox"/>	SN-025897	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Front Upper Hinge Pin
8	2	<input checked="" type="checkbox"/>	SN-025904	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Front Suspension Adjustment Clip
9	2	<input checked="" type="checkbox"/>	SN-025898	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	front Upper arm
11	2	<input checked="" type="checkbox"/>	SN-025903	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Shock Bushing
12	1	<input checked="" type="checkbox"/>	SN-025894	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Front Shock Brace
13	2	<input checked="" type="checkbox"/>	SN-025901	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Front Lower Arm
14	1	<input checked="" type="checkbox"/>	SN-025895	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Front Lower Arm Brace

### Utilized articles: Sequence in the product structure

A new virtual attribute (**VA\_StructureSequence**) has been created for the **Utilized articles** result list in a product structure context, which specifies the order in which an article appears in the product structure.

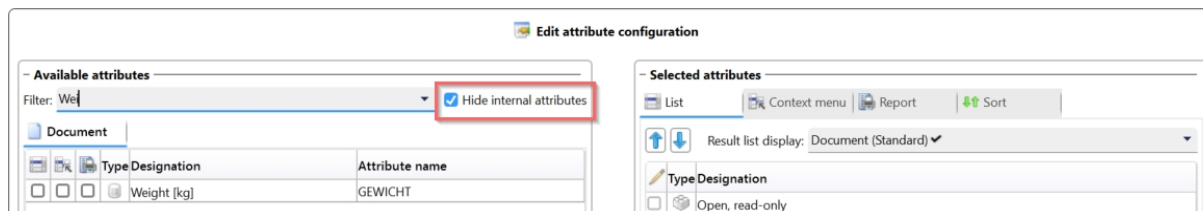
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Workflow status	VA_PartReleaseStatus
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sequence in the product structure	VA_StructureSequence
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Volume [mm³]	VOLUMEN

Attribute description:  
Sequence in which the article appears for the first time when running through the product structure

☒ Show column for attribute names

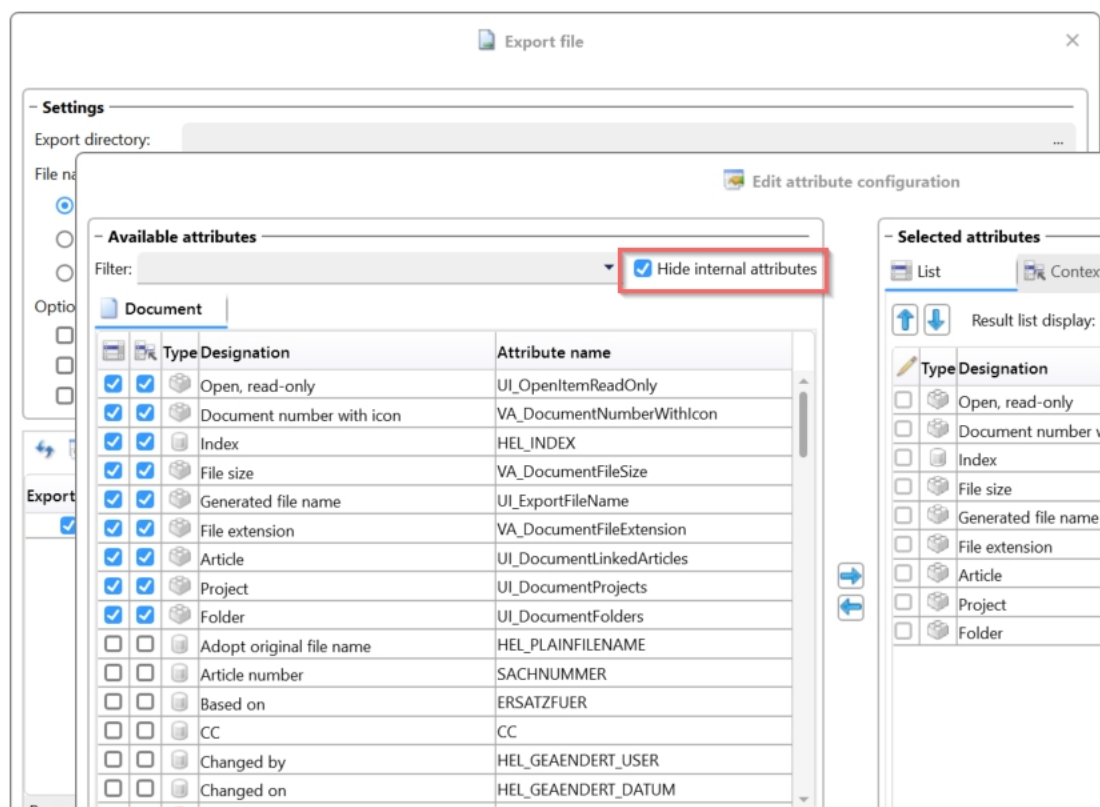
## Hide internal attributes

In the dialogue window for configuring attributes for result lists, you will find the new checkbox **Hide internal attributes**.



So-called internal attributes are HELiOS system attributes that are generally not relevant for end users when sorting result lists. They are therefore excluded from the display in the attribute configuration for result lists by default, but can be included by deactivating the checkbox.

You will also find this option in some submenu windows for attribute selection, such as for configuring a mask or defining attribute assignments in various contexts.



### Please note:

The actual result list display (i.e. the sum of all attributes configured for the result list) is not changed by this attribute classification. Internal attributes can also be displayed independently of this in the HELiOS interface by subtracting them from the list of available attributes using the active checkbox.



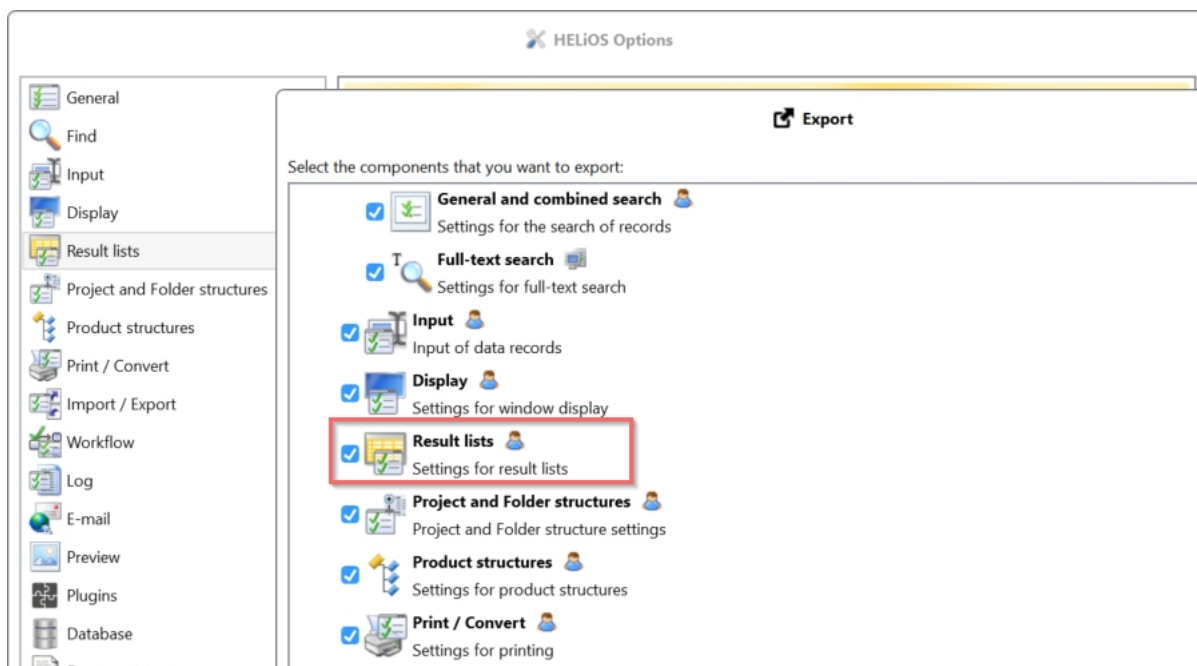
## Transfer of old options during update installation and option to import/export

In earlier HELiOS versions, the **Result lists** tab of the **HELiOS Options** offered the possibility to specify the default sort order for result lists.


These settings are automatically transferred by the HELiOS update and are now available in the configuration of the result list.

The older option for sorting according to occurrence in the product structure for **Utilized articles** corresponds to the new virtual attribute for the **Sequence in the product structure** (VA\_StructureSequence, see above), which is taken into account and implemented accordingly during the update.

In addition, the sorting criteria are also managed in the **Import/Export settings** window that you open via the **Manage...** button on the **Result lists** tab of the **HELiOS Options**:












## Partially activated checkboxes

During processes such as the derivation with links, activated checkboxes (checkmark symbol ) mark the linked objects that are derived (and remain linked) with the derivation.

The dash symbol  indicates objects that are linked to the derivation but are not derived themselves

**– Linked targets**

  Standard				
Derive and link	Number	Work	Locked by	
	 DN-000245			
	 DN-000000			
				

The state 'PartlyMarked' means that the element will only be linked.

Rows: 3



In earlier HELiOS versions, partially activated objects were indicated by a light grey border.

## Default of project and folder change behaviour

In the **HELiOS Options**, at **Find > Combined search**, you can make settings for the project change behaviour and folder change behaviour in the context of the so-called combined search:

Should changing a project or folder selection in a search mask also affect the other masks of the combined search?

The default setting for this is set to Project-independent or Folder-independent as of Service Pack 2. This means that a project or folder selection in the active mask does not automatically affect the corresponding setting in the inactive search mask. However, if this is desired, you can of course continue to set the behaviour in the options to basically adopt the project/folder change of the active mask in the inactive one as well.

**– Combined search**

Project change behaviour:

☐ Same project in all masks  
☐ Different projects in all masks  
☒ Always project-independent in non-active mask

Folder change behaviour:

☐ Same folder in all masks  
☐ Different folders in all masks  
☒ Always folder-independent in non-active mask

## Print (Spooler)

### Bundling



When printing documents via the **Print (Spooler)** function, the bundling option has been expanded:

To process any series of print jobs sent from your client in a single group without them being "mixed" with print jobs from other clients, you can activate the corresponding checkbox to set one of the following procedures for bundling the print job:

- **All:** If this checkbox is activated, series of print jobs sent from your client are sent and processed as a group. Different index levels of a document that have been selected for output are not necessarily processed 'separately' (i.e. other documents can be output in the processing sequence of the bundle "between" the different index levels of a particular document).
- **Document (index-independent):** If this option is activated, HELiOS documents with multiple sheet areas are converted into separate documents, with one document containing each HELiOS sheet area on a separate page. Different index levels of a document are processed in batches, i.e. output one after the other.

**Print (Spooler)**

**Printer**

☒ Assign automatically  
Default

☐ Select manually  
Adobe PDF

**General**

Copies: 1

Colour: ☒

Orientation: ☒ Automatic ☐ Portrait ☐ Landscape

Output-date-time: ☒ Immediately ☐ Options

**Bundling:** ☒ None ☐ All ☐ Document (index-independent)

Priority: 1

**Page setup**

Paper format: Automatic

Paper tray: Automatically Select

Postprocessing: None

Scale: ☒ Automatic  
☐ Scale: 100 %  
☒ Scale line widths

Page margins...

☐ Banner...

**Sheet area selection**

☒ User-defined  
☐ All  
☐ As last saved  
☐ Include model area


Print	Document number	Ind	Wo	Designation	Article	Project	Folder
<input checked="" type="checkbox"/>	DN-000005			Assembly drawing	SN-000003	PN-01-06-K	
<input checked="" type="checkbox"/>	DN-000006			Assembly drawing	SN-000004	PN-01-06-K	
<input checked="" type="checkbox"/>	DN-000007			Assembly drawing	SN-000005	PN-01-06-K	

Rows: 3

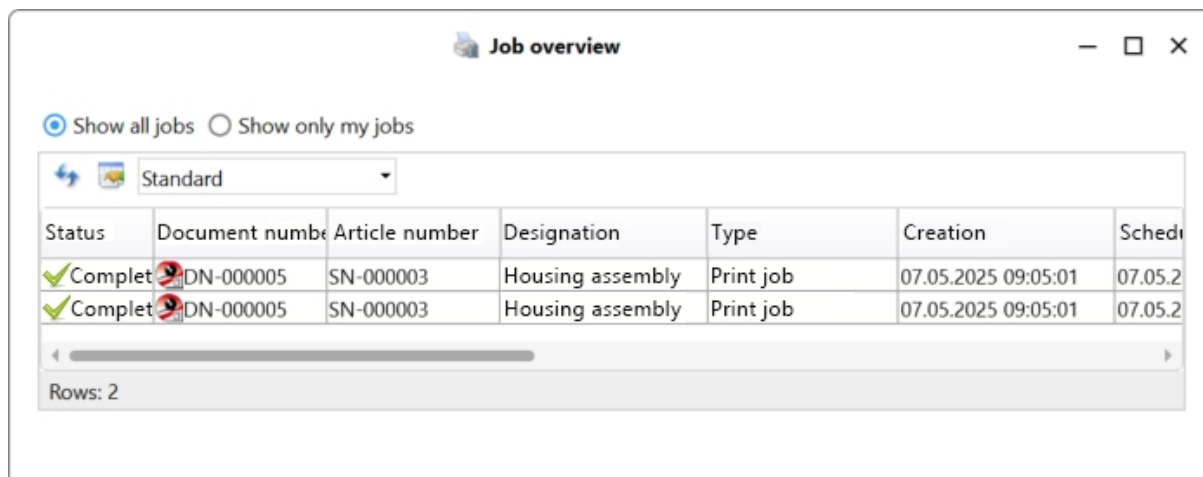
File name for neutral format: Standard

Cancel OK

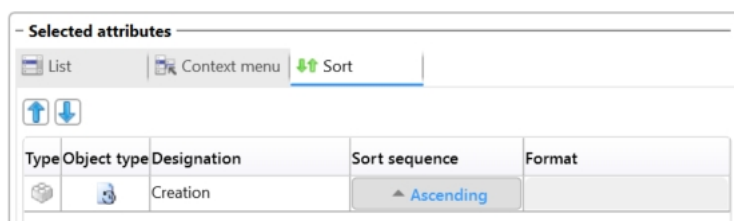
## Job overview


With the update to Service Pack 2 for HELIOS 2025, you will find the new menu item **Job overview**  in the **Extras** ribbon of the HELIOS Desktop.

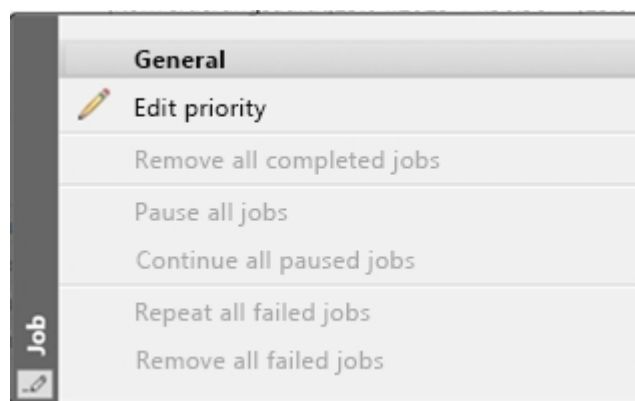
This displays an overview of all print jobs that have been started, are still in development or have been completed, similar to the **HELIOS Spooler Admin Tool**.



The result list configuration options of the HELIOS Desktop, such as the new definition of default sorting criteria, are also available.



In addition, you can influence the processing order in a queue of several print jobs that have not yet been completed using the context menu function  **Edit priority**.



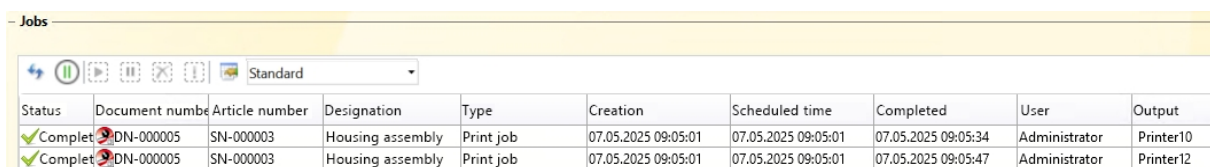
## Output different formats of a print job on different printers

If a file, such as a PDF or a HiCAD drawing (SZA), contains sheets with different formats (e.g. A4 and A3), the HELiOS Spooler used to base the printer assignment on the first sheet of the file. This could result in only excerpts of the following sheets with larger formats being printed.

Starting with Service Pack 2 of HELiOS 2025, the HELiOS Spooler also takes into account different paper formats within the print job on a page-by-page basis.

This means that if you print a drawing file containing different paper formats via the spooler, these will be output to different printers according to the printer assignments in the HELiOS Spooler Admin Tool, provided that the appropriate assignments for the respective formats exist.

In the job overview under **Output**, you can see how the print jobs for such documents are distributed to different printers, for example:



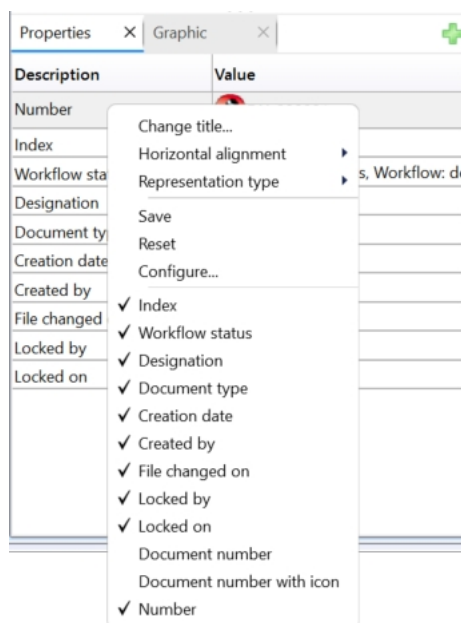
Status	Document number	Article number	Designation	Type	Creation	Scheduled time	Completed	User	Output
Complete	DN-000005	SN-000003	Housing assembly	Print job	07.05.2025 09:05:01	07.05.2025 09:05:01	07.05.2025 09:05:34	Administrator	Printer10
Complete	DN-000005	SN-000003	Housing assembly	Print job	07.05.2025 09:05:01	07.05.2025 09:05:01	07.05.2025 09:05:47	Administrator	Printer12

For file formats such as PDF, you can see in the log file of a print job that different pages of a document have been sent to different printers.

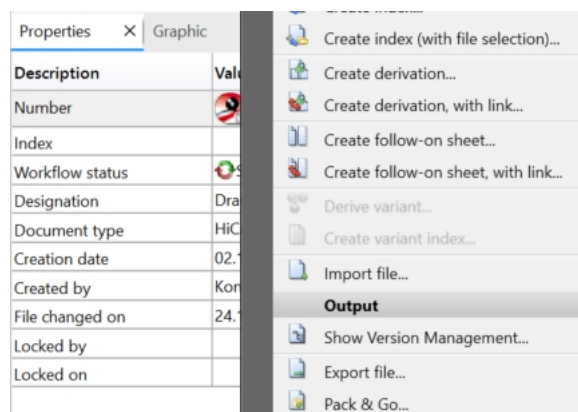
## Context menu in the Value column of the Properties window

The **Properties** window displays the context-related data that you entered when creating the object (Project, Folder, Product, Class). Here, too, you can configure the selection of the displayed attributes.

Previously, only a context menu was available in the entire area for configuring the current **Properties** window itself.

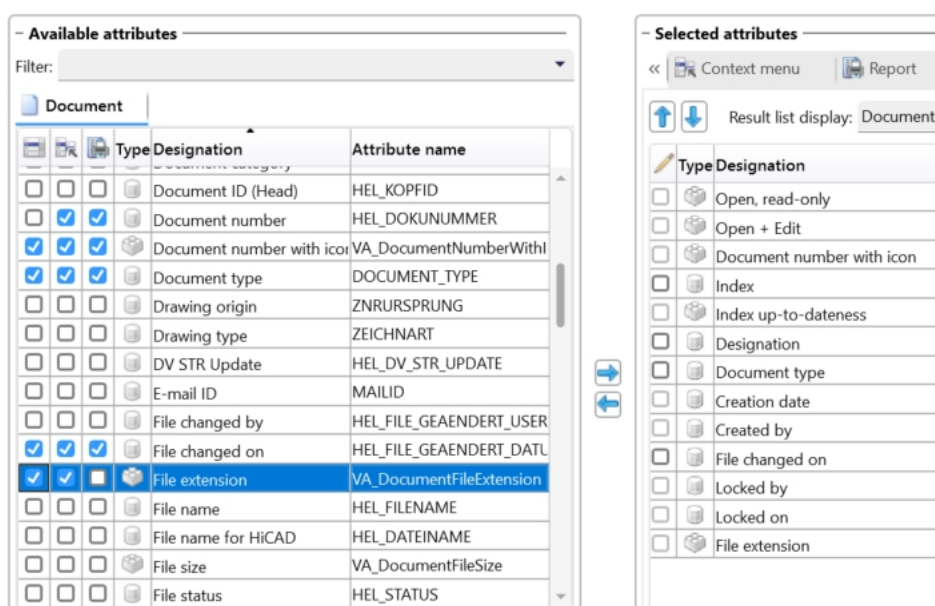


As of Service Pack 2, a right-click on the **Value** column opens the object type-related context menu for the HELiOS object currently displayed in the **Properties** window.



## Virtual document attribute: File extension

The new virtual database attribute **VA\_DocumentFileExtension** (Designation: **File extension**) displays the extension for the associated file of a document in the document context (e.g.: '.sza', '.pdf', '.txt' etc.).




Documents

Standard

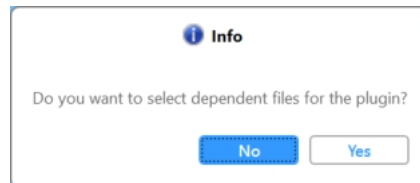
	Number	Ind	Designation	Document type	File extension
	DN-00026		Gear wheel geometry 2-D	HiCAD Drawing	.sza
	DN-00033		Production drawing	HiCAD Drawing	.sza
	DN-00034		3-D model	HiCAD Part/Variant	.kra
	DN-00035		3-D model	HiCAD Part/Variant	.kra
	DN-00036		Production drawing	HiCAD Drawing	.sza
	DN-000242		Word Document	Office Document	.docx
	DN-000243		Word Document	Office Document	.docx
	DN-000244		Word Document	Office Document	.docx

## Plugin management in the HELiOS Options

With the update to HELiOS 2025 Service Pack 2, customer-specific plugins are managed in the new Options sub-menu at **HELiOS-Optionen > Plugins**.

By clicking on  a new plugin can be added to the **List of available plugins**. The Windows Explorer file selection window opens, where you must select the corresponding DLL of the desired plugin.


After selecting the DLL, a query appears asking whether the plugin includes additional files:



When you click **Yes**, another file selection dialogue box opens, in which you can select one or multiple files belonging to the plugin.

These may be additional DLLs required by the plugin or settings files that are essential for the plugin.

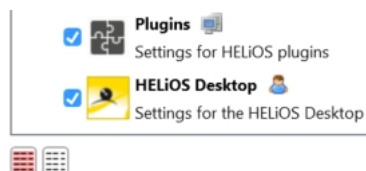
After selection, the new plugin is displayed in the list:



Loading behaviour	Loaded	Signed	Name
Load	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ExamplePlugin1

You can also influence the **Loading behaviour** of plugins there.

The settings for the plugins are stored on a computer-specific basis, i.e. every HELiOS user logged on to a computer will see the same plugins with the same options regarding loading behaviour when starting HELiOS. The settings can be transferred to other computers using the export and import mechanism for HELiOS Options:



Note that customer-specific plugins currently entered in HELiOS.exe.config will not be automatically transferred to the new mechanism when updating to 30.2.0 or higher. They must therefore be re-entered once. In future versions, a HELiOS update will then automatically update the settings for the plugins stored in the HELiOS Options. Only the plugins themselves may need to be updated across release cycles.

