

# **Installation Notes**

Version 2024 HiCAD and HELiOS

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# TOC

Getting Started	6
System Requirements	13
System Requirements for HiCAD	
Compatibility Matrix for Interfaces Applications (HiCAD)	
System Requirements for the HiCAD Spooler	
System Requirements for the HELiOS Database Server	
System Requirements for the HELiOS Vault Server	
System Requirements for the HELiOS Client	
Compatibility Matrix for Interfaced Applications (HELiOS)	
System Requirements for the HELiOS Spooler	
System Requirements for the License Server	
Operation in Virtual Environments	
HELiOS Client HELiOS Spooler	
License Server	27
Network licenses on Virtual Machines (VM)	
Further Requirements for Installation	
Installation	
Installation von HiCAD	
Installing the Online Help	45
Installing the HiCAD Viewer	
Installation des HiCAD Spoolers	
Installing the HELiOS Database Creator	
Installing the HELiOS Vault Server	
Installing the HELiOS Client	61
Support with the Office Interface	
Installing the HELiOS Spooler	71
Installing the HELiOS Server Monitor	
Installing the HELiOS Task Starter	
Installing the Trial Edition (Demo Version)	
Installation Education Edition (for Students)	
Silent Installation	
Configuration	
Configuration Management	
Configuration Management for Updates	
Configuration Management for New Installations	
Parameter Configuration for HiCAD	

Configuration HELiOS Client (Local and Central Distribution of Settings)	104
Update	108
Licensing in Case of Updates	
Updating the Server License.	112
Updating Local Licenses	113
Carrying Out the Installation	114
Data Compatibility of HiCAD/HELiOS	
Update of HiCAD	
Backups Before Performing the HiCAD Update Installation	
Update Installation of HiCAD	117
ISD Update Service	
Installing the ISD Update Service	131
Using the ISD Update Service	134
ISD Update Service: Settings	138
Update - Procedure for the modules Plant Engineering and Pipeline Planning	
Updating the HELiOS Database (Database Schema)	
Manual Registration of Multi-CAD Add-ins	
New Mask Editor for HELiOS	
New File Format for 2-D Files in HiCAD	
Conversion of 2-D Data to the FGA Format	
Installing the FIG-FGA Converter	151
CatalogueMaker	
CatalogueUpdate	
CatalogueMaker	
Licensing	158
General Notes on Licensing	
General Information on Local (Workstation-specific) Licenses	159
General Information on (Server-controlled) Network Licenses	
General Information on Commuter Licenses	
Installing the License Server	
Licensing via Entitlement ID (License Activator)	
AutoRequest Licenses	
Activate Licenses	
Deactivate Licenses	
Trial Licenses	
Reconstruction of Licenses	
Notes on the Use of Mobile Computers (Laptops)	
Floating Licenses	
Commuter Licenses	
Checking Out Commuter Licenses, with Network Connection	

Checking Out Commuter Licenses, without Network Connection	
License Configuration	
Server Monitor	
Theft of a Workstation	
First Steps	
HiCAD at a Glance	
Start HiCAD	
DLL Check	
Start Centre	
Close HiCAD	
HELIOS at a Glance	
Start HELiOS	
What's New in Version 2024?	
How to Use the Help	
Hotline	
Copyright	

# Getting Started

## **Important Notes!**

## Hardware Exchange

If you use local HiCAD/HELiOS licenses and want to exchange any hardware components, modify the partitioning of, or re-install the operating system, you need to revoke the existing license on the HiCAD/HELiOS workstation first, and request, using the new hardware or modified configuration, a new license key (further information on the procedure can be found in the software documentation).

If a revocation is technically possible, but will not be performed, the ISD reserves the right to charge costs in an appropriate amount for the reissuing of the license. If the license will not be revoked, or if such revocation is no longer technically possible, the ISD may request proof that the unrevoked license is no longer utilisable; in case of failure to produce such proof, the ISD reserves the right to refuse the transfer of the license to a new hardware.

