HELiOS

UNLIMITED PLM PERFORMANCE **DEVELOPED BY ISD**

HELiOS - What's new?

Version 2023

News Overview

Date of issue: 10/07/2023

isdgroup.com

I·S·D

THE WORLD OF CAD AND PDM SOLUTIONS

TOC

Notes on HELiOS Updates 7

HELiOS Desktop 9

Service Pack 2 2023 (V 2802) 9

Utilized articles 9

Print locally 10

Project and folder change behaviour in the Combined search 11

Edit workflow status: Improved dialogue 12

Attribute mappings for document input 13

Import 14

Central configuration for date fields and time zone 15

Performance 16

Service Pack 1 2023 (V 2801) 17

Optimised search result lists 17

Errors during printing or export 17

Context menu entry for saving to HELiOS 18

New data type for List attributes 19

Installation DVD: Changed path of the default database 20

Major Release 2023 (V 2800) 21

Units in the context menu 21

Copy and paste attribute values with unit category 21

Export and import files 22

Print documents: File name configuration 23

Index up-to-dateness 23

HELiOS Options: Default configuration for product structure output 24

Mark-up and Redlining 25

Bill of Materials / Report Manager 26

Service Pack 2 2023 (V 2802) 26

Edit template for export to Excel 26

Extended Steel Engineering lists 26

Dimension attributes Length and Width 26

Extended bar list 27

Templates for DSTV and ERPlus 27

Major Release 2023 (V 2800) 28

New ISD Report Manager 28

User interface 28

Export 29

Column properties 30

Head data setting 30

Sort sequence 31

Filter settings 31

User-definable columns 32

Excel-BOM with pipe length list 32

HELiOS Options: Switching between previous and new ISD Report Manager ... 33
New BOM templates for HELiOS ... 33

HELiOS Spooler ... 34

Service Pack 2 2023 (V 2802) ... 34
Performance ... 34
Result list attribute to mark documents being updated by Spooler ... 34
PDF printing via Windows ... 35

Service Pack 1 2023 (V 2801) ... 36
Performance ... 36

Major Release 2023 (V 2800) ... 37
Support of RM3/ RMA files discontinued ... 37
Server Monitor ... 37
HELiOS Task Starter ... 37

HELiOS Vault Server ... 38

Service Pack 2 2023 (V 2802) ... 38
Server Monitor: Communication port for article synchronisation during installation ... 38

Service Pack 1 2023 (V 2801) ... 39
Server Monitor: HELiOS Article Synchronization ... 39

Major Release 2023 (V 2800) ... 40
Server Monitor ... 40

HELiOS MS Office Interface ... 41

Service Pack 2 (V. 2802) ... 41
Combined search ... 41

Major Release 2023 (V 2800) ... 43
Outlook: Attach preselected document ... 43

HELiOS CAD/CAE Integrations ... 44

Service Pack 2 2023 (V 2802) ... 44
Extension of Batch update function ... 44
Attribute assignments for user-defined object types ... 47
Workspace ... 47
Query for direct saving when linking articles ... 48

Service Pack 1 2023 (V 2801) ... 49
HeliosCouplings ... 49

Major Release 2023 (V 2800) ... 50
Open, with options ... 50
Batch update ... 52
Discontinuation of older multi-CAD interfaces ... 53

HELiOS in HiCAD ... 54

Service Pack 2 2023 (V 2802) ... 54
Automatic removal of documents from the HELiOS workspace ... 54

Message if HiCAD Integration module is missing ... 54
IFC interface: Show HELiOS attributes ... 55
Service Pack 1 2023 (V 2801) ... 56
Deleting the item numbers when deriving ... 56
Open STEP file via HELiOS in HiCAD ... 56
New article class for part type Welding neck ... 57
Major Release 2023 (V 2800) ... 59
Transfer of the HiCAD sheet structure ... 59
HiCAD-specific HELiOS settings moved to Configuration Editor ... 60
New ISD Report Manager ... 62
HiCAD - HELiOS Head ID ... 62

HELiOS for AutoCAD ... 63
Major Release 2023 (V 2800) ... 63
AutoCAD 2023 ... 63

HELiOS for Autodesk Inventor ... 64
Service Pack 2 2023 (V 2802) ... 64
Exchange / Exchange all ... 64
Major Release 2023 (V 2800) ... 65
Inventor 2023 ... 65
Exchange / Exchange all ... 65

HELiOS for SOLIDWORKS ... 66
Major Release 2023 (V 2800) ... 66
Open, with options: Large design review ... 66
Batch import ... 66

Navisworks Interface ... 67
Major Release 2023 (V 2800) ... 67
Support of Navisworks 2023 ... 67

HELiOS & EPLAN ... 68
Service Pack 1 2023 (V 2801) ... 68
Support of EPLAN 2023 ... 68
Server Monitor: HELiOS Article Synchronisation ... 68
Major Release 2023 (V 2800) ... 70
Support of EPLAN 2022 ... 70
Improvements and extensions ... 70

HELiOS for Zuken E3 ... 72
Service Pack 1 2023 (V 2801) ... 72
Server Monitor: HELiOS Article Synchronisation ... 72

Notes on HELiOS Updates

For an update to HELiOS 2021 (Version 2600) from a version older than 2500 a central update of the supplied HELiOS database is required.

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.

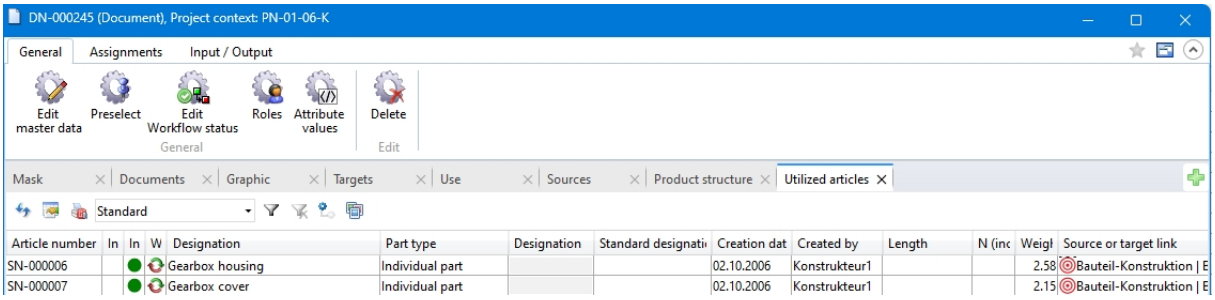
HELiOS Desktop

Service Pack 2 2023 (V 2802)

Utilized articles

In the context of the document detail window you will find the new result list tab **Utilized articles**.

This shows you the article contexts stored in the model structure for the document.



In contrast to the model structure, this result list can be sorted and filtered more easily and articles can also be displayed consolidated, i.e. they only appear once in the result list, as is not possible in the context of the model structure due to its model tree and instance approach.

The articles listed there may deviate from the bill of materials (product structure) if, for example, you are working with assemblies that are not BOM-relevant.

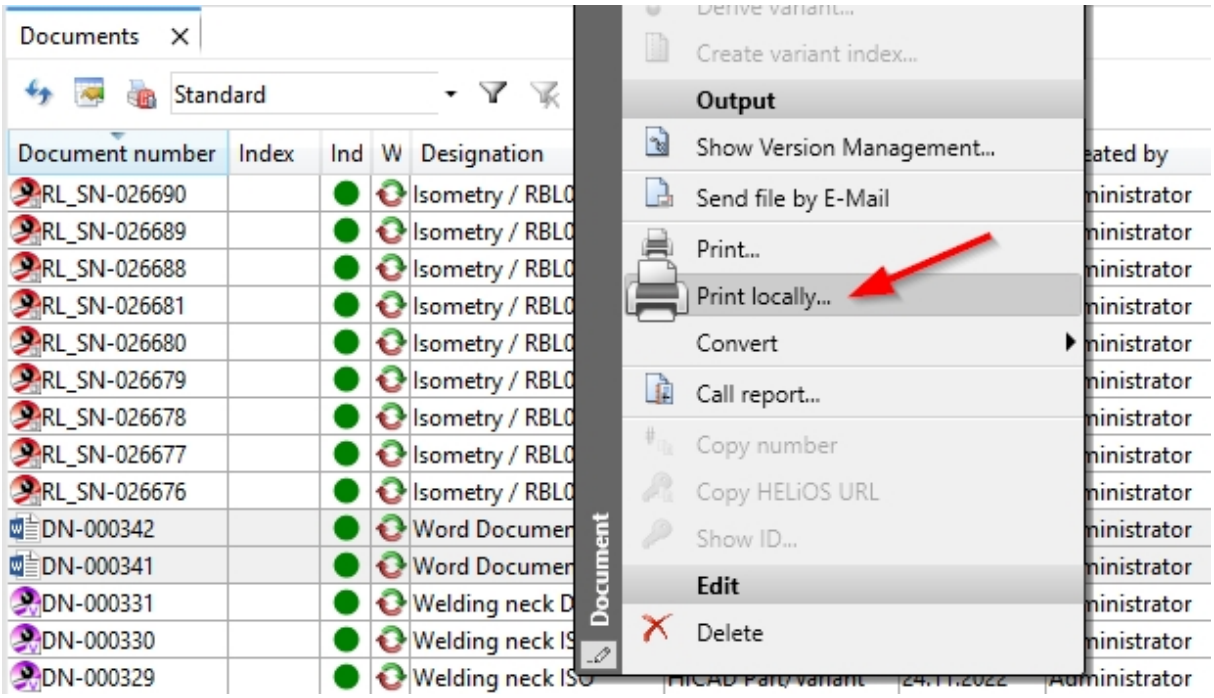
For use cases such as the release of an assembly structure, the display of used articles based on the model structure, in the results list of the document context can therefore be very helpful.

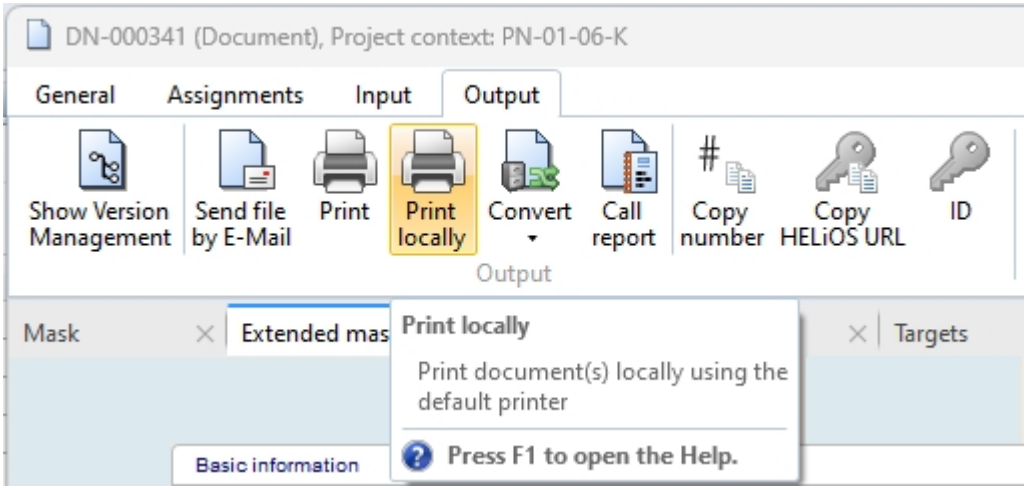
Print locally

In the context menu of documents or in the Output tab of the document detail window you will find the new function Print locally.

With this function you can print documents such as Office or PDF files from the HELiOS Desktop via the Windows standard printer.

The function can also be used for a multiple selection of documents. In this way, you can print documents from a result list in the present order without having to select them individually for printing via the HELiOS Spooler.

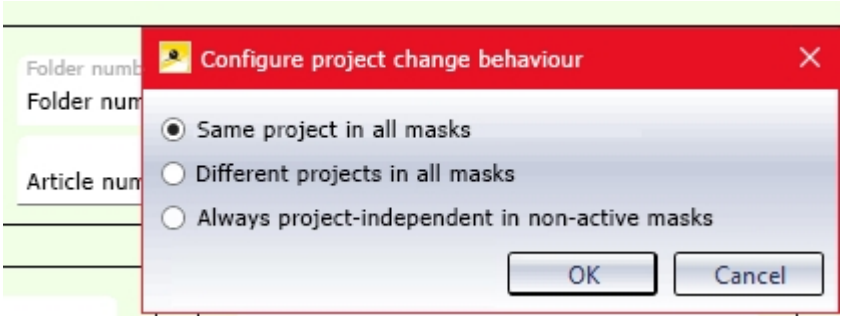




Project and folder change behaviour in the Combined search

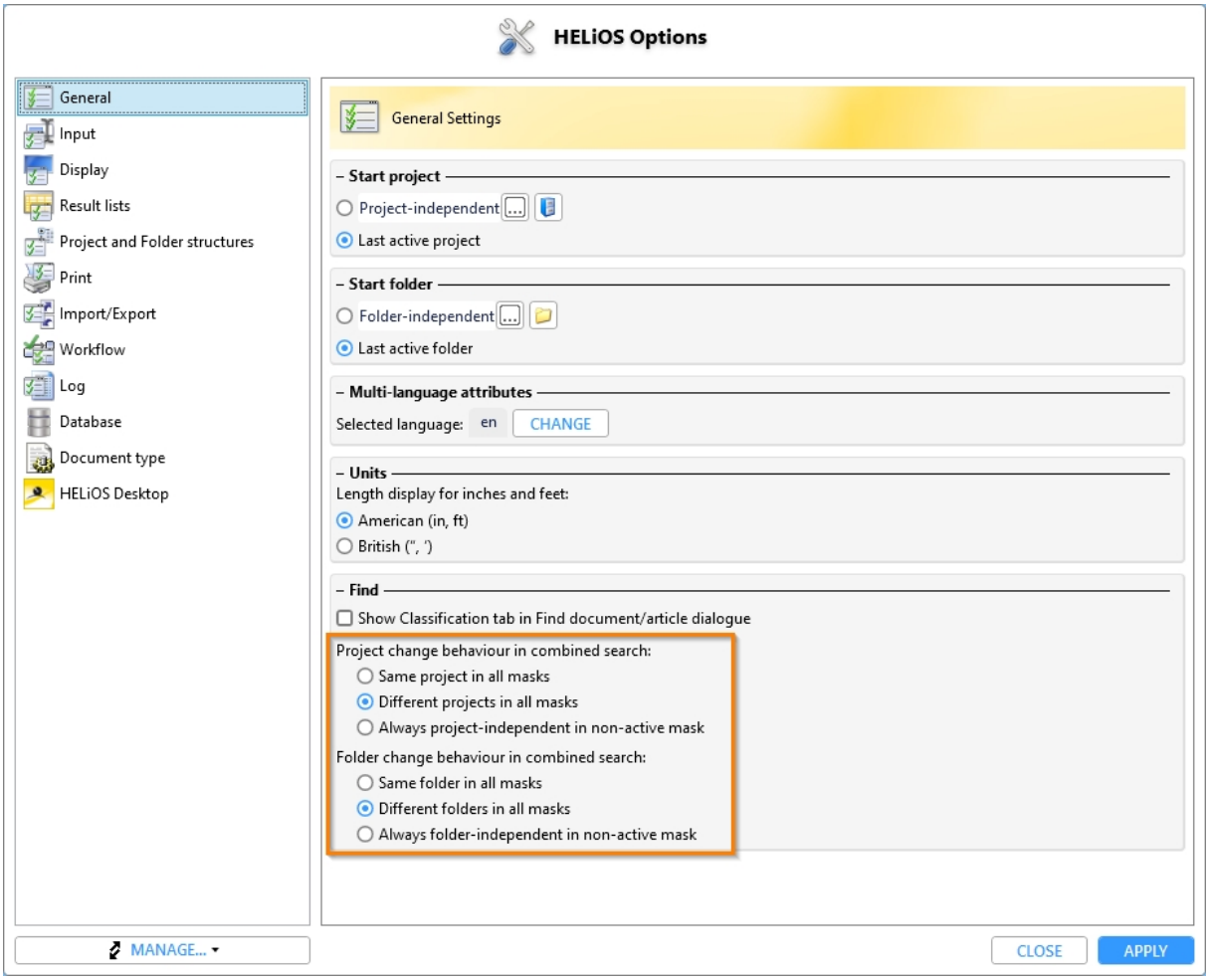
In older HELiOS versions, when working with the **Combined search**, you could set the behaviour of how selected projects or folders are handled when the selection is changed: Should the change of a project or folder in a search mask also affect the other masks of the Combined search, should projects or folders be set individually on each mask, or should inactive search masks be set independently of projects or folders?

Old procedure: Combined search > Project change behaviour



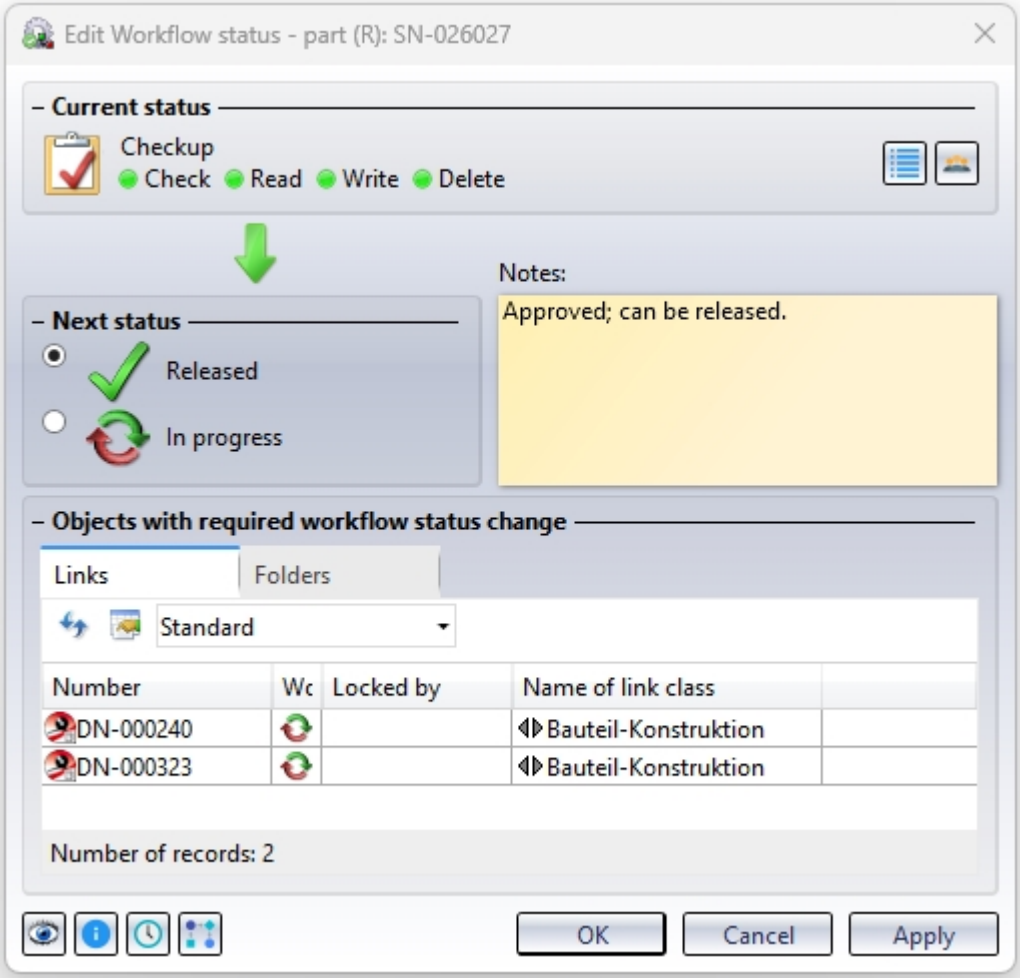
With the update to HELiOS 2023 Service Pack 2, you will find the settings for this at **HELiOS Options > General**, under **General Settings > Find**.

This has the advantage, among other things, that this option can then also be exported / imported and made available as uniform behaviour on other computers.



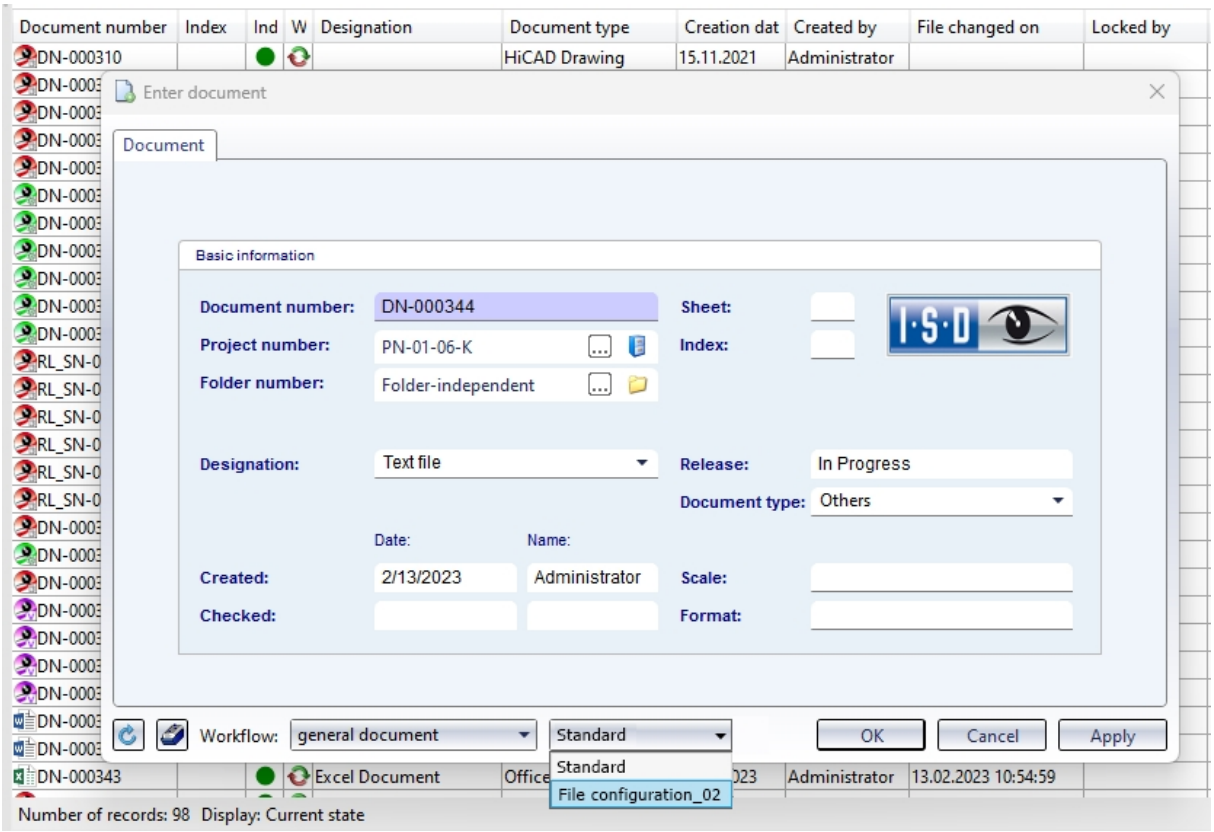
Edit workflow status: Improved dialogue

In the **Edit workflow status** dialogue window you can either make changes by clicking **OK**, which will close the window, or by clicking **Apply**, which will keep the dialogue window open, so that you can also set the next Workflow step directly, if desired.



Attribute mappings for document input

The attribute mappings for file import, which you can configureat **HELiOS Options > General > HELiOS Desktop**, also apply to document input via **Input > Document** and for template files, and can be selected accordingly in a pull-down menu of the Enter document dialogue.