Please also note that, starting with version 30.2.0, plugin management via the HELiOS options replaces the manual adjustments to the HELiOS.exe.config file that were necessary in earlier versions, and that a HELiOS installation therefore no longer contains a Plugins folder at (...)\\exe\\.

When updating a HELiOS Desktop in standalone mode, the update automatically creates a backup of the old plugin directory. Updating a HiCAD/HELiOS installation does not do this, as the installation cannot distinguish between HiCAD and HELiOS plugins.

If a plugin has been copied to the \\exe\\ folder of HELiOS by mistake, you will receive an error message asking you to remove the plugin DLL from the invalid location and restart HELiOS.

## Activate functionality for HiCAD Plant Engineering

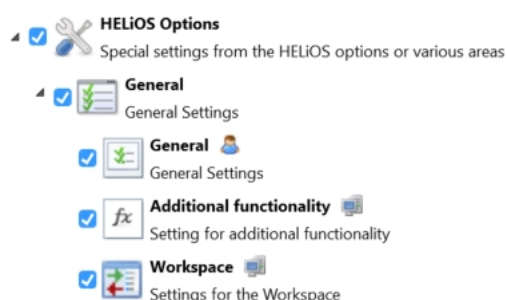
With the update to Service Pack 2 of HELiOS 2025, you will find the new submenu item **Additional functionality** at **HELiOS Options > General**.

There, you can enable the functionality for HiCAD Plant Engineering (handling pipe classes and variants) for the HELiOS Desktop by activating the checkbox.

The new option replaces the activation/deactivation of the functionality via HELiOS.exe.config.

The setting is saved on a computer-specific basis and can be transferred to other computers using the export and import mechanism for HELiOS Options.

There, it is offered in the selection menu, under **General**, with the **Additional functionality** checkbox:



When updating from a lower HELiOS version to (version 30.2 or higher, or when reinstalling HELiOS Service Pack 2), this checkbox must be activated once if the corresponding plugin (Helios.Custom.HicadPlugin) was previously active.

## HELiOS Mail Proxy

Until now, emails were sent via HELiOS using the SMTP protocol with plain text authentication.

In order to take into account other security requirements for system architectures and future developments in the area of Exchange Online, a new server application will be available from HELiOS 2025 SP 2 with the **HELiOS Mail Proxy**, which regulates the sending of mail from HELiOS clients to a configured mail server.

Nothing will change for running systems at this point, i.e. switching to the **HELiOS Mail Proxy** is not mandatory at this time.

For more information, please refer to the HELiOS installation manual.

## Asynchronous execution of viewers

HELiOS now also supports viewers integrated into HELiOS that support asynchronous execution.

For users, this means that HELiOS remains operable even when a preview is being built.



## Improvements and performance increases

Optimised processes and improvements have been achieved for HELiOS 2025 with Service Pack 2 in several areas.

This includes the error output process during update installations.

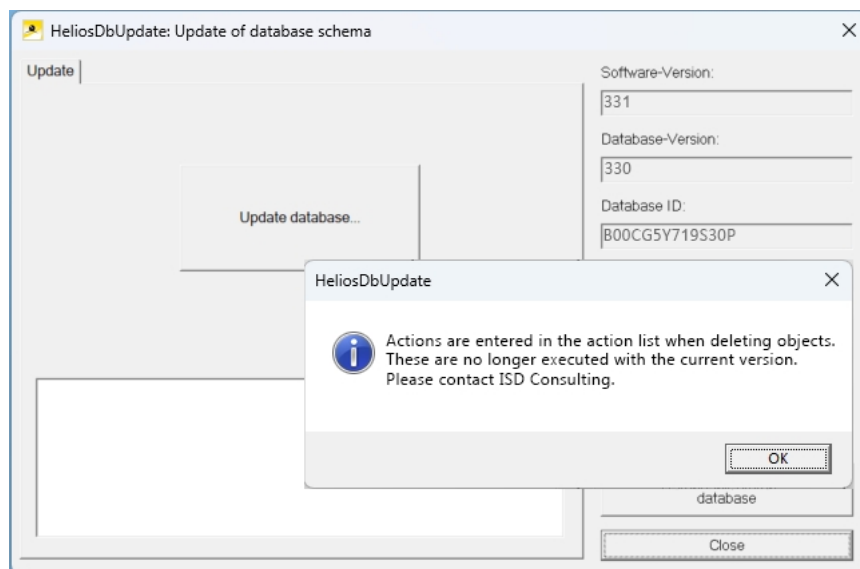
A further significant performance increase has been achieved when deleting multiple HELiOS objects at once.

In the event of a serious error (e.g. connection to the database is lost), the HELiOS Client writes the files to be deleted to the log file ArticleDeletion.log under %APPDATA%\ISD Software und Systeme\<ProductVersion>\Logging\Core\.

These entries can be used to repeat the deletion later (manually) and look as follows:



```
17.04.2025 14:54:36  
Konstrukteur2;Head: B004URKMOE3KZ300003JKL, Rev: 0;
```

Please also note at this point that deletion processes via workflow action lists are no longer possible due to the restructuring. If such an action is still configured in HELiOS, the following information message appears during the database version update (the update is still carried out):

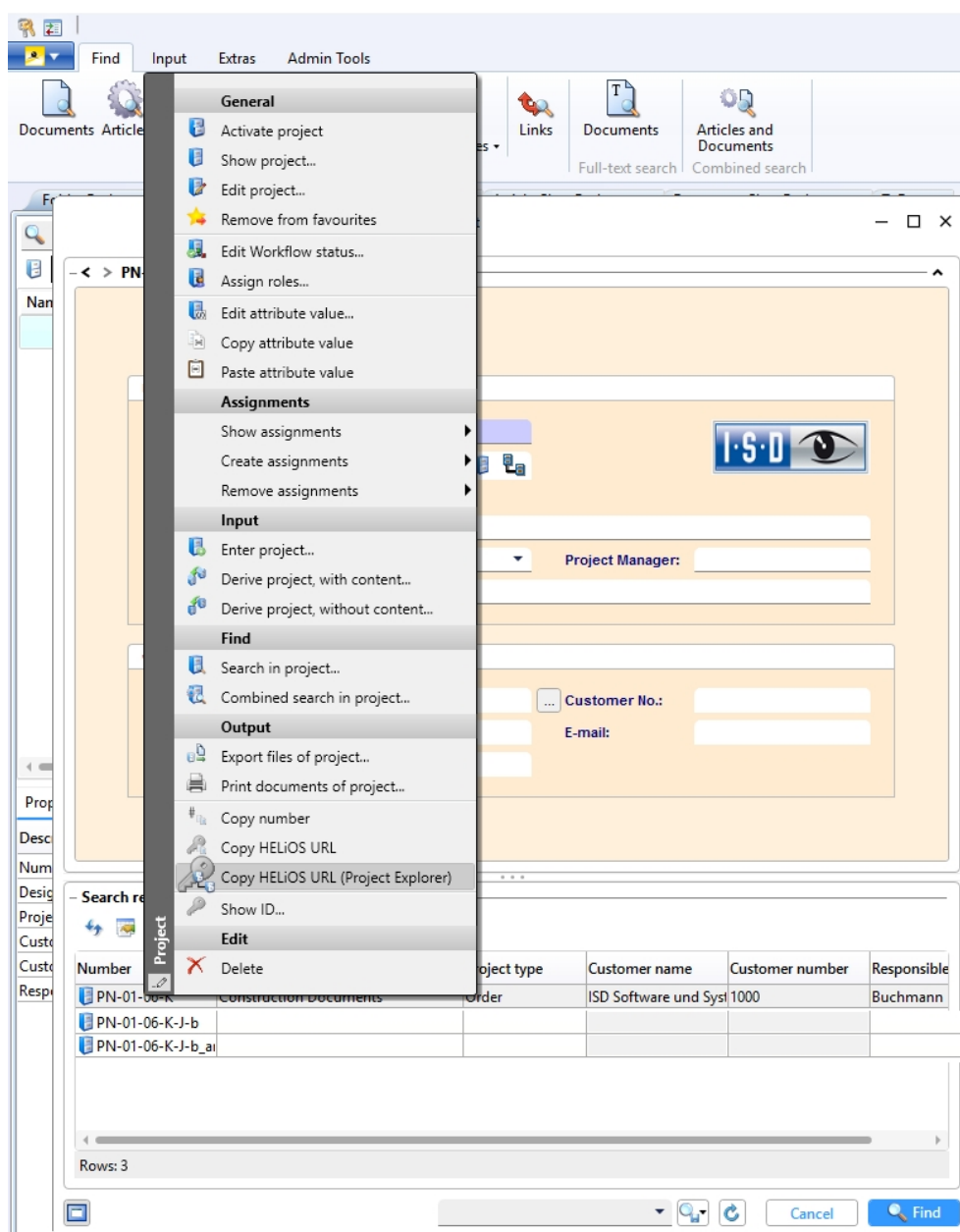


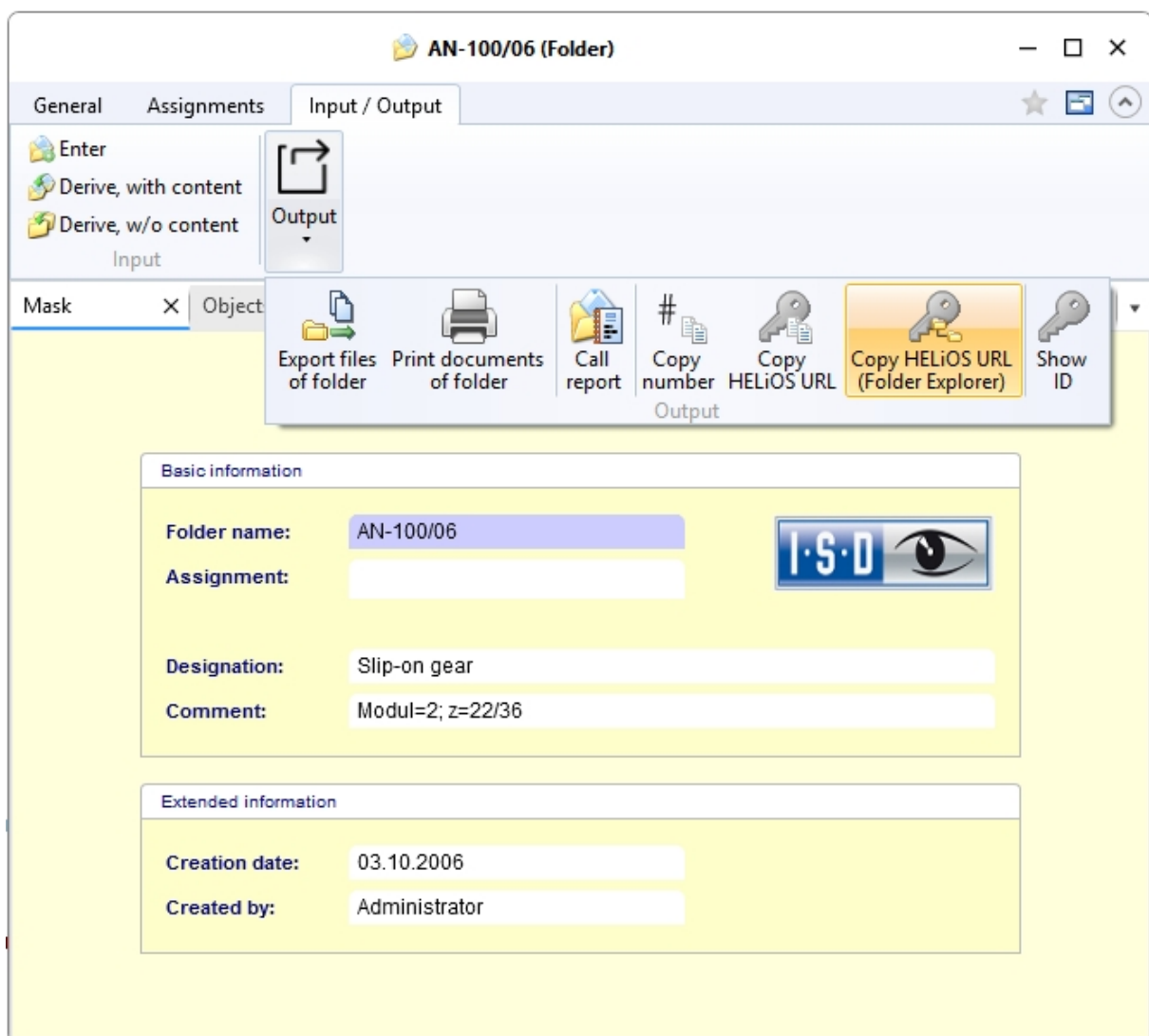
## Service Pack 1

### Project Explorer / Folder Explorer: Copying the HELiOS URL, Revised UI

The context menus for projects and folders, as well as the Ribbon menus for the project and folder detail masks, now include the new functions **Copy HELiOS URL (Project Explorer)**  and **Copy HELiOS URL (Folder Explorer)** .

These functions can be used to copy the HELiOS URL of a project or a folder, including a call-up in the corresponding Explorer area to the clipboard.





In addition, the user interface behaviour in HELiOS Desktop and coupled applications has been further adapted and improved:

The Explorer areas of HELiOS can also be opened in several instances at the same time, in order to perform drag & drop actions between them, etc.


## Export file and Pack & Go

With Service Pack 1, the dialogue windows for exporting files or sending HELiOS documents as e-mail attachments have been revised.

The additional settings dialogue has been removed.

Another new feature is the **Pack & Go**  document output function..

In contrast to the Export file function from HELiOS, the output via **Pack & Go** is designed to export related subsets of data, such as CAD structures, while taking referenced documents (from the document/model structure) into account.

 **Pack & Go**

For the selected document masters, all other documents referenced by them are also offered for export. The file name can only be selected for the topmost of these documents; all others are exported as saved.

**Settings**

Export directory:

☒ Copy to individual path
 ☐ Keep folder structure


File name:











☒ Attribute assignments Standard
☒ Replace invalid characters with underscore (\/:\*?<>|").

☐ Individual specification  
☐ As saved

Options:

☐ As ZIP archive ZIP archive name .zip  
☐ With export information


Standard

Document number w/Ind	File size	Generated file name	Extension	Article	Project	Folder
 DN-000001	2355,48 KB	DN-000001	sza	SN-000001	PN-01-06-K	AN-100/
 DN-000002	1172,04 KB	DN-000002	kra	SN-000002	PN-01-06-K	
 DN-000003	1386,29 KB	DN-000003	sza	SN-000002	PN-01-06-K	
 DN-000004	507,02 KB	DN-000004	kra	SN-000003	PN-01-06-K	
 DN-000005	626,56 KB	DN-000005	sza	SN-000003	PN-01-06-K	
 DN-000006	614,08 KB	DN-000006	sza	SN-000004	PN-01-06-K	
 DN-000007	501,75 KB	DN-000007	sza	SN-000005	PN-01-06-K	
 DN-000008	162,15 KB	DN-000008	kra	SN-000006	PN-01-06-K	
 DN-000009	482,53 KB	DN-000009	sza	SN-000006	PN-01-06-K	
 DN-000010	199,12 KB	DN-000010	kra	SN-000007	PN-01-06-K	

Rows: 10
< >

Cancel
OK

## Print (Spooler)

### Automatic selection of paper format



When printing HELiOS documents via **Output > Print (Spooler)**, the default setting for the **Paper format** is now set to **Automatic**.

**Print (Spooler)**

**Printer**

☐ Assign automatically  
Default

☒ Select manually  
\\dedtms16\DEDTM-Printer10

**General**

Copies: 1

Colour: ☒ Colour ☐ Black and white

Orientation: ☒ Automatic ☐ Portrait ☐ Landscape

Output-date-time: ☒ Immediately ☐ Options: [icon]

☐ Bundle

Priority: 1

**Page setup**

Paper format: **Automatic**

Paper tray: Auto source selection

Postprocessing: None

Scale: ☒ Automatic ☐ Scale: 100 % ☒ Scale line widths

Page margins... [icon]

Banner... [icon]

**Sheet area selection**

☒ User-defined ☐ All ☐ As last saved ☐ Include model area

Standard

Print	Document number w/Ind	Wc Designation	Article	Project	Folder	Sheet area
<input checked="" type="checkbox"/>	DN-000001	Draught	SN-000001	PN-01-06-K	AN-100/06	Sheet 1
<input checked="" type="checkbox"/>	DN-000003	Assembly drawing	SN-000002	PN-01-06-K		Sheet 1
<input checked="" type="checkbox"/>	DN-000005	Assembly drawing	SN-000003	PN-01-06-K		Sheet 1
<input checked="" type="checkbox"/>	DN-000006	Assembly drawing	SN-000004	PN-01-06-K		Sheet 1
<input checked="" type="checkbox"/>	DN-000007	Assembly drawing	SN-000005	PN-01-06-K		Sheet 1

Rows: 5

File name for neutral format: Standard

Cancel OK

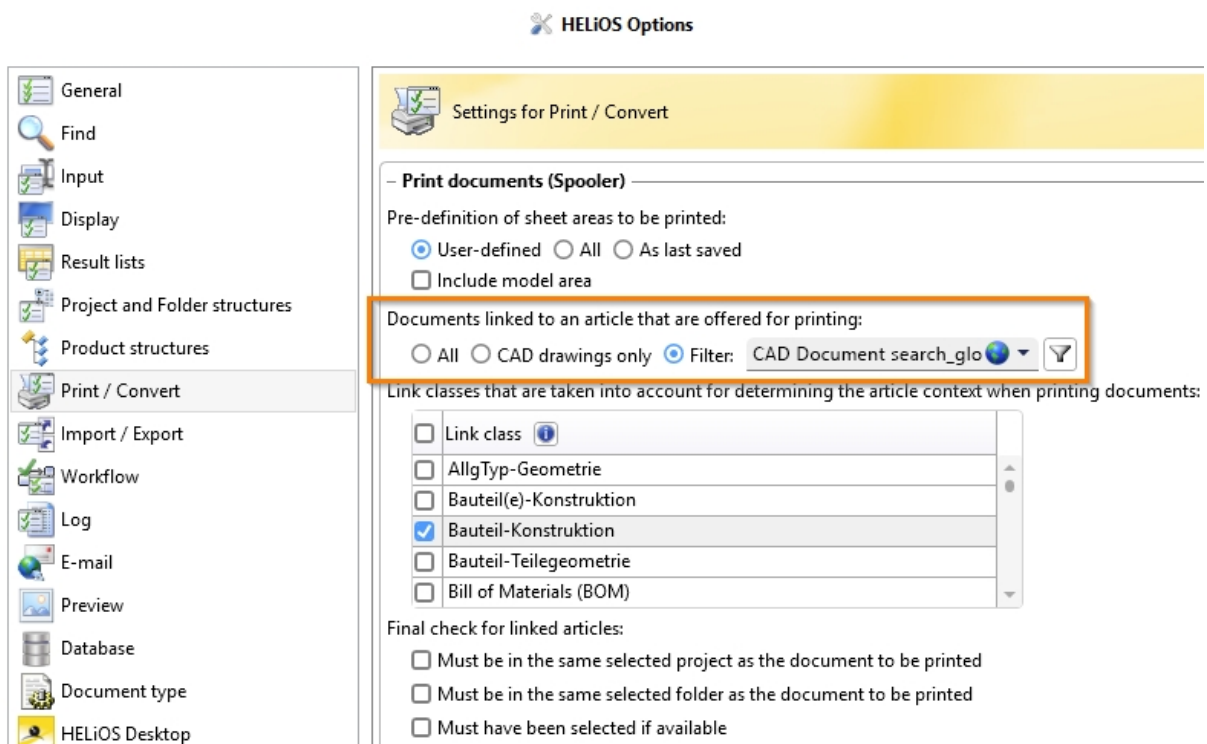
## HELiOS Options: Documents linked to an article that are offered for printing

In the **HELiOS Options**, on the **Print/Convert** tab, you can use the new sub-menu item **Documents linked to an article that are offered for printing** to set which documents are included in the context of articles when the **Print linked documents** function is used.



You can choose between three options:


- **All:** With this option (default setting), all documents linked to the article are included.
- **CAD drawings only:** If this checkbox is activated, only system links with which CAD drawings are linked to an article in HELiOS by default are taken into account.
- **Filter:** By activating this option, you can select a global, user-defined document search template that is used to determine the relevant documents.




## HELiOS-Options: Link classes that are taken into account for determining the article context when printing documents

Another new menu entry at **HELiOS Options > Print/Convert** allows you to set the linkage classes that are used to determine the item context when printing documents.

Link classes that are taken into account for determining the article context when printing documents:

<input type="checkbox"/> Link class 
<input type="checkbox"/> AllgTyp-Geometrie
<input checked="" type="checkbox"/> Bauteil(e)-Konstruktion
<input checked="" type="checkbox"/> Bauteil-Konstruktion
<input type="checkbox"/> Bauteil-Teilegeometrie
<input type="checkbox"/> Documentation

By default, the link classes relevant for determining the part context are activated here. In principle, you can add or remove further links by clicking the checkboxes. You can also deselect all entries if you prefer a document output without taking the part context into account.

Clicking on  in the sub-menu's header displays a result list of all link classes.