# Discontinuation of HELiOS 32 Bit, HiCAD Viewer 32 Bit and Office Interface 32 Bit

Since HELiOS 2022 (Version 2700.0) there is no 32 Bit version available for HELiOS and the HiCAD Viewer. The HELiOS interface for a 32 Bit Office was one of the few components that was still 32 Bit on these versions. Since Microsoft has also offered a 64 Bit installation of Office since Office 2010 and many add-ins for Office are now also available as 64 Bit versions, with HELiOS 2024 we will support an Office interface only for a 64 Bit Office. If you are still using the Office interface in conjunction with a 32 Bit Office, you must uninstall your Office version and reinstall it as a 64 Bit version as soon as you update to HELiOS 2024.

# Discontinuation of the Zuken E3 interface

As of HELiOS 2024 (Version 2900.0) we will no longer support the Zuken E3 interface.

# **Discontinuation of Oracle**

As of HELiOS 2022 (Version 2700.0), Oracle will no longer be officially supported as a database system! Please migrate to a SQL Server as soon as possible.

# Discontinuation of Mircosoft Office 2010 interface

From HELiOS 2021 (Version 2600.0) on, we will no longer support Office 2010 in the HELiOS - Office interface.

## Discontinuation of old Multi-CAD interfaces for HELiOS 2024

As of HELiOS 2024 (Version 2900.0), the following versions of Multi-CAD interfaces are no longer supported:

- AutoCAD 2020
- AutoCAD Mechanical 2020
- Inventor 2020
- Navisworks 2020

## **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.

## Discontinuation of the ISD.PDM.API

Before carrying out a HELIOS update for an older HiCAD version, please note that from HELIOS 2022 onwards, the previous ISD.PDM.API will be discontinued and replaced by the new API from Helios.Interface. If you use customisations that use functionalities from the previous ISD.PDM.API, you must update the customisations to the new API before carrying out the HELIOS update. If you use customisations that use functionalities from the HiCAD API, you should ensure that the HiCAD version used is at least version 2502.5 or 2601.1 or newer. If you are unsure whether you are using corresponding adaptations, please talk to your administrator or contact the ISD in case of doubt.

## Discontinuation of Windows® 7 and Windows® 8

Microsoft® has discontinued support for the Windows® 7 operating system in January 2020. For compatibility reasons, HiCAD 2020 SP2 and HELiOS 2020 SP2 were the last versions of our CAD or PDM system to support Windows© 7. HiCAD 2021 and HELiOS 2021 no longer run under Windows© 7, Windows© 8 and the corresponding server operating systems (Windows Server 2008 R2, Windows Server 2012 and older) are also no longer supported. If an attempt is made to install HiCAD 2021 or HELiOS 2021 on a computer with Windows© 7 or Windows© 8, a message appears.

## Discontinuation of length measurements deviating from mm

HiCAD 2022 only supports drawings with the unit of measurement "Millimetres" (mm). The unit of measurement is saved in the corresponding SZA, FGA or KRA file when saving a drawing or a part. Attempts to open drawings with a different unit of measurement or to insert parts with a unit of measurement different from mm will be blocked.

### Discontinuation of "old" OpenGL versions

From HiCAD 2021 on, only OpenGL version 4.3 is used in all HiCAD modules. Until now this was only the case with the module **HiCAD Point Cloud**. This means that HiCAD 2022 can no longer be run on computers without a separate graphics card. To avoid possible problems with onboard graphics cards, we recommend using a stand-alone graphics card.

## Discontinuation of "old" HiCAD itemization

As of HiCAD 2019 the "old" itemisation, i.e. the itemisation that was used up to HiCAD 2017, will only be available for model drawings that were already itemized with these functions. From HiCAD 2021 onwards, only the "new" itemization will be supported. Please also read the information given in the Conversion of Old Itemisations topic.