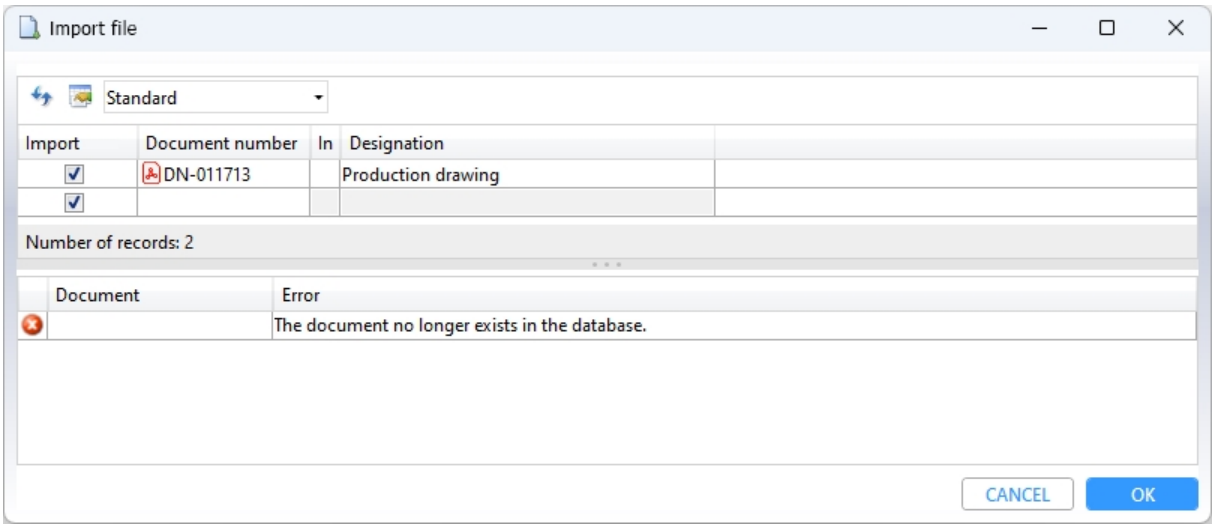


Import

The re-import of files via **Input > Serial input > Import** has been adapted to reflect possible error sources more transparently:

If files contained in the selected XML file are not found in HELiOS during the import, you will receive a corresponding error message before the remaining existing files are offered for re-import.

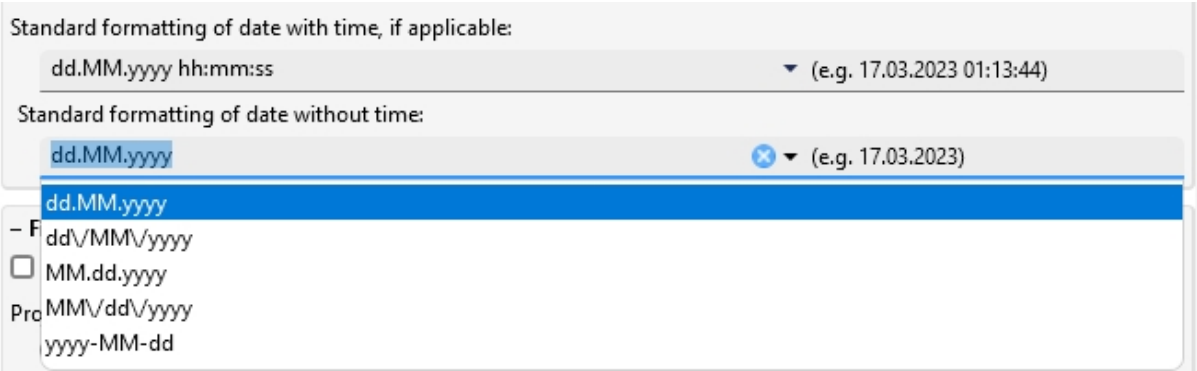
If the target document is no longer contained in the database, you will also receive a corresponding error message when attempting a re-import:



Central configuration for date fields and time zone

In addition to the possibility to assign an **Own date/time format** or the **Database time format** to result list areas, the possibility to further influence the default formatting of date values in HELiOS masks has been created.

For this purpose, you will find in the **HELiOS Options** under **General > Units and formatting** the new configuration options for **Standard formatting of date with time, if applicable** and **Standard formatting of date without time**:

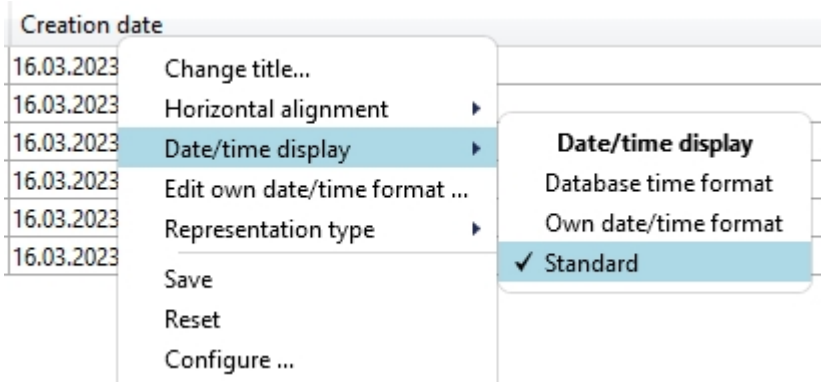


The selection lists are preset with a number of frequently used formattings, which you can select accordingly. A preview of the selected formatting is displayed in the field to the right of the selection/input field.

You can also make your own entries for the date/time formatting in the field, as long as you use a correct syntax in line with the date and time setting in result lists.

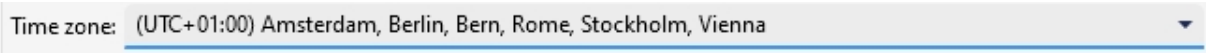
Changing the formatting will then have an effect in two places:

- The display of date fields in masks
- The display of date/time fields in result lists where the **Date/time display** is set to **Standard**.



The new setting **Standard** is also the new default for date/time fields in result lists, which applies to new installations of HELiOS.

The desired **Time zone** (in which date/time display takes place) can be selected here via a combined list if required.



The default time zone is the local time set in your operating system.

If the set time zone supports a distinction between winter and summer time, this is automatically taken into account. (I.e. in Germany UTC+1 (winter time) would automatically change to UTC+2 (summer time) on the corresponding date).

Performance

Especially in the area of the product structure tree and when generating HDE reports using many multilingual attributes, a significant performance increase of the HELiOS Database could be achieved with Service Pack 2.

Service Pack 1 2023 (V 2801)

Optimised search result lists

In order to increase performance, only objects for which the logged-in user has corresponding read rights are displayed in result lists of HELiOS objects (articles, documents, projects, folders, pipe classes and user-defined objects).

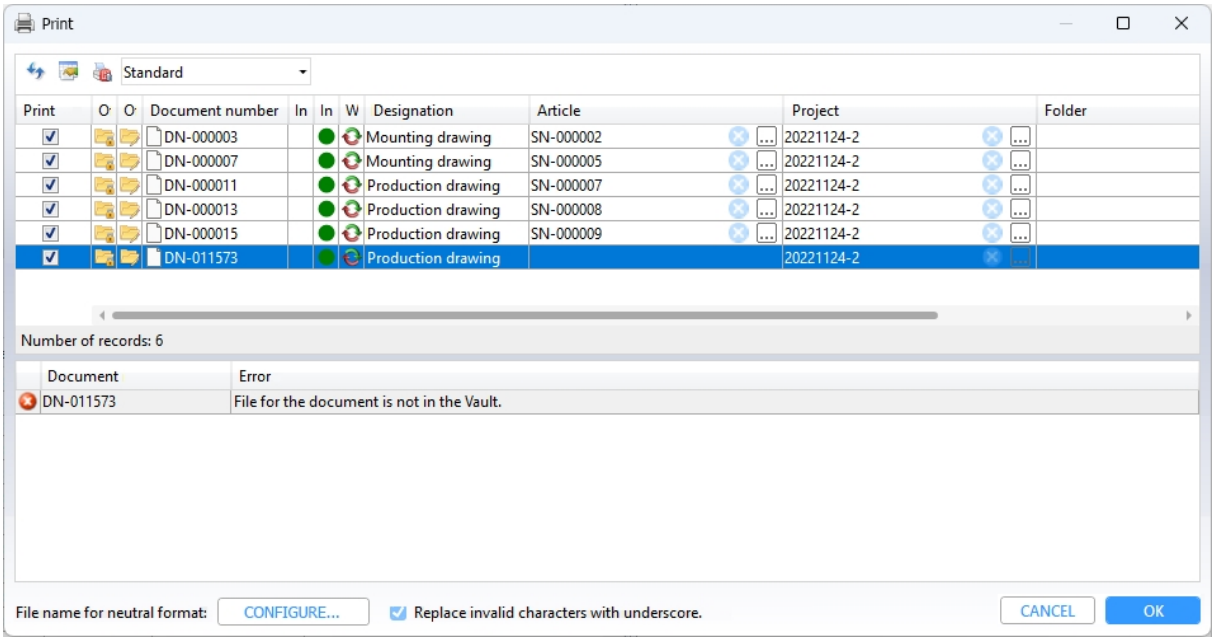
The sorting of result lists has been accelerated many times over due to a smaller number of internal queries, which also improves the creation of result lists in particular, in which case the database has a somewhat higher latency.

Earlier database options, with which the display of objects without access rights could be set, are thus no longer applicable.

Errors during printing or export

Errors that prevent documents from being printed or exported are displayed in the corresponding dialogue below the document result list when you click **OK**.

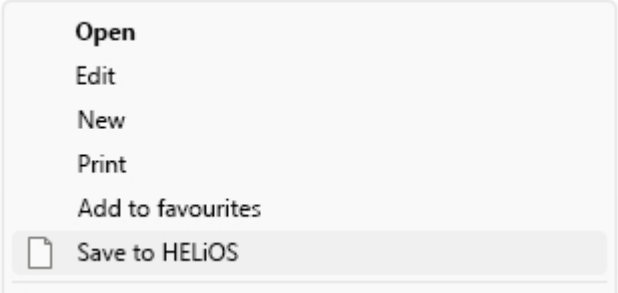
Double-clicking on an error line also marks the corresponding document in the result list above.



Example: If the dialogue returns the error description "File for document is not in the Vault", it is recommended to load the document once into the workspace.

Context menu entry for saving to HELiOS

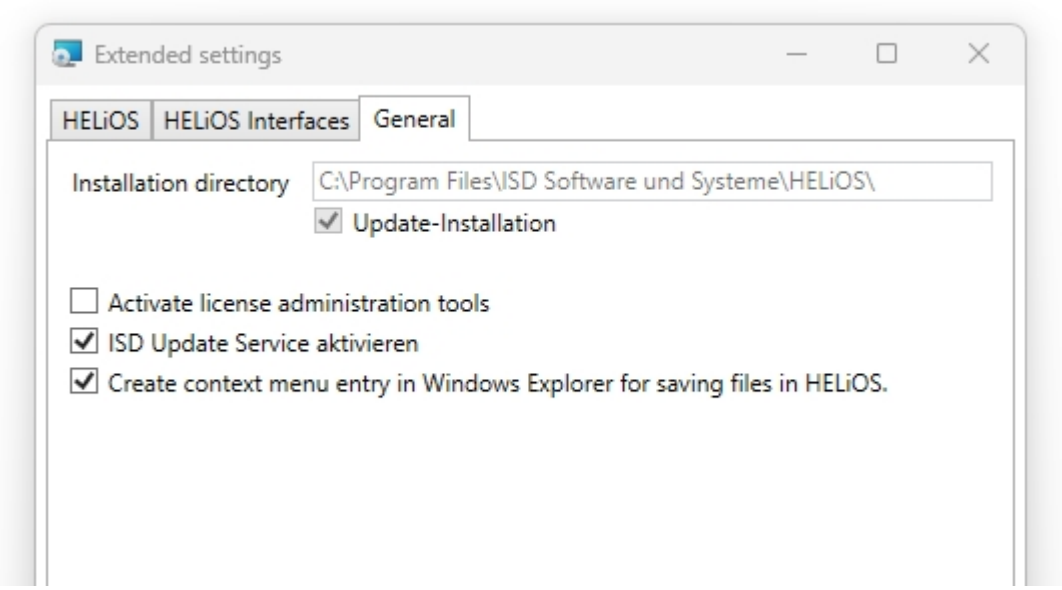
After an installation of HELiOS, the Windows context menu has been extended by default by the menu item **Save to HELiOS**.



This makes it possible to save documents in the HELiOS database in connection with **HELiOSScan** in this simple way if the automatic transfer did not take place (e.g. by cancelling the document dialogue or due to an error).

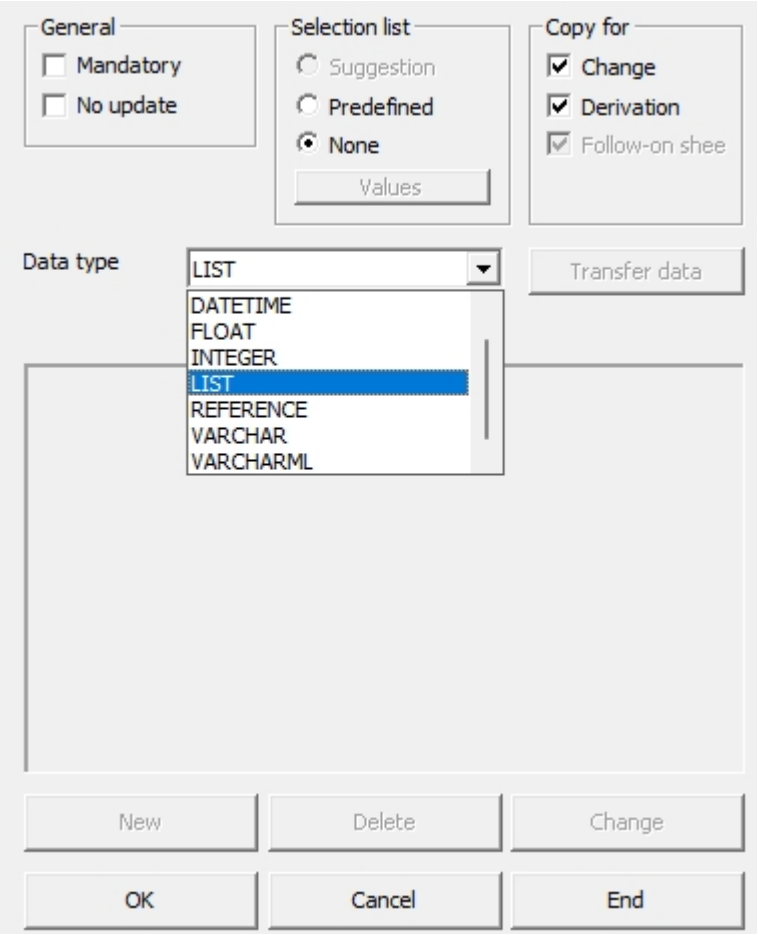
Under certain circumstances this feature is not desired. Therefore, as of version 2801 of HELiOS, it is no longer automatically set up during a new installation. If the context menu entry is to be created in the process, you can activate the checkbox **Create context menu entry in Windows Explorer for saving files in HELiOS** in the **General** tab of the **Extended settings** installation step dialogue.

For update installations of older versions, the option is active and can be deactivated at the same point if desired.



New data type for List attributes

The new data type "LIST" is available for list attributes in the **Description** of attributes with the help of the Attribute Editor.



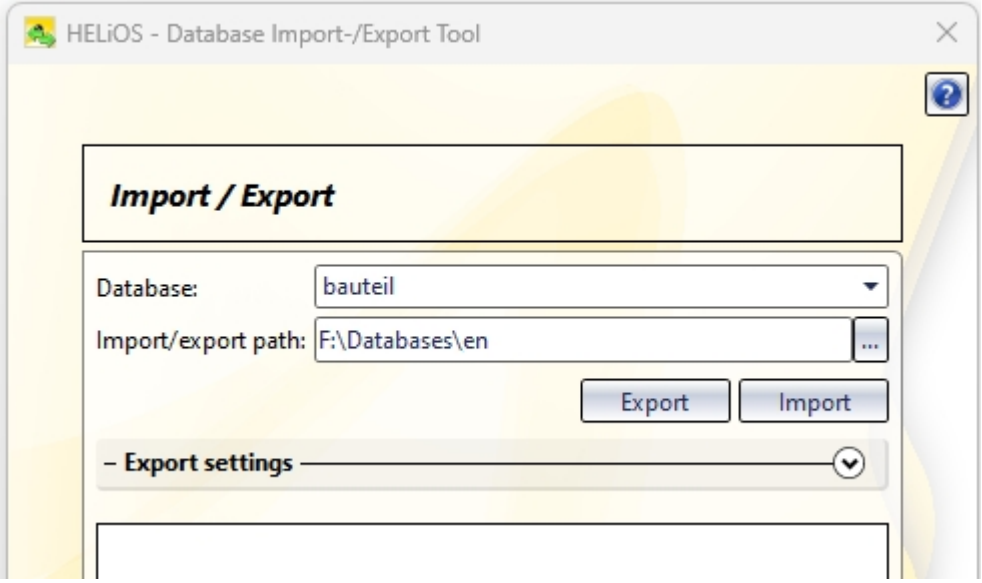
Under **Selection list** you can differentiate between a **Predefined** list and a free list (Option: **None**).

The separate area in the attribute editor, in which list attributes were displayed separately in earlier versions, is no longer necessary.

Installation DVD: Changed path of the default database

When importing the HELiOS standard database with the **HELiOS Database Creator**, please note that its path on the installation DVD has changed.

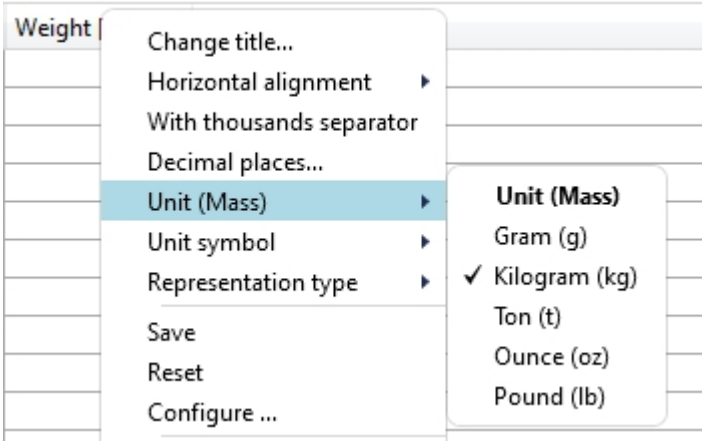
As of HELiOS 2023 Service Pack 1, you will find the database there at ...\Databases\en.



Major Release 2023 (V 2800)

Units in the context menu

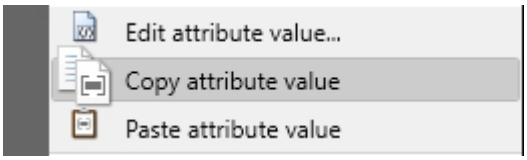
When right-clicking in result list columns of (float) attributes with unit category, the context menu shows you the corresponding unit, with designation and abbreviation.



Copy and paste attribute values with unit category

The behavior of copying and pasting attributes with unit category using the Copy attribute value and Paste attribute value context menu functions has been further improved.

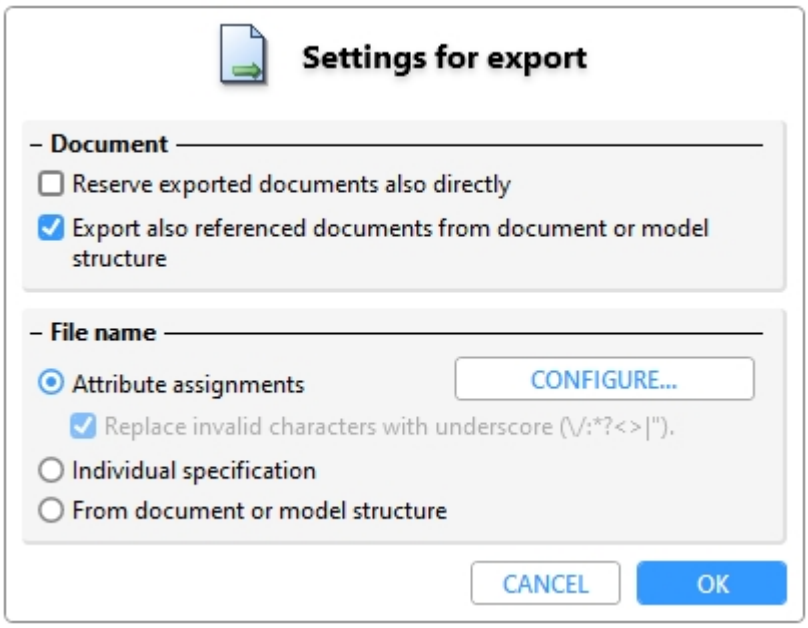
Please read the corresponding notes.



Export and import files

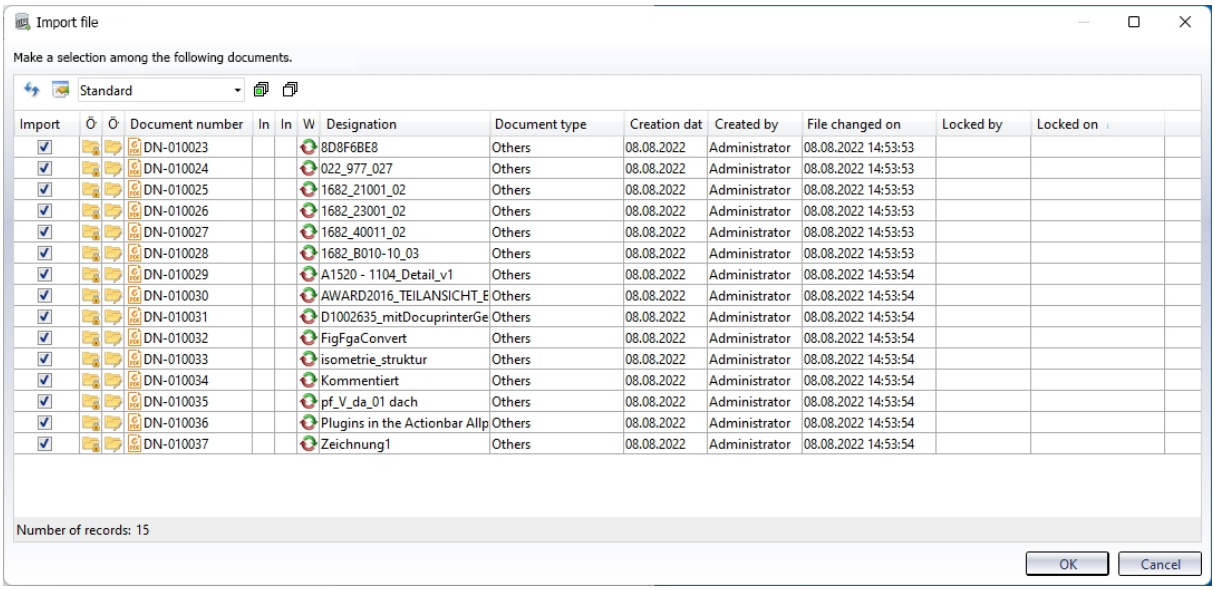
Both the export of HELiOS documents and the import of files to HELiOS have been revised.

In the export dialogue you have e.g. extended setting and attribute assignment options for the generation of file names.



In the extended export dialogue you can de-/reselect linked objects and their contexts if necessary.

The file import, in turn, has been adapted to the common use case of re-importing exported HELiOS documents. The simple selection of an XML file belonging to the export offers all documents in a clearly arranged import dialogue.