Name	Source class	Cardinality	Target class	Description	Release-relevance	Automation, source	Automation
3DAssy-PID	Dokumentversion	3	Dokumentversion	Linkage of assembly (3D referenced part) and P&ID chart	0	1	1
3DPlant-PID	Dokumentversion	3	Dokumentversion	Linkage of Plant Engineering drawing and P&ID chart	0	1	1
AllgTyp-Geometrie	Bauteilversion	4	Dokumentversion	Allgemeiner Typ mit VAA-Dokument	0	0	2
AllgTyp-Variante	Bauteilversion	2	Bauteilversion	General type with sub-types	0	2	1
AnlBauteil-ZubSatzN	Bauteilversion	3	Bauteilversion	Linkage of part and accessory set	0	0	0
Bauteil(e)-Konstruktion	Bauteilversion	3	Dokumentversion	Model/Drawing with several single parts	0	1	1
Bauteil-Konstruktion	Bauteilversion	3	Dokumentversion	Model, Part/assembly drawing	2	1	1
Bauteil-Teilegeometrie	Bauteilversion	3	Dokumentversion	3-D body, 2-D figure	2	1	1
Documentation	Bauteil	3	Dokument	General version-independent supplementary documentation for one or several part(s)	0	0	0
Document-Document	Dokumentversion	3	Dokumentversion	Link between two documents	0	1	1
E-Mail Attachment	Dokumentversion	3	Dokumentversion	E-Mail Attachment	0	1	1
Markup	Dokumentversion	3	Dokumentversion	Links an original document to a document with notes information (markup/redline)	0	0	0
Markup abgelehnt	Dokumentversion	3	Dokumentversion	Verknüpft ein Originaldokument mit einem Dokument mit Notizinformationen (Markup/Redlin)	0	0	0
Notizdokument	Dokumentversion	3	Dokumentversion	Verknüpft ein Originaldokument mit einem Dokument mit Notizinformationen (Markup/Redlin)	0	0	0
Notizdokument abgelehnt	Dokumentversion	3	Dokumentversion	Verknüpft ein Originaldokument mit einem Dokument mit Notizinformationen (Markup/Redlin)	0	0	0
Notizdokument angenommen	Dokumentversion	3	Dokumentversion	Verknüpft ein Originaldokument mit einem Dokument mit Notizinformationen (Markup/Redlin)	0	0	0
Part-Document	Bauteilversion	3	Dokumentversion	Link between a part and a document	0	1	1
Pipeline-Isometry	Bauteilversion	3	Dokumentversion	Linkage of referenced part of pipeline and isometry document	0	1	1
Pipeline-Layoutplan	Bauteilversion	3	Dokumentversion	Linkage of referenced part of pipeline and Plant Engineering drawing	0	0	1
Pipeline-Spool	Bauteilversion	3	Dokumentversion	Linkage of referenced part of pipeline and spool document	0	1	1
Teilegeometrie-Konstruktion	Dokumentversion	3	Dokumentversion	3-D body, 2-D figure, linked to Model/Drawing	1	0	1

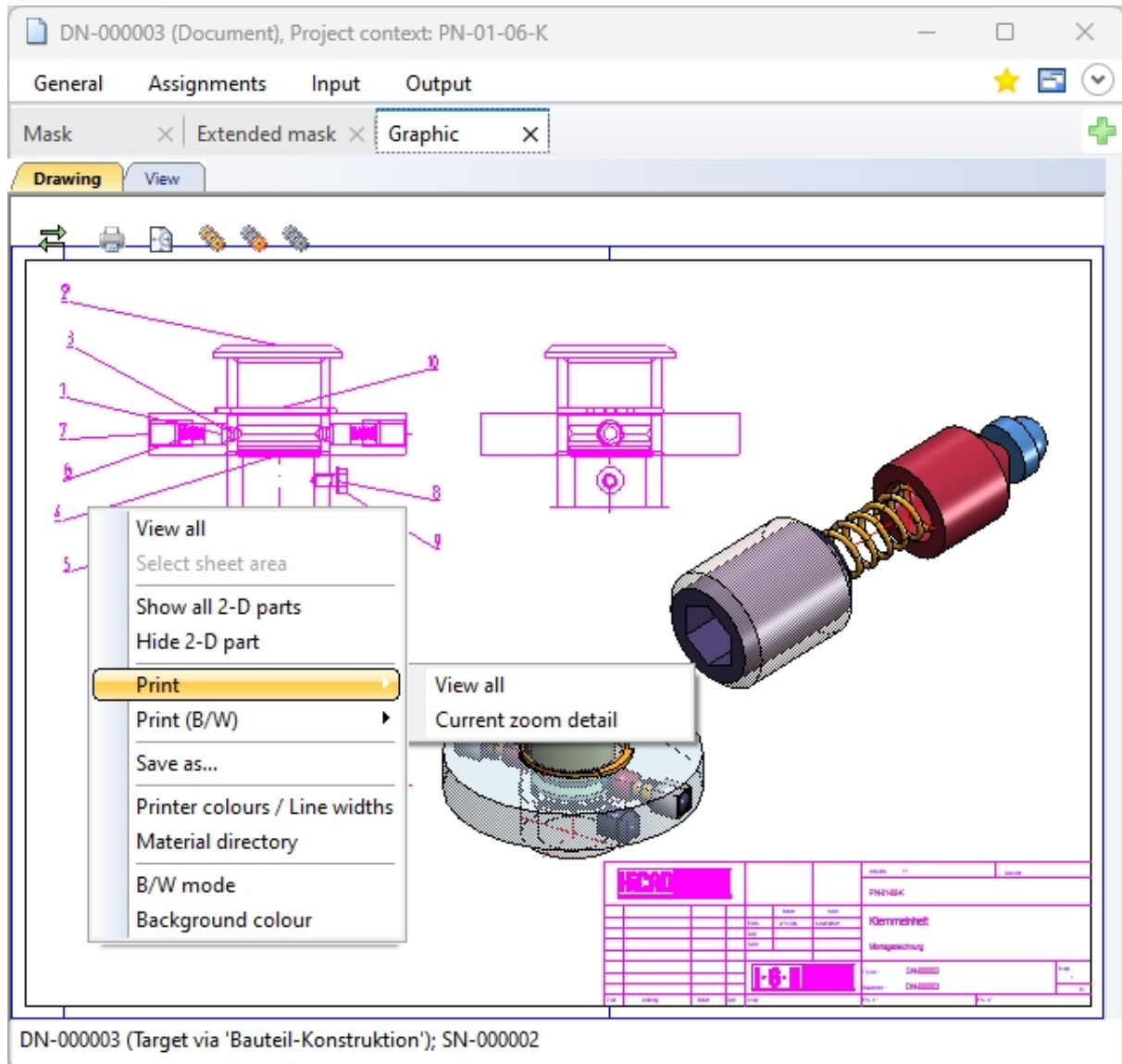
Rows: 21

## Improved user guidance

In addition to the above-mentioned innovations, the update to Service Pack 1 also improves user guidance in the print dialog, for example with regard to information and error messages.

## HiCAD Viewer: Project and folder context

The display of the HiCAD Viewer now takes into account any clear project/folder assignments of HELiOS documents, if available.





## HELiOS Options: Attribute assignments for Cadmium Cloud

In the HELiOS Desktop, the new sub-menu area **Attribute assignments for Cadmium Cloud** can be found at **HELiOS Options > Preview**.

Here, you can define the assignments of HELiOS attribute assignments for the display name and the description of documents in the Cadmium Cloud preview.

✂ Attribute assignments for export from HELiOS

Type: Model property + ✗ ↑ ↓ ✎ 📄

Filter: + **Create new attribute assignment for a model property**

**Source**

+ ✗ ↑ ↓ + ✎ Converter:

Value	Converter
<span>📄</span> Document type (DOCUMENT_TYPE, Document)	<span></span>

**Destination**

Property: Description

**Constraint**

Name:

Cancel OK

In the Workspaces display in the Cadmium Cloud, this corresponds to the columns "Display name" and "Description":

Id ↑	Display name	Description	Date	GUID	File Size	Upload state	Creator
------	--------------	-------------	------	------	-----------	--------------	---------

## Performance optimisation of the PDF preview

The performance of the PDF preview in HELiOS has been significantly improved.

## System link

The new **System link** attribute has been created in the HELiOS database for **link classes**.

A new column has been added to the corresponding overviews:

Name	Source class	Release	Target class	Description	Link type	Automation ...	Automation t...	Creation with wri...	Creation with wri...	Display-rele...	System link
3DAssy-PID	Document index		Document inde:	Linkage of assembly (3...	M:N	Take over	Take over	Allowed	Allowed	yes	yes
3DPlant-PID	Document index		Document inde:	Linkage of Plant Engin...	M:N	Take over	Take over	Allowed	Allowed	yes	yes
AllgTyp-Geo...	Article index		Document inde:	Allgemeiner Typ mit VA...	N:1	Break up	Create	Allowed	Allowed	yes	yes
AllgTyp-Varia...	Article index		Article index	General type with sub 4...	1:N	Create	Take over	Allowed	Allowed	yes	yes
AnlBauteil-Zu...	Article index		Article index	Linkage of part and ac...	M:N	Break up	Break up	Allowed	Allowed	yes	yes
Bauteil(e)-Ko...	Article index		Document inde:	Model/Drawing with se...	M:N	Take over	Take over	Allowed	Allowed	yes	yes
Bauteil-Konstr...	Article index	←-----	Document inde:	Model, Part/assembly ...	M:N	Take over	Take over	Allowed	Allowed	yes	yes
Bauteil-Teilg...	Article index	←-----	Document inde:	3-D body, 2-D figure	M:N	Take over	Take over	Allowed	Allowed	yes	yes
Documentation	Article		Document	General version-indepe...	M:N	Break up	Break up	Allowed	Allowed	yes	no
Document-D...	Document index		Document inde:	Link between two doc...	M:N	Take over	Take over	Allowed	Allowed	yes	no
E-Mail Attach...	Document index		Document inde:	E-Mail Attachment	M:N	Take over	Take over	Allowed	Allowed	yes	no
Markup	Document index		Document inde:	Links an original docu...	M:N	Break up	Break up	Allowed	Allowed	no	yes
Markup abgel...	Document index		Document inde:	Verknüpft ein Originald...	M:N	Break up	Break up	Allowed	Allowed	no	yes
Notizdokument	Document index		Document inde:	Verknüpft ein Originald...	M:N	Break up	Break up	Allowed	Allowed	no	yes
Notizdokume...	Document index		Document inde:	Verknüpft ein Originald...	M:N	Break up	Break up	Allowed	Allowed	no	yes
Notizdokume...	Document index		Document inde:	Verknüpft ein Originald...	M:N	Break up	Break up	Allowed	Allowed	no	yes
Part-Document	Article index		Document inde:	Link between a part an...	M:N	Take over	Take over	Allowed	Allowed	yes	no

One system link is predefined by HELiOS and, in contrast to links that have been newly created by the user, cannot be changed or deleted.

This is because system links are connected to HELiOS program logics, which would no longer function if the link were removed.

In result lists with a link context, you can also use the virtual attribute **System link (VA\_SystemLinkClass)** to display this information:

**Available attributes**

Filter:

Document Article **Link** Article/document link

Type	Designation	Attribute name
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Name of link class	VA_LinkIdWithIcon
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Automation, source	HEL_QAENDERUNG
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Automation, target	HEL_ZAENDERUNG
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Cardinality	HEL_KARDINALITAET
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Description	HEL_BESCHREIBUNG
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Ignore write protection, source	HEL_SG_ANLEGEN_Q
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Ignore write-protection, target	HEL_SG_ANLEGEN_Z
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	List-relevance	HEL_DISPLAY
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Name	HEL_RELID
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Release-relevance	HEL_FREIGABE
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Source class	HEL_QUELLKLASSE
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<b>System link</b>	<b>VA_SystemLinkClass</b>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Target class	HEL_ZIELKLASSE

Attribute description:  
Information on whether the link class is predefined by the system and therefore cannot be changed or deleted.



☒ Show column for attribute names

## HELiOS Options: Product structures

When you call up  **Output to Report Manager** or  **Output to Report Manager, new window**, a configuration file will be evaluated in which the transfer of attributes of the product structure is stored.

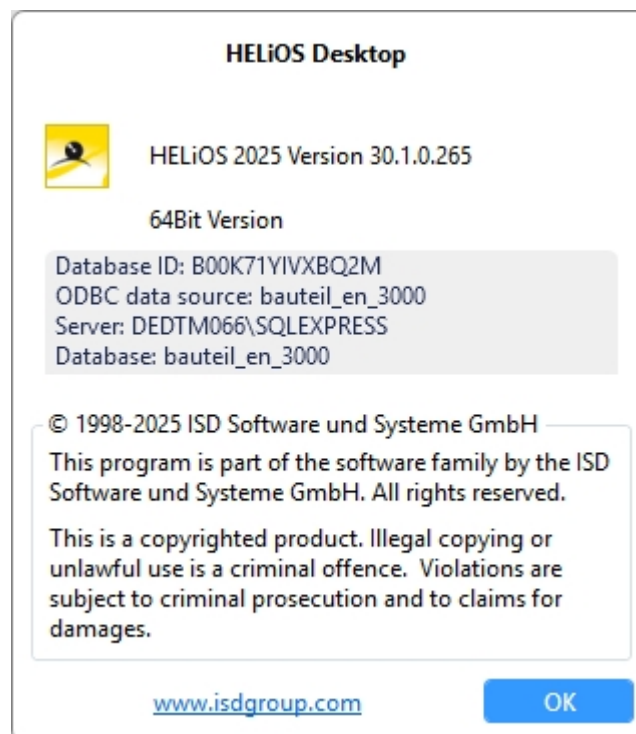
If you want to use a different configuration file than the default one, you can set this in the new tab of the HELiOS Options dialogue at **Product structures > Report Manager**.

## Display of additional information about the current Database connection in the HELiOS info window

Via  > **Info**  you can open an info window in the HELiOS Desktop, which displays information about the HELiOS Desktop, such as the current HELiOS version number (incl. build number) and the number of any installed hotfixes.

With the current service pack, the information has been extended to include details of the database connection: the database ID of HELiOS, the name of the ODBC data source, the computer name of the database server and the SQL server instance, as well as the name of the HELiOS SQL database.

Example:



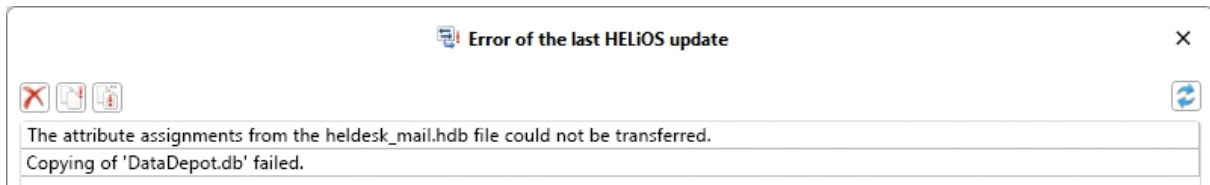
## Locking Manager: Unlocking independent of the host computer

In order to avoid problems that may occur when working remotely with third-party software, the **Locking Manager** for unlocking HELiOS objects has been extended so that HELiOS users working from different workstations can unlock locked HELiOS objects such as CAD drawings from other host computers using the Locking Manager.

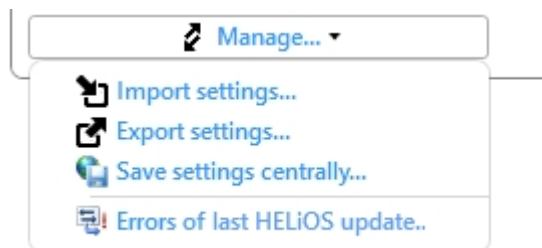
In this case, you will receive the query *You are trying to unlock objects that were originally locked on another computer. Are you sure you want to unlock them?* Click **Yes** to unlock the objects or **No** to cancel the unlock operation.

## Errors of last HELiOS update

If errors occur during HELiOS update processes, a window with corresponding messages will be displayed when you start the HELiOS Desktop. You can optionally copy further detailed information into the clipboard.



You can view the window at any time via HELiOS-Options > Manage...>  Errors of last HELiOS update....



## Automatic saving of dumps when HELiOS crashes

As of HELiOS 2025 Service Pack 1, installations of HELiOS applications perform a configuration that automatically saves so-called dump files when the program crashes.

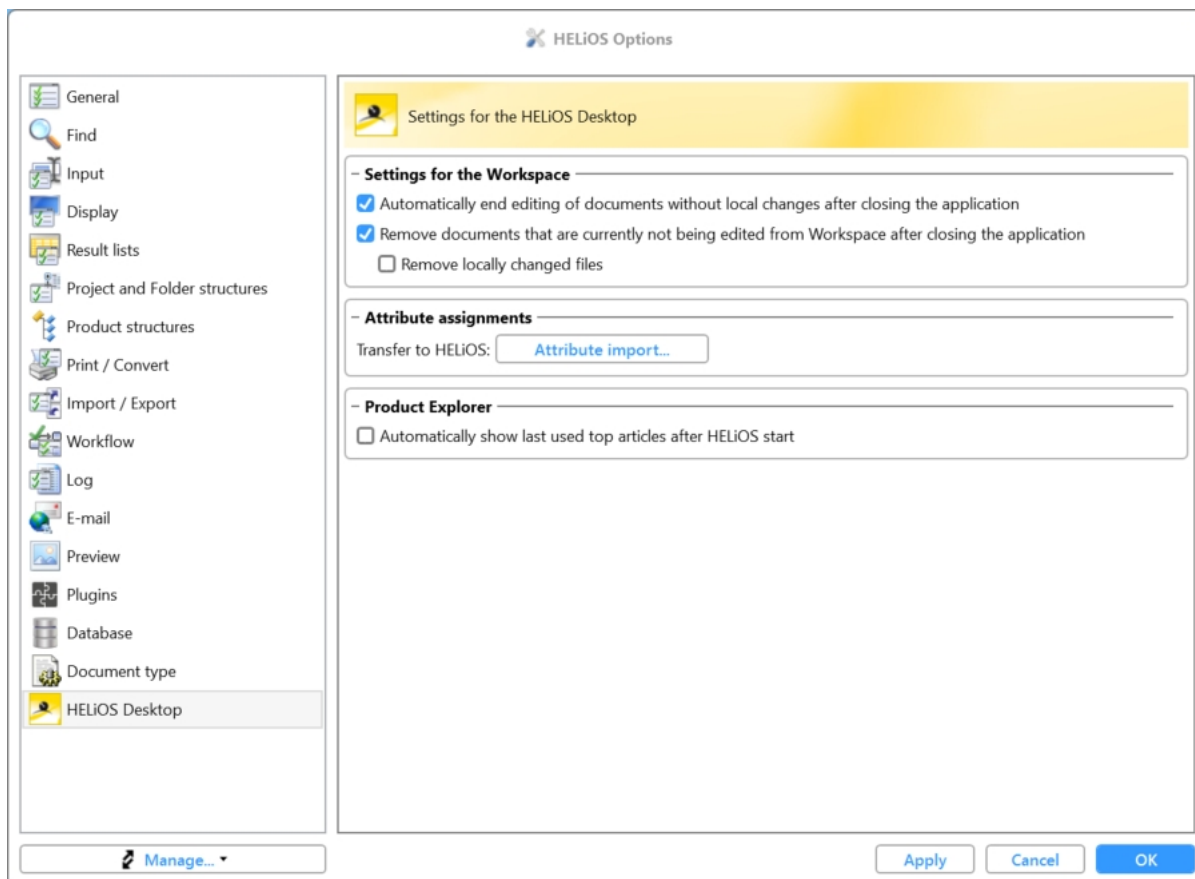
These will then be stored in the directory %LOCALAPPDATA%\ISD Software und Systeme\CrashDumps.

## Major Release

### Improvements of the UI and user guidance

Improvements to the user interface and user guidance of HELiOS Desktop 2025 can be found in the **HELiOS Options**, among others.

Revisions to the menu structure now make working in the Options window even more intuitive.



## Revised preview and viewer integrations

The graphical preview displays of documents in HELiOS have been revised and improved.

In the **HELiOS Options**, you will find the new **Preview** tab, in which you can configure viewer assignments:

**HELiOS Options**

**Settings for Preview**

**Show preview**

- ☒ Always immediately (may take longer)
- ☐ Up to a file size of 0 MB immediately, otherwise only by clicking in the preview area
- ☐ Only by clicking in the preview area

**Viewer assignments**

There are different places in HELiOS where a preview can be displayed. We basically differentiate between the 4 locations listed below. For each specified file extension, each location can be configured separately

- Document mask: Integrated preview in the Mask tab of the document display, as well as in the Document tab of the article display.
- Graphic tab: Preview in the Graphic tab in the document and article display.
- Graphic window: Preview in dockable graphic window of the main window.
- Explorer: Preview in the Graphic tab of the various explorers (e.g. Project Explorer).

File extension	Standard	Document mask	Graphic tab	Graphic window	Explorer
.PDF	Mozilla PDF view (ir	Standard	Mozilla PDF view	Mozilla PDF view	Standard
.SZA	HiCAD Viewer (ima	Standard	HiCAD Viewer	HiCAD Viewer	Standard
.KRA	HiCAD Viewer (ima	Standard	HiCAD Viewer	HiCAD Viewer	Standard
.IAM	Preview graphic (th	Standard	Preview graphic (HC	Preview graphic (HC	Standard
.IPT	Preview graphic (th	Standard	Preview graphic (HC	Preview graphic (HC	Standard
.IDW	Preview graphic (th	Standard	Preview graphic (HC	Preview graphic (HC	Standard
.TIF	Windows Explorer	Standard	Image viewer	Image viewer	Standard
.TIFF	Windows Explorer	Standard	Image viewer	Image viewer	Standard
.JPG	Windows Explorer	Standard	Image viewer	Image viewer	Standard
.JPEG	Windows Explorer	Standard	Image viewer	Image viewer	Standard
.PNG	Windows Explorer	Standard	Image viewer	Image viewer	Standard

**Cadmium Cloud**

Server address: https://

Login:

Password:

File formats:

File extension

**Attribute assignments for Cadmium Cloud**

Export from HELiOS: [Attribute export...](#)

Manage...

Apply Cancel OK

There you can configure which viewer should be used for each file format for the different places where a preview can be displayed in HELiOS (e.g. preview graphic in the document detail mask or in the Explorer context).

You can add further file extensions or remove those that are not required.

HELiOS generally distinguishes between integrated and external viewers:

- Integrated viewers are viewers that HELiOS provides automatically. A separate installation by the user is not necessary.

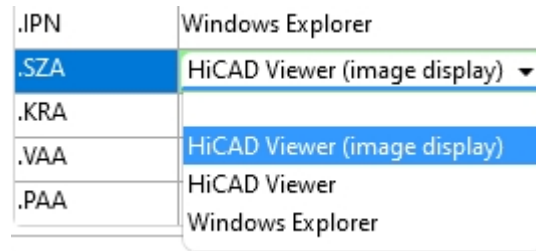
Examples include the **Image Viewer** for Bitmap formats, **Mozilla Pdf** for previewing PDF files or the **xbim toolkit** for IFC files.


Changes to the configuration of the viewer assignments have a direct effect for integrated viewers (i.e. without restarting HELiOS).


- In addition to the integrated viewers, HELiOS also supports several other viewers that you can install yourself. Examples of these are the viewers for **Office** documents or, for example, the **Kisters 3D Viewstation**.












When editing the viewer assignment, only those viewers are offered that also support the respective file extension.