## Discontinuation of CADENAS PARTdataManager

As of HiCAD 2022 SP2, the CADENAS **PARTdataManager** will no longer be supported. Thus, the functions **Insert main part, PARTsolutions (CADENAS program)** and **Import PARTsolutions part** will no longer be available from SP2 onwards.

### **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.

## Mark-up und redlining

The **HiRedLine** tool allows you to add comments or modification suggestions to a HiCAD drawing, without changing the original file.

As of 2023, this tool is only available as part of a HiCAD/HELiOS installation. In case of a standalone installation of the HELiOS Desktop, starting it will no longer be possible.

## Transfer HiCAD sheet structure to HELiOS

From HELiOS 2023 onwards, information on the HiCAD sheet structure, which is transferred when saving a model drawing with HELiOS, is used for printing drawings via HELiOS. For inventory data that have not yet been re-saved yet, this information is missing and printing via HELiOS is not possible.

If HiCAD is started with HELiOS after an update installation, you will get a message and you can add the HiCAD sheet structure for inventory data. See also the information in the HELiOS Online Help.

### Data compatibility

HiCAD 2024 uses a different data format, which means that.SZA files saved with HiCAD 2024 can no longer be loaded into older HiCAD versions.

When performing a HELiOS update, the update start mask shows you the HELiOS version, which needs to match the existing database. If this is not the case, only an error message will appear when you start HELiOS. To update the database schema, use the program HeliosDbUpdate.exe. If the database schema requires an update, you can **no longer access** the database with older HELiOS versions. Therefore, all workstations accessing the database need to be readjusted accordingly at the same time.

# Update HiCAD and HELiOS

In the context of HiCAD/HELiOS Update Installations, the last 5 release cycles are supported. As of HiCAD/HELiOS 2024 (Version 290\*.\*), you can only update installations from 2019 (Version >= 2400.0) and newer. (See also Carrying out the installation.)

## PDF preview in HELiOS Desktop

Please note that the PDF preview in HELiOS Desktop no longer works with Acrobat Reader DC as of Version 2021.011.20039.

As an alternative, we recommend Sumatra PDF (64-bit and the non-portable version) for HELiOS from Version 2702.3, 2800.3 and 2801.0. Before you install it, you need to uninstall all PDF Readers. During installation, click on **Options** (bottom left) and choose **Install for all users** and **Let Windows show previews of PDF documents**. You may also need to modify the hel\_preview.ini configuration file if Acrobat Reader is explicitly defined there for PDF preview.

If an update to a new HELiOS version is to be avoided, Foxit Reader (up to max. Version 11) can be used.

# New Mask Editor in HELiOS 2020

Due to the complete revision of the Mask Editor in HELiOS 2020, the previous mask format has been changed from .MSK to .XML. In addition, mask files are now managed outside the installation directory, resulting in some changes in the system architecture that Administrators must consider:

- The masks of older versions (before V 2500.0) that were previously stored in the SYS directory of the installation are automatically converted to the new XML format in case of an update installation and stored at %Programdata%.
- The new masks at %Programdata% should not be overwritten under any circumstances, as these represent the "delivery status", which will be updated by later update installations. If masks are edited and changed with the Mask Editor, you must store and call them at %Appdata%.

## Updating the HELiOS-Inventor interface

For an update of the Inventor interface from an older HELiOS version to HELiOS 2020 (Version 2500) or higher (and the corresponding update of the database schema) the following changes have to be considered:

- 1. The structure identifiers for Inventor parts must be updated.
- 2. The standard part and semi-finished product identifiers are changed to a document-based (instead of article-based) management.

An update installation can only be carried out after an appropriate preparation of the migration.

In case of an update, please contact the Consulting team of the ISD Group. New installations of HELiOS 2020 and the associated database are not affected.