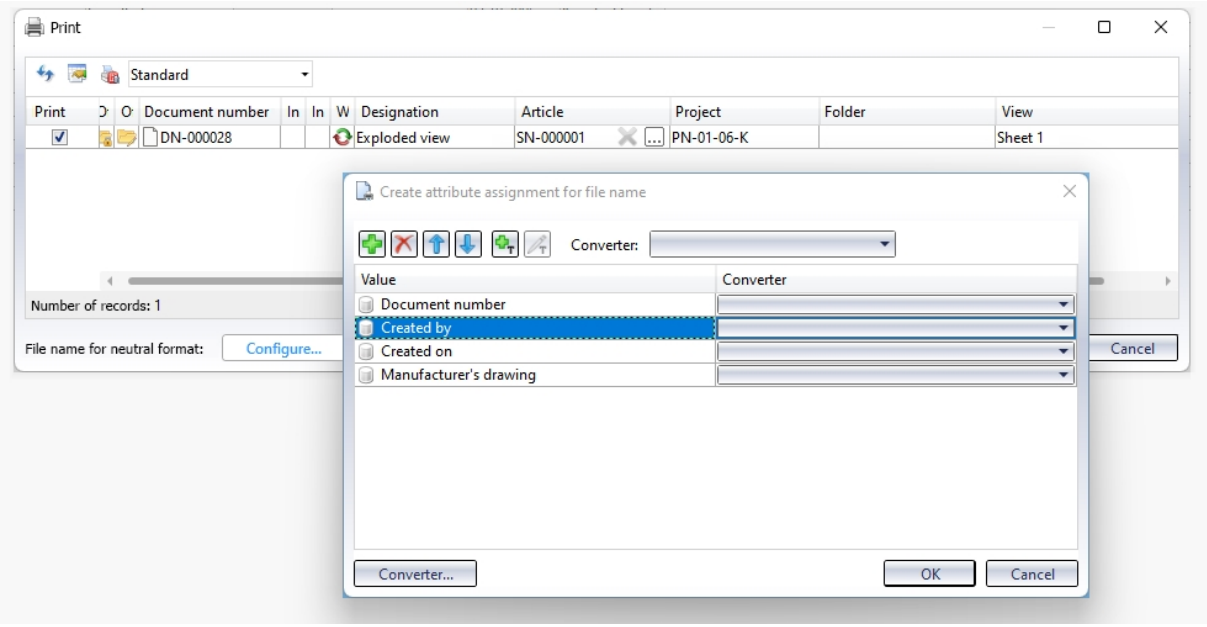
Import	Document number	In	In	W	Designation	Document type	Creation dat	Created by	File changed on	Locked by	Locked on
☑	DN-010023				8D8F6BE8	Others	08.08.2022	Administrator	08.08.2022 14:53:53		
☑	DN-010024				022_977_027	Others	08.08.2022	Administrator	08.08.2022 14:53:53		
☑	DN-010025				1682_21001_02	Others	08.08.2022	Administrator	08.08.2022 14:53:53		
☑	DN-010026				1682_23001_02	Others	08.08.2022	Administrator	08.08.2022 14:53:53		
☑	DN-010027				1682_40011_02	Others	08.08.2022	Administrator	08.08.2022 14:53:53		
☑	DN-010028				1682_B010-10_03	Others	08.08.2022	Administrator	08.08.2022 14:53:53		
☑	DN-010029				A1520 - 1104_Detail_v1	Others	08.08.2022	Administrator	08.08.2022 14:53:54		
☑	DN-010030				AWARD2016_TEILANSICHT_E	Others	08.08.2022	Administrator	08.08.2022 14:53:54		
☑	DN-010031				D1002635_mitDocuprinterGe	Others	08.08.2022	Administrator	08.08.2022 14:53:54		
☑	DN-010032				FigFgaConvert	Others	08.08.2022	Administrator	08.08.2022 14:53:54		
☑	DN-010033				isometrie_struktur	Others	08.08.2022	Administrator	08.08.2022 14:53:54		
☑	DN-010034				Kommentiert	Others	08.08.2022	Administrator	08.08.2022 14:53:54		
☑	DN-010035				pf_V_da_01 dach	Others	08.08.2022	Administrator	08.08.2022 14:53:54		
☑	DN-010036				Plugins in the Actionbar Allp	Others	08.08.2022	Administrator	08.08.2022 14:53:54		
☑	DN-010037				Zeichnung1	Others	08.08.2022	Administrator	08.08.2022 14:53:54		

The previously necessary editing of the system file hel_fileimport.ini is no longer necessary. However, configurations of older HELiOS versions stored there are still taken into account during the export.

Please also note the changes that result from this at **HELiOS Options > Import/Export**.

Print documents: File name configuration

As with the new options for attribute mappings when generating file names for exporting files, you can also configure the output file name by means of an attribute mapping when printing neutral formats in files (e.g. when outputting PDFs via the HELiOS Spooler).

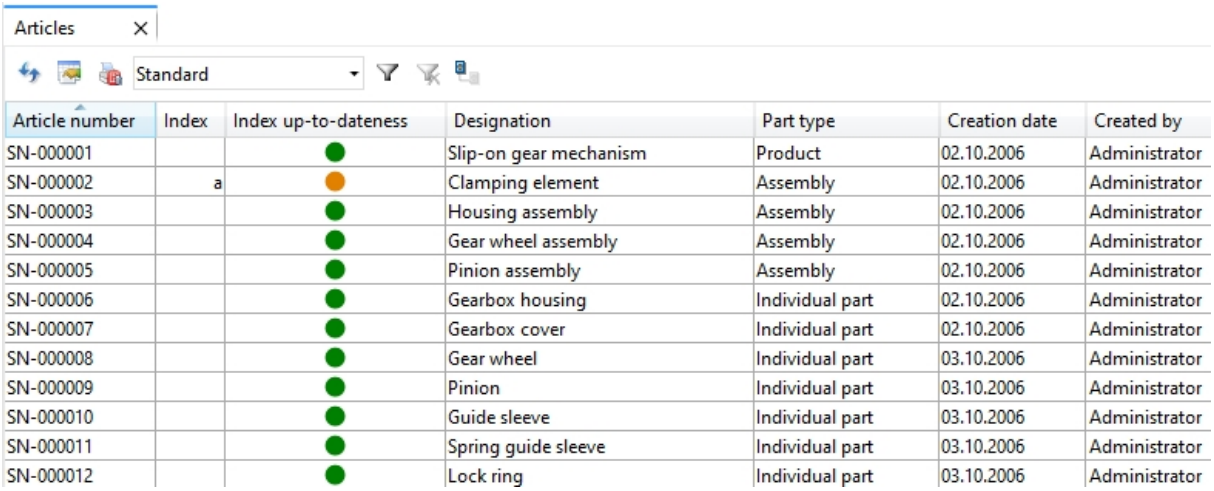


The contents of the hel_fileprint .ini system file previously used for this purpose are copied to the attribute mappings when the file is first called. After that, the old ini file is no longer needed, but it is not automatically deleted from the system.

Index up-to-dateness

In result lists, the column **Index up-to-dateness** indicates by a symbol whether it is the most recent version index of a HELiOS object.

Most recent versions of objects are indicated by a green dot, old versions by an orange dot.



Article number	Index	Index up-to-dateness	Designation	Part type	Creation date	Created by
SN-000001		●	Slip-on gear mechanism	Product	02.10.2006	Administrator
SN-000002	a	●	Clamping element	Assembly	02.10.2006	Administrator
SN-000003		●	Housing assembly	Assembly	02.10.2006	Administrator
SN-000004		●	Gear wheel assembly	Assembly	02.10.2006	Administrator
SN-000005		●	Pinion assembly	Assembly	02.10.2006	Administrator
SN-000006		●	Gearbox housing	Individual part	02.10.2006	Administrator
SN-000007		●	Gearbox cover	Individual part	02.10.2006	Administrator
SN-000008		●	Gear wheel	Individual part	03.10.2006	Administrator
SN-000009		●	Pinion	Individual part	03.10.2006	Administrator
SN-000010		●	Guide sleeve	Individual part	03.10.2006	Administrator
SN-000011		●	Spring guide sleeve	Individual part	03.10.2006	Administrator
SN-000012		●	Lock ring	Individual part	03.10.2006	Administrator

HELiOS Options: Default configuration for product structure output

From HELiOS 2023 and/or HiCAD 2023 onwards, a new version of the **ISD Report Manager** will be introduced.

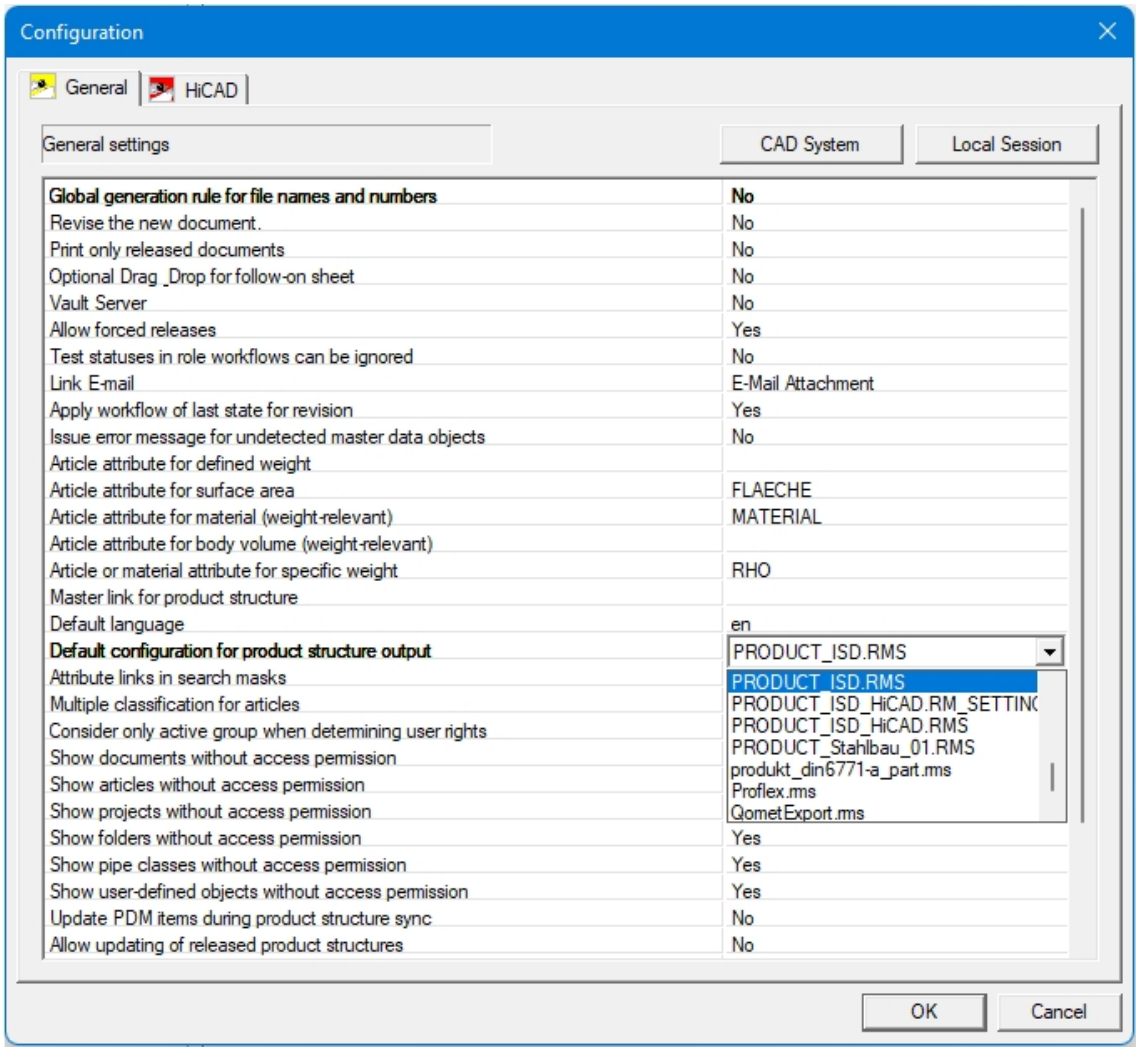
The old version of the Report Manager will initially remain installed in the system in parallel.

You can control which Report Manager version is used for the product structure output in the **Database** Options. In the pull-down menu of the **Default configuration for product structure output** option, you can select which RMS or RM_SETTINGS file is to be used for the output of the product structure with the Report Manager.

In the default delivery database (i.e. for new installations of HELiOS 2023) the template PRODUCT_ISD.RM_SETTINGS is set. This new template file calls the new ISD Report Manager during data transfer.

However, existing settings of existing databases will not be overwritten by an update installation. A parts list template (of file type .RMS) previously defined as default configuration is retained and still uses the old Report Manager.

In this situation, it is recommended to switch to the new Report Manager by using a template file of the type .RM_SETTINGS.



Please note:

For printing result lists, the new ISD Report Manager is already used.

Detailed information on the new ISD Report Manager can be found here.

Mark-up and Redlining

Note that when working with the extended markup and redlining functionality of HiCAD and HELiOS, the redlining tool HiRedLine is only installed by a combined HiCAD/HELiOS installation. In a standalone installation of HELiOS Desktop the tool is not available.

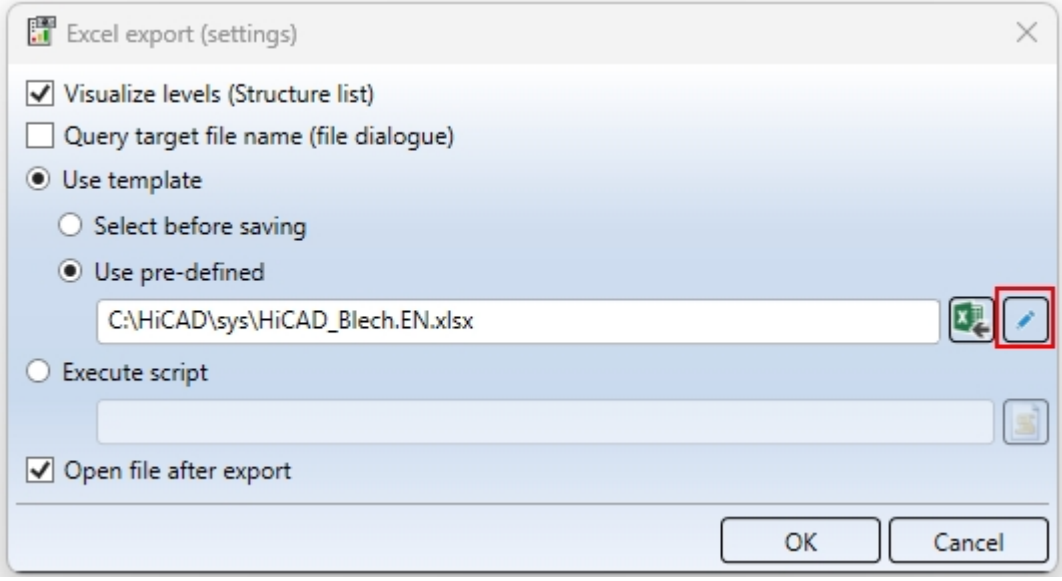
A failed call will return a corresponding system message.

Bill of Materials / Report Manager

Service Pack 2 2023 (V 2802)

Edit template for export to Excel

If you want to use a specific template for the export to Excel, activate the option **Use template**. Then determine which template you want to use. To modify the selected template in Excel, select **Edit template**.



Extended Steel Engineering lists

The attribute **Coating** ($15) has been included in the Steel Engineering lists of the Excel BOM (Hicad_ Stahlbau.xlsx). If you have parts coated in HiCAD, the coating is transferred to Excel when exporting the bills of materials.

Structure list

Drawing No.	ZN-232423423	Customer	ISD Software und Systeme GmbH
Order No.	AN-651266723	Created by	Maya Mustermann
Order text		Created on	09.02.2022
Designation	BN-654235456		

Level	Item	Total qty.	Designation	Length (mm)	Width (mm)	Material	Type	Naming	Coating	rface area (i	Weight (kg)	Total weigh
4		2	U 300	1550	100	S235JR	U-profiles		Paint RAL 5001	2,94	69,40	138,79
4		2	U 300	4145	100	S235JR	U-profiles		Paint RAL 5001	7,81	185,05	370,11
4		2	U 300	249	100	S235JR	U-profiles		Paint RAL 5001	0,35	7,74	15,48
4		2	L EN 10056-1-50x50x5	1485		S235JR	L-profiles		Paint RAL 5001	0,60	5,60	11,20
3		1	P30-30-1000x305	1000	305	S235JR	Gratings				13,00	13,00
3		1	P30-30-1000x305	1000	305	S235JR	Gratings				13,00	13,00

Dimension attributes Length and Width

In the Excel BOM for Steel Engineering (Hicad_ Stahlbau.xlsx), as of HiCAD 2023 SP2, the column for the Length attribute is before the column for the Width attribute.

Extended bar list

When outputting the bar list in Excel, the used length is now output in addition to the waste. For this purpose, the BOM template for Steel Engineering has been extended by the placeholders

- `!BarWaste!` - Waste
- `!BarUsed!` - Length used

Bar list

Drawing No.	ZN-232423423	Customer	ISD Software und Systeme GmbH
Order No.	AN-651266723	Created by	Maya Mustermann
Order text		Created on	09.02.2022
Designation	BN-654235456		

FI 20x5, S235JR | **12 x 6000 mm** | **Waste: 9003 mm (12,5 %)** | **Length used: 62997 mm**

Item	Number	Length (mm)	Cut (Web)	Cut (Flange)	Naming	Coating
4x	0 (856)	0 (856)	0 (856)	0 (856)	0 (856)	0 (856)	819
	4	856				
	4	856				
	4	856				
	4	856				
	4	856				
	4	856				
	0 (856)	0 (856)	0 (856)	0 (856)	0 (850)	0 (850)	830
	1	856				
	1	856				
	1	856				
	1	856				
	1	850		32.9°		
	1	850		32.9°		
6x	0 (849)	0 (849)	0 (849)	0 (849)	0 (849)	0 (849)	0 (849)
	6	849		32.9°		
	6	849		32.9°		
	6	849		32.9°		
	6	849		32.9°		
	6	849		32.9°		
	6	849		32.9°		
	6	849		32.9°		
	0 (849)	0 (847)	4276			
	1	849		32.9°		
	1	847				

Templates for DSTV and ERPlus

The new ISD Report Manager 2023 is now used for the BOM exports to Qomet and Proflex.

Major Release 2023 (V 2800)

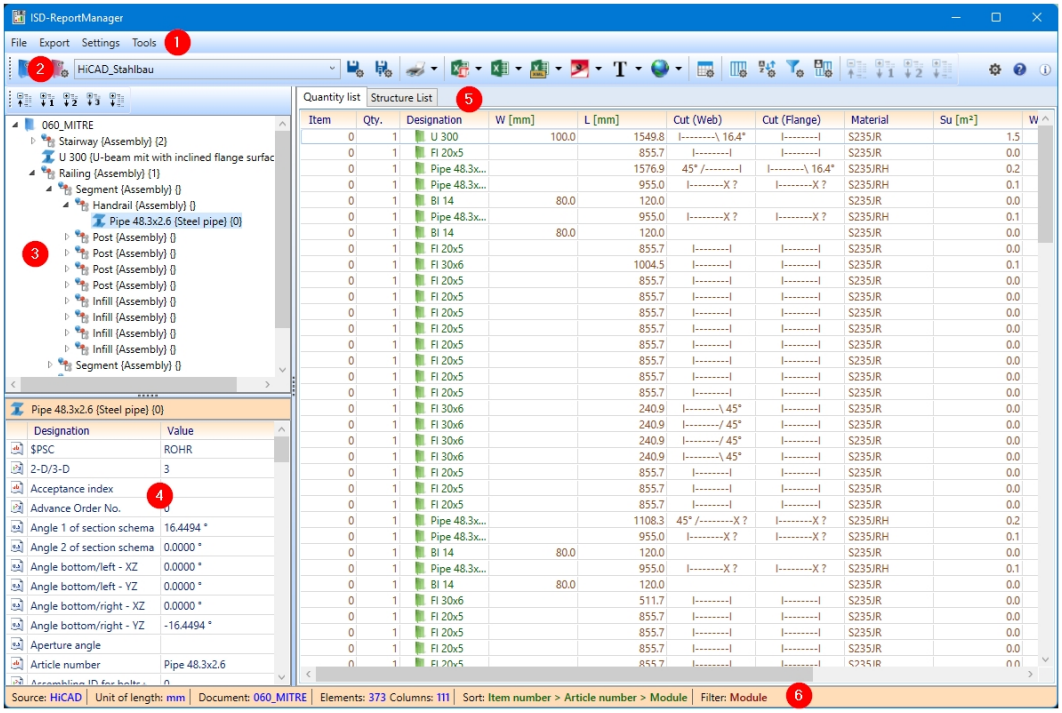
New ISD Report Manager

As of Version 2023, there is a completely new, comfortable ISD Report Manager. This ISD Report Manager works with RM_SETTINGS instead of RMS files. To convert your old RMS files, the function **Convert RMS file to RM_SETTINGS** is available at **Tools**.

Further advantages:

- By importing / exporting the settings in the dialogues, you can save multiple combinations of settings and conveniently reuse them.
- The headers and footers are now configured using a graphical interface.
- A Sort sequence can be defined for all available columns.
- You can now dynamically search for attributes in the Column settings.

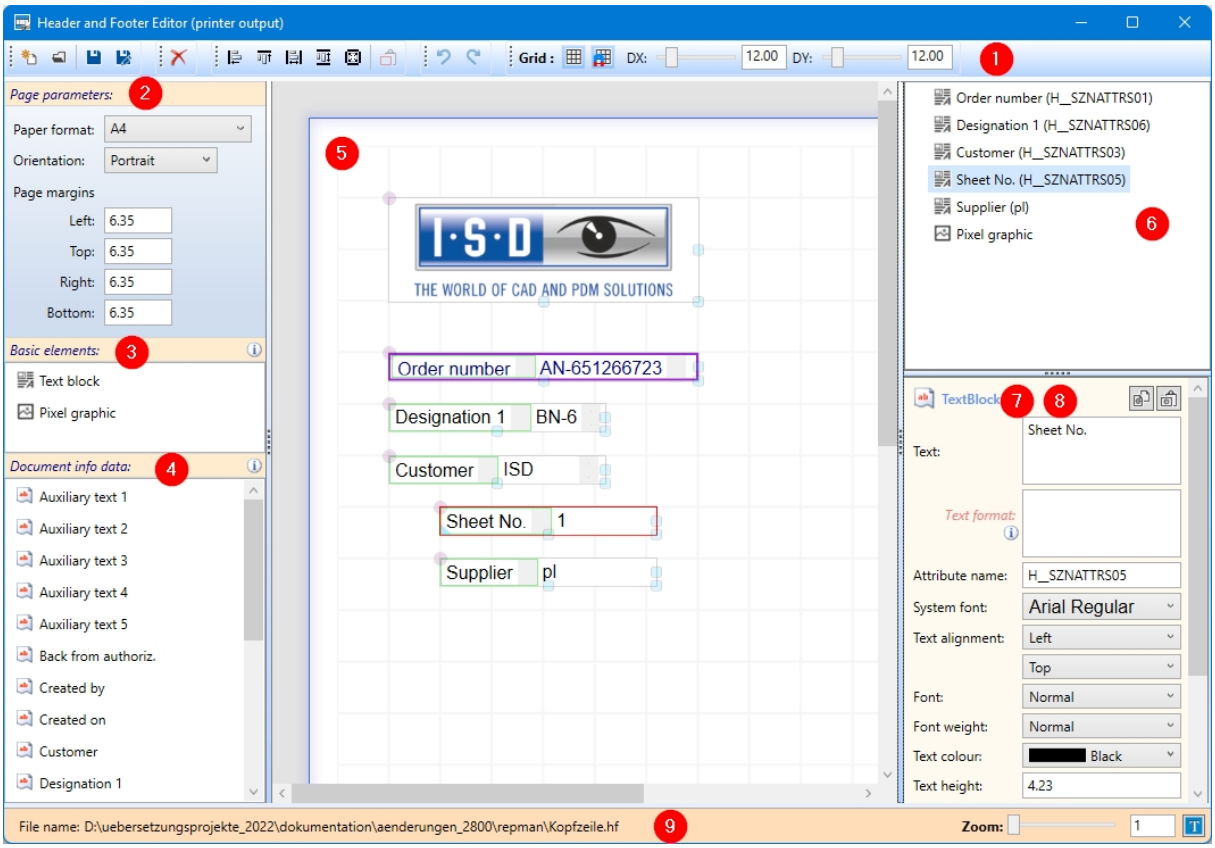
User interface



1. Menu bar
2. The toolbar has been retained and extended to include the settings.
3. Overview of all BOM-relevant parts in the utilized assembly.
4. Overview of all attributes of the part clicked on above.
5. The unit is automatically displayed in the Quantity list and Structure list and is configurable.
6. Status bar.