Clicking on the  icon in the **Viewer assignments** area of the dialogue window displays a list of all viewers supported by HELiOS with further information:

 **Viewer information**

**External viewers supported by HELiOS**

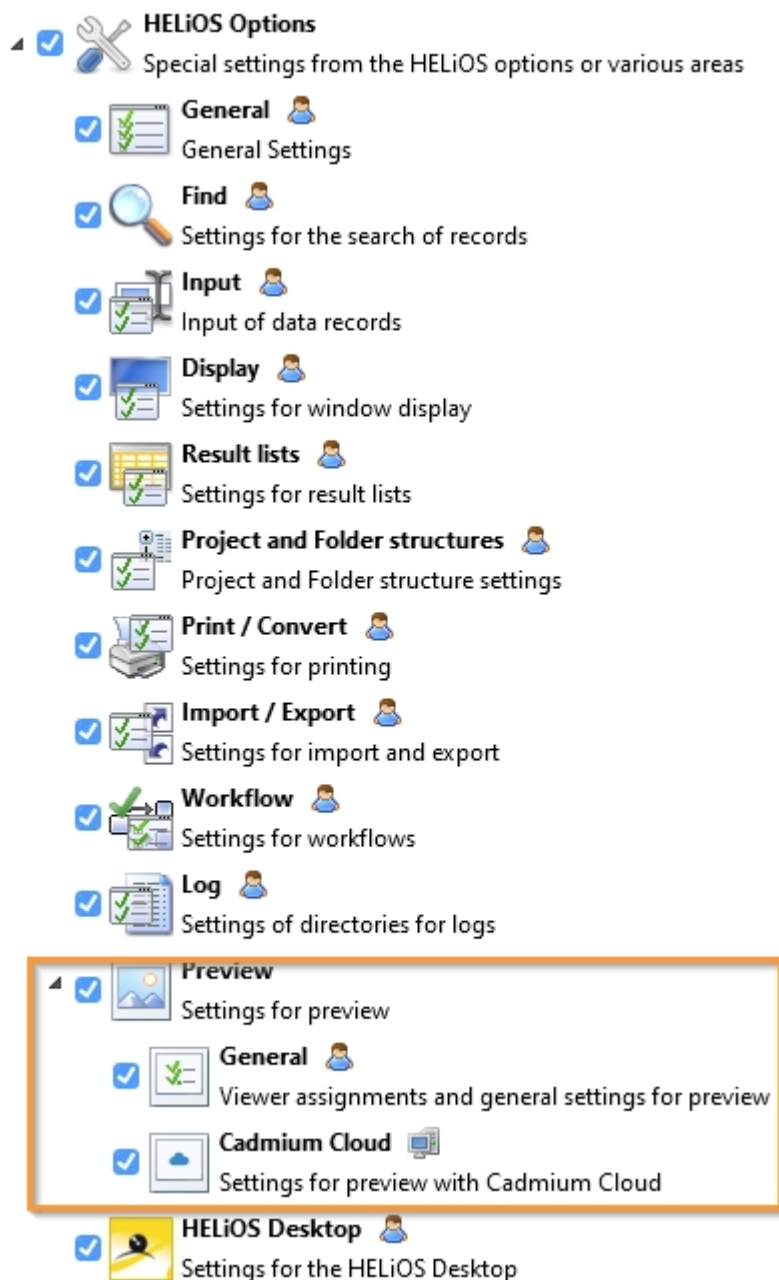
Availability	Name	Version	Minimum version	Available file extensions
	DWG TrueView	24.2.50.0	24.2.192.0	.dwg, .dxf
	eDrawings		31.5.0.33	.3dxml, .asm, .asmdot, .cal, .ct1, .dlv, .drwdot, .dwg, .dxf, .easm, .easmx, .edrw, .edrxw, .eprt, .eprtx, .exp, .hmf, .hsf, .iam, .ifc, .iges, .igs, .ipt, .jt, .model, .neu, .obj, .par, .prt, .prtdot, .psm, .pwd, .sab, .sat, .session, .sldasm, .slddrw, .sldprt, .step, .stl, .stp, .stpz, .x_b, .x_t, .xas, .xmt, .xmt_txt, .xpr
	HiCAD Viewer	30.0.0.109	29.0.2.248	.fga, .kra, .paa, .sza, .vaa
	HiCAD Viewer (image display)	30.0.0.109	29.0.2.248	.fga, .kra, .paa, .sza, .vaa
	Kisters 3D Viewstation		2024.3.317.0	.3dm, .3ds, .3dvs, .3dxml, .3mf, .arc, .asm, .bmp, .catdrawing, .catpart, .catproduct, .catshape, .cgm, .cgr, .cpixel, .dae, .dft, .dgn, .dlv, .doc, .docx, .drw, .dwf, .dwfx, .dwg, .dxf, .exp, .fbx, .ger, .gif, .glb, .gltf, .iam, .ifc, .iges, .igs, .ipt, .jp2, .jpeg, .jpg, .jt, .mfl, .mil, .model, .neu, .nwd, .obj, .par, .pdf, .pkg, .plmxml, .plt, .png, .ppt, .pptx, .prc, .prt, .psm, .ptr, .pwd, .rfa, .rvt, .sab, .sat, .session, .sldasm, .slddrw, .sldprt, .step, .stl, .stp, .stpx, .stpxz, .stpz, .svg, .tif, .tiff, .u3d, .unv, .vda, .vrml, .vsxml, .webp, .wrl, .x_b, .x_t, .xas, .xls, .xlsx, .xmt, .xmt_txt, .xpr
	Office (Excel)	16.0.17830.20138	15.0.0.0	.xla, .xlam, .xls, .xlsb, .xlsm, .xlsx, .xltx, .xltm, .xltx, .xltxm
	Office (Outlook)	16.0.17830.20138	15.0.0.0	.msg
	Office (PowerPoint)	16.0.17830.20138	15.0.0.0	.pot, .potm, .potx, .potxm, .pps, .ppsm, .ppsx, .ppsxm, .ppt, .pptx, .pptxm, .pptm
	Office (Word)	16.0.17830.20138	15.0.0.0	.doc, .docm, .docx, .docxm, .dot, .dotm, .dotx, .dotxm

**Viewers supplied with HELiOS**

Name	Version	Available file extensions
Image viewer		.bmp, .gif, .ico, .jpe, .jpeg, .jpg, .jxr, .png, .tif, .tiff
Mozilla PDF preview graphic	4.3.136.0	.pdf
Mozilla PDF view	4.3.136.0	.pdf
Preview graphic (HQ)		.dwg, .iam, .idw, .ipn, .ipt
Preview graphic (thumbnail)		.dwg, .iam, .idw, .ipn, .ipt
Video player	8.12.0	.mp3, .mp4, .wav, .webm
Web browser	1.0.1823.32	.htm, .html, .txt, .url
Windows Explorer	11.0	*
xbim toolkit	5.1.341.0	.ifc, .ifcxml, .ifczip, .xbim, .xbimf

The new configuration of the preview is saved user-specifically. (In older HELiOS versions, it was identical for all logged-in users).

The **Preview** settings can also be managed via the export/import mechanism of the UI settings in HELiOS:



You can also choose between the general preview settings and those for Cadmium Cloud; both can be individually exported and imported.



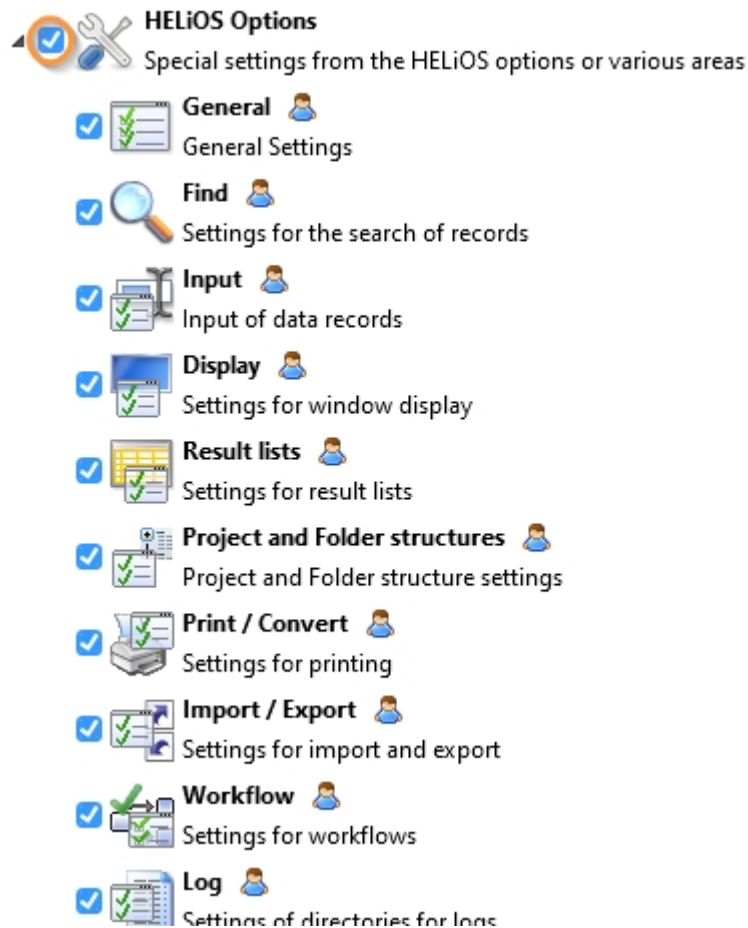
#### Please note:

The system file `hel_preview.ini` from earlier HELiOS versions is no longer required as a result of this revision and is no longer created by new installations. The defaults of the new preview configuration are set up



Update installations of older HELiOS versions with HELiOS 2025 (Version30.0.0) or higher create a new configuration file from the existing `hel_preview.ini` accordingly and leave the old file unchanged in the file system. The reason for this is that different users may be able to log in and the corresponding settings are then migrated to the new functionality for each of the (newly) logged in users.

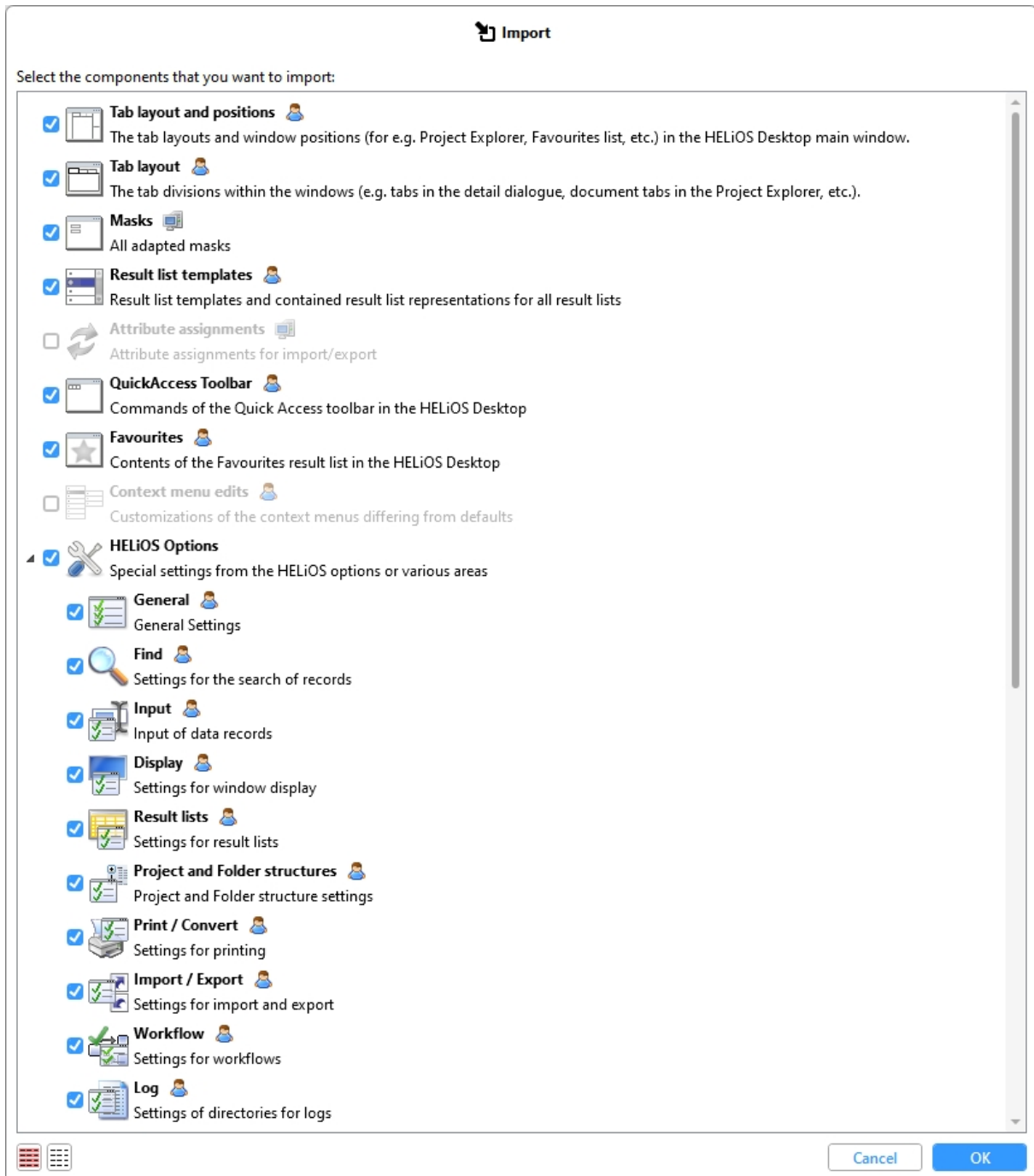
## Export and import of UI settings

When exporting HELiOS Options via the export/import mechanism for user interface settings in HELiOS, all settings can be added to or subtracted from the export or import by selecting or deselecting the top entry of the HELiOS Options with a single click on the checkbox.



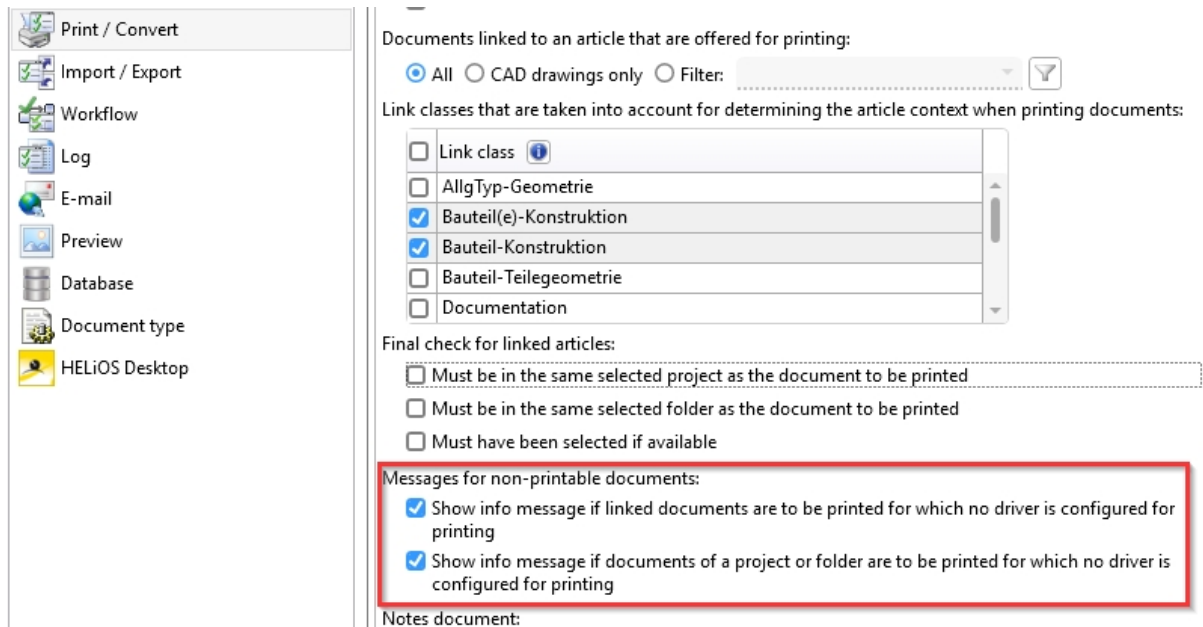
Furthermore, non-exported settings are not offered for selection during import.

The  symbol indicates user-specific settings, the calculator  symbol indicates settings of the local system.






## Messages in case of non-printable documents

In the **Print/Convert** tab of the **HELiOS Options** dialogue window, you will find two new options under **Messages for non-printable documents**:




Both options control the handling of documents for which no corresponding driver is configured when printing via the Spooler.

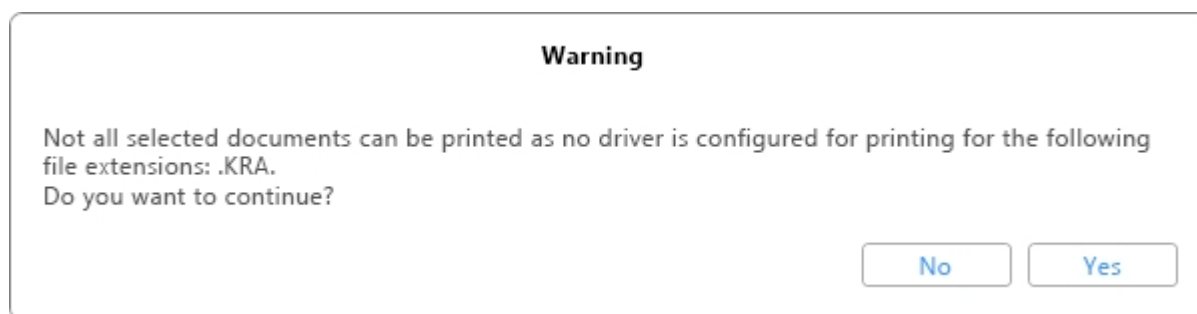
These may be KRA files (HiCAD geometries), for example, which are saved as documents in HELiOS.

If non-printable documents have been selected for printing when calling up  **Print documents of folder** or  **Print documents of project** or  **Print linked document**, an info message such as the following appear:



If the corresponding option has been deactivated, no info messages appear in scenarios such as those mentioned above. The non-printable documents are filtered out in the background.

Messages that are due to the explicit call of a non-printable document via  **Print (Spooler)**, cannot be suppressed:



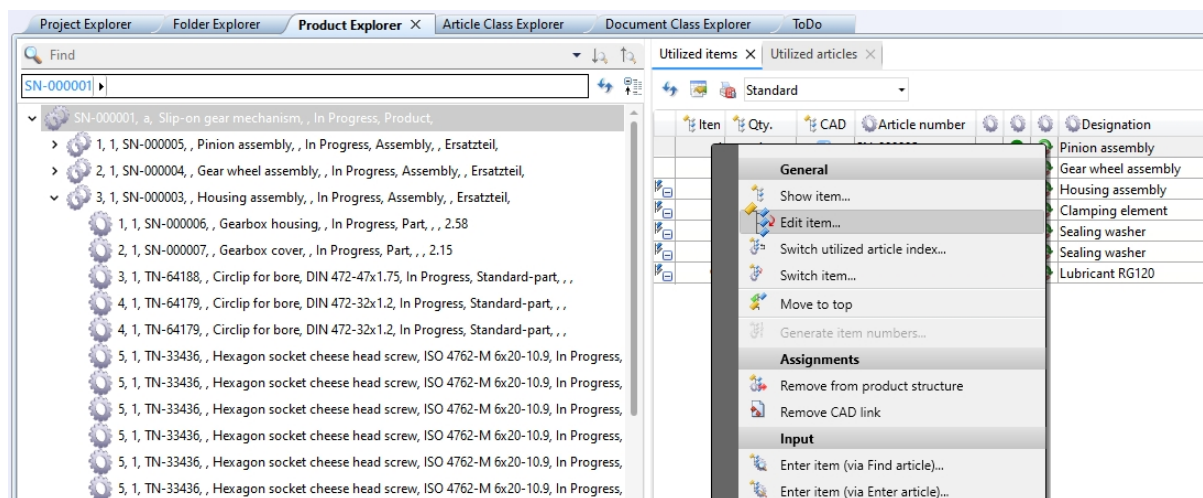
In this case, printing can be cancelled by clicking on **No**. If you click on **Yes**, the non-printable documents are filtered out and no longer listed in the subsequent print dialogue.

## Temporary editing of utilized items


In earlier HELiOS versions, when editing a utilized item, the user was prompted to manually accept changes to the product structure if the top part of the product structure was not set to "In progress".

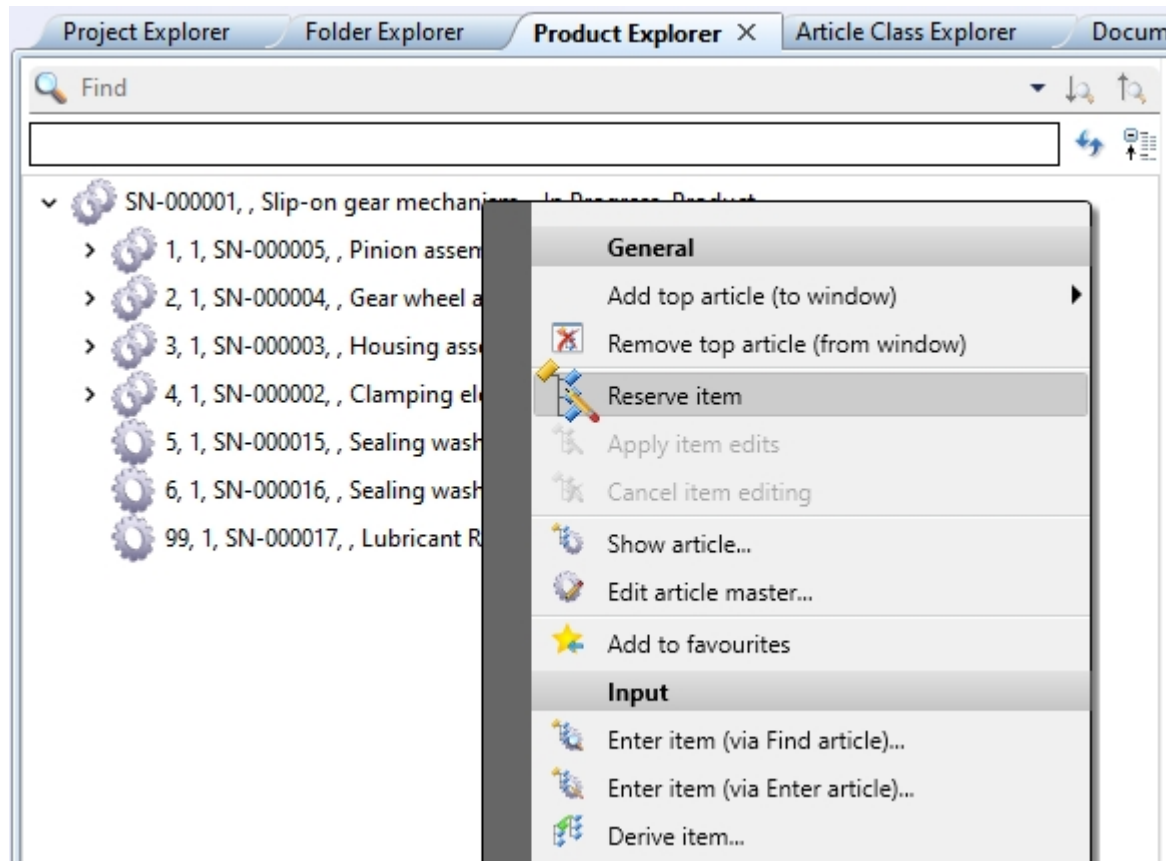
In order to eliminate this intermediate step, the behaviour in such situations has been changed as follows:

- If the top part of the product structure has not yet been set to 'In progress', it will be set to this status temporarily for the operation. At this moment, the top part assembly is locked for other users. After completing an edit or entry, the changes are automatically applied.
- If the top part is already being edited, you have the option of 'reserving' the top part assembly and can manually apply or cancel the editing at a specific point in time.



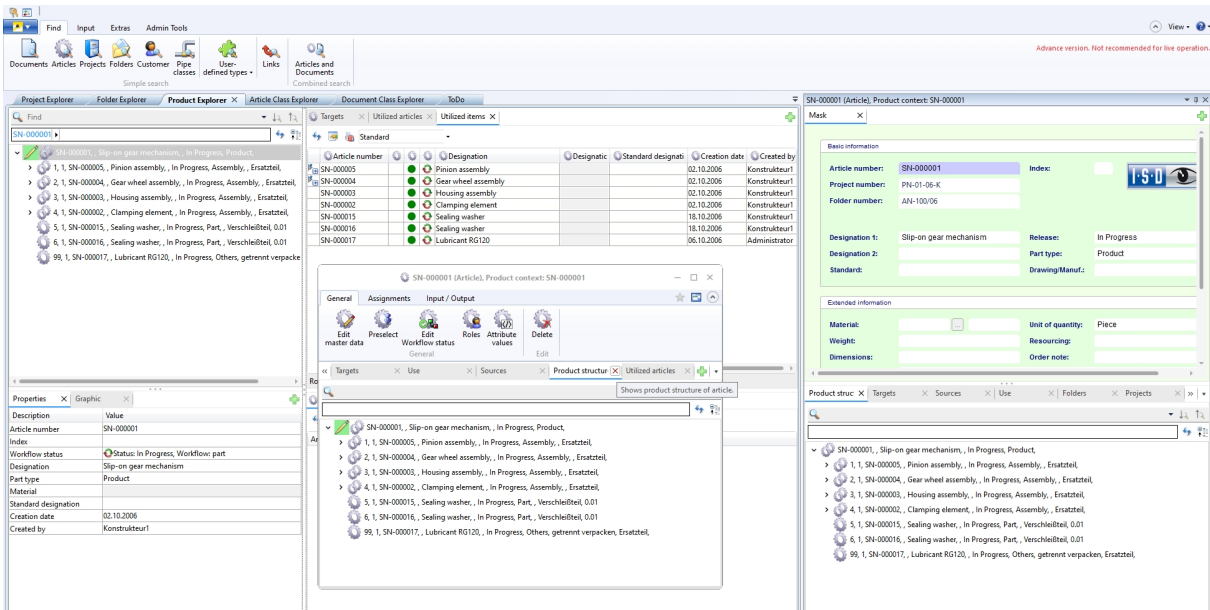
## Product structure: Reserve 1-level assemblies for editing

When a direct function such as  **Reserve item** from the Product context menu, or when a product structure is synchronised from a linked CAD application, the product structure's 1-level assemblies are set to **In progress** and are thus locked for others by the corresponding user.



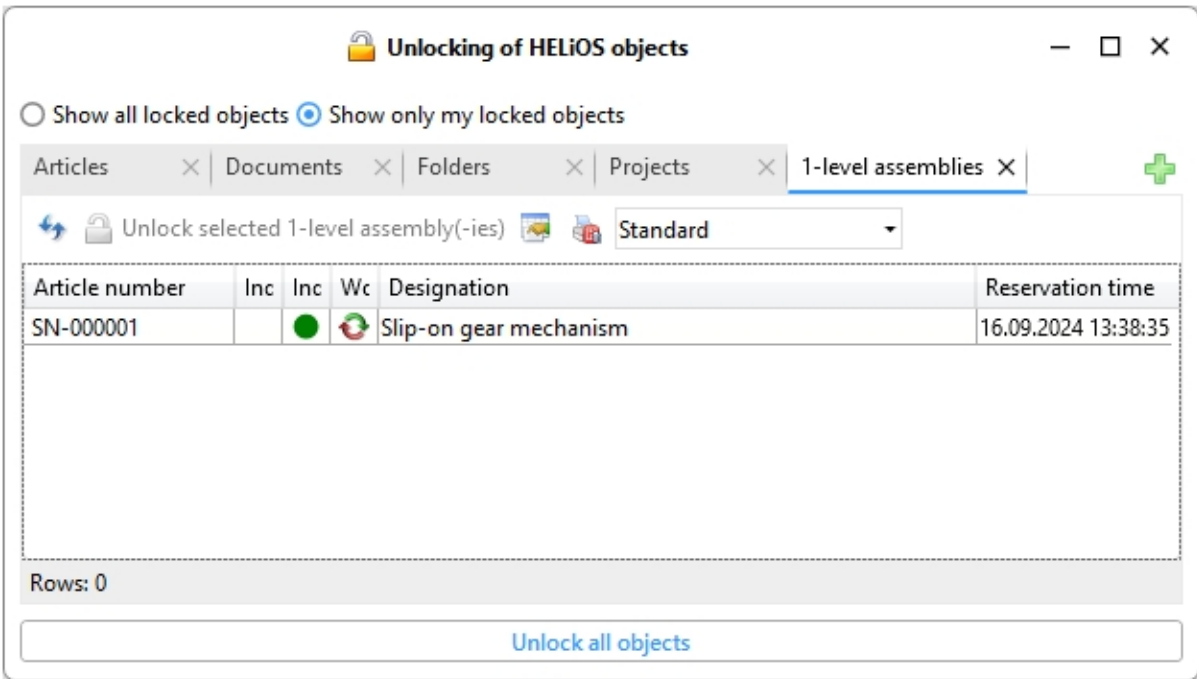
Please note in this context:

The reservation has a global effect in the context of the corresponding HELiOS user. This means that reservations of 1-level assemblies are consistently indicated (within the same application) by a green marking of the header with a pen icon.



Editing is possible in all dialogue windows with this marking.

In the **Locking Management** tool of HELiOS, the 1-level assemblies reserved for editing are displayed accordingly:





In the result list for 1-level assemblies, virtual attributes are available to you, which can be used to show the start of the reservation (name: **Reservation time**, attribute name: **VA\_ReservedProductsReserveTime**) or a display of the corresponding HELiOS user (name: **Username**, attribute name: **VA\_ReservedProductsUserName**) in the Locking Management.

**Available attributes**

Filter:

Article

	Type	Designation	Attribute name
<input type="checkbox"/>		Roles	VA_ObjectWorkflowKoiStatusInfo
<input type="checkbox"/>		Workflow status	VA_ObjectWorkflowStatus
<input type="checkbox"/>		Target date	VA_ObjectWorkflowTargetDate
<input type="checkbox"/>		Article number with icon	VA_PartNumber
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Workflow status	VA_PartReleaseStatus
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Reservation time	VA_ReservedProductsReserveTime
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Username	VA_ReservedProductsUserName
<input type="checkbox"/>		Volume [mm³]	VOLUMEN
<input type="checkbox"/>		Preferred type	VORZUGSTYP

## HELiOS-URLs

### Opening and activating Project and Folder Explorers

Similar to URL calls, which are also possible with the HELiOS Internet Server, you can also open HELiOS objects via URL calls in the context of the Folder Explorer or Project Explorer when working with the HELiOS Desktop.

This means that the corresponding Explorer context for a HELiOS object is also opened via a call specified in this way. The Explorer jumps to the corresponding position.

The new partial commands in a URL row are:

- explore-and-activate-folder
- explore-and-activate-folder-by-id
- explore-and-activate-Project
- explore-and-activate-project-by-id

If the HELiOS Desktop is not running when a HELiOS URL is called (from another application), it will be started automatically.

### Show newest index

With the extension **&indexStrategy=NewestRevision** in a URL call, it is possible to open the detail mask of the most current index status for a document (show-document) or an item (show-article) of HELiOS.

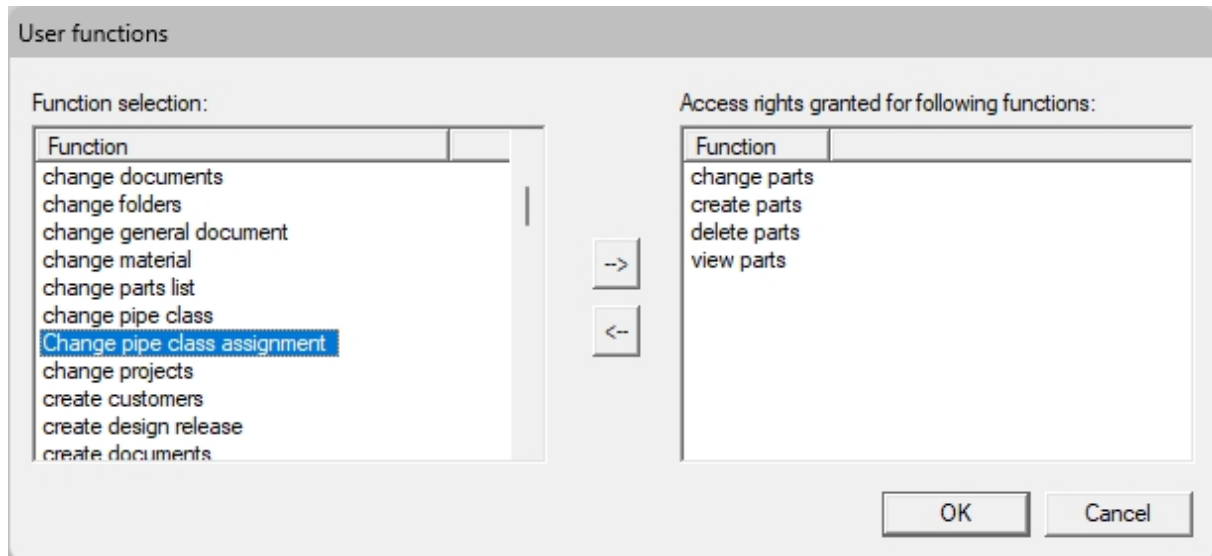
Example of a link:

- [helios://show-article?attributes=%7bHEL\\_SACHNUMMER:SN-000016%7d&indexStrategy=NewestRevision](helios://show-article?attributes=%7bHEL_SACHNUMMER:SN-000016%7d&indexStrategy=NewestRevision)

The URL uses 'indexStrategy=NewestRevision' to call up the most current index of an article with the article number 'SN-000016'.

## Change pipe class assignment

For working with pipe classes, the special user right **Change pipe class assignment** is now available in the User Management of EdbSetup. This right can be granted to HELiOS Users and Groups:



Only Users and Groups to whom this right has been added can

- Assign parts to a pipe class and
- Remove the assignment of parts to a pipe class.



### Please note:

This right is automatically assigned to PDM Administrators of the HELiOS default database during the update, but it must be manually assigned to all other Users and Groups.

## Note: Adding the KRA version number for update installations

Since HiCAD Version 2024, version numbers of 3-D parts (KRA files) have been stored in HELiOS.

However, these version numbers may not be available in HELiOS for inventory data from customers who do not work with the Vault Server. Therefore, when updating a database version older than 30.0.0 to a higher version of HELiOS, the version numbers of the KRA files are transferred to HELiOS once.

You will receive a corresponding message during the update process. Further information can be found in the installation manual.

If errors occur during the migration, it is possible to run the migration tool again via the command line.

## Important note on update installations: Conversion of system directories of HELiOS Workspaces

Beachten Sie bei der Update-Installation einer älteren Version auf HELiOS 2025 (Version 30.0.0) oder höher, dass sich die Verzeichnisstruktur ändert.



Since an automated migration is not possible, all users must check in all data and empty their workspaces before an update installation in order to avoid data loss.

In previous versions, the workspaces were located under %localappdata%.

This meant that different workspaces could be located on one system.

To counteract this, the workspaces will be moved to the %programdata% directory with the update to HELiOS 2025.

Checked-out files are then stored at %programdata%\ISD Software und Systeme\HELiOS Workspace(...)\*\

(\*plus Location ID and User ID).

The version-dependent workspace databases are stored at programdata%\ISD Software und Systeme\HELiOS <Version>\Location-ID\.

## Bill of Materials / Report Manager

### Discontinuation of the "old" Report Manager

From HELiOS 2024 onwards, the "old" Report Manager, i.e. the Report Manager up to 2022, will no longer be delivered with a standalone installation of the HELiOS Desktop. In a HiCAD/HELiOS installation or a HELiOS update of HiCAD, however, the "old" Report Manager is still included. From HiCAD 2025 onwards, only the "new" Report Manager as of 2023 will be supported.

## Service Pack 2

### New attributes for the Report Manager

The new attributes for Steel Engineering beams and profiles and Steel Engineering plates have been integrated into the Report Manager export files `rm_h_exportpart.HDB` and `rm_db_exportpart.HDB`.

Attributes for Steel Engineering beams and profiles:

- \$WBL, Weight by length
- \$CBL, Commercial weight by length
- \$SBL, Surface area by length
- \$VBL, Volume by length

and Steel Engineering plates:

- \$CBA, Commercial weight from rectangular area
- \$SBA, Surface area from rectangular area
- \$VBA, Volume from rectangular area

### Activate BOM-relevance

When you use the following functions for creating parts in the **3-D Standard** Ribbon tab:



- Assembly
- Solid primitive
- Extruded part
- Revolved part
- C-edge sweep
- Part from 3-D sketch

the **BOM-relevance** ☒ option is now active when you start HiCAD for the first time. If you change this setting in the individual functions, the changed setting is retained even after you restart HiCAD.

The default settings can be restored using `HicadGUIReset.exe`.

## Bar list: Non-numeric values for item texts

When creating bar lists, the item number and length of the beam are displayed on the beams by default, as shown in the image below. However, other attributes can be displayed instead of the item number. This can be set in the corresponding script HiCAD\_Stahlbau.30.0.cs in the HiCAD SYS directory. Previously, an error message was displayed for attributes whose value was text rather than a number. From HiCAD 2025 SP 2 onwards, it is also possible to select attributes that contain text as annotations.

	A	B	C	D	E	F	G
1	<b>Bar list</b>						
2							
3	Drawing No.				Customer		
4	Order No.				Created by		
5	Order text				Created on		
6	Designation						
7							
12	<b>FRR 120x60x4, S235JRH</b>			<b>2 x 6000 mm</b>		<b>Waste: 5680 mm (47,33 %)</b>	
13	Item	Qty.	Length (mm)	Cut (Web)	Cut (Flange)	Designation	Coating
14							
15			102 (1700)		102 (1700)	103 (790)	103 (790)
16	102	2	1700	45°		45°	100 (670) 

## Service Pack 1

### Configuration of product structure

When the product structure is transferred to the Report Manager, a configuration file is evaluated in which the transfer of attributes is stored. If you want to use a different configuration file, you can set this in the **HELiOS Options** under the new menu item **Product structures > Report Manager**.

## Major Release

### Coloured HTML tables


#### Column colour

You can now also design the HTML tables in colour. The **Text parameters** area has been added to the **Settings**.

There you can set the text font, the text style (bold, italic) and the text height. The colours for the tables, separated by **Column header**, **Even rows** and **Odd rows**, are defined below. A text and background colour can be selected in each case.

Level	Part name	Material	Item	Qty.	Designation 2	Part type	Cut (Flange)	Cut (Web)	Designation
1	635347842		1	1	1x Railing	Assembly			Railing
2	635347873		1	1	1x Segment	Assembly			Segment
3	635349055		1	3	3x Infill	Assembly			Infill
4	422617710	S235JR	1	21	7x FI 20x5-848.56323 S235JR	Flat steel	32.9° /-----	-----	FI 20x5
4	422535814	S235JR	2	3	1x FI 30x6-1161.44709 S235JR	Flat steel	-----	-----	FI 30x6
3	635350511		2	1	1x Infill	Assembly			Infill
4	422617710	S235JR	1	1	1x FI 20x5-850.18048 S235JR	Flat steel	32.9° /-----	-----	FI 20x5

#### Print coloured BOMs

The **Print (Settings)**  function provides the same options for the colour design of the print output as in the HTML table.

### Units in Lists of sawn beams

The displayed units (mm, inch) of the values (e.g. length) are taken from the List of sawn beams as well as the other lists from the Report Manager. If you now want to output inches instead of millimetres, use the **Column settings**



function to set the display unit for the length to inches for the Quantity list. The column header may then need to be adjusted in the Excel template. To do this, open the XLSX file and place a placeholder in the column header. If you then change the unit in the Report Manager, the column headers in the column list will also be changed.

The headers for non-metric units are prepared in the following templates:

- BOMTemplates/HiCAD-DB\_Anlagenbau.EN.30.0.xlsx
- BOMTemplates/HiCAD-DB\_Mechanik.EN.30.0.xlsx
- BOMTemplates/HiCAD-DB\_Stahlbau\_BIM.EN.30.0.xlsx
- BOMTemplates/HiCAD\_Anlagenbau.EN.30.0.xlsx

- BOMTemplates/HiCAD\_Blech.EN.30.0.xlsx
- BOMTemplates/HiCAD\_Mechanik.EN.30.0.xlsx
- BOMTemplates/HiCAD\_Metallbau.EN.30.0.xlsx
- BOMTemplates/HiCAD\_PipeBook.EN.30.0.xlsx
- BOMTemplates/HiCAD\_Stahlbau.EN.30.0.xlsx
- BOMTemplates/Proflex.EN.30.0.xlsx

The screenshots illustrate the steps to change the unit of measurement for 'Length' in a HiCAD report:

- Initial report showing 'Length' in inches.
- 'Column settings' dialog box where the unit is changed from 'Inch' to 'mm'.
- Report showing 'Length' in mm.
- Report showing 'Length' in inches, with the column header automatically updated to 'Length (in)'.

(1) Template HiCAD-DB\_Stahlbau\_BIM.EN.30.0.xlsx, (2) List of sawn beams, (3) Changing the displayed unit in the Report Manager, (4) Automatically changed column header

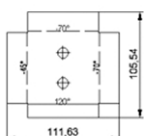
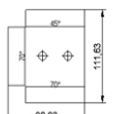
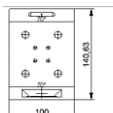


## Sheet Metal parts with development

In the Excel template HiCAD\_Stahlbau.EN.30.0.xlsx, there is now a new sheet in Excel, **Sheet Metal parts with development**. This list is deactivated by default, as generating the developments can be time-consuming. If you need this list, open the **Settings** sheet of the HiCAD\_Stahlbau.EN.30.0.xlsx file and set the value in the Generate column from **false** to **true**.

Name	Create	Structure list
Structure list	true	true
Quantity list	true	false
Total profiles list	true	false
Profile structure list	true	false
Packaging list	true	false
Packaging list 2	false	false
Quantity list, Profile installation	true	false
List of sawn beams	true	false
Bolt screw list	true	false
Bolt screw list		
Shipping list	true	true
Shipping list, short	true	false
Shipping list, short, w. image	true	false
Plates	true	false
Sheet Metal	true	false
Sheet Metal parts with image	true	false
Sheet Metal parts with image 2	false	false
Sheet Metal parts with development	true	se
Unprocessed sheets	true	false
Unprocessed SM prts w. img	false	false
Steel plates and metal sheets	true	false
Steel plates and metal sheets with in	true	false
Gratings	true	false
Glazing	true	false
Bar list	true	false
Bar - Summary	true	false
	false	false
	false	false
	false	false

Template HiCAD\_Stahlbau.EN.30.0.xlsx, **Settings** sheet


	A	B	C	D	E	F	G	H	I	J	K
1	Sheet Metal										
2											
3	Drawing No.	021135D	Customer	ISD Software und Systeme GmbH							
4	Order No.	200_003_001	Created by	Maya Mustermann							
5	Order text	002_0099_111	Created on	04.07.2024							
6	Naming	200_003_001_111									
7											
8				Item	1	Surf. (m2)	0,02				
9				Designation	BI 0.75 001	Weight (kg)	0,02				
10				Material	Al99,0	Total weight	0,02				
11				Designation							
12				Coating							
13				Development length (mm)	112						
14				Development width (mm)	106						
15	Thickness (mm)	1									
16											
17											
18				Item	2	Surf. (m2)	0,02				
19				Designation	BI 0.75 002	Weight (kg)	0,02				
20				Material	Al99,0	Total weight	0,02				
21				Designation							
22				Coating							
23				Development length (mm)	112						
24				Development width (mm)	91						
25	Thickness (mm)	1									
26											
27											
28				Item	3	Surf. (m2)	0,03				
29				Designation	BI 0.75 003	Weight (kg)	0,03				
30				Material	Al99,0	Total weight	0,03				
31				Designation							
32				Coating							
33				Development length (mm)	141						
34				Development width (mm)	100						
35	Thickness (mm)	1									
36											

Output as Excel document with template; **Sheet Metal parts with development sheet**

## Quantity list for profile installation

In the Excel template HiCAD\_Stahlbau.EN.30.0.xlsx there is now a new sheet with a quantity list for profile installation. For this purpose, the attribute %PI, i.e. the so-called dispatch item number, is evaluated during identical part search. The prerequisite for this is that the parameter **Carry out dispatch itemisation** is activated in the Configuration Editor at **Profile Installation > Dispatch itemisation**. In this way, a dispatch itemisation is assigned in addition to the item number based on the uncut elements.

A	B	C	D	E	F	G	H	I	J	K	L
Quantity list, Profile installation											
Drawing No.	123091827			Customer	ISD Software und Systeme GmbH						
Order No.	1000_0001			Created by	Maya						
Order text	Hall			Created on	10.04.						
Naming	H_298_B										
Item	Qty.	Designation			Naming			Coating		Weight	Total weight
500	2	ONDAFIBRE 3003 B (150 mm) Inertliniert CES 50 C						Paint RAL 1000 / Paint RAL 6000		22,40	44,80
501	6	ONDAFIBRE 3003 B (150 mm) Inertliniert CES 50 C						Paint RAL 1000 / Paint RAL 6000		67,20	403,20
502	5	Frequenze 18/76 T (1.00 mm) St						Paint RAL 1000 / Paint RAL 2002		19,23	96,16
503	6	Hacierto 39/333 (1.25 mm) St						Paint RAL 1000 / Paint RAL 2005		36,25	217,50
19											

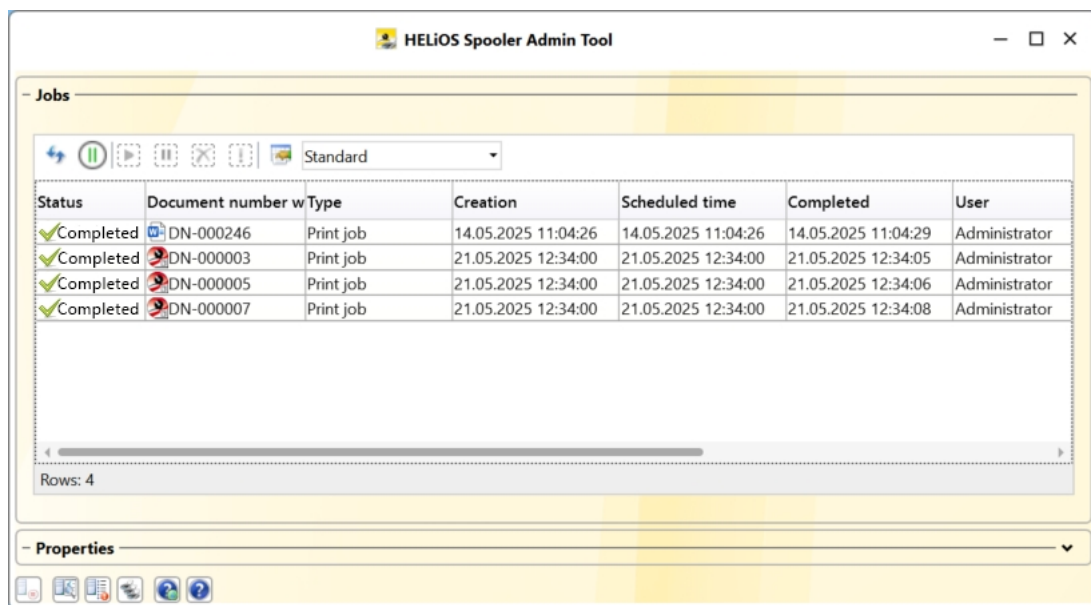


# HELiOS Spooler

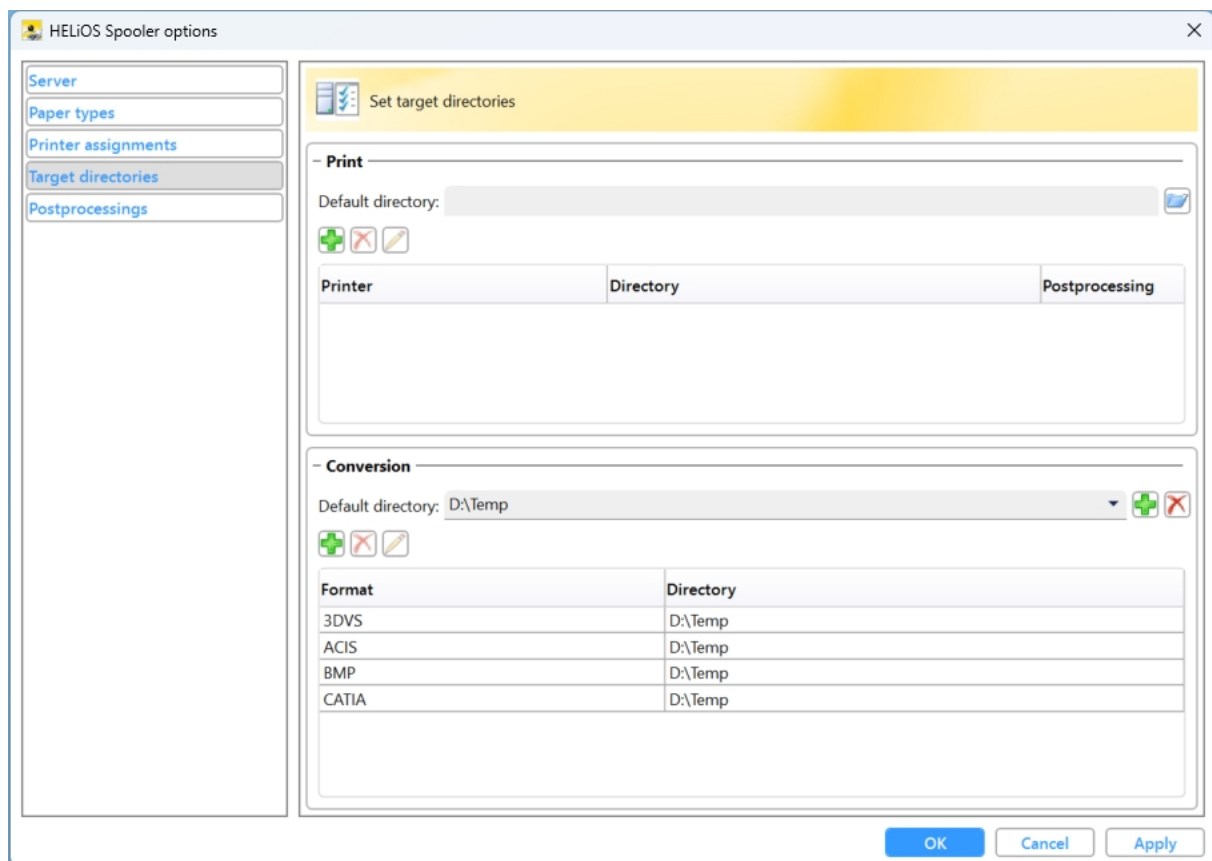
## Service Pack 2

### UI improvements and target directories

With the update to Service Pack 2 of HELiOS 2025, the **HELiOS Spooler Admin Tool** has also been revised and improved.