Export

A graphical interface is now available for configuring header and footer templates.



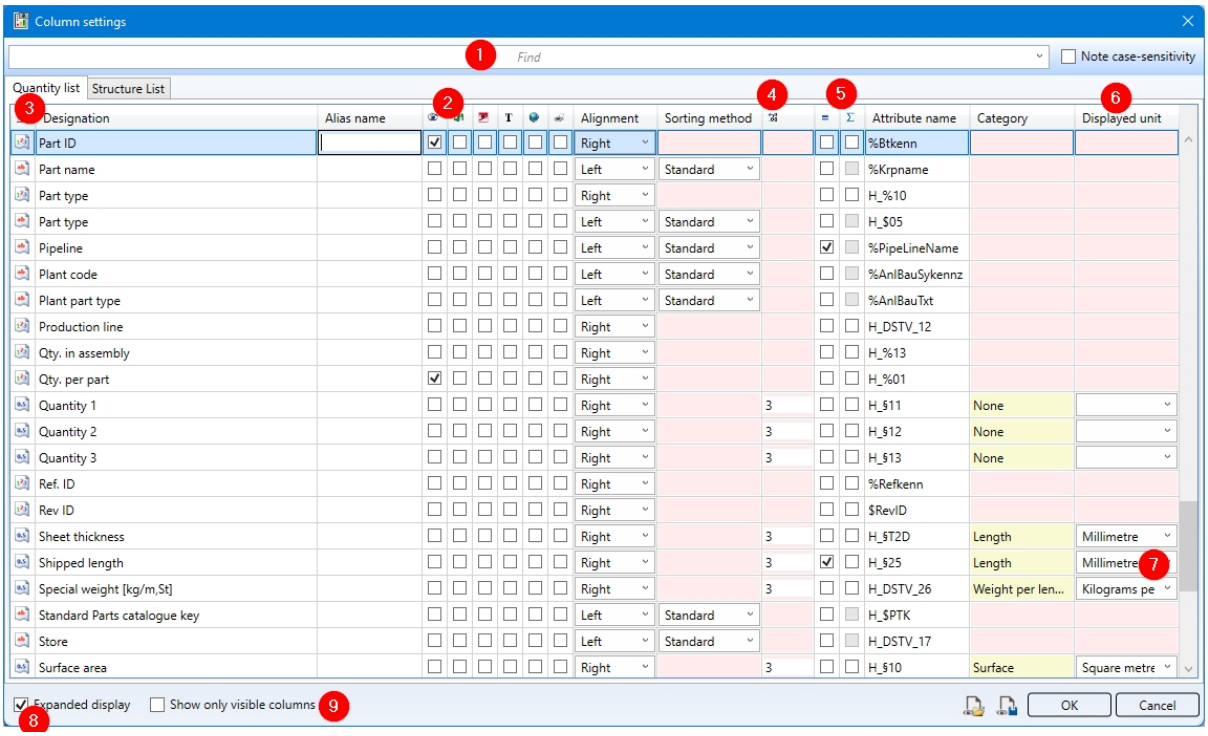
1. Function bar
2. Page parameters
3. Basic elements
4. Document info data, list of usable attributes
5. Workspace
6. Built-in elements
7. Parameters for the element Text format
8. Parameters for the element Pixel graphics
9. Status bar

The Excel export has also been revised::

- There is now a separate function for the Excel export with template or script. An Excel template or a C# script can be used here.
- There is now the function **Create Excel document (xlsx, xls)**, which transfers the displayed lists directly to Excel without formatting. The data can be formatted with a Visual Basic Script (.vbs).
- In addition, there is a function that writes the displayed cells to an Excel XML file. The data can be formatted with a Visual Basic Script (.vbs).

Column properties

Through the new **Column settings** dialogue, you can now dynamically search for attributes.



1. Dynamic search
2. Column type
3. Visibility of columns and export of columns
4. Decimal places.
5. Identical part search and column sum
6. Category and Displayed unit are for attributes of type Integer or Double
7. The Displayed unit depends on the category. For length, units such as metres, inches, feet, etc. are available. The unit is then displayed in the column in square brackets.
8. Attribute name, Category and Displayed unit are visible when the **Extended display** is active.
9. Displays only the columns marked as visible with the **Visualisation** checkbox activated.

Head data setting

The ISD Report Manager now offers the function **Head data settings**. This allows you to set attributes centrally and comfortably for all possible exports.

Sort sequence

The sort order can now be set for all available columns. In the old Report Manager, only four columns could be set. In addition, for the column type String, one of four sorting methods can be selected for the respective column.

- Standard: Sort alphabetically
- Numerical: Sort by numbers
- Logical: As in Windows File Explorer
- Date/Time: By date and/or time

Filter settings

The data displayed in the list window of the Quantity list and Structure list can be filtered, i.e. only the rows of the list that meet certain criteria - specified in the filter definition - are displayed.

For example, you can

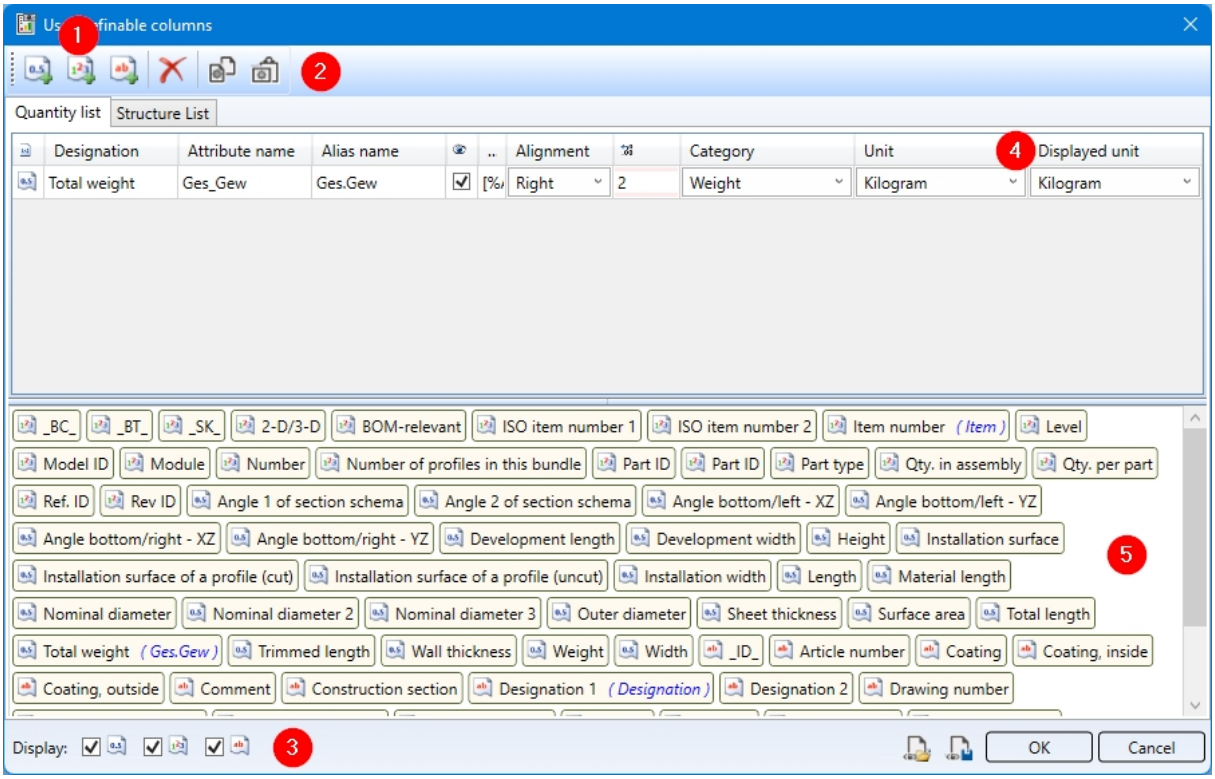
- output only parts with a certain item number or parts whose item number lies within a certain range,
- transfer filters via import/export and save them,

  apply the respective JavaScript methods to the data types,
- create regular expressions and
- get direct feedback on errors in the expression.

Filter criteria are defined column by column. Only the rows in the list that meet all the filter criteria specified for the columns are then output. Columns for which a filter has been defined are marked with .

User-definable columns

With the function **User-definable columns** you have the possibility to add additional - freely definable - columns to the BOM or to change already defined columns.



1. Create new columns by type
2. Copy and paste a column. If none is active, all are copied.
3. Filter which column types are to be displayed in the pool
4. Category and Displayed unit can be defined directly
5. Overview of all available columns, filterable by type

When editing a formula, the column name clicked on is entered there as an attribute.

Excel-BOM with pipe length list

For the new ISD Report Manager (from HiCAD 2023), an XML configuration file adapted for Plant Engineering is available with the name **HiCAD_Anlagenbau.rm_settings** . This configuration file allows the sensible creation of bills of materials (BOMs) of mixed model drawings and also contains a pipe lengths list.

The file is located in the HiCAD sys directory and facilitates in particular the use of a new BOM template for Excel export. This new template HiCAD_Anlagenbau.2800.0.xlsx can also be found in the sys directory of your installation (or as **HiCAD_Anlagenbau.EN.2800.0.xlsx** in the sub-folder **bomtemplates**).

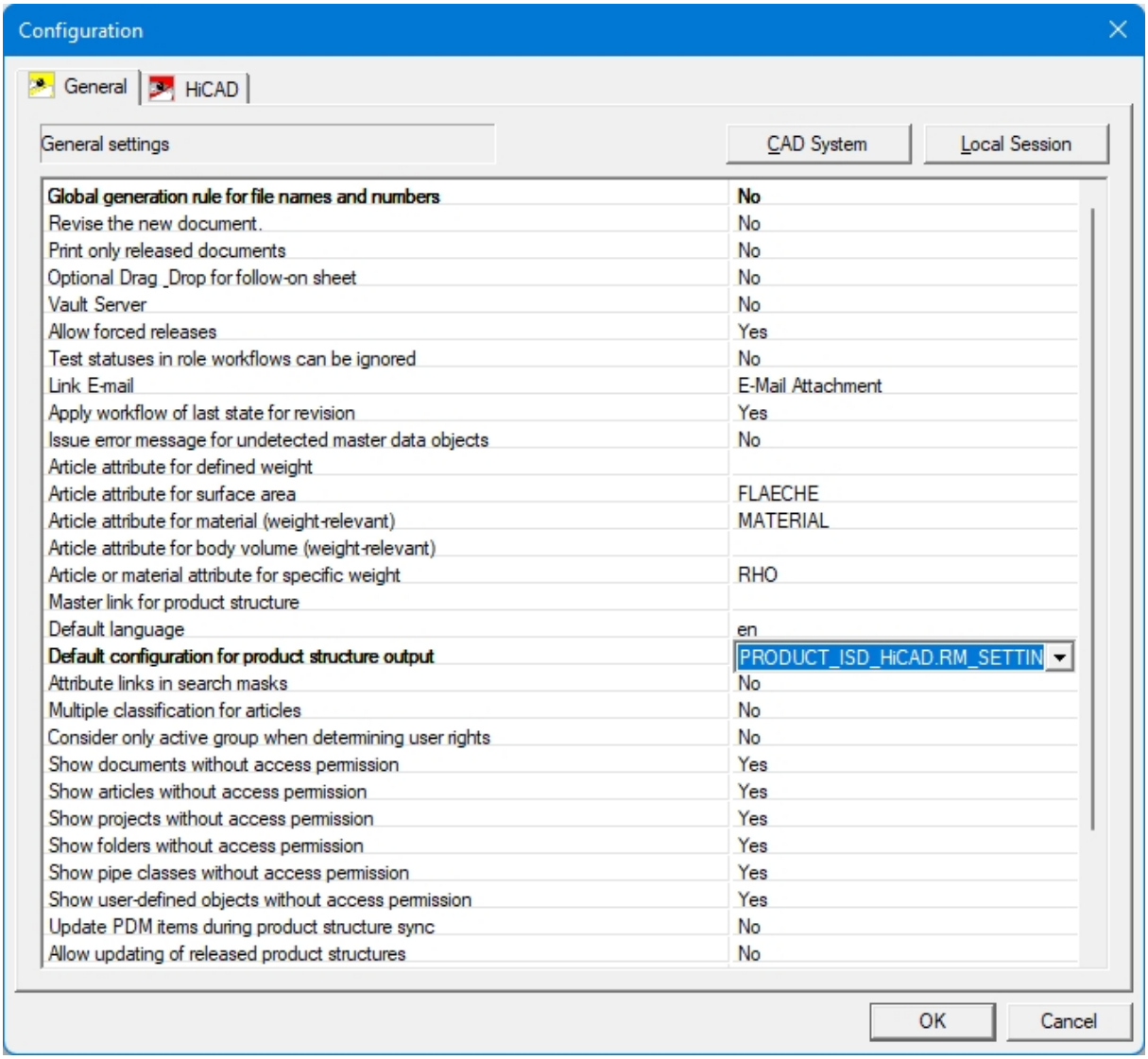
Adapted configuration files for the new ISD Report Manager are also available for the Plant Engineering functions at **Plant Engineering > Evaluation**.

HELiOS Options: Switching between previous and new ISD Report Manager

HELiOS 2023 or HiCAD 2023 introduces a new version of the Report Manager.

When creating the BOM in HiCAD and HELiOS, you decide by selecting the configuration whether the previous Report Manager or the new ISD Report Manager opens.

- The old Report Manager uses files with the file extension **RMS** for the configuration.
- The new ISD Report Manager from version 2023 onwards uses XML configuration files with the file name extension **RM_SETTINGS**



You determine the configuration in the HELiOS Options at **Database** and then **Default configuration for product structure output**.

New BOM templates for HELiOS

There are new configuration files for creating bills of materials from the HELiOS product structure. The files (*.RM_SETTINGS) are located in the SYS directory of HiCAD.

- PRODUCT_ISD.RM_SETTINGS
- PRODUCT_ISD_HiCAD.RM_SETTINGS

HELiOS Spooler

Service Pack 2 2023 (V 2802)

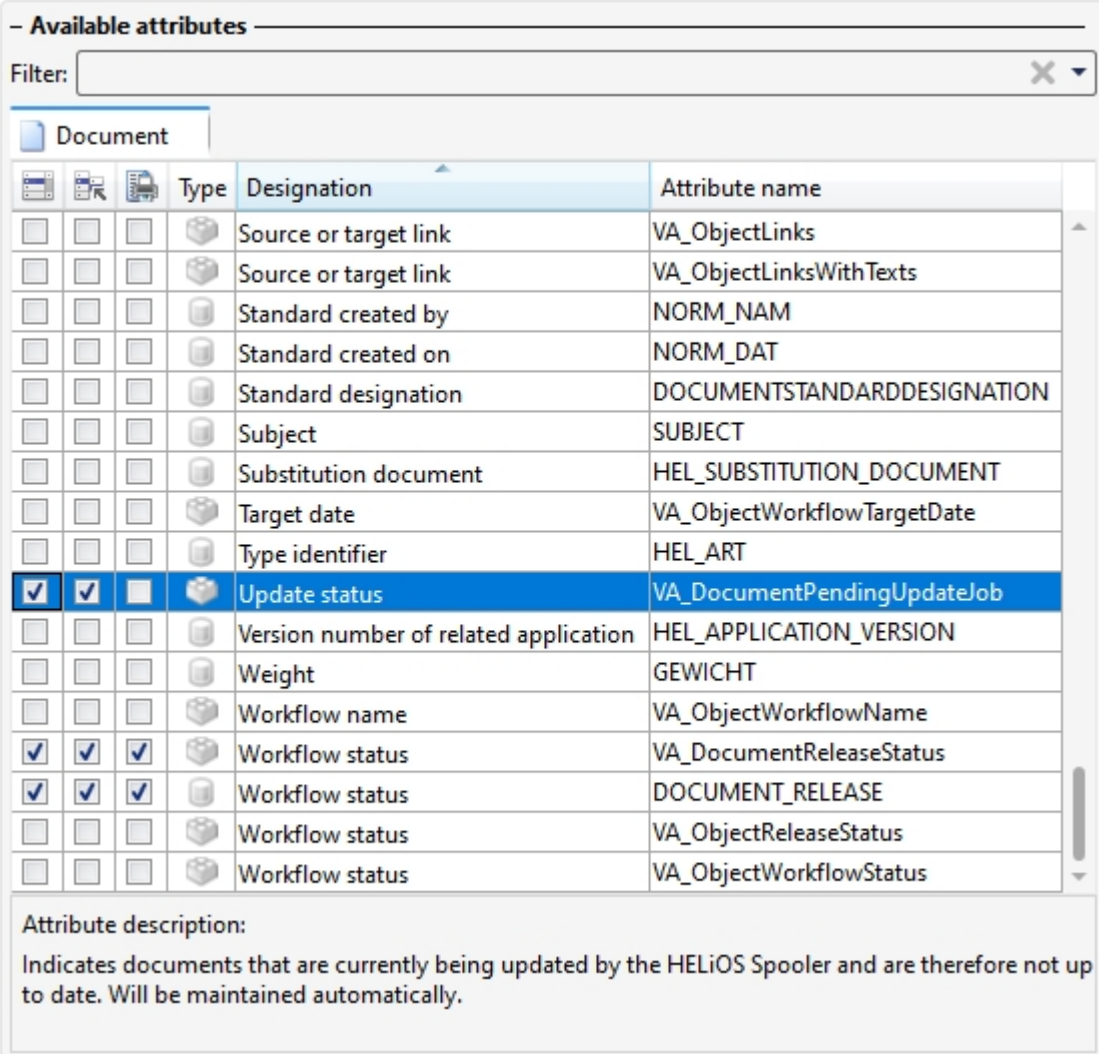
Performance

With Service Pack 2 a further performance increase of the HELiOS Spooler could be achieved.

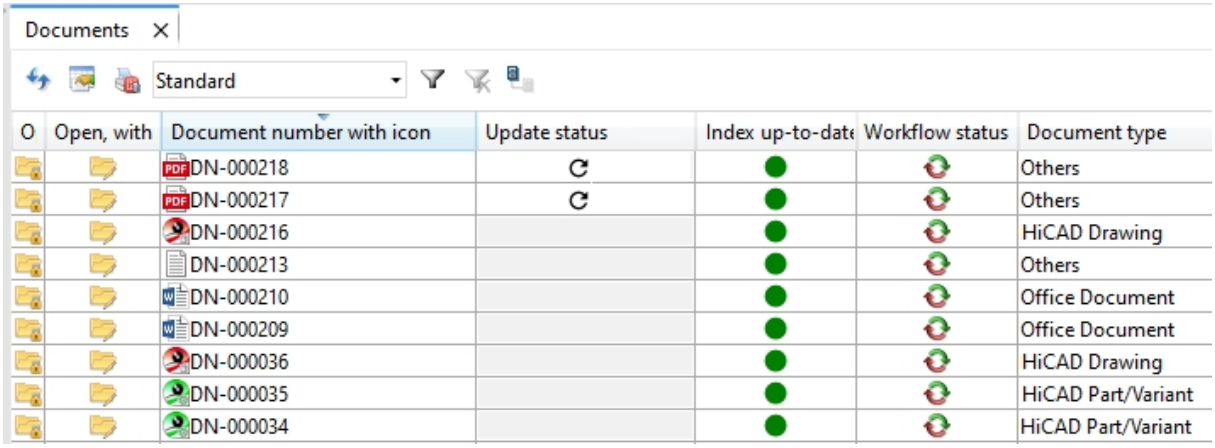
The optimization becomes especially obvious when performing and displaying a very high number of active print/-convert jobs.

Result list attribute to mark documents being updated by Spooler

In the user interface configuration of HELiOS document result list you will find the new attribute **Update status** (VA_DocumentPendingUpdateJob).



If the column has been added to result lists, it marks there, if applicable, documents that are currently being updated by the Spooler and therefore cannot be currently displayed with a symbol.



PDF printing via Windows

As of Service Pack 2, the Spooler supports the possibility to use the Windows functionality **Microsoft Print to PDF** for printing to PDF.

This output may be faster and an installation and setup of the ISD FilePrinter PS may not be necessary.

Service Pack 1 2023 (V 2801)

Performance

By loading the document structure directly on the Spooler Server instead of from the Client side, a significant increase in performance could be achieved during printing/conversion.

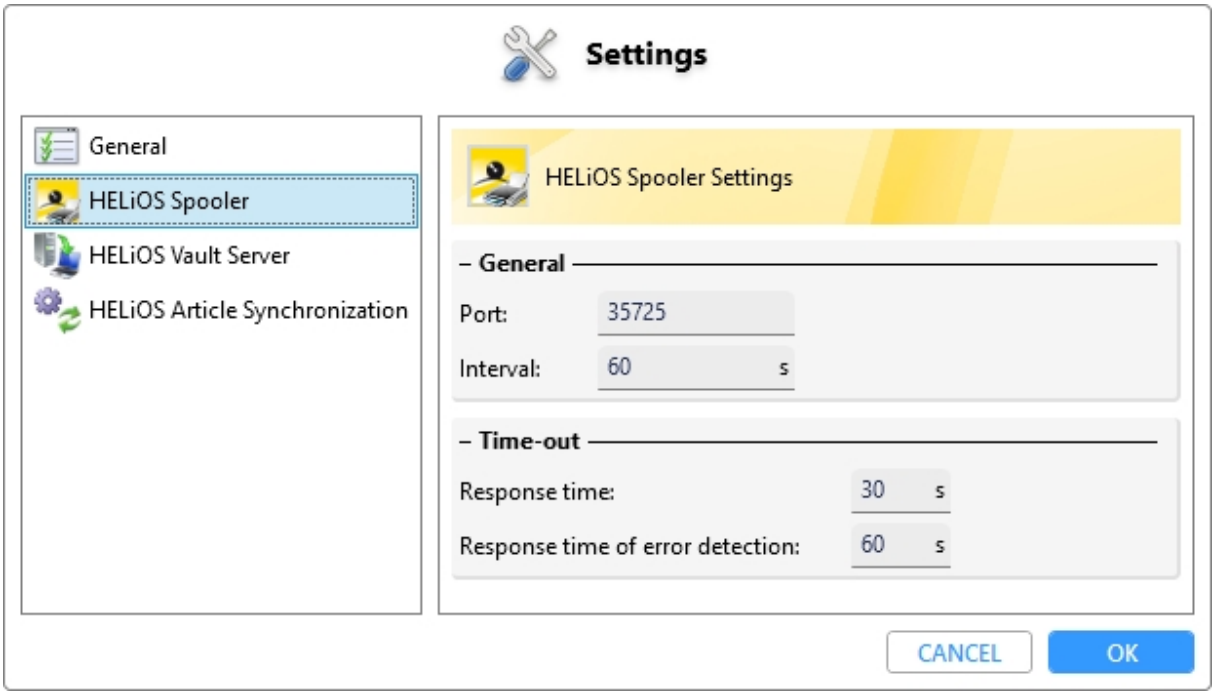
Major Release 2023 (V 2800)

Support of RM3/ RMA files discontinued

Note that printing/converting RM3/ RMA files is no longer supported by the HELiOS Spooler as of Version 2800.

Server Monitor

With the help of the **Server Monitor** tool, you can monitor the runnability of HELiOS server applications such as the **Vault Server** or the **HELiOS Spooler** and make any necessary adjustments in the event of problems.



HELiOS Task Starter

The new **HELiOS Task Starter** tool can be used for automatically re-starting the HELiOS Spooler after it has been closed, or after a possible crash.

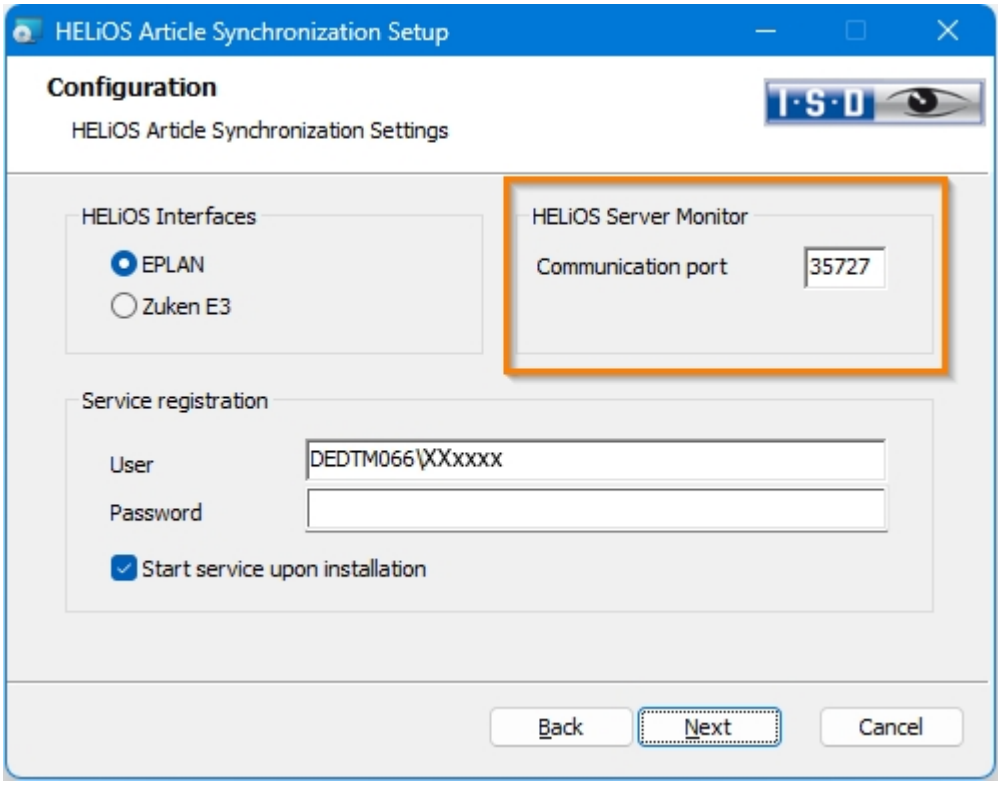
HELiOS Vault Server

Service Pack 2 2023 (V 2802)

Server Monitor: Communication port for article synchronisation during installation

The **Port** via which the Server Monitor communicates with **HELiOS Article Synchronisation** with ECAD/CAE applications such as EPLAN or Zuken E3 can be defined not only in the settings of the Server Monitor tool, but also during the installation process of the part synchronisation.

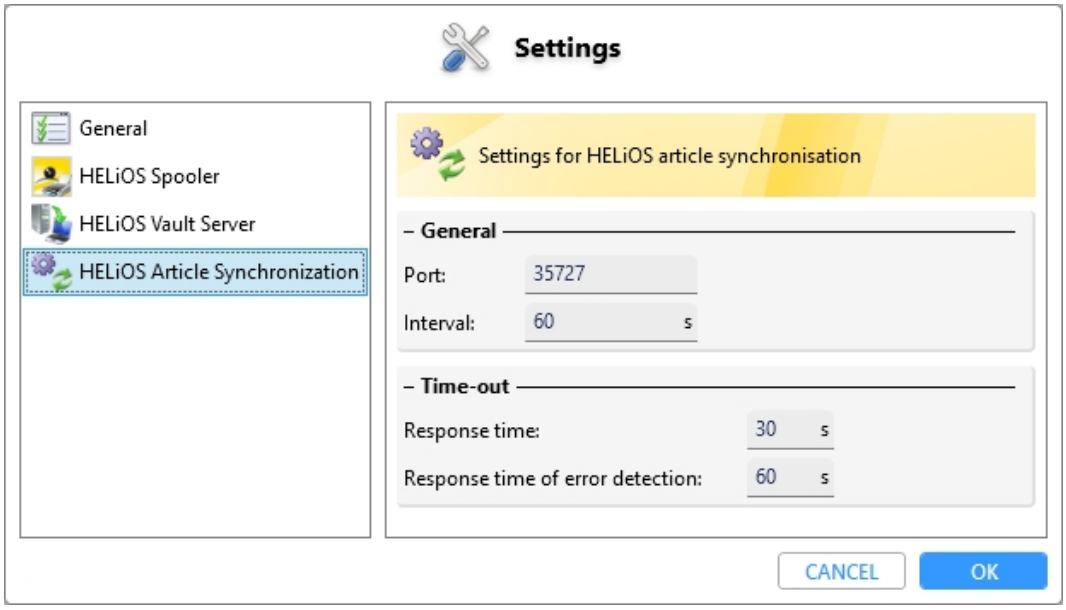
The default port number is still 35727.

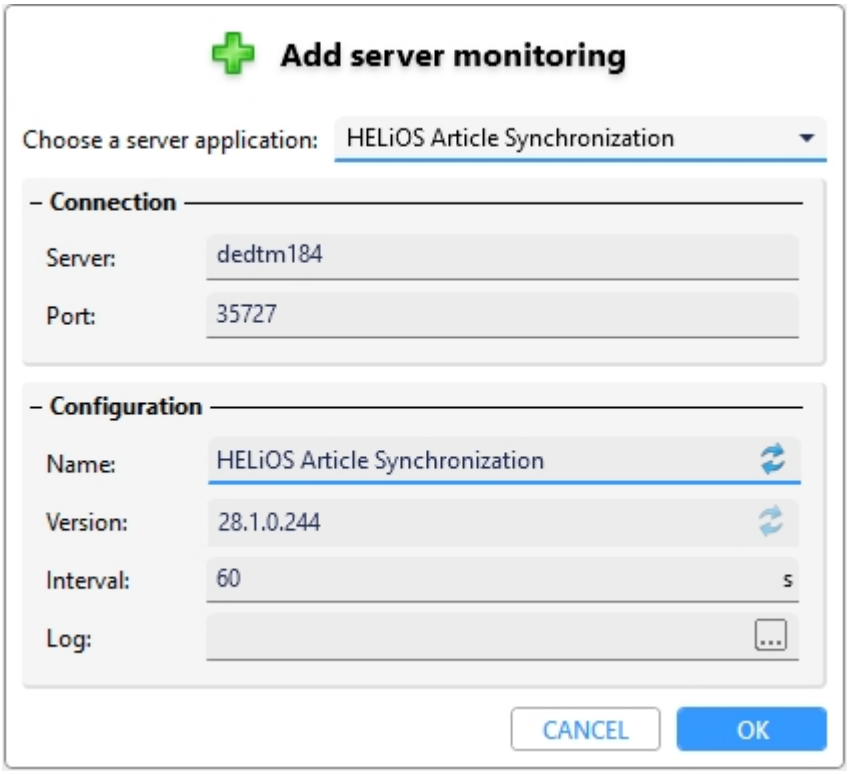


Service Pack 1 2023 (V 2801)

Server Monitor: HELiOS Article Synchronization

The **Server Monitor** has been extended to include the option of monitoring the HELiOS Article Synchronization service for HELiOS interfaces to ECAD/CAE applications such as EPLAN or Zuken E3.

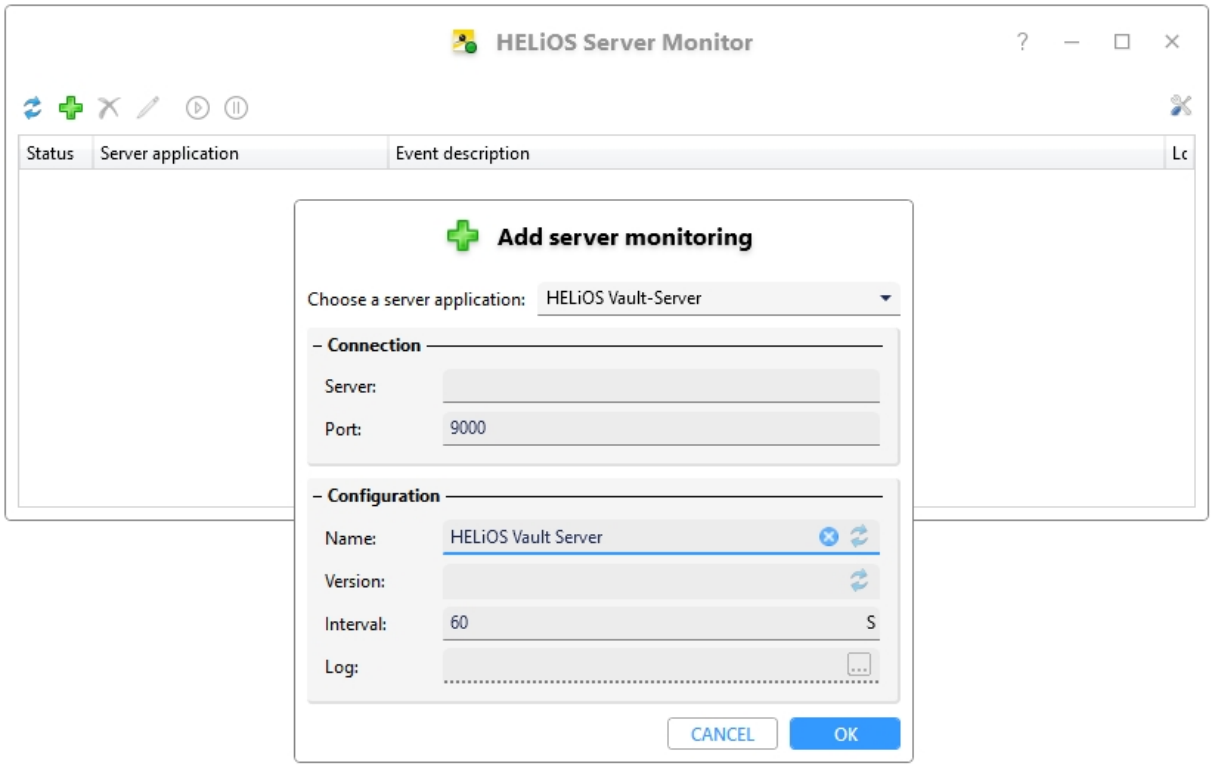




Major Release 2023 (V 2800)

Server Monitor

With the help of the **Server Monitor** tool, you can monitor the runnability of HELiOS server applications such as the **Vault Server** or the **HELiOS Spooler** and make any necessary adjustments in the event of problems.

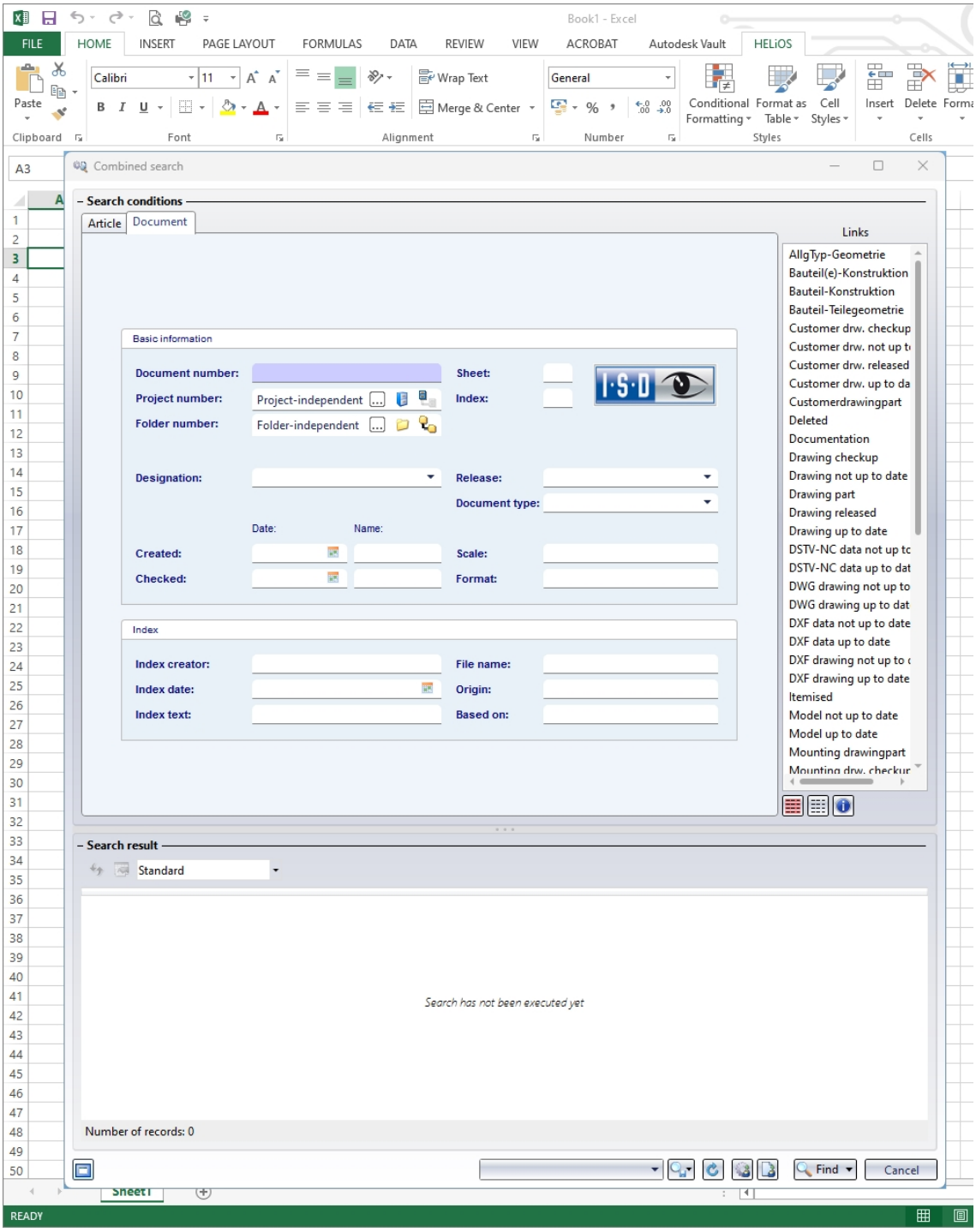


HELiOS MS Office Interface

Service Pack 2 (V. 2802)

Combined search

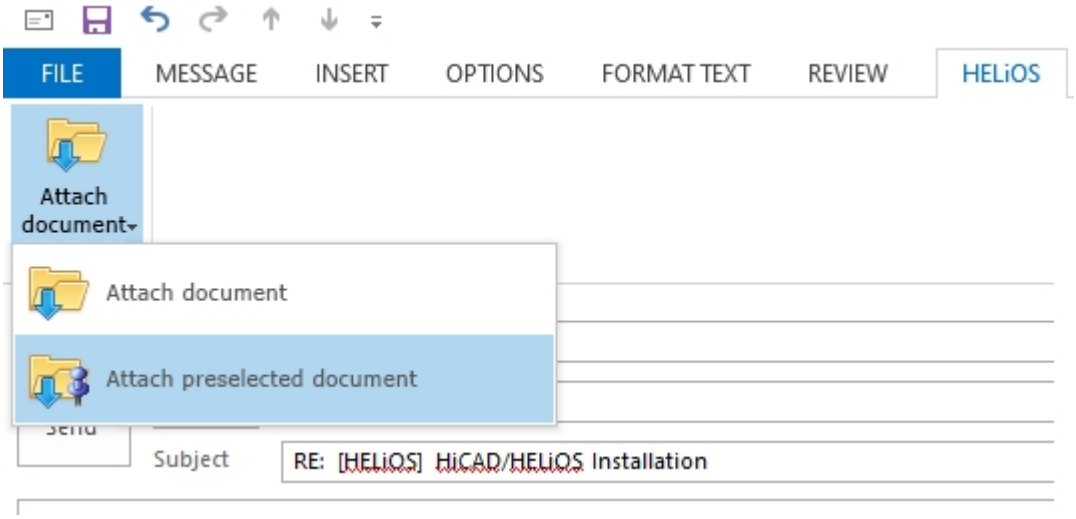
Calling the functions **Open + Edit** or **Open, read-only** from the menu of a HELiOS-Office interface and **Attach document** in an active Outlook mail opens the **Combined search** mask search of HELiOS as of Service Pack 2.


Book1 - Excel
FILE
HOME
INSERT
PAGE LAYOUT
FORMULAS
DATA
REVIEW
VIEW
ACROBAT
Autodesk Vault
HELiOS
Combined search
Search conditions
Article
Document
Links
Basic information
Document number:
Project number:
Project-independent
Folder number:
Folder-independent
Sheet:
Index:
Designation:
Release:
Document type:
Date:
Name:
Created:
Checked:
Scale:
Format:
Index
Index creator:
Index date:
Index text:
File name:
Origin:
Based on:
AllgTyp-Geometrie
Bauteil(e)-Konstruktion
Bauteil-Konstruktion
Bauteil-Teilegeometrie
Customer drw. checkup
Customer drw. released
Customer drw. up to da
Customerdrawingpart
Deleted
Documentation
Drawing checkup
Drawing not up to date
Drawing part
Drawing released
Drawing up to date
DSTV-NC data up to dat
DWG drawing up to dat
DXF data not up to date
DXF data up to date
DXF drawing up to date
Itemised
Model not up to date
Model up to date
Mounting drawingpart
Search result
Standard
Search has not been executed yet
Number of records: 0
Find
Cancel
READY

Major Release 2023 (V 2800)

Outlook: Attach preselected document

In addition to inserting E-mail attachments via the HELiOS function **Find document**, you can also attach a document that you have previously marked for this purpose via the context menu function **Preselect document**, e.g. in a result list of the HELiOS Desktop, by simply clicking on **Attach preselected document** in the context of an active E-mail.

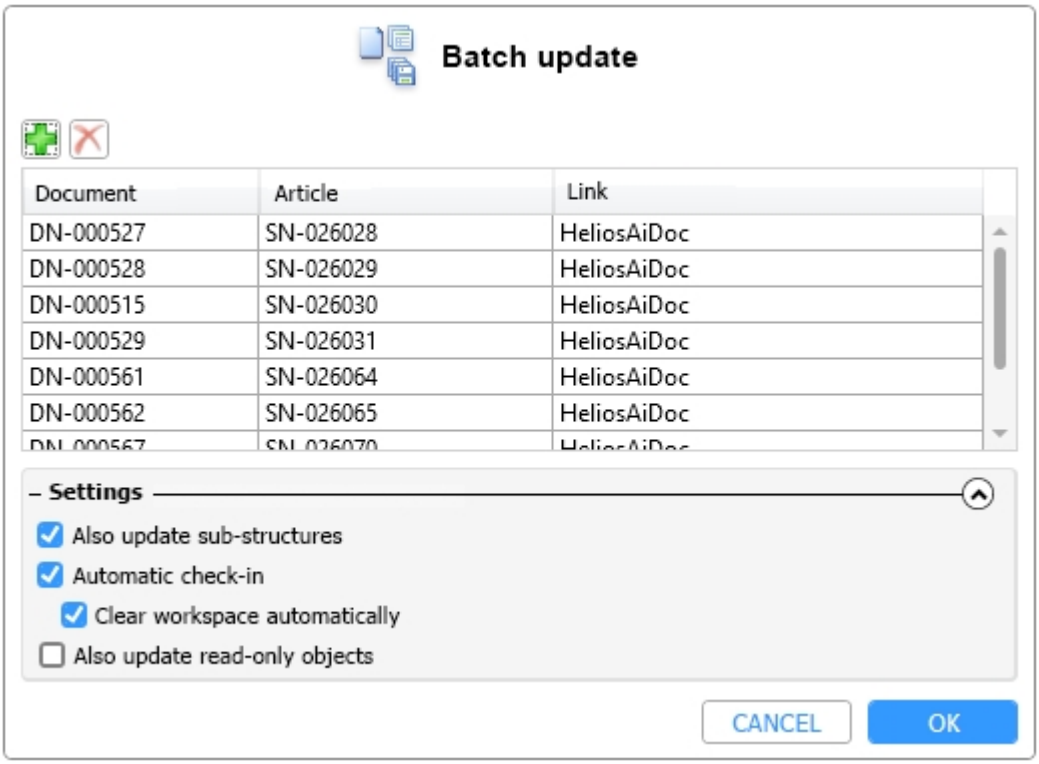


HELiOS CAD/CAE Integrations

Service Pack 2 2023 (V 2802)

Extension of Batch update function

The functionality of the **Batch update**, which is available to you in the HELiOS-Autodesk Inventor interface, has been extended.



If the option **Clear workspace automatically** is activated, you may be asked whether you also want to remove documents from the workspace that have local changes, which may be documents indirectly affected by the update, even if they were not selected for batch update.

If you answer **Yes** to the query, all documents without an edit pen are symbol removed from the workspace. If you select **No**, all documents without an editing pen and without local changes are removed from the workspace.

Please note that discarding local changes to files may cause problems later on.

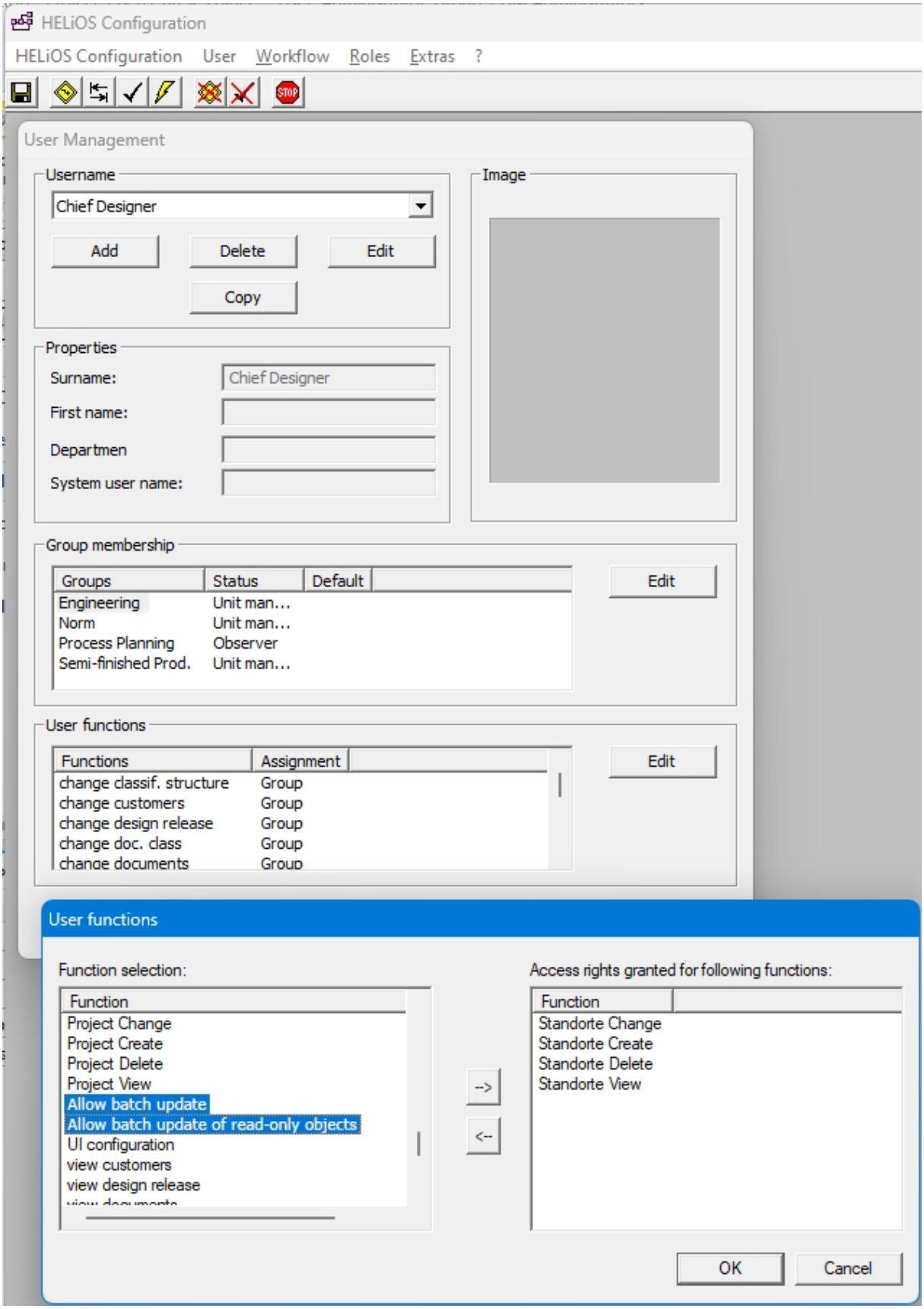
Generally, it is also possible to update HELiOS objects (parts and assemblies) that are actually read-only automatically via a new option.