At **HELiOS Spooler Options > Target directories**, you now have the option of configuring additional target directories in addition to the default directory.



In earlier HELiOS versions, the system file ServerSettings.xml had to be adjusted manually, which is no longer necessary.

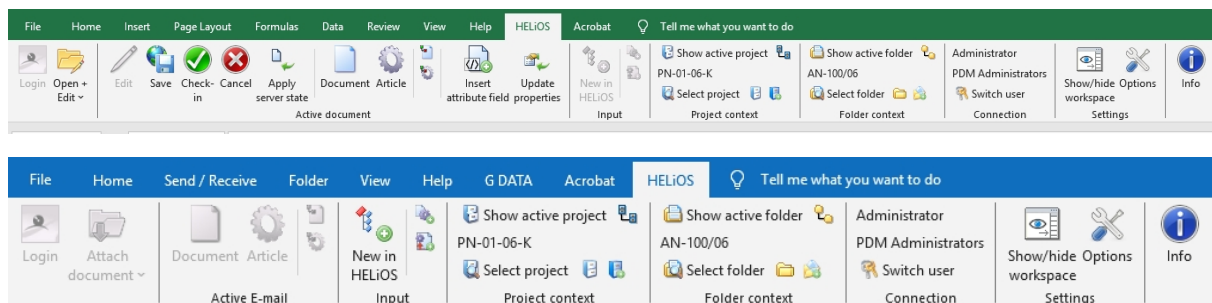
# HELIOS MS Office Interface

## Service Pack 1

Revised Office interface with an extended range of functions and options

### HELIOS-Ribbon

With the update to Service Pack 1, the **HELIOS** Ribbon in linked MS Office applications (Excel, Word, PowerPoint or Outlook) has been revised and adapted.



## New in HELiOS

Similar to the multi-CAD functionality of HELiOS, the enhanced **New in HELiOS** dialogue is available for Office applications and for the transfer of e-mails and their attachments to HELiOS, in order to save files in HELiOS.

**New in HELiOS**

**Input masks**

**Document**

**Basic information**

Document number: DN-000340 Sheet: Index: I-S-D

Project number: Project-independent

Folder number: Folder-independent

Designation: Release: In Progress

Document type: Office Document

Datum: 15.01.2025 Name: Administrator

Created: 15.01.2025 Administrator Scale: Format:

Checked:

**General Settings**

☒ When selecting document also automatically select article

**Input settings**

Import configuration: Standard

Project: Project-independent

Folder: Folder-independent

Article Workflow: part (R)

Document Workflow: general document (R)

Select link class:

Recognition of documents: ☒ OFF  
☐ By file name  
☐ By original path

**Graphic**

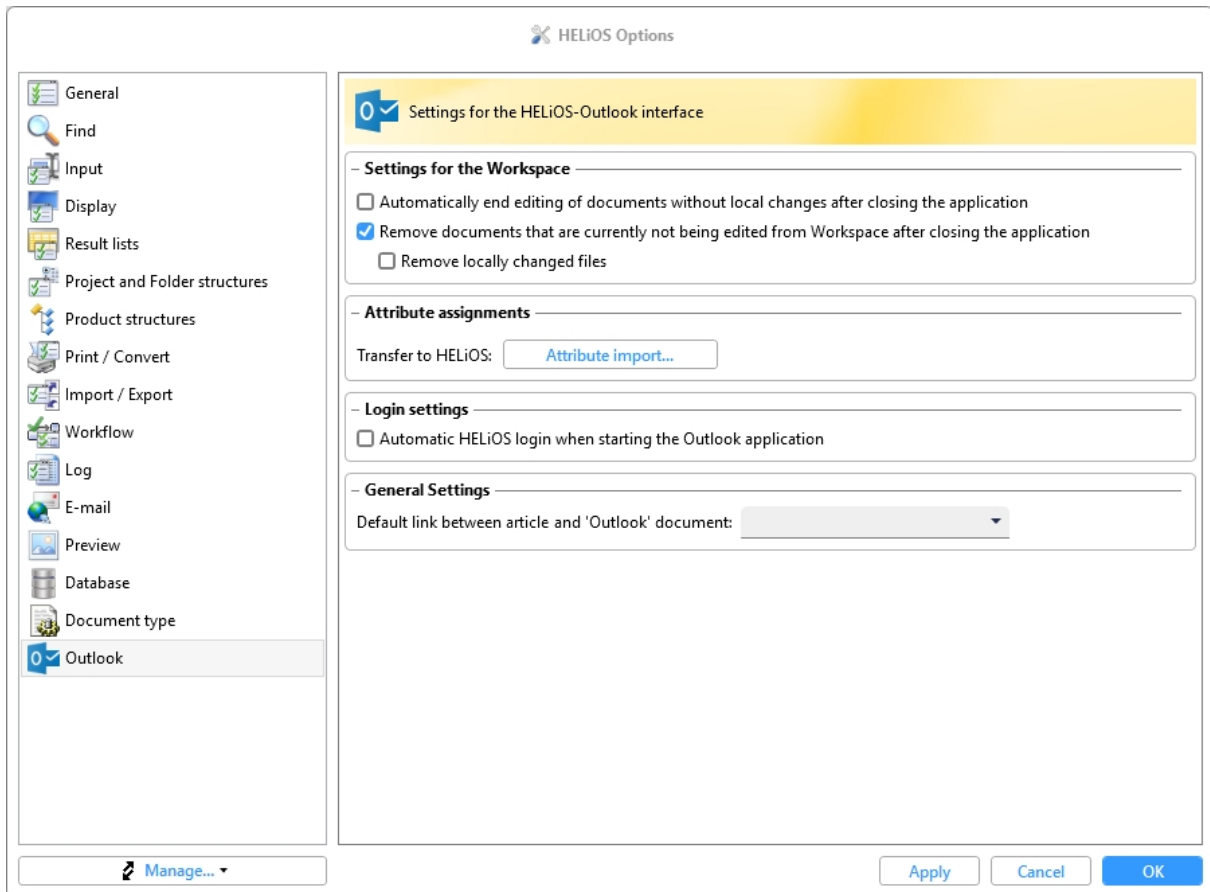
Jan Feb Mar Apr May Jun Jul ...

Check Cancel OK

Please also note the information on the revised transfer mechanism for saving e-mails in HELiOS using drag & drop.

## Options

The **HELIOS Options** window, in which you can make advanced settings for your interface with Excel, Word, Power-Point or Outlook regarding the HELiOS workspace, login behaviour, set default links for HELiOS data and attribute assignments, has also been further adapted and revised with the update to Service Pack 1.














## Attribute assignments

The attribute assignments for the transfer of e-mails and attached files to HELiOS have also been revised and improved.


In the **Options** window of your HELiOS-/Outlook interface, you will find the submenu item **Attribute assignments**.


This opens an extended dialogue with a comprehensive range of attribute mapping functions, as you already know them from other areas of HELiOS.

Attribute assignments for import to HELiOS

Type:        File:      




Filter:

Source	Destination	Constraint	Converter
File extension, with 2 case differentiations	 Document type (DOCUMENT_TYPE, Document)		

 **Edit attribute assignment**

– **Source** –

Case differentiations:

File property:    

Property value	Attribute value
.MSG	Fixed value: E-Mail (de), E-Mail (en), E-mail (fr), E-mail (it), E-Mail (pl)
	Fixed value: Sonstige (de), Others (en), Autres (fr), Varie (it), Inne (pl)

– **Destination** –

Attribute:

– **Constraint** –

Name:



E-mail properties can be mapped with article and document attributes.

HELiOS Options

General

Attribute assignments for import to HELiOS

Type: E-mail properties

File: Standard

Filter:

Source	Destination	Constraint
File extension, with 2 case differentiations	Document type (DOCUMENT_TYPE, Document)	

**Create new attribute assignment**

Property:

Area:

Destination:

Attribute:

Constraint:

Converter:

Name:

Cancel OK

## HeliosCouplings

An adjustment of the HeliosCouplings tool indicates which installed Office versions may not be supported by HELiOS and subtracts them from the selection options.

## Major Release

### Important note on update installations: Conversion of system directories of HELiOS Workspaces

Beachten Sie bei der Update-Installation einer älteren Version auf HELiOS 2025 (Version 30.0.0) oder höher, dass sich die Verzeichnisstruktur ändert.



Since an automated migration is not possible, all users must check in all data and empty their workspaces before an update installation in order to avoid data loss.

In previous versions, the workspaces were located under %localappdata%.

This meant that different workspaces could be located on one system.

To counteract this, the workspaces will be moved to the %programdata% directory with the update to HELiOS 2025.

Checked-out files are then stored at **%programdata%\ISD Software und Systeme\HELiOS Workspace(...)\*\**

(\*plus Location ID and User ID).

The version-dependent workspace databases are stored at **programdata%\ISD Software und Systeme\HELiOS <Version>\Location-ID\**.

# HELiOS CAD/CAE Integrations

## Service Pack 2

### "Non-modal" call of Project Explorer and Folder Explorer

The user interface behaviour in HELiOS Desktop and linked applications has been further customised and improved with Service Pack 2.

This includes the ability to open multiple instances of the HELiOS Explorers (Project Explorer, Folder Explorer) in AutoCAD or Inventor, for example, in order to perform Drag & Drop actions between them, and similar tasks.

## Major Release

### Important note on update installations: Conversion of system directories of HELiOS Workspaces

Beachten Sie bei der Update-Installation einer älteren Version auf HELiOS 2025 (Version 30.0.0) oder höher, dass sich die Verzeichnisstruktur ändert.



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Checked-out files are then stored at **%programdata%\ISD Software und Systeme\HELiOS Workspace(...)\*\**

(\*plus Location ID and User ID).

The version-dependent workspace databases are stored at **programdata%\ISD Software und Systeme\HELiOS <Version>\Location-ID\**.

# HELiOS in HiCAD

## Service Pack 2

### Model structure: Document reference structure up-to-dateness in the header

In the **Model structure** tab of the HELiOS document master, the attribute **Document reference structure up-to-dateness (UI\_ReferenceTreeIsOutdated)** also displays the up-to-date status of the references in the header of the document structure.

Please also note that parts without any further referenced structures are also marked green and are therefore displayed as up to date ("Current").

Document		Document reference structure	
▼ DN-013498		Not assigned	Change title...
▼ DN-013501	○	Outdated	Horizontal alignment
▼ DN-013500	○	Outdated	✓ With text
DN-013499	○	Outdated	Representation type
▼ DN-013503	○	Current	Save
DN-013502	○	Current	Reset

### Performance increase for derivations

When an article with linked objects is derived in HELiOS and the drawing is then opened in HiCAD, the corresponding part in the drawing is replaced by the derivation. In the past, this could lead to time-consuming recalculations.

With the update to Service Pack 2 of HiCAD 2025, a considerable performance increase could be achieved here.

### HELiOS user in HiCAD window caption

From Service Pack 2 onwards, the logged-in HELiOS **User** and the user **Group** are displayed in the HiCAD window caption (instead of in the HiCAD Properties window).



## Service Pack 1

### HELiOS Ribbon with new functions

With the update to Service Pack 1, the “HELiOS PDM” Ribbon tab has been renamed to **HELiOS**.

New on this tab are the function groups **Project context** and **Folder context**, which include functions for the HELiOS detail masks of the active project or the active folder, as well as the Project Explorer and the Folder Explorer of HELiOS.

The screenshot shows the HELiOS ribbon at the top with various function groups. Below it, the Project Explorer window displays a list of articles, and the Folder Explorer window displays a list of documents.

**Project Explorer - Articles**

Article number	Ind	Wo	Designation	Part type	Designation	Standard designation	Creation date	Created I
SN-026018				Part		*	11.12.2024	Adminis
SN-000001			Slip-on gear mechanism	Product			02.10.2006	Konstru
SN-000002			Clamping element	Assembly			02.10.2006	Konstru
SN-000003			Housing assembly	Assembly			02.10.2006	Konstru
SN-000004			Gear wheel assembly	Assembly			02.10.2006	Konstru
SN-000005			Pinion assembly	Assembly			02.10.2006	Konstru
SN-000006			Gearbox housing	Part			02.10.2006	Konstru
SN-000007			Gearbox cover	Part			02.10.2006	Konstru
SN-000008			Gear wheel	Part			03.10.2006	Konstru
SN-000009			Pinion	Part			03.10.2006	Konstru
SN-000010			Guide sleeve	Part			03.10.2006	Konstru

Rows: 18 Display: All states

**Folder Explorer - Documents**



Document number	Index	Workflow	Designation	Document type	Creation date	Created by	File changed on
DN-000008			3-D model	HiCAD Part/Variant	02.10.2006	Konstrukteur1	02.10.2006 17:19:59
DN-000011			Production drawing	HiCAD Drawing	03.10.2006	Konstrukteur1	25.10.2006 09:48:15
DN-000005			Assembly drawing	HiCAD Drawing	02.10.2006	Konstrukteur1	24.10.2006 17:56:02
DN-000023			Production drawing	HiCAD Drawing	03.10.2006	Konstrukteur1	24.10.2006 17:56:36
DN-000010			3-D model	HiCAD Part/Variant	02.10.2006	Konstrukteur1	02.10.2006 17:23:18
DN-000237			*	HiCAD Drawing	11.12.2024	Administrator	11.12.2024 10:06:44
DN-000025			Production drawing	HiCAD Drawing	03.10.2006	Konstrukteur1	24.10.2006 17:56:38
DN-000013			Production drawing	HiCAD Drawing	03.10.2006	Konstrukteur1	24.10.2006 17:56:21
DN-000014			3-D model	HiCAD Part/Variant	03.10.2006	Konstrukteur1	03.10.2006 13:32:58
DN-000019			Production drawing	HiCAD Drawing	03.10.2006	Konstrukteur1	24.10.2006 17:56:29
DN-000034			3-D model	HiCAD Part/Variant	18.10.2006	Konstrukteur1	18.10.2006 11:14:26

Rows: 31 Display: All states


## Recursive visualisation of outdated documents in the document structure






































The virtual attribute **Document reference structure up-to-dateness** (UI\_ReferencecelsOutdated) is available to indicate referenced documents that have changed since the reference was created, and can be shown in a HELiOS document structure.

**Document reference structure up-to-dateness** (UI\_ReferenceTreesOutdated) is a further virtual attribute that has been added, which now also allows a recursive display.







	Document reference up-to-dateness	UI_ReferencecelsOutdated
	Document reference structure up-to-dateness	UI_ReferenceTreesOutdated

This means that the attribute indicates whether there is a referenced document in the corresponding subtree of the structure that has changed since the time of referencing.

The display in the result list of the document structure then looks like this (under  with pure icon display):

Model structure X Mask X Extended mask X Targets X Sources									
Standard									
Document					Ind		Wo	Designation	
▼ DN-013498								Draft	
▼ DN-013501								Part document	
▼ DN-013500								Part document	
DN-013499								Part document	
▼ DN-013503								Part document	
DN-013502								Part document	

You can also switch to a display **With text**:

Document		Document reference structure	
▼ DN-013498		Not assigned	
▼ DN-013501		Outdated	
▼ DN-013500		Outdated	
DN-013499		Outdated	
▼ DN-013503		Current	
DN-013502		Current	

Change title...  
 Horizontal alignment  
 ✓ With text  
 Representation type  
 Save  
 Reset

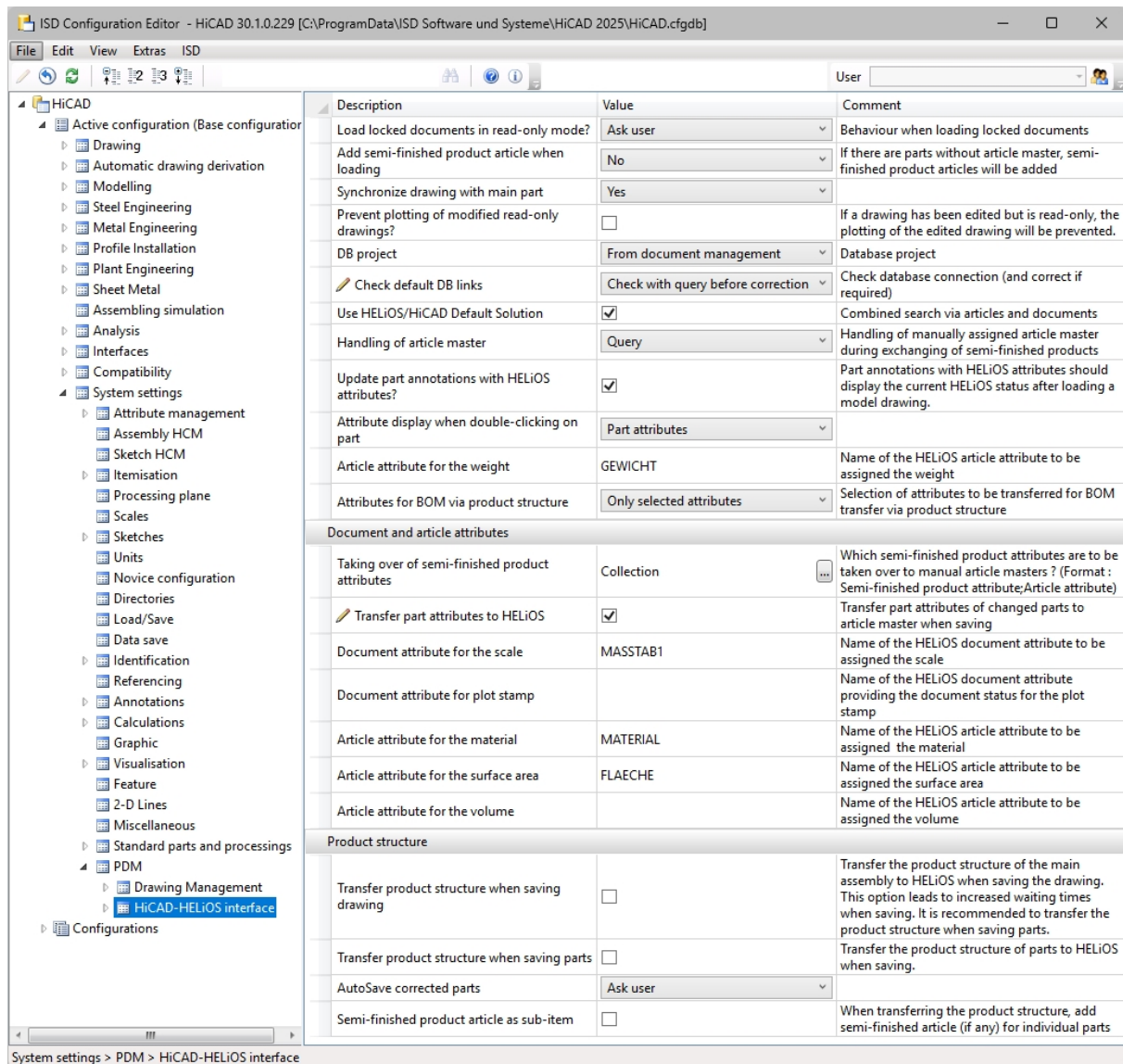
If the documents marked accordingly are opened, they are updated automatically (because they contain non-current references).

You can therefore also use the attribute in the results list display to proactively detect such updates and trigger them if necessary.

## Configuration Editor: HiCAD-HELiOS interface

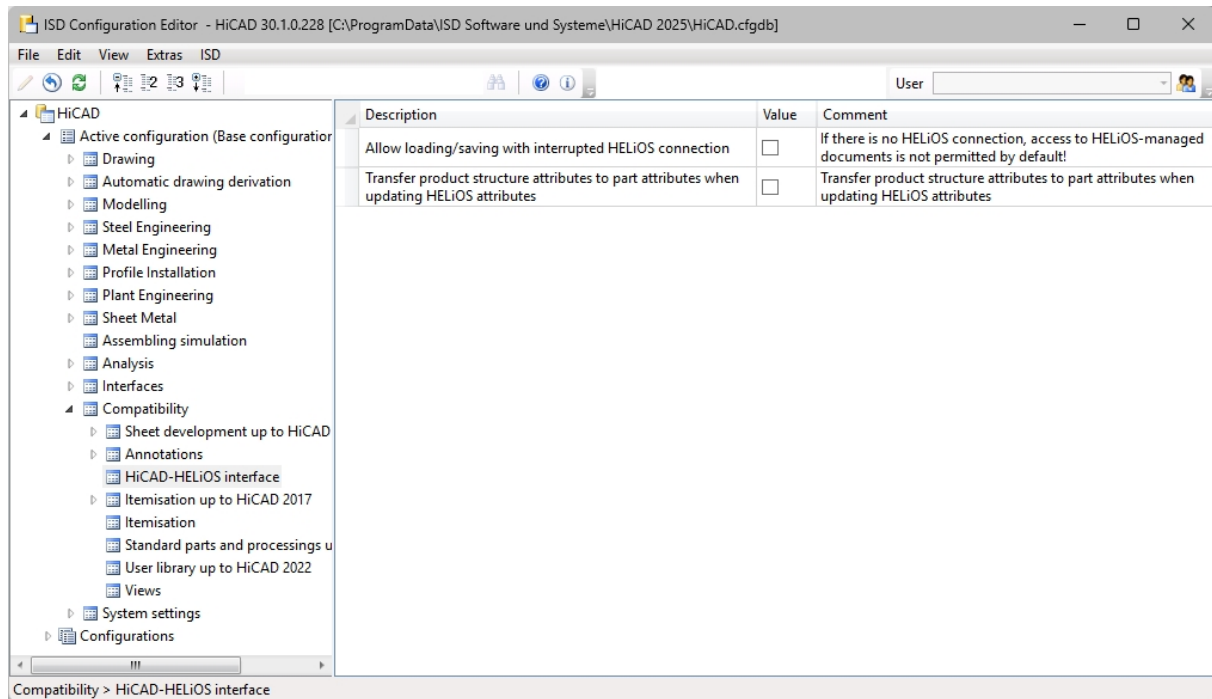
With the update to Service Pack 1, the interaction between HiCAD and HELiOS has been combined in the **Configuration Editor** (ISDConfigEditor):

Settings concerning the product structure or document and article attributes, which were distributed across different sub-menu paths in earlier versions, have now been combined at **Active Configuration (Base configuration) > System settings > PDM > HiCAD-HELiOS interface**:






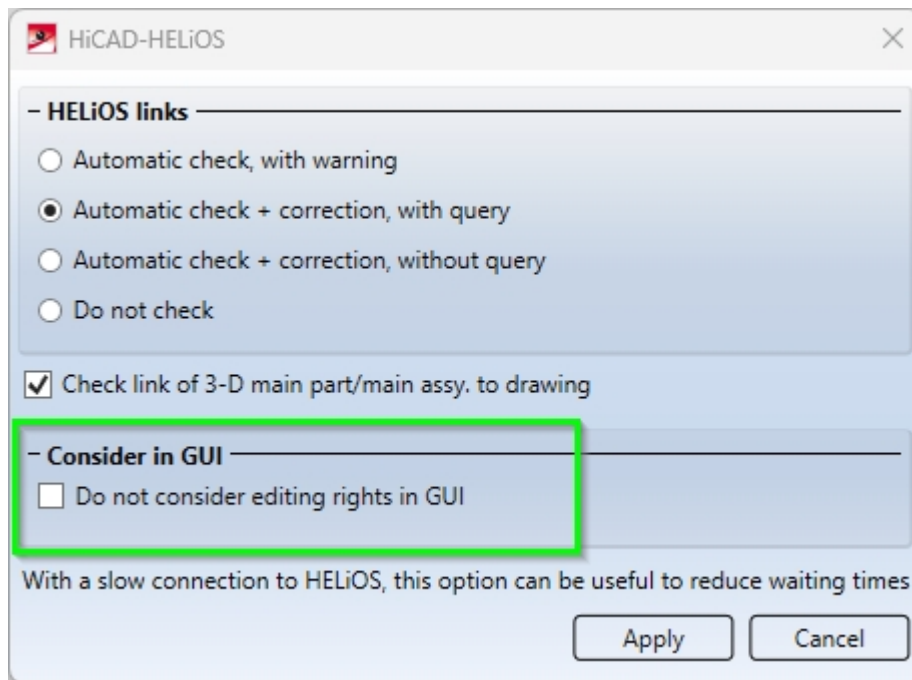
Settings for the database connection and for updating HELiOS attributes for HiCAD can be found at **Active configuration (Base configuration) > Compatibility > HiCAD-HELiOS interface**:



## Major Release

### Editing rights in the user interface

In the dialogue window that opens when you select **HELiOS > Others > Link**  **> Settings** , you will find the new menu area **Consider in GUI** with the checkbox option **Do not consider editing rights in GUI**.