The updating of read-only objects is reserved for users who have the corresponding authorisation, which can be set individually in the user administration (see below).

Please also note the new feature that the batch update can generally only be carried out by users who have the corresponding authorisation. If this is not the case, you will receive an error message when you call it up:

In the **User Management** window of the administration tool **EDBSETUP** you can add the following functions for user names under **User functions > Edit**:

- **Allow batch update** (the corresponding user can call the batch update)
- **Allow batch update of read-only objects** (the user receives the authorisation to also change read-only parts via the batch update)


HELiOS Configuration
HELiOS Configuration User Workflow Roles Extras ?
User Management
Username
Chief Designer
Add
Delete
Edit
Copy
Image
Properties
Surname:
Chief Designer
First name:
Departmen
System user name:
Group membership
Groups
Status
Default
Engineering
Unit man...
Norm
Unit man...
Process Planning
Observer
Semi-finished Prod.
Unit man...
Edit
User functions
Functions
Assignment
change classif. structure
Group
change customers
Group
change design release
Group
change doc. class
Group
Edit
User functions
Function selection:
Function
Project Change
Project Create
Project Delete
Project View
Allow batch update
Allow batch update of read-only objects
UI configuration
view customers
view design release
-->
<--
Access rights granted for following functions:
Function
Standorte Change
Standorte Create
Standorte Delete
Standorte View
OK
Cancel

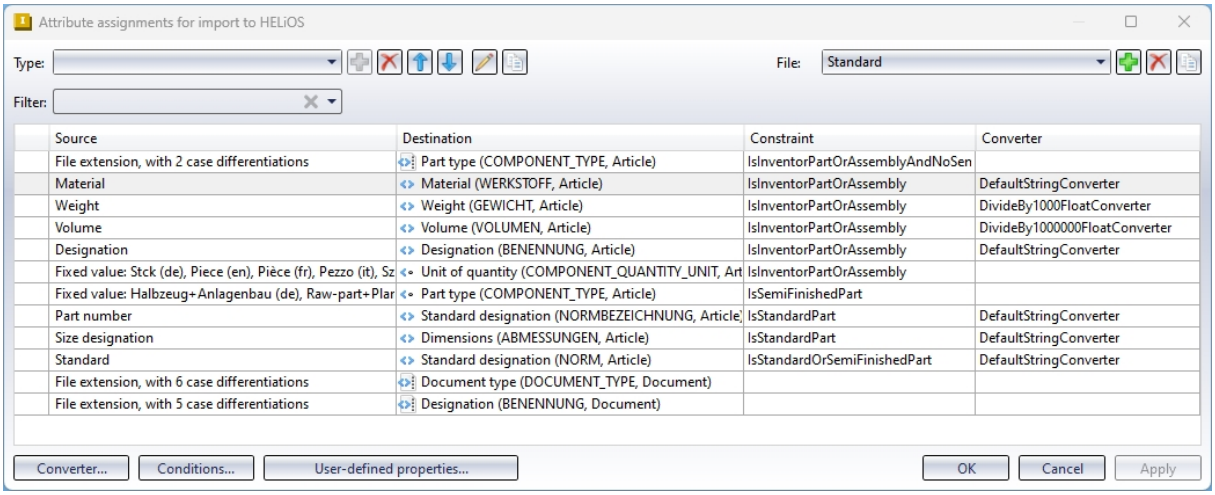
Attribute assignments for user-defined object types

As part of the multi-CAD integrations and for the EPLAN parts synchronization service, attribute assignment has been extended to include support for reference objects (e.g. material or customer).

This means that user-defined reference attributes can be automatically assigned to a HELiOS object (part, project, etc.).

Among other things, this also enables the joint use of such reference objects with different CAD systems.

In the window **Attribute assignments for import to HELiOS**, you will find a new assignment between source attribute **Material** and target attribute **Material** by default.



Source	Destination	Constraint	Converter
File extension, with 2 case differentiations	Part type (COMPONENT_TYPE, Article)	IsInventorPartOrAssemblyAndNoSen	
Material	Material (WERKSTOFF, Article)	IsInventorPartOrAssembly	DefaultStringConverter
Weight	Weight (GEWICHT, Article)	IsInventorPartOrAssembly	DivideBy1000FloatConverter
Volume	Volume (VOLUMEN, Article)	IsInventorPartOrAssembly	DivideBy1000000FloatConverter
Designation	Designation (BENENNUNG, Article)	IsInventorPartOrAssembly	DefaultStringConverter
Fixed value: Stck (de), Piece (en), Pièce (fr), Pezzo (it), Sz	Unit of quantity (COMPONENT_QUANTITY_UNIT, Art	IsInventorPartOrAssembly	
Fixed value: Halbzeug+Anlagenbau (de), Raw-part+Plar	Part type (COMPONENT_TYPE, Article)	IsSemiFinishedPart	
Part number	Standard designation (NORMBEZEICHNUNG, Article	IsStandardPart	DefaultStringConverter
Size designation	Dimensions (ABMESSUNGEN, Article)	IsStandardPart	DefaultStringConverter
Standard	Standard designation (NORM, Article)	IsStandardOrSemiFinishedPart	DefaultStringConverter
File extension, with 6 case differentiations	Document type (DOCUMENT_TYPE, Document)		
File extension, with 5 case differentiations	Designation (BENENNUNG, Document)		

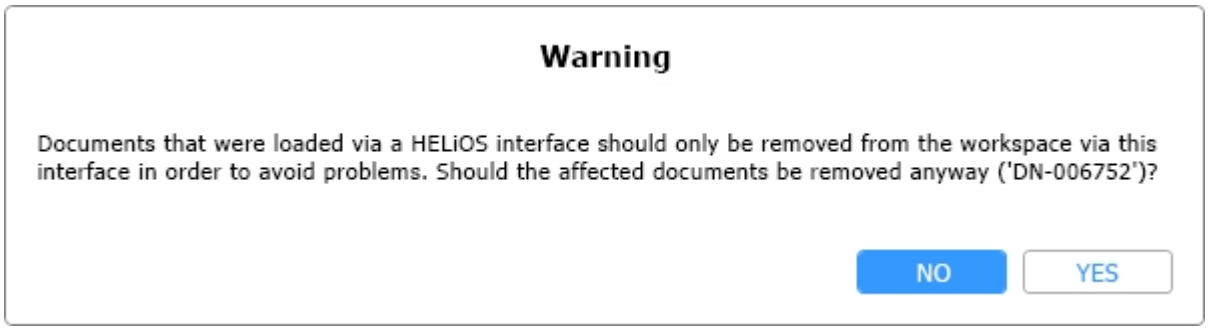
You can define further assignments of user-defined object types according to your own requirements. Source attributes are compared with the target attribute of a user-defined object type to determine the relevant object.

The assignments are taken into account both when creating a new object and when updating an object.

Workspace

In the **Workspace** dialogue window, which is available in HELiOS Desktop and in linked applications, it was not possible in the past to remove documents in an application other than the one in which they were created. This means, for example, that you could not remove multi-CAD or Office files in the HELiOS Desktop workspace.

This was made possible with the update to Service Pack 2. However, as it is still advisable to remove certain documents only in the workspace of the "associated" application, you will receive a warning message with a query in this case.

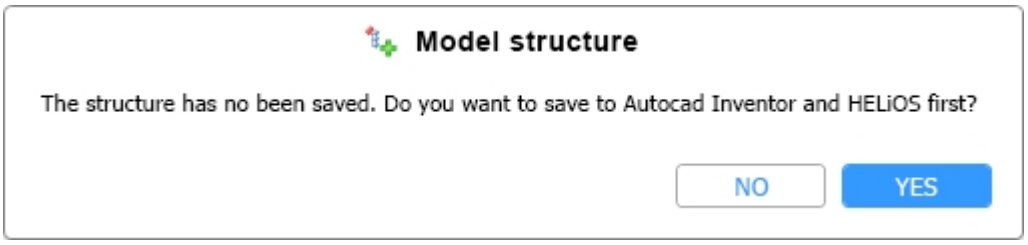


Query for direct saving when linking articles

In order to link documents from CAD drawings with HELiOS articles, the corresponding structures must have been saved in your CAD application and in HELiOS beforehand.

In earlier versions, you received a message to save manually before the article link could be made.

In order to save work steps, the message has been extended to a query via which you can trigger the saving directly by clicking on YES and continue with the creation of the article link without interruption.



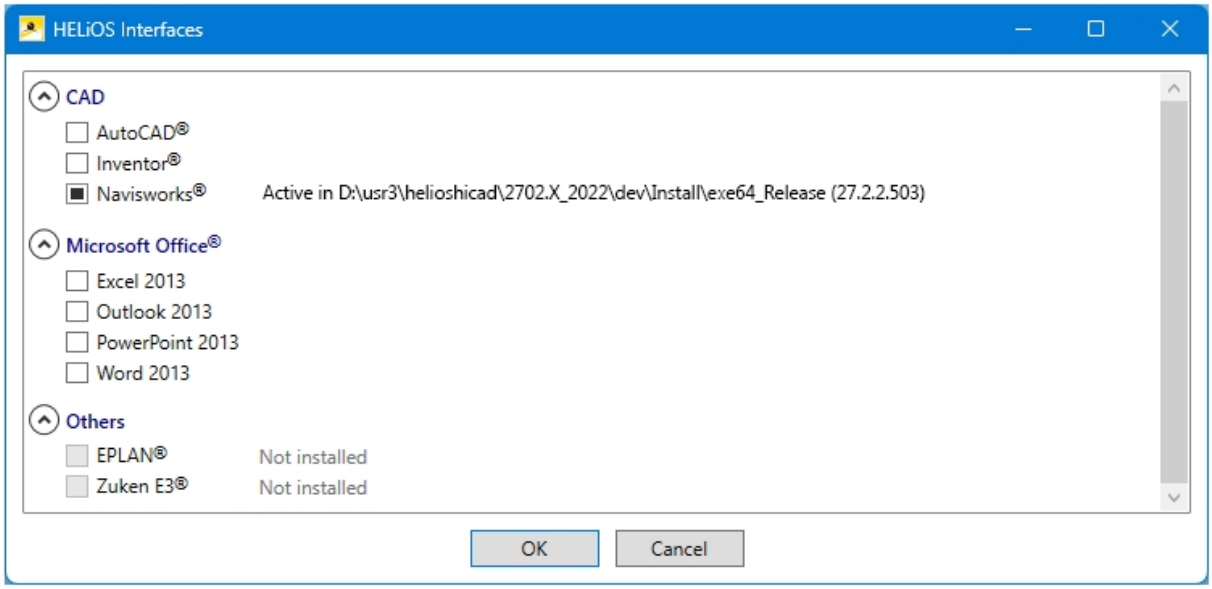
Service Pack 1 2023 (V 2801)

HeliosCouplings

The **HeliosCouplings** tool makes it possible to deactivate/activate interfaces to applications such as AutoCAD, Inventor, Navisworks, EPLAN, E3 or MS Office applications outside the HELiOS (update) installation routine.

Service Pack 1 of HELiOS 2023 introduces the innovation that information about the versions of individual applications is also displayed. This also includes older software that is no longer supported.

If a different HELiOS version installed in the system is interfaced with an application than the one currently being executed, information about this will also be displayed.



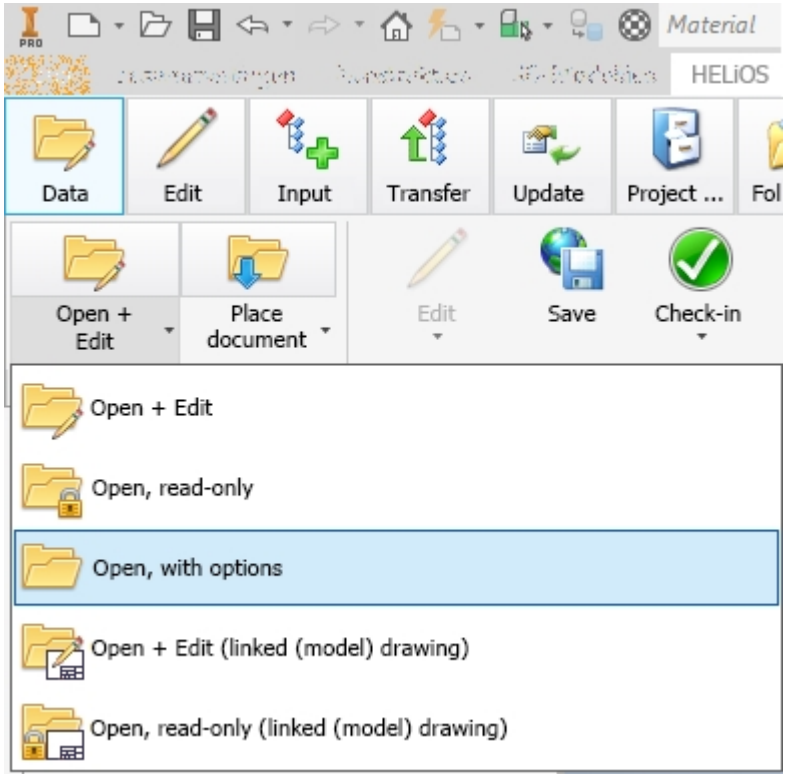
Major Release 2023 (V 2800)

Open, with options

The **Open, with options** function offers you file type-specific options that are taken into account when opening a document.

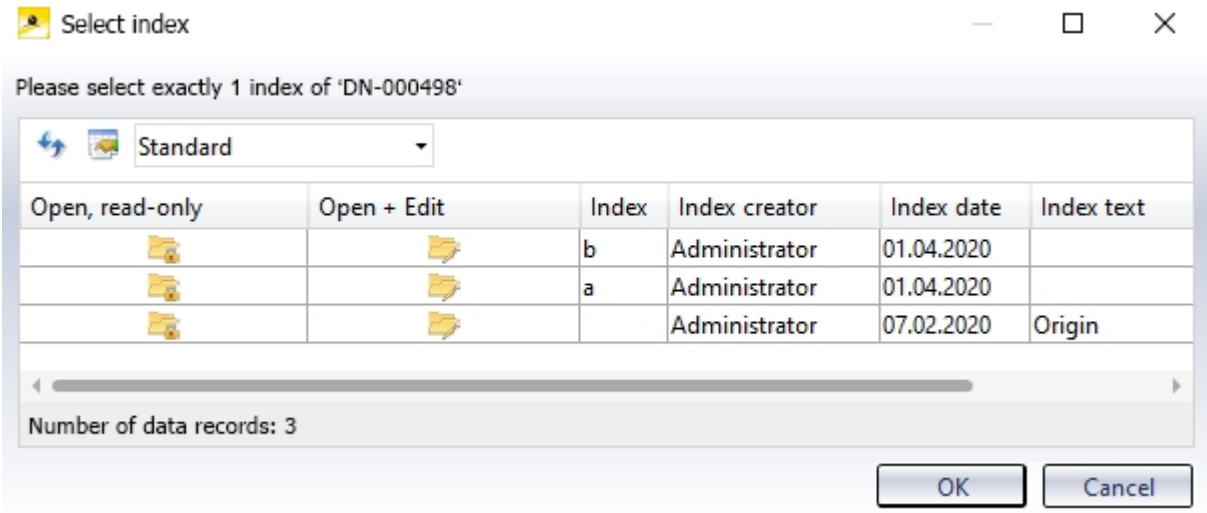
For example, you can also select the express mode for Inventor assemblies called from HELiOS.

With the update to HELiOS 2023, you will also find the function for direct call in the HELiOS Ribbon of Autodesk Inventor.



The call first opens the HELiOS Combined search to select a corresponding document). If this was confirmed by OK, the **Open, with options** dialogue window appears.

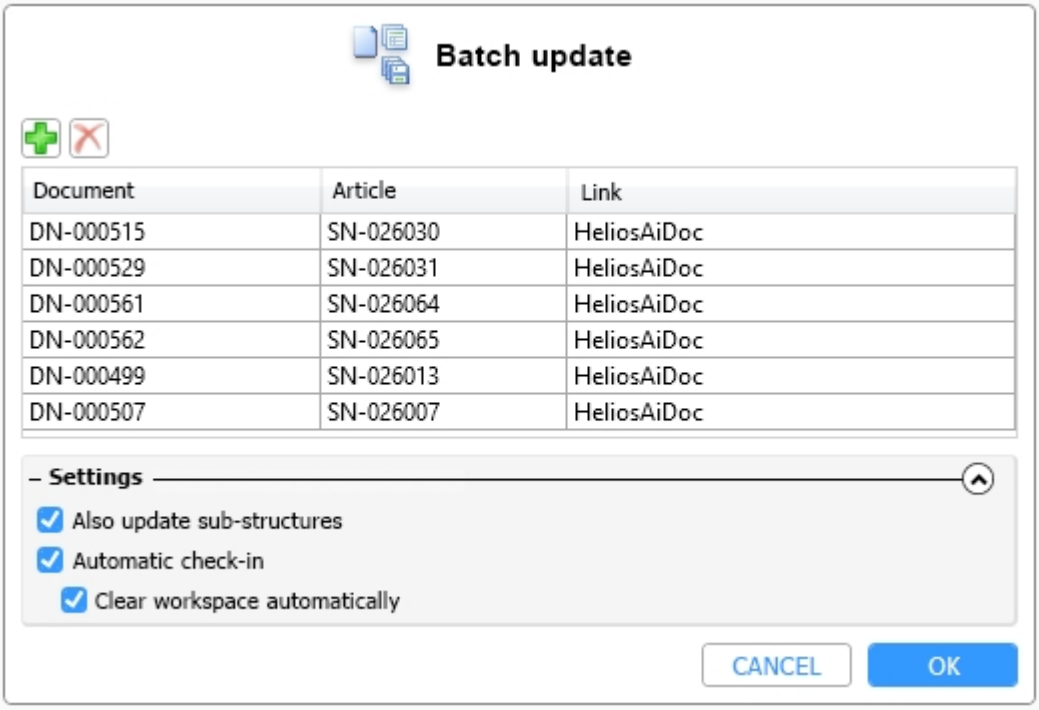
If the checkbox **Load, with version selection** was previously activated in the combined search and if different indices are available for a selected document, you will also be asked to select the desired index in between.



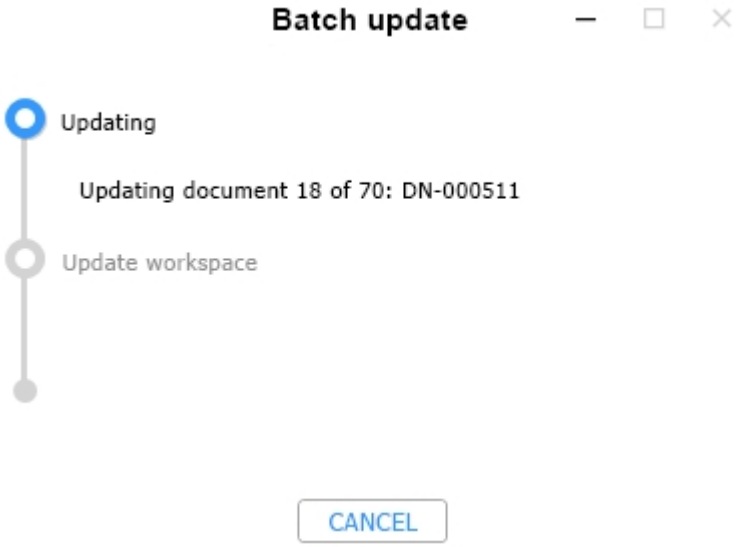
Batch update

There are some new features for the **Batch update**, with the help of which you can update a multiple selection of HELiOS documents "in one go" via the Combined search:

You can have the check-in of the corresponding documents and also a subsequent emptying of the HELiOS Workspace carried out automatically via an option in the dialogue window.



Also, the status display has been redesigned and now offers a **Cancel** option:



You can also control the automated behaviour when updating components to newer indices via the **HELiOS Options** for your multi-CAD application. This means that there is no longer a prompt during the update process.

Discontinuation of older multi-CAD interfaces

Note that with the release of HELiOS 2023 (Version 2800), the following older multi-CAD interfaces will be discontinued:

- AutoCAD (Mechanical) 2019
- Inventor 2019
- Navisworks 2019

HELiOS in HiCAD

Service Pack 2 2023 (V 2802)

Automatic removal of documents from the HELiOS workspace

When HiCAD is closed, all documents not being processed are removed from the HELiOS workspace.

This also applies to neutral formats (e.g. PDF files) that were loaded into HiCAD via a HELiOS context menu.

Files with local changes (which have not yet been transferred to the HELiOS database) are not automatically removed.

Message if HiCAD Integration module is missing

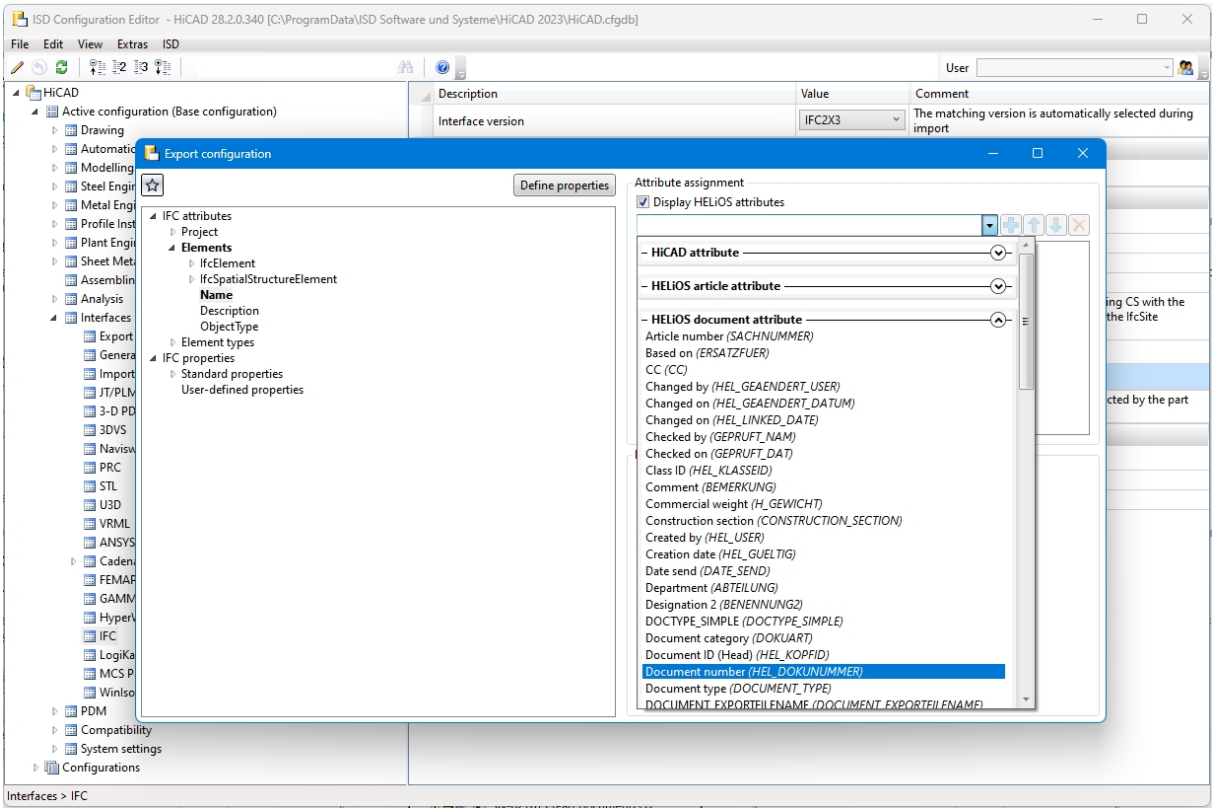
If, when starting HiCAD, a HiCAD basic module other than "HiCAD VI/AV" and a HELiOS basic module other than "HELiOS Viewer" is selected during licence selection, while no licence for the "HiCAD Integration Module" can be found in the system, then only viewing functionalities are available in HELiOS, regardless of the selected basic module. You will receive a corresponding message.

IFC interface: Show HELiOS attributes

In the attribute mapping configuration for the data transformation between IFC and HiCAD, you can also export HELiOS attributes from Service Pack 2.

In the Configuration Editor at **Interfaces > IFC > Default options for export > Attribute mapping configuration > Define** you will find the new checkbox **Display HELiOS attributes**.

If this is activated, HELiOS attributes are also available for mapping in the pull-down menu of the source attributes.

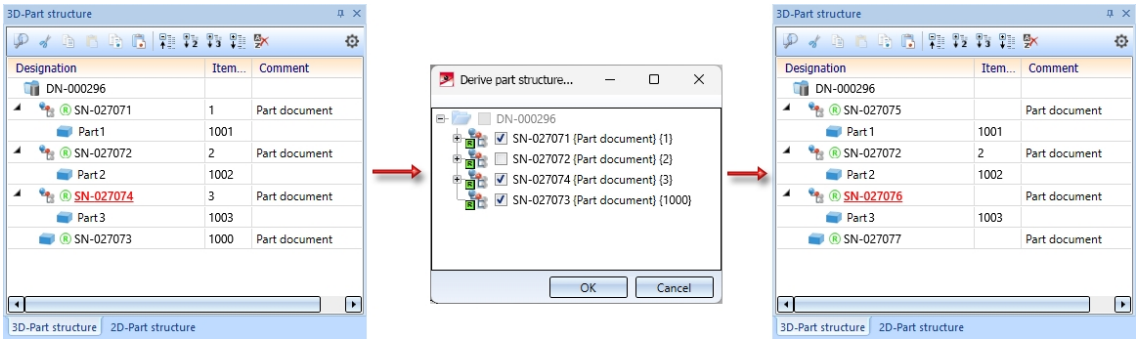


For further information, please refer to the HiCAD Help for **Interfaces**.

Service Pack 1 2023 (V 2801)

Deleting the item numbers when deriving

If you use HiCAD and HELiOS in the context of a project-specific working method in which the referencing option **For main parts and sub-parts** is set in the **Configuration Editor** at **System settings > Referencing > Synchronize item numbers/part attributes** when updating file, item numbers for derived parts are automatically deleted when the part structure is derived via the CAD structure or when a derivation is created via the HELiOS Desktop.

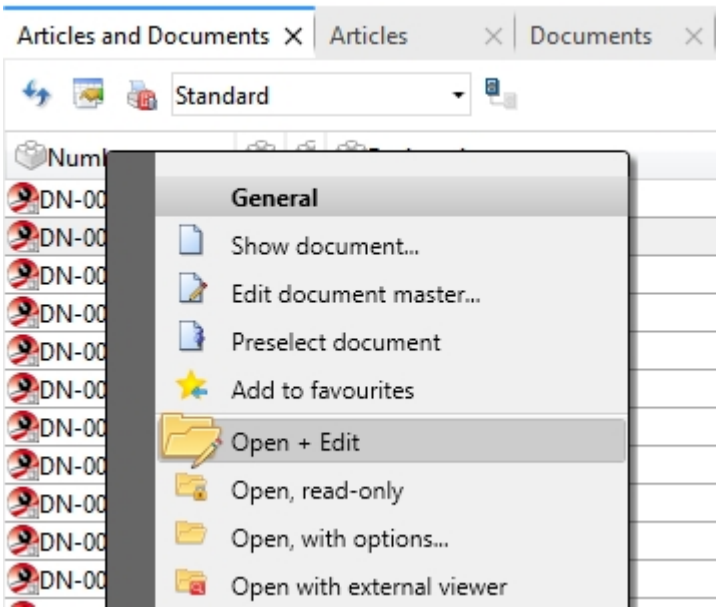


Open STEP file via HELiOS in HiCAD

When opening an object for editing in HELiOS with the **Open+Edit** function, it is intended that documents are opened for editing in the corresponding application. For example, .SZA files are opened in HiCAD.

This also applies to other formats such as STEP files (.stp) if they have been assigned HiCAD as the opening application via the Windows properties.

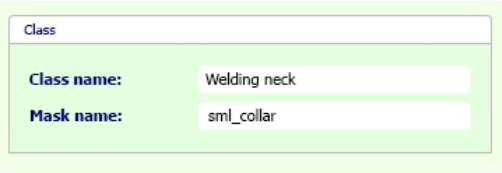
Under such conditions, if a STEP file is opened from HELiOS for editing, it is loaded for editing in HiCAD if HiCAD is already running, or HiCAD is started for editing the file if necessary.

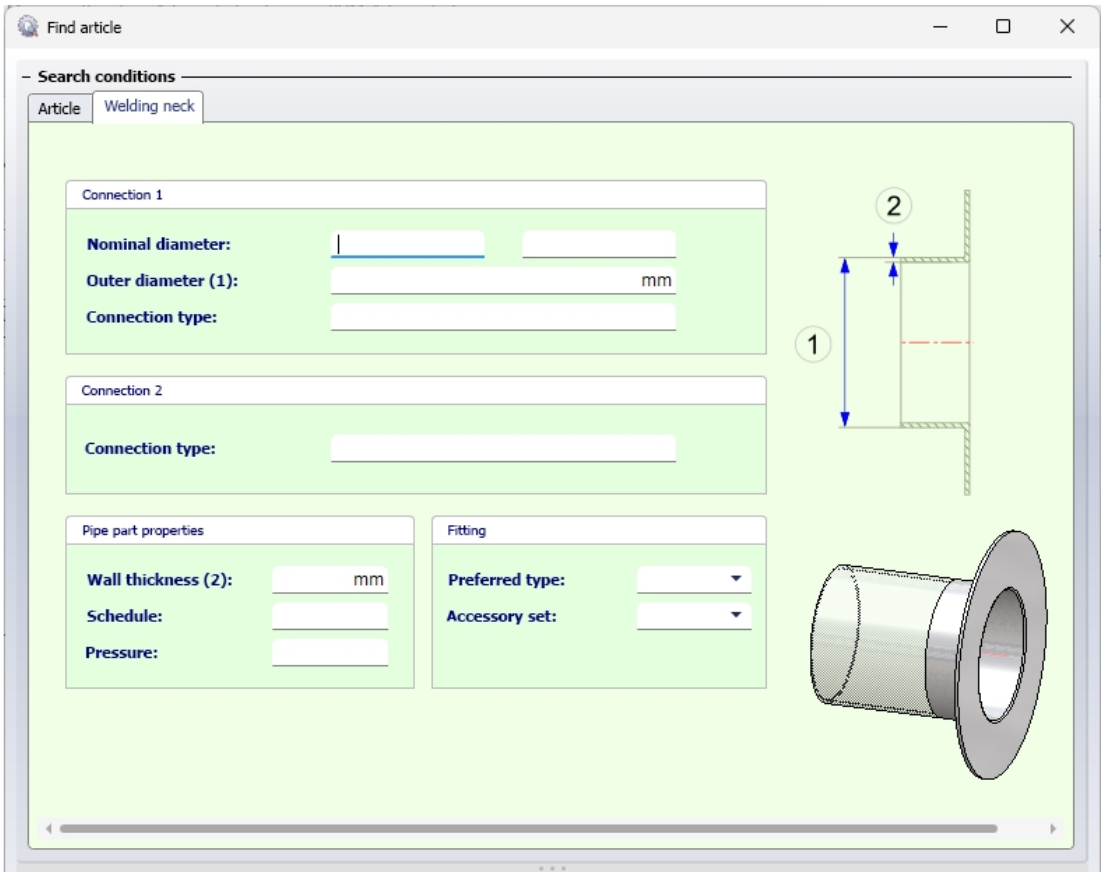


Of course, opening a STEP file in HiCAD also works outside the HELiOS context by double-clicking in Windows Explorer.

New article class for part type Welding neck

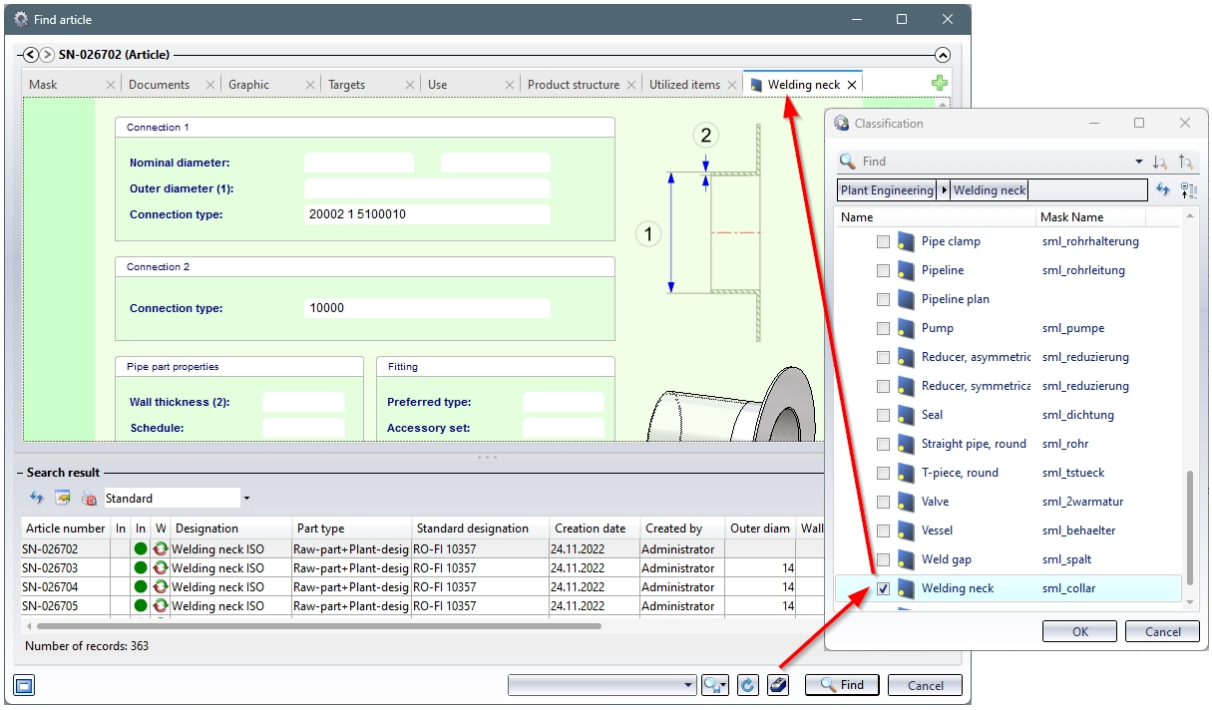
If you use HELiOS in connection with the HiCAD module Plant Engineering, a new HELiOS article class is available from Version 2023 SP1 onwards with the new part type **Welding neck**.





You must inform HELiOS of the new classification for welding neck flanges. This is done via the programme **DBPlantDataImport.exe**, which you will find in the HiCAD exe directory. There you click on the button **Update HELiOS for Plant Engineering**.

Afterwards you can use the HELiOS search mask in your HELiOS Desktop.

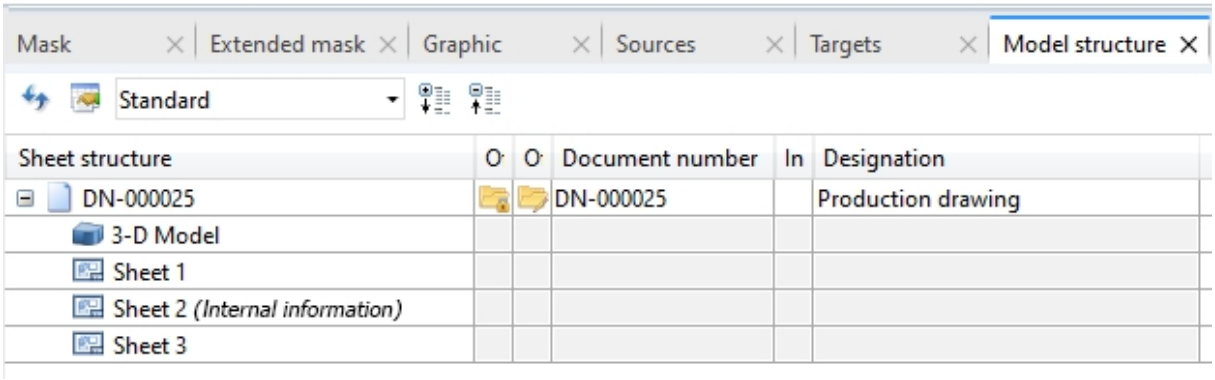


Major Release 2023 (V 2800)

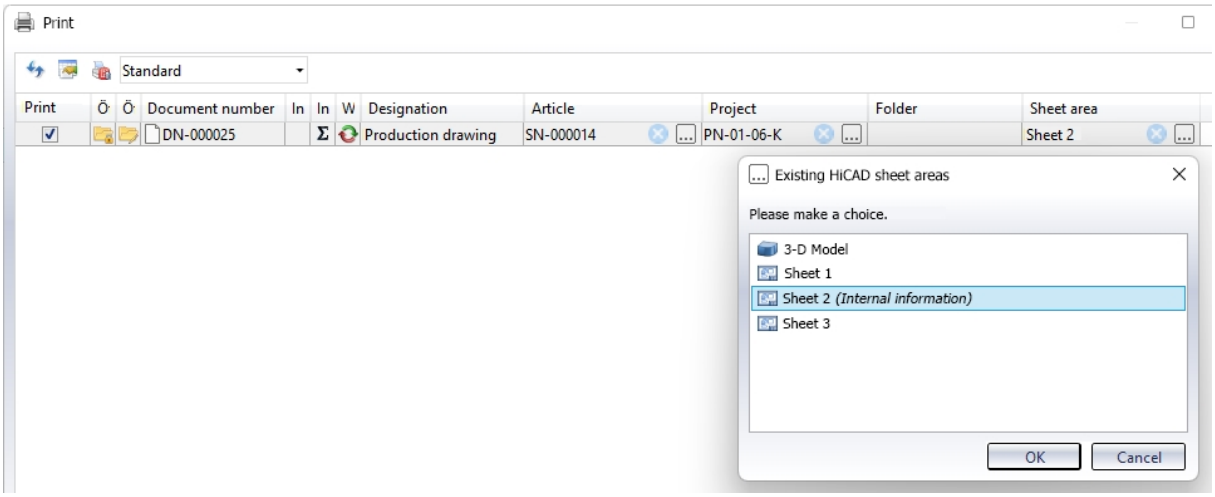
Transfer of the HiCAD sheet structure

When saving SZA files to HELiOS, the HiCAD sheet structure is also transferred to HELiOS. This contains the number of sheets and the **Type**, **Sheet number** and **Sheet name** for each sheet.

The sheet structure of SZA documents can then be viewed in the document master on the tab **Model structure**:

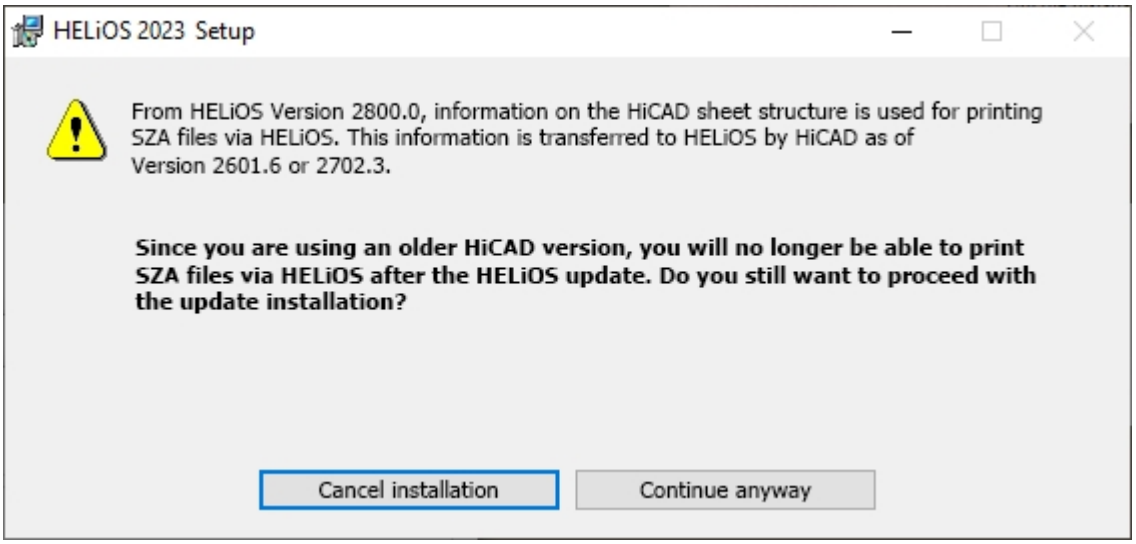


When printing documents via HELiOS, this sheet structure is also displayed accordingly for the selection of the sheet area to be printed:



Please note that when updating to HELiOS 2023 (V. 2800) in combination with a HiCAD version older than HiCAD 2023 (V 2800), printing of SZA files via HELiOS is no longer possible due to this change.

In this case, you will receive a corresponding message during the installation:



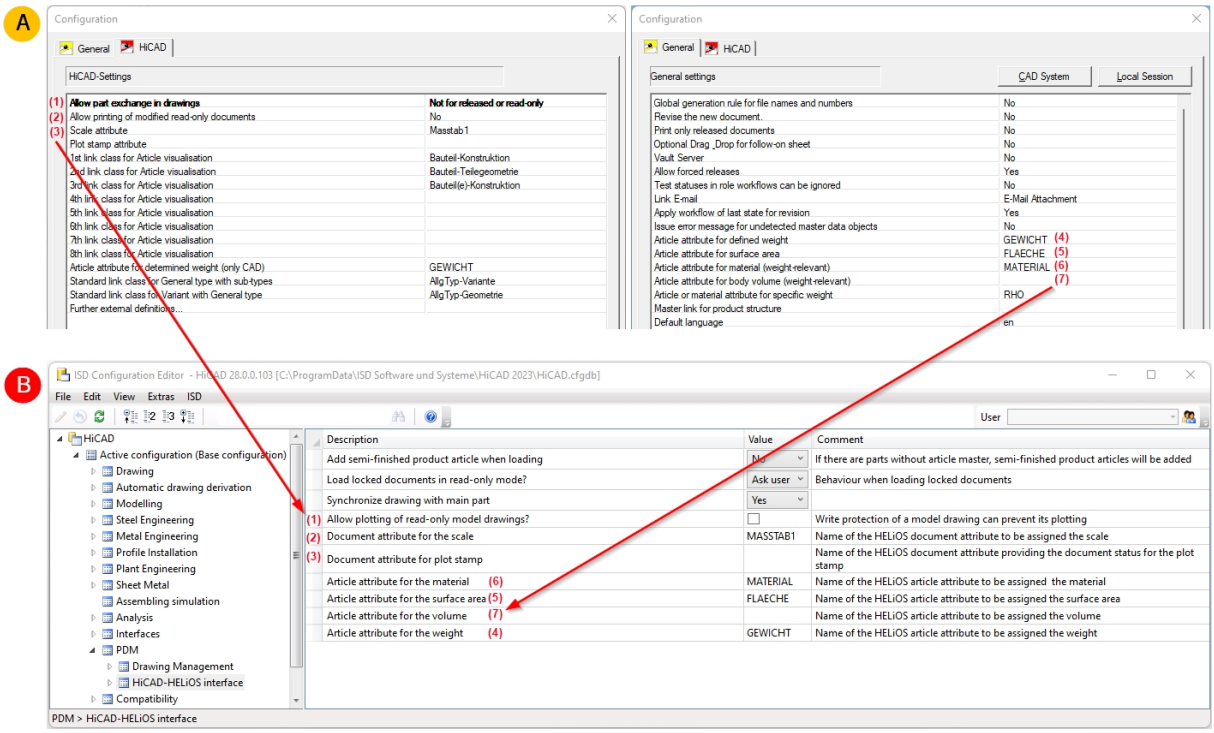
A migration of inventory data can then be automatically carried out when HiCAD is started with HELiOS.

This applies to the following HiCAD Versions:

- HiCAD 2021: As of Version 2601.6
- HiCAD 2022: As of Version 2702.3
- HiCAD 2023: As of Version 2800.0

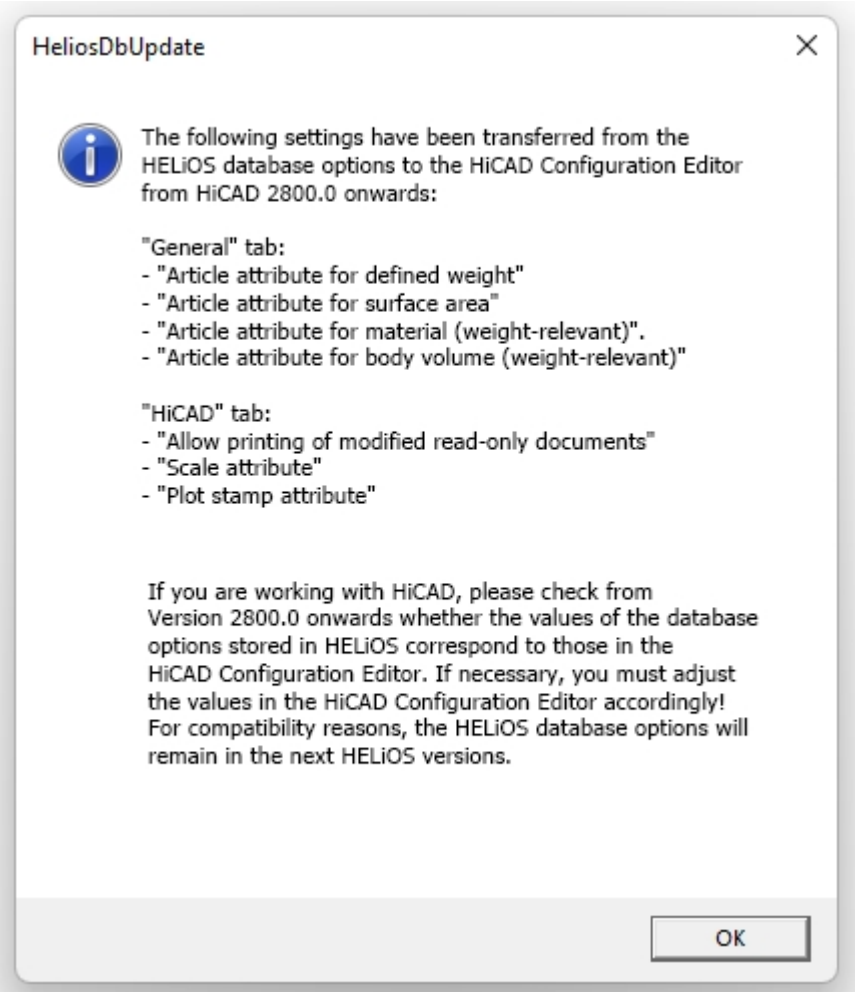
HiCAD-specific HELiOS settings moved to Configuration Editor

As of version 2800, HiCAD manages some attributes that previously had to be defined in the HELiOS settings.