It is not activated by default.

If the connection to HELiOS is slow, this option can be useful to reduce waiting times.



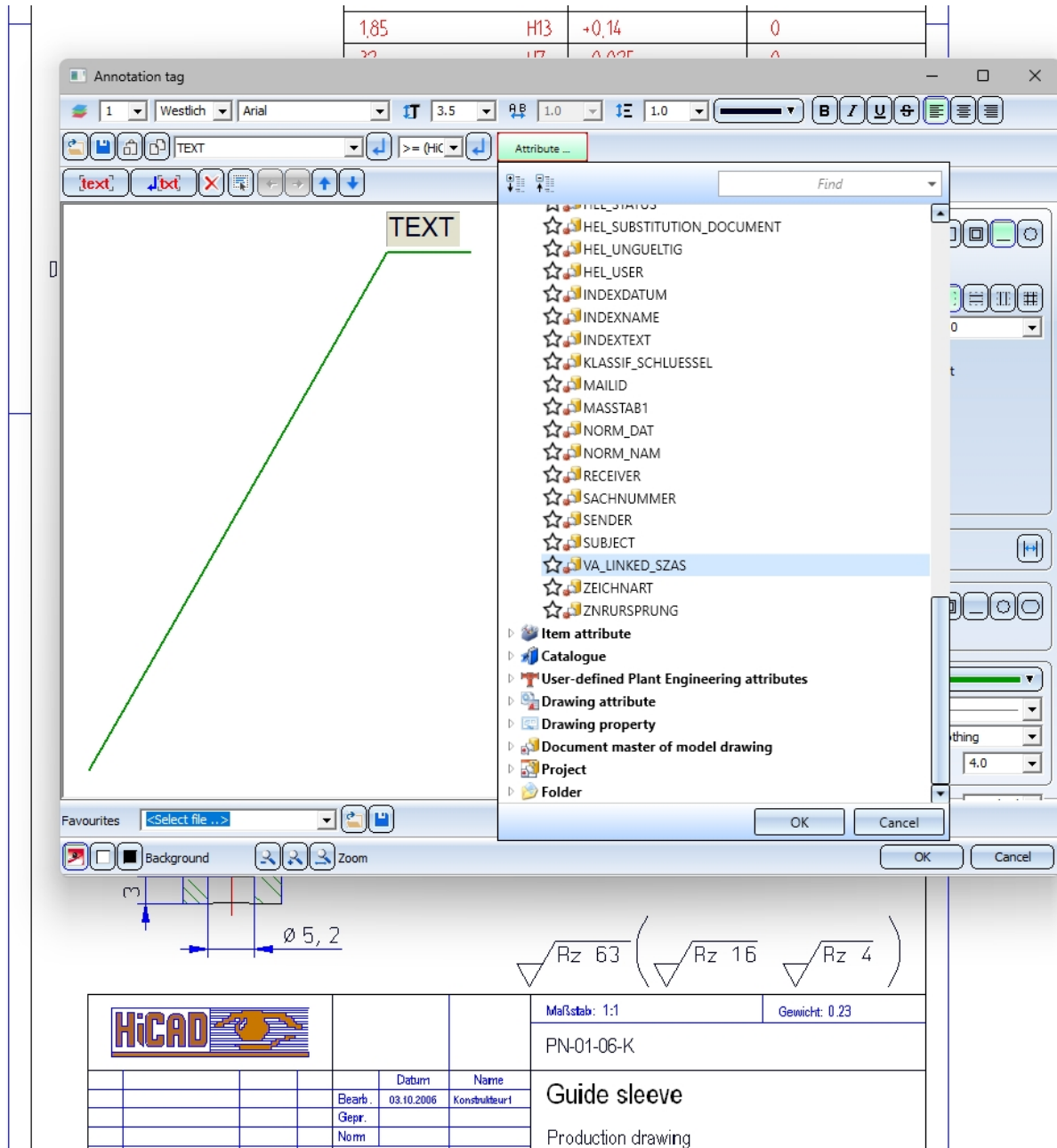
#### Please note:

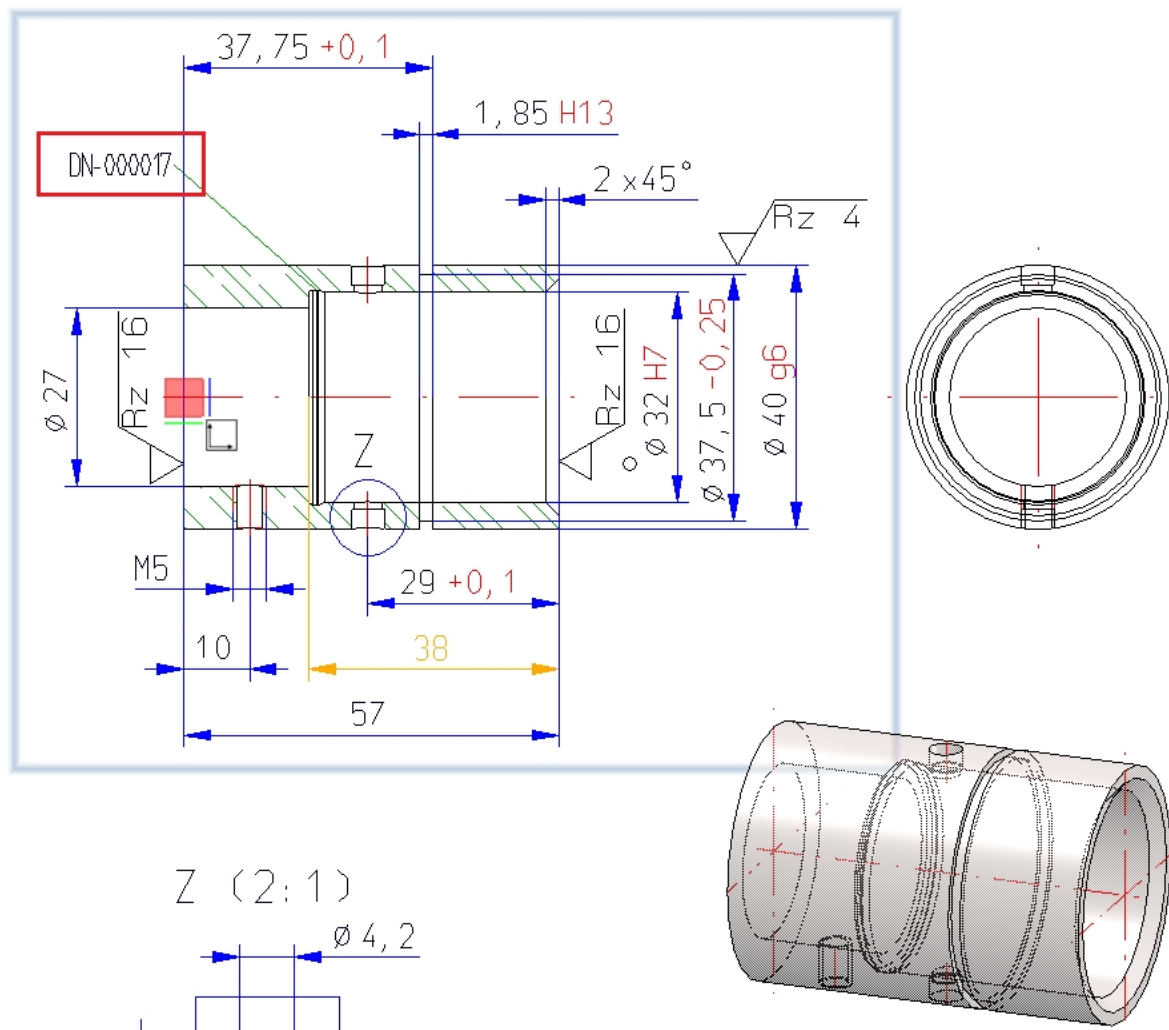
In earlier HiCAD versions, this settings dialogue was called "Automatic 3-D main part and link check in HELiOS functions".

Merging it with other options changes the name.

## Document number of drawing

A new HELiOS attribute can be used in HICAD's Text Editor for annotation tags: the virtual database attribute **VA\_LINKED\_SZAS** (under **Document master of part**) displays the drawing document number of a sub-part in an assembly.





## Load/Save behaviour when the HELiOS connection is interrupted

Please note the following changes in the application behaviour when working with HELiOS in HiCAD:

- Files last loaded in HiCAD always indicate whether they were loaded from HELiOS. Such files cannot be reloaded if (the connection to) HELiOS is not active.
- If a HiCAD file (.sza) is loaded from the HiCAD drawings directory (set in FILEGRUP.DAT) via the Windows Explorer, the system checks whether a corresponding HELiOS flag is set in the file header. This prevents the file from being loaded locally. HiCAD files that have been loaded locally from other directories can be opened.
- The same restrictions that apply to SZA files do not apply to KRA files, which can be loaded and saved without restriction.
- If the connection to HELiOS is switched off during a running HiCAD session, all loaded HiCAD files with HELiOS reference (document master ID) are set to 'write-protected'. This means that they can no longer be saved (even if the database connection is re-established). Therefore, you will receive a warning message when switching off, which gives you the opportunity to cancel the switch-off.
- If desired, you can disable this behaviour in the **ISD Configuration Editor** by going to **Compatibility > HiCAD-HELiOS interface** and enabling the **Allow loading/saving with interrupted HELiOS connection** checkbox.

# HELiOS for AutoCAD

## Service Pack 2

### AutoCAD 2026

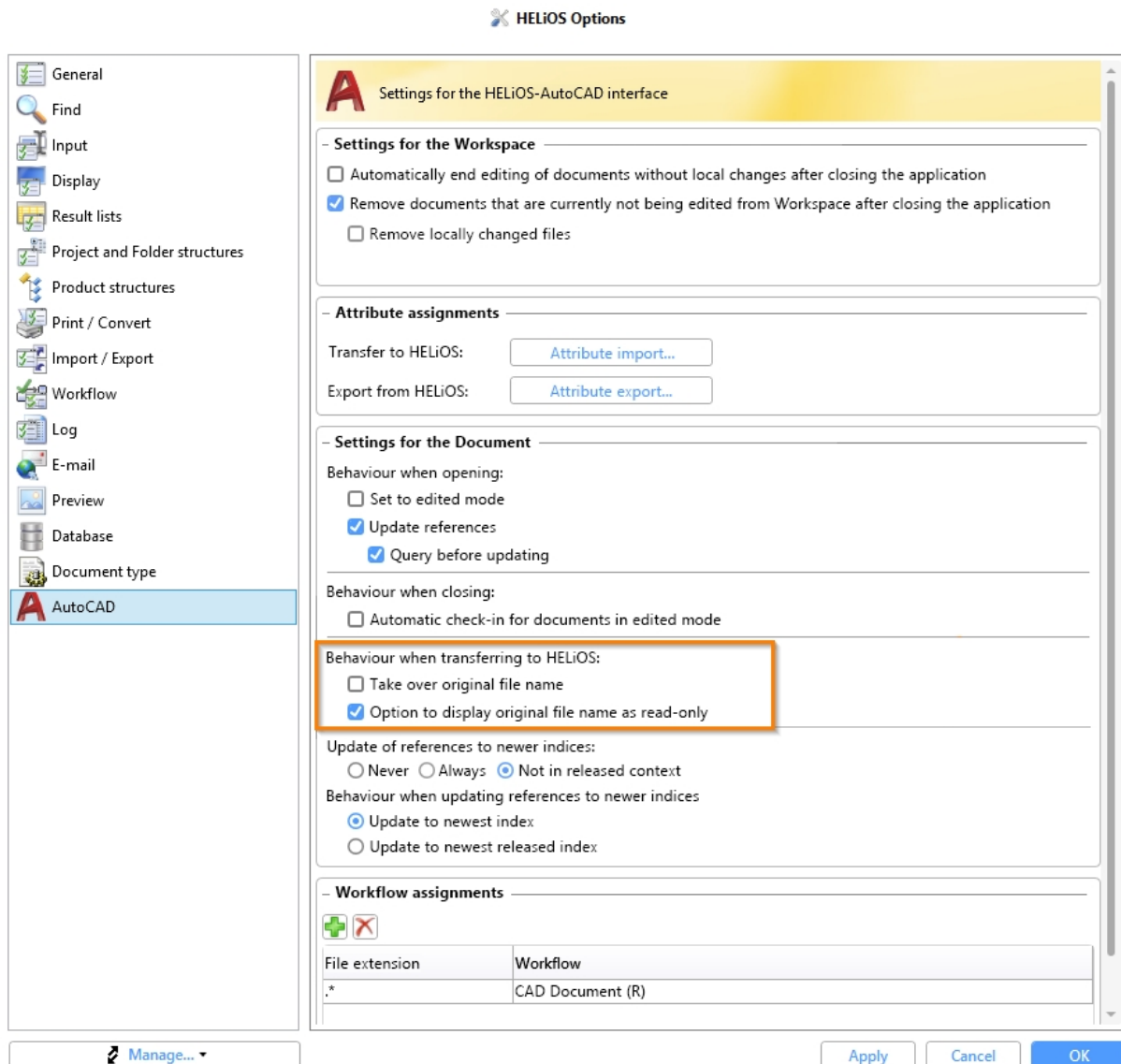
The update to HELiOS 2026 supports the latest version of AutoCAD and AutoCAD Mechanical.

## Service Pack 1

### Behaviour when adopting a file name in HELiOS: Take over original file name

In the **HELiOS Options**, you can define whether the original file name of the underlying file is to be taken over when creating a new file with New in HELiOS.

Another option controls the visibility of the corresponding setting in the input dialogue.



## Major Release

### AutoCAD 2025

The update to HELiOS 2025 supports the latest version of AutoCAD and AutoCAD Mechanical.



# HELiOS for Autodesk Inventor

## Service Pack 2

### Inventor 2026

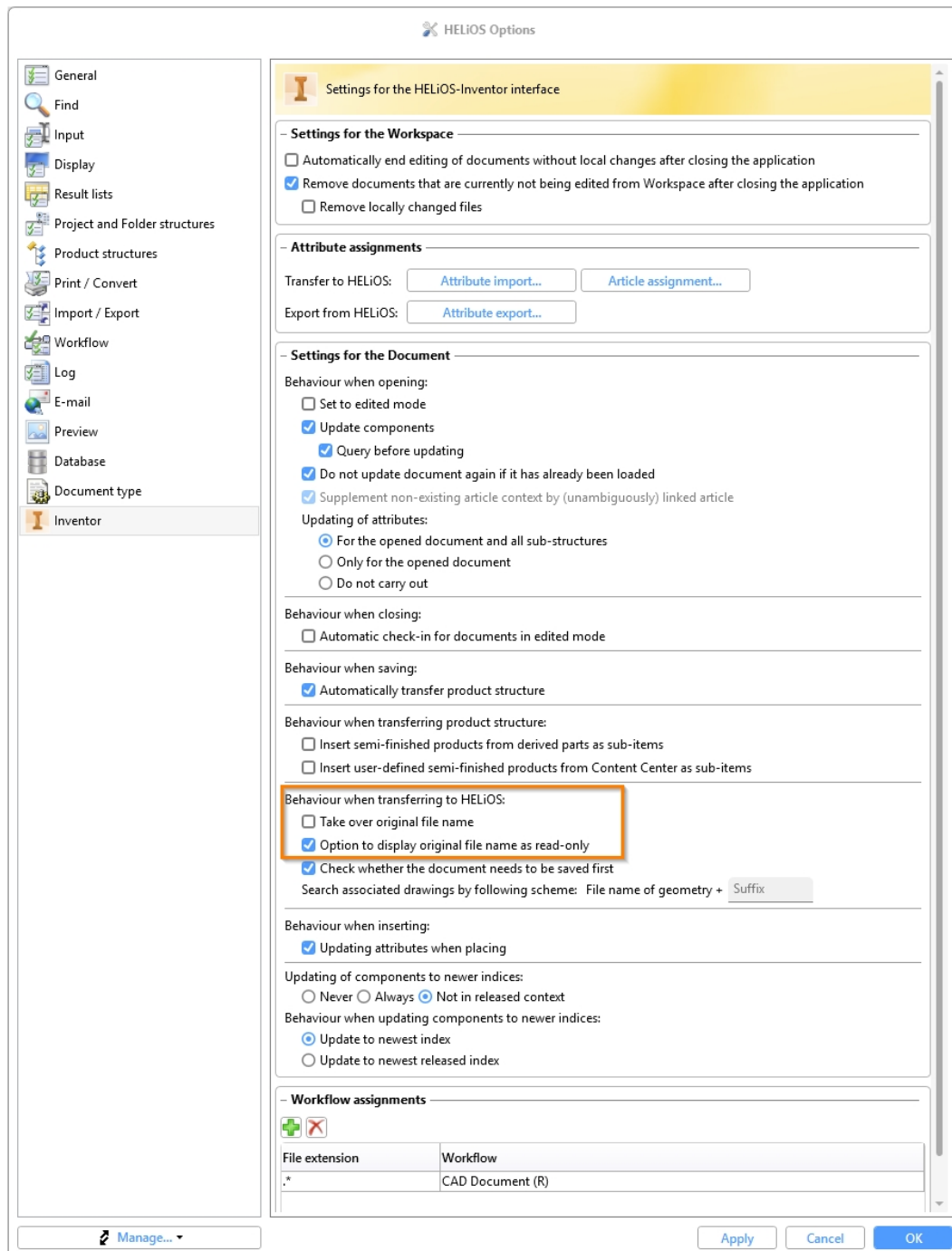
The update to HELiOS 2026 supports the latest version of Autodesk Inventor.

## Service Pack 1

### Behaviour when transferring to HELiOS: Take over original file name

In the **HELiOS Options**, you can define whether the original file name of the underlying file is to be taken over when creating a new file via **New in HELiOS**, as well as when deriving and indexing documents.

Another option controls the visibility of the corresponding setting in the input dialogue.



## Major Release



### Inventor 2025

The update to HELiOS 2025 supports the latest version of Autodesk Inventor.

# Internet Server

## Service Pack 2

### Exporting files from folders and projects

When you select the **Download files of the project**  or **Download files of the folder**  function in the HIS interface, an export dialogue box opens as a sub-menu with additional options similar to those in HELiOS Desktop.

Find project

Find project > Download files of the project

Settings

File name:

☒ Attribute assignments 

Standard

☒ Replace invalid characters with underscore (\/:\*?<>|").

☐ As saved

Options:





☒ As ZIP archive 

HeliosExportedArchive-2025-05-22\_14-0

.zip

☒ Create project as superordinate directory
 ☐ Also export sub-project structure with content
 ☐ Export all indices of a document

Standard

	Download	Document number	Ind	File size	Generated file name	File exte	Article	Project	Folder
...	<input checked="" type="checkbox"/>	 DN-000290		0,00 KB	_DN-000290			20230811-1	
...	<input checked="" type="checkbox"/>	 DN-000820		0,00 KB	_DN-000820	.txt		20230811-1	
...	<input checked="" type="checkbox"/>	 DN-000821		160,63 KB	SN-026461_DN-000821	.sza	SN-026461	20230811-1	
...	<input checked="" type="checkbox"/>	 DN-000822		20,33 KB	SN-026461_DN-000822	.kra	SN-026461	20230811-1	

Any errors that occur when downloading documents are checked and, if necessary, displayed as messages in the same way as in the HELIOS Desktop:

Project Explorer

Project Explorer > Download files of the project

Settings

File name:  
☒ Attribute assignments 

Standard

☒ Replace invalid characters with underscore (V:?'<>|"): sn.  
☐ As saved

Options:

☒ As ZIP archive 

HeliosExportedArchive-2025-05-22\_14-0

 .zip  
☒ Create project as superordinate directory  
☐ Also export sub-project structure with content  
☐ Export all indices of a document

Standard

	Download	Document number	Ind	File size	Generated file name	File exte	Article	Project	Folder
...	<input checked="" type="checkbox"/>	DN-000241		72,88 KB	SN-000011_DN-000241	.pdf	SN-000011		AN-100-06
...	<input checked="" type="checkbox"/>	DN-000026	a	263,63 KB	SN-000001_DN-000026	.sza	SN-000001		
...	<input checked="" type="checkbox"/>	DN-000026		263,63 KB	SN-000001_DN-000026	.sza	SN-000001		
...	<input checked="" type="checkbox"/>	DN-000011		521,55 KB	SN-000007_DN-000011	.sza	SN-000007		
...	<input checked="" type="checkbox"/>	DN-000015		463,37 KB	_DN-000015	.sza		PN-01-06-K	
...	<input checked="" type="checkbox"/>	DN-000237		383,04 KB	SN-000007_DN-000237	.pdf	SN-000007		AN-100-06
...	<input checked="" type="checkbox"/>	DN-000074		0,02 KB	DN-000074	.sza		DN-01-06-K	


Document	Error
DN-000026	Generated file name is ambiguous.
DN-000015	Generated file name is ambiguous.
DN-000001	Generated file name is ambiguous.
DN-000035	Generated file name is ambiguous.
DN-000002	Generated file name is ambiguous.
DN-000003	Generated file name is ambiguous.
DN-000004	Generated file name is ambiguous.
DN-000005	Generated file name is ambiguous.