A: up to HiCAD / HELiOS 2702 (HELiOS Options > Datenbank), B: from HiCAD / HELiOS 2800 onwards (ISD Configuration Editor: PDM > HiCAD-HELiOS interface).

When updating the database scheme you will receive the following message:



New ISD Report Manager

As of HELiOS 2023 / HiCAD 2023, a new version of the ISD Report Manager will be introduced for the issuance of bills of materials, which is much simpler and more convenient, especially when configuring BOM templates.

Detailed information can be found in the Online Help chapter for the ISD Report Manager.

HiCAD - HELiOS Head ID

As of HiCAD 2023, it is no longer possible to specify the Head IDs of articles and documents in HELiOS. This ID was previously used by the catalogue editor and the DBPlantDataImport/PartDataAutoSync tools to find articles again.

Now, unique IDs are assigned by the variant editor itself and transferred to HELiOS during matching. These IDs are directly visible in HELiOS, as they are not a regular article attribute.

The new IDs are only directly visible in a few places in HiCAD:

- When matching with the catalogue via the tool VarToCat, an additional table column PLANTID is inserted.
- In P+ID, the new ID becomes visible in the attribute **Database article ID** when assigning article data.
- After a part has been installed, the PLANTID is also found in its part attributes.

HELiOS for AutoCAD

Major Release 2023 (V 2800)

AutoCAD 2023

With the release of HELiOS 2023 (V 2800) the Multi-CAD-interface of HELiOS also supports AutoCAD (and AutoCAD Mechanical) in the current Version 2023.

HELiOS for Autodesk Inventor

Service Pack 2 2023 (V 2802)

Exchange / Exchange all

The functions **Exchange** and **Exchange all** functions have been further refined to adapt the HELiOS interface to the behaviour of special cases in Inventor.

There are use cases in which one of the exchange functions is used although the corresponding part does not actually have to be exchanged geometrically, e.g. one of the following situations:

- A document is linked to two articles. In an assembly, the current article is to be exchanged for the other linked article.
- A document is linked to an article with different article indices. In an assembly, the article's built-in index is to be exchanged for its newer version.
- An article saved in the context of the model structure without a document link is to be exchanged for another article or article index.

All these exchange scenarios are implemented accordingly by HELiOS. Article contexts are taken into account and changed if required.

Major Release 2023 (V 2800)

Inventor 2023

With the release of HELiOS 2023 (V 2800), the multi-CAD interface of HELiOS also supports Inventor in the current version 2023.

Exchange / Exchange all

To improve performance, thefunctions **Exchange** and **Exchange all**, which allow you to replace components of the **active part** using HELiOS's **Combined search** function, have been modified:

The superordinate assembly must have been set to edited mode to be executed (if it is not, you will receive an appropriate message). In addition, the model structure is considered in this operation only on the level where the component is replaced. This procedure by HELiOS behaves analogously to the local exchange procedure of Inventor and saves computing time

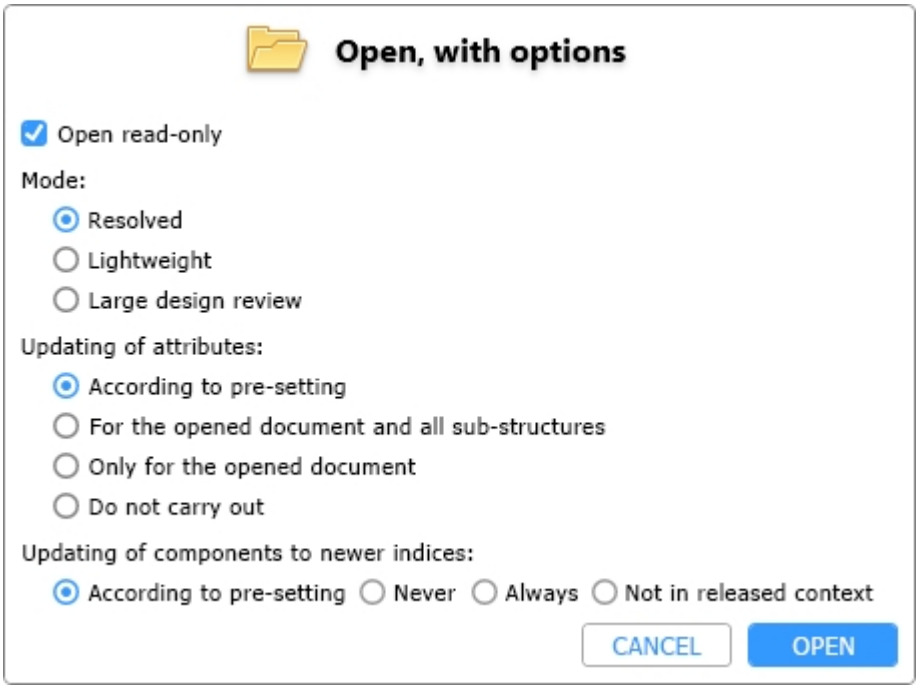
HELiOS for SOLIDWORKS

Major Release 2023 (V 2800)

Open, with options: Large design review

HELiOS supports the three **Mode** setting options of SOLIDWORKS assemblies: **Resolved**, **Lightweight** and **Large design review**.

When loading SOLIDWORKS assemblies with the **Open, with options** function, for example also via the HELiOS Desktop, you have the option in the extended dialogue window under **Mode** to choose one of the three options when opening.



Please read the further notes on using the **Large design review** option as a viewing function and on putting together larger assemblies using this option.

Also, as of HELiOS Version 2023 onwards, you can also call the **Open, with options** function directly from the HELiOS menu or the HELiOS Ribbon in SOLIDWORKS, instead of exclusively from the context menu or document detail windows as in previous versions.

Batch import

The **Batch import** has been extended by a progress indicator with cancel option.

In this context, please note that Batch update and Batch reimport may only be executed with administrator rights.

Navisworks Interface

Major Release 2023 (V 2800)

Support of Navisworks 2023

The Major Release HELiOS 2023 (Version 2800) supports the current Navisworks Version 2023.

HELiOS & EPLAN

Service Pack 1 2023 (V 2801)

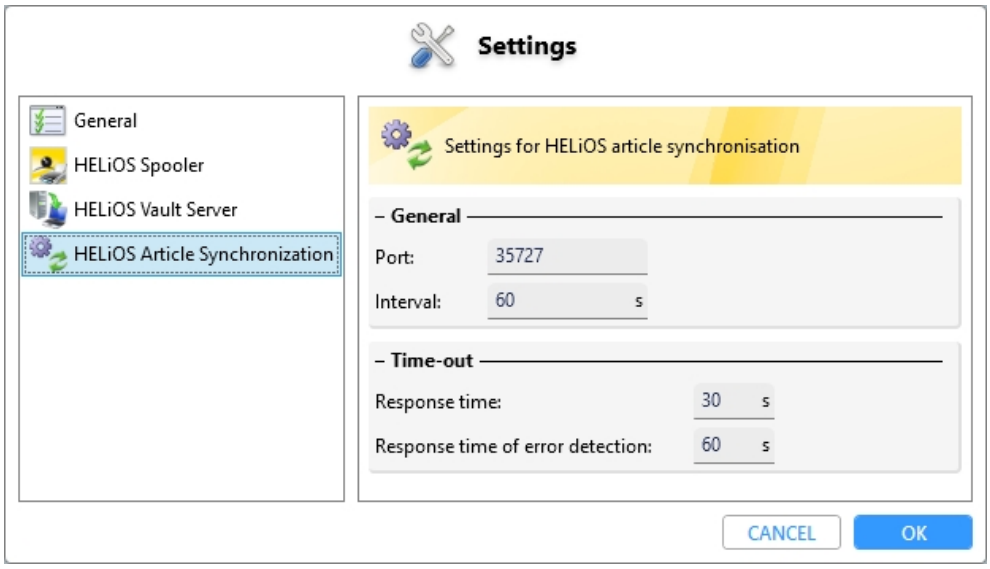
Support of EPLAN 2023

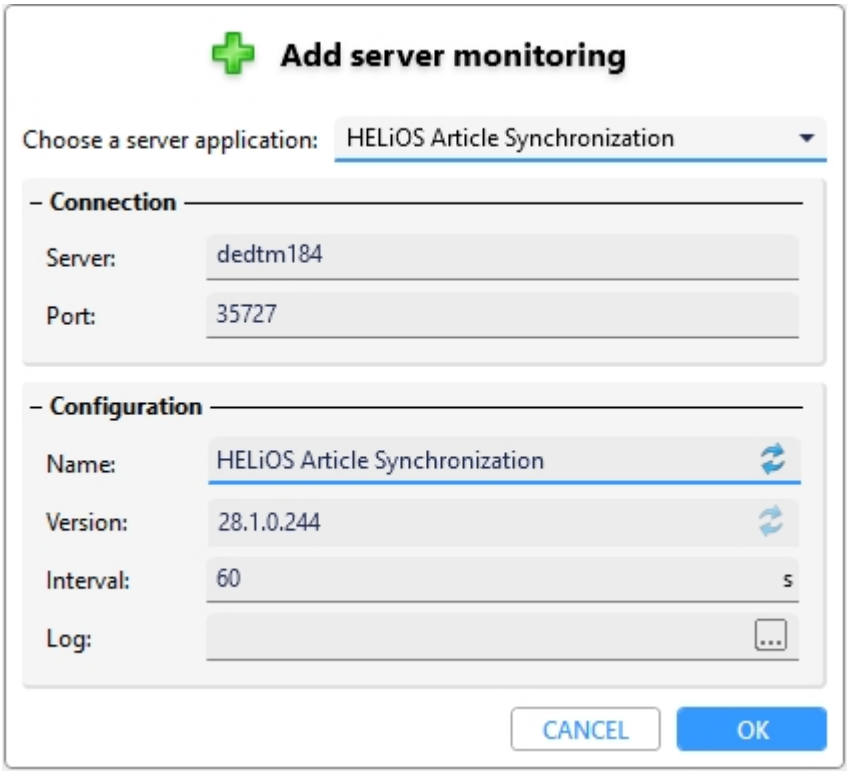
HELiOS 2023 Service Pack 1 (Version 2801), supports the current EPLAN Version 2023.

Server Monitor: HELiOS Article Synchronisation

With the release of HELiOS 2023, the Server Monitor tool was introduced for monitoring the runnability of HELiOS server applications.

With Service Pack 1, it was extended to include the option of monitoring HELiOS Article Synchronisation in the context of EPLAN interfaces.




Add server monitoring
Choose a server application:
HELiOS Article Synchronization
Connection
Server:
dedtm184
Port:
35727
Configuration
Name:
HELiOS Article Synchronization
Version:
28.1.0.244
Interval:
60
s
Log:
CANCEL
OK

Major Release 2023 (V 2800)

Support of EPLAN 2022

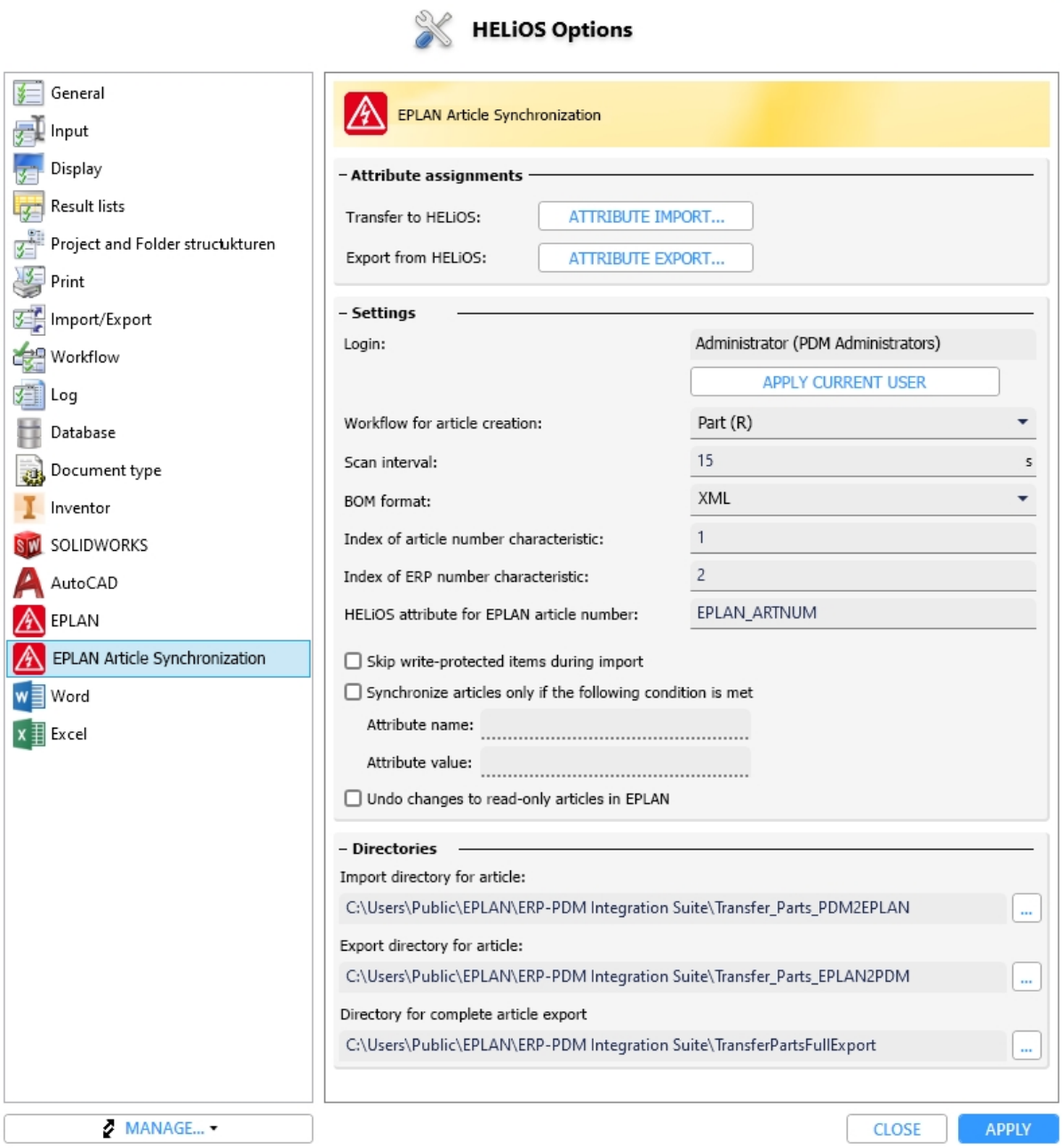
The Major Release HELiOS 2023 (Version 2800) supports the current EPLAN Version 2022.

Improvements and extensions

With the update to HELiOS 2023 (Version 2800), a number of improvements have been made and extensions implemented in the area of the EPLAN interface:

- The attribute mapping was adapted to the latest state of the art.
- In the article synchronisation service, the possibility of resynchronising articles that could not previously be overwritten in HELiOS was created. E.g.: Modification of a resource whose HELiOS article master has already been released. A new configuration switch ensures that the HELiOS article master is directly resynchronised.
- There are improvements in the area of bill of materials and product structure reconciliation, e.g. regarding the recognition of EPLAN product structure items.
- In the case of multi-level BOMs, as with the EPLAN project itself, PDFs stored for installation locations are also transferred to HELiOS accordingly.

- If desired, it is also possible not to manage EPLAN project files in HELiOS, but to leave them in the EPLAN file system.



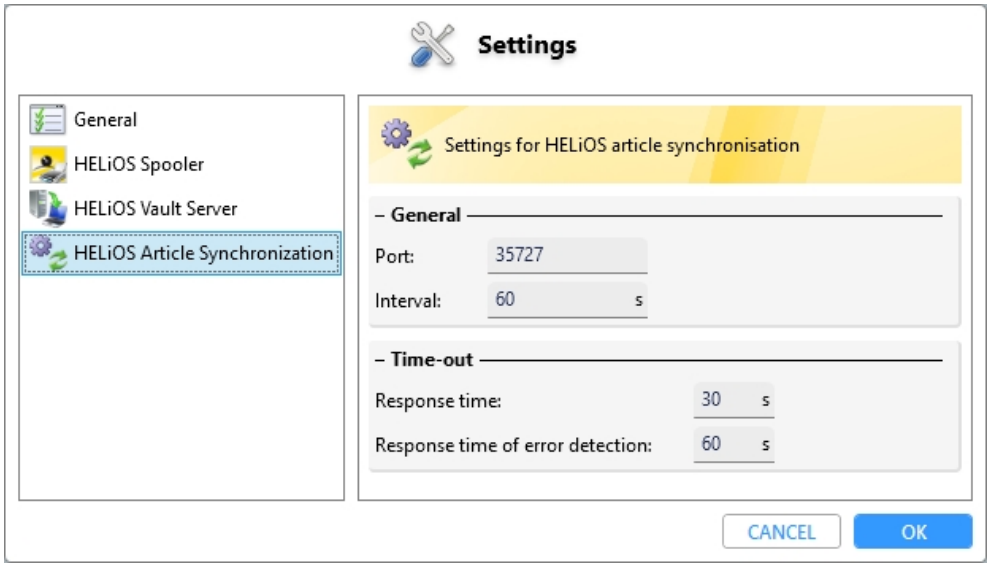
HELiOS for Zuken E3

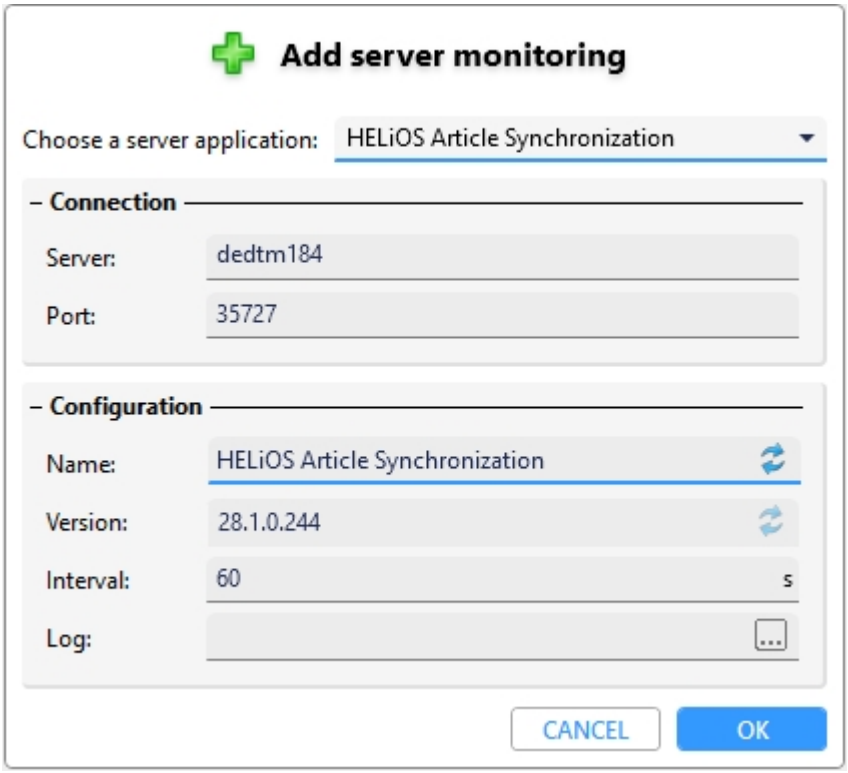
Service Pack 1 2023 (V 2801)

Server Monitor: HELiOS Article Synchronisation

With the release of HELiOS 2023, the Server Monitor tool was introduced for monitoring the runnability of HELiOS server applications.

With Service Pack 1, it was extended to include the option of monitoring HELiOS Article Synchronisation in the context of Zuken E3 interfaces.





Legal notes

© 2023 ISD ® Software und Systeme GmbH. All rights reserved.

This User Guide and the software described herein are provided in conjunction with a license and may only be used or copied in accordance with the terms of the license. The contents of this User Guide solely serve the purpose of information; it may be modified without prior notice and may not be regarded as binding for the ISD Software und Systeme GmbH. The ISD Software und Systeme GmbH does not assume any responsibility for the correctness or accuracy of the information provided in this document. No part of this document may be reproduced, saved to databases or transferred in any other form without prior written permission by the ISD Software und Systeme GmbH, unless expressly allowed by virtue of the license agreement.

All mentioned products are trademarks or registered trademarks of their respective manufacturers and producers.

HELiOS

UNLIMITED PLM PERFORMANCE **DEVELOPED BY ISD**

Germany

Headquarter Dortmund
ISD Software und Systeme GmbH
Hauert 4
D-44227 Dortmund
Tel. +49 231 9793-0
info@isdgroup.de

Sales office Berlin
ISD Software und Systeme GmbH
Paradiesstraße 208a
D-12526 Berlin
Tel. +49 30 634178-0
berlin@isdgroup.de

Sales office Hamburg
ISD Software und Systeme GmbH
Strawinskystraße 2
D-25337 Elmshorn
Tel. +49 4121 740980
hamburg@isdgroup.de

Sales office Hanover
ISD Software und Systeme GmbH
Hamburger Allee 24
D-30161 Hanover
Tel. +49 511 616803-40
hannover@isdgroup.de

Sales office Nuremberg
ISD Software und Systeme GmbH
Nordostpark 7
D-90411 Nuremberg
Tel. +49 911 95173-0
nuernberg@isdgroup.de

Sales office Ulm
ISD Software und Systeme GmbH
Wilhelmstraße 25
D-89073 Ulm
Tel. +49 731 96855-0
ulm@isdgroup.de

International

ISD Austria
ISD Software und Systeme GmbH
Hafenstraße 47-51
A-4020 Linz
Tel. +43 732 21 04 22-0
info@isdgroup.at

ISD Benelux - Hertogenbosch
ISD Benelux B.V.
Het Zuiderkruis 33
NL-5215 MV ‘s-Hertogenbosch
Tel. +31 73 6153-888
info@isdgroup.nl

ISD Benelux - Zwolle
ISD Benelux B.V.
Grote Voort 293A
NL-8041 BL Zwolle
Tel. +31 73 6153-888
info@isdgroup.nl

ISD France
ISD Group France SAS
10 -12 Boulevard Vivier Merle
F-69393 Lyon
Tel. +33 6 73 72 04 67
info@isdgroup.fr

ISD Switzerland
ISD Software und Systeme AG
Rosenweg 2
CH-4500 Solothurn
Tel. +41 32 624 13-40
info@isdgroup.ch

ISD Switzerland
ISD Software und Systeme AG
Rte du Jura 37 A, 4. Étage
CH-1700 Fribourg
Tel. +41 79 803 51 51
info@isdgroup.ch

ISD USA - North Carolina
ISD Group USA Inc.
20808 N Main Street, Suite 101
USA-Cornelius NC 28031
Tel. +1 770 349 6321
info@isdgroup.us

ISD USA - Georgia
ISD Group USA Inc.
5126 South Royal Atlanta Drive
USA-Tucker GA 30084
Tel. +1 770 349 6321
info@isdgroup.us

www.isdgroup.com

HELiOS_2802

This document is generated automatically.

© 2023 ISD Software und Systeme GmbH