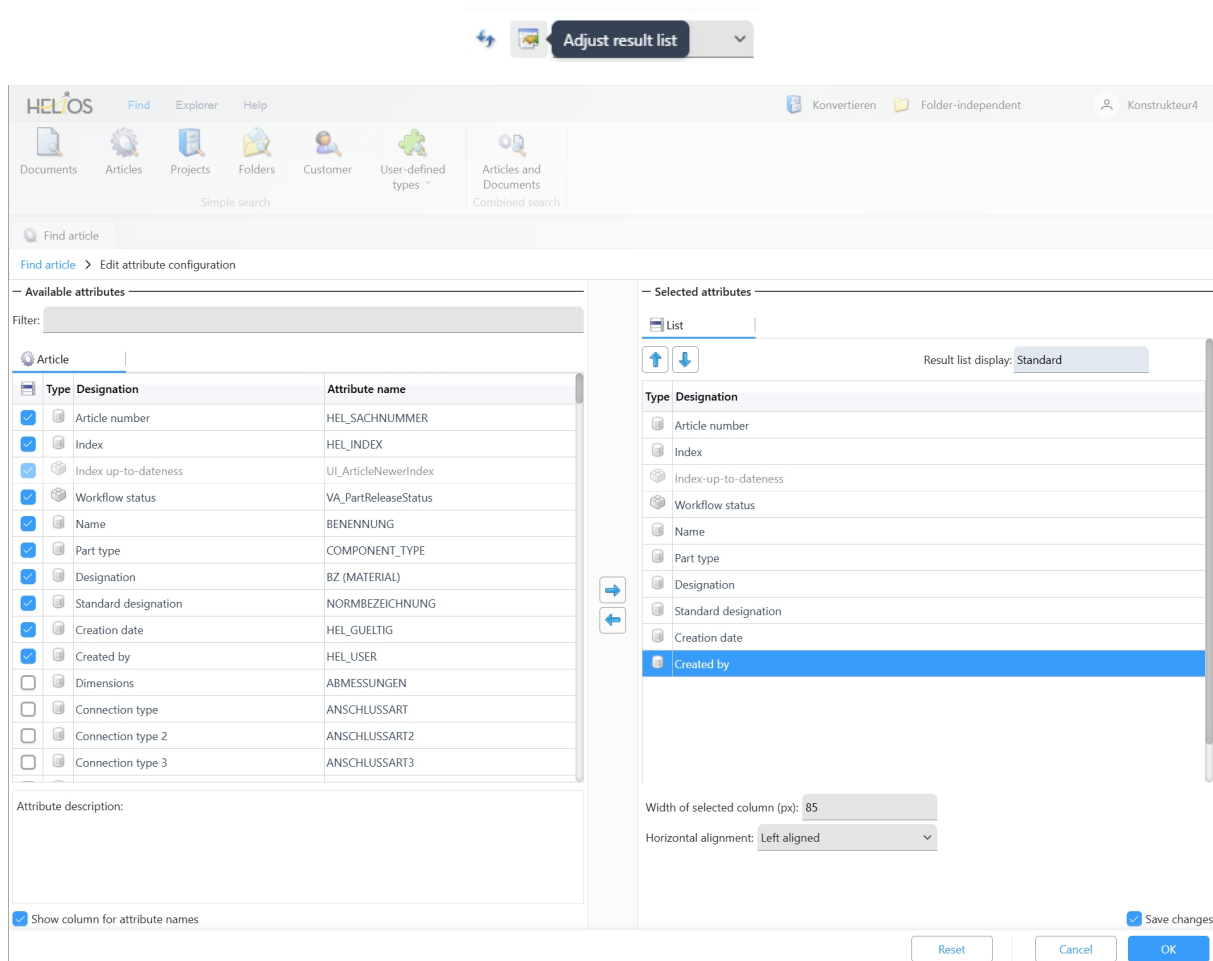
Cancel

OK

## Result list configuration

Similar to the result list configuration you are familiar with from the HELIOS Desktop, you can also click on **Adjust res-**


**ult list**  in the HELiOS Internet Server interface to add additional columns to the active result list of your HIS view and set the desired width for these columns.

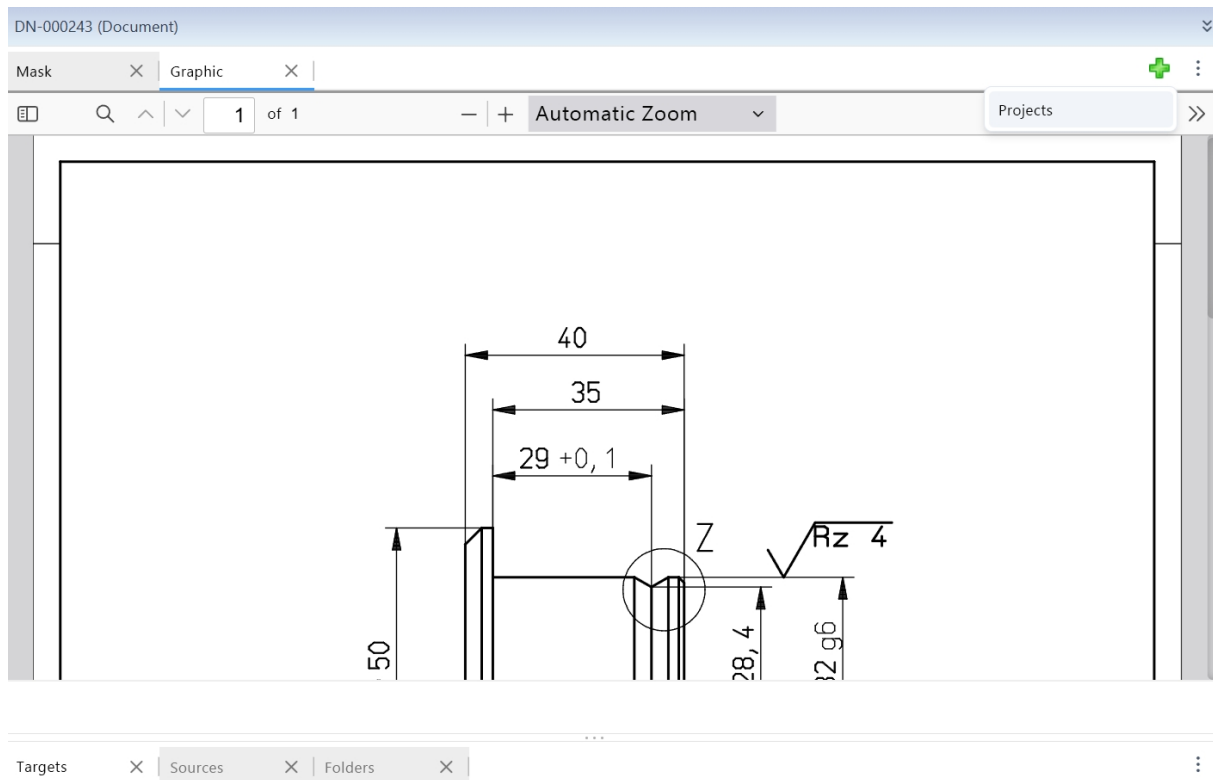


Result list rows can also be easily selected using the arrow keys on your keyboard. In the tree structures of the project or folder explorer, you only need to press the space bar on a row.

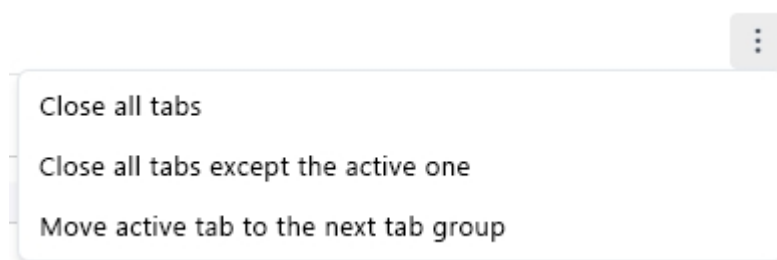
## Order of tabs in object dialogues

With Service Pack 2 for HELiOS 2025, you will find extended functionality for the tabs in object detail masks (e.g. those for documents) in the HELiOS Internet Server user interface.

You can change the order in which the tabs are displayed by closing tabs by clicking on the X on the right and adding them via  in the toolbar. This is saved and displayed again the next time you call up the window.

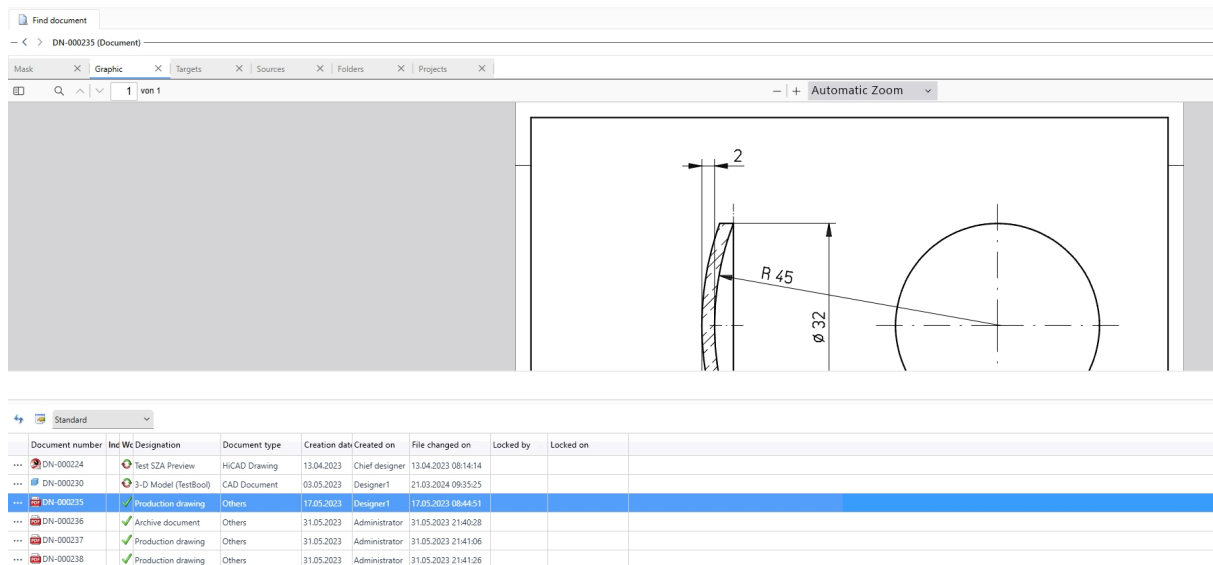


Clicking on the button gives you further options for the tabs:



The order of the tabs is saved individually in three different places in the HIS user interface:

- The tabs of an object mask that are displayed in the view above when you click on a row in a search result list.



- The order of the tabs in a separately opened object mask that is called up when you call up a document via **Show document**, for example:

	Document number	Ind Wc	Designation	Document type
...	DN-000224		Test SZA Preview	HiCAD Drawing
...	DN-000230		3-D Model (TestBool)	CAD Document
...	DN-000235		Production drawing	Others
...	DN-000236		Archive document	Others
...	DN-000237		Production drawing	Others
			Show document	
			Copy HELiOS URL	
			Download document	
...	DN-000242		Production drawing	Others
...	DN-000243		Production drawing	Others

The order of the tabs of an object in the object detail docking window of the Project Explorer or Folder Explorer.

## Optimised SyncManager

The **SyncManager.exe** tool can be used to automatically synchronise the creation and updating of previews in the Cadmium Webviewer.

With the update to Service Pack 2 for HELiOS 2025, this tool has been improved and optimised, including the output of some system and error messages.

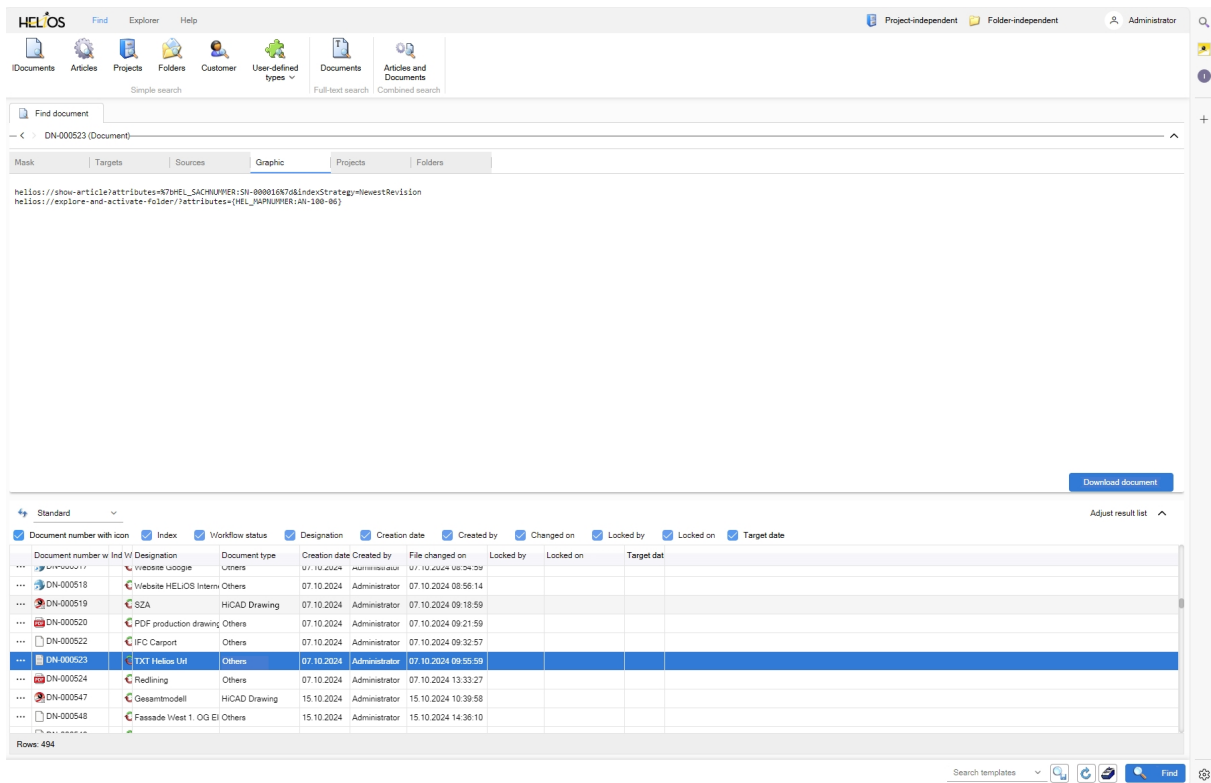


## Service Pack 1

### Preview of .txt files

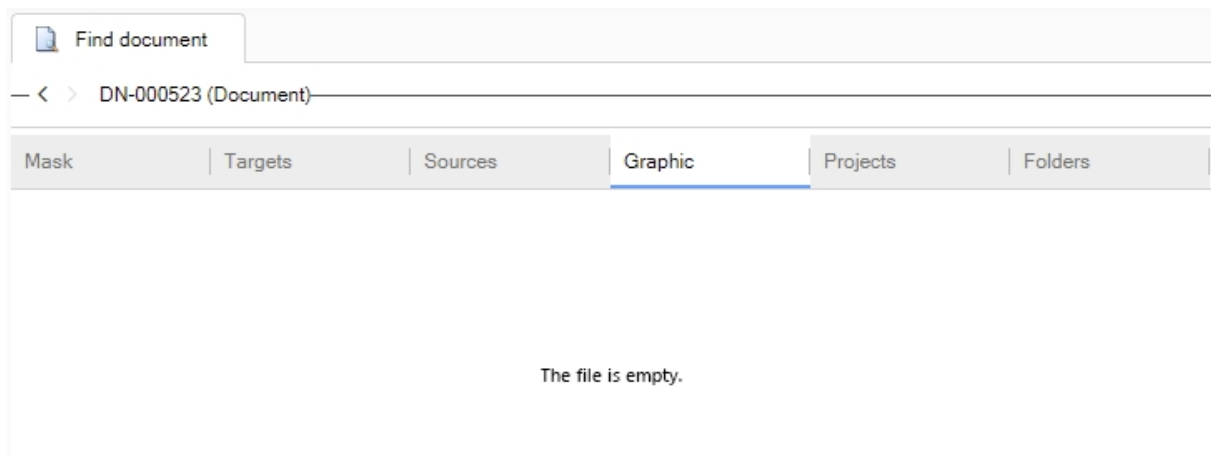
With the update to Service Pack 1, the preview mechanisms of HELiOS have also been further optimised in the area of the HELiOS Internet Server.

For text files (\*.txt), you can see a preview of the data content in the **Graphic** tab of a document's detail view.



If the text is longer, scroll bars will appear so that the file can be viewed completely in the preview.

If a text file has been saved in HELiOS without content, a corresponding message will be displayed in the Graphic preview:



## Attribute assignments for Cadmium Cloud

In the HELiOS Desktop, the new sub-menu area **Attribute assignments for Cadmium Cloud** can be found at **HELiOS Options > Preview**.

Here, you can define the assignments of HELiOS attribute assignments for the display name and the description of documents in the Cadmium Cloud preview.

✂ Attribute assignments for export from HELiOS

Type: Model property + ✗ ↑ ↓ ✎ 📄

Filter: + **Create new attribute assignment for a model property**

+ ✗ ↑ ↓ + ✎ Converter:

Value	Converter
<span>📄</span> Document type (DOCUMENT_TYPE, Document)	<span></span>

**Destination**

Property: Description

**Constraint**

Name:

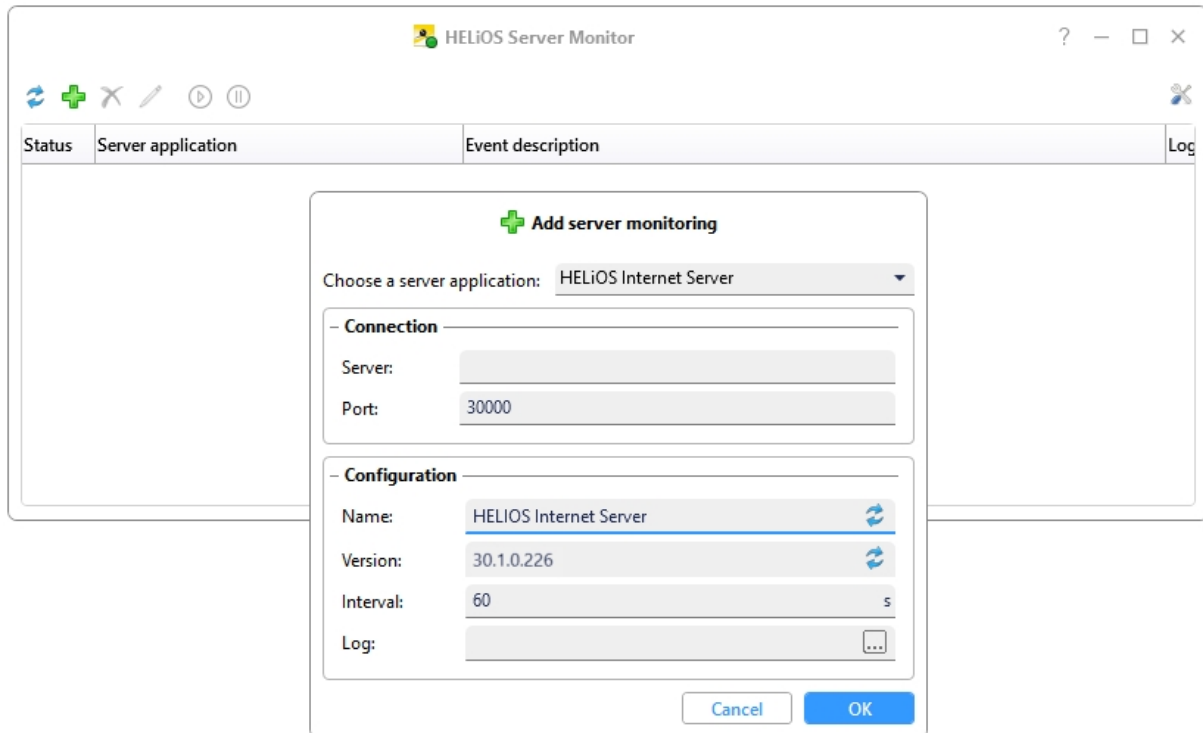
Cancel OK

In the Workspaces display in the Cadmium Cloud, this corresponds to the columns "Display name" and "Description":

Id ↑	Display name	Description	Date	GUID	File Size	Upload state	Creator
------	--------------	-------------	------	------	-----------	--------------	---------

## HELiOS Internet Server in the Server Monitor

The **Server Monitor** tool for monitoring the status of HELiOS server applications has been extended to include the HELiOS Internet Server with the update to Service Pack 1.

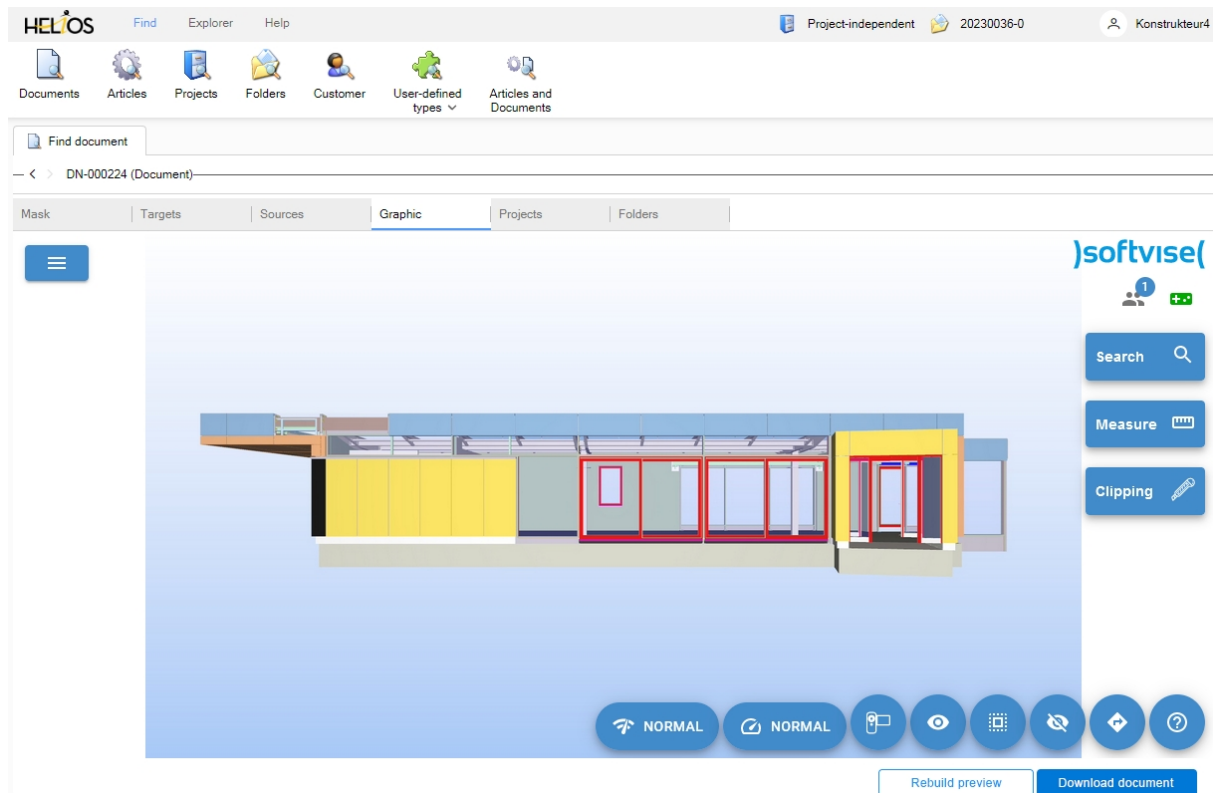


## Major Release

### Cadmium Webviewer

With the update to HELiOS 2025, the cooperation between the **HELiOS Internet Server** and the **Cadmium Cloud** from Softvise has been further improved.

In addition to the extended configuration options that you can set up via the HELiOS Desktop on your HIS system, you can also set up the preview mechanism of the HELiOS Desktop to display files with the Cadmium Cloud.



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### Your local contact

We attach great importance to the direct contact with our customers and partners, because only a lively dialogue and constant exchange with practice ensure application-oriented software development.

Feel free to contact us! Whether at our headquarter in Dortmund or at one of our branches and subsidiaries in your vicinity - we will be happy to answer all your questions about our products and services. We are looking forward to hearing from you!

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