## Attribute mappings: Conversion of the default mapping

With HELiOS Major Release 2022 (V. 2700) an adjusted standard attribute mapping is delivered. By converting the mapping for designating component names to configuration-specific attributes, a significant performance increase was achieved.

Existing mappings, which are generally not changed by an update installation, should be updated to the new standard manually. Please refer to the HELiOS Online Help.

### Important update notes for attribute mapping in title blocks

Up to HELiOS 2019, the attribute for the title block in AutoCAD was created using the following files:

- heliossac\_titleblock.dat,
- helacblock.xml

As of HELiOS 2020 (version 2500.0), the mapping must also be set up manually here.

In case of an update, please contact the Consulting team of the ISD Group.

# Important notes for administrators during a HELiOS update installation working with the HELiOS integration for Inventor and AutoCAD!

When updating the database to HELiOS 2019 Service Pack 2 or higher, the old workspace is checked for documents in progress. These are documents with the pen symbol in the respective (old) workspace dialog, or entries of locked documents in the Workspace Manager from HELiOS Desktop (on the right hand side).

Should the check find relevant documents, the following message appears:

The update of the database cannot be performed because there are still locked documents in old local work areas which will not be supported in the future. After this update, only work areas with new administration are supported and automatic migration is not possible. More information can be found here.

### HELiOS Data base schema

As existing datasets with non-compliant conditions may cause conflicts during the central update process of the HELiOS delivery database, you should consider the following:

- Do a database backup: You should make sure that a backup of your HELiOS database has been created before the update. This can be done with the HELiOS Database Creator or via your SQL server application. Please contact the ISD hotline if you have any questions or need support for your individual system architecture.
- 2. The log file of the update: If any conflicts occur during the update, they are traced in the log file HeliosDbUpdate.txt (in the system path %appdata%\ISD Software and Systems\HeliosDbUpdate\). Have this file ready if you contact the ISD hotline for troubleshooting and successful updates.

#### Units for attributes when working with the HiCAD-HELiOS interface

If you work with the HiCAD-HELiOS interface and want to use interface-relevant units for attributes, then you must work with HiCAD 2022 (V 2700) or higher.

### Omission of the system files KSTEXT\_STDKOP.DLL and TEILHOST\_NEXT.EXE

As of HELIOS 2022 (V. 2700), the system file KSTEXT\_STDKOP.DLL and the executable file TEILHOST\_NEXT.EXE are omitted. Customer-specific adjustments to your system, in which these files were used, must therefore be adjusted again.

Please contact the Consulting team of the ISD Group.

#### Operating system

We recommend deactivating local licenses and network licenses before performing an update/upgrade of the operating system (e.g. from Windows 10 to Windows 11), and activating them again after successful update/upgrade of the operating system.

#### Discontinuation of Part insertion v26 (PE)

The old **Part insertion** function in Plant Engineering has now been completely replaced by the new **Part insertion** function. Therefore, the function **Part insertion v26** in Plant Engineering is no longer available as of HiCAD 2024 SP1.

#### Discontinuation of 3-D projection grid

As of HiCAD 2023, the 3-D projection grid function is no longer available.

### Discontinuation of old figure format (FIG)

The following notes regarding FIG-FGA conversion are unnecessary if HELiOS is used in conjunction with the HELiOS Vault Server.

Since HiCAD 2017 we support FGA as figure format (before that FIG). From HiCAD/HELiOS 2021 or HELiOS 2021 as an update for HiCAD 2019/2020 onwards, we require that all figures stored with HELiOS have been converted to the new FGA format beforehand. To convert existing 2-D FIG files, the tool Converter\_FIG\_To\_FGA.exe is available in the exe directory of the HiCAD installation.

If there are still unconverted FIG files in the HELiOS document database at the time of the database update, you will be informed of the outstanding conversion of these files before the database update. In this case, the conversion must be carried out before or at the latest directly after the update using Converter\_FIG\_To\_FGA.exe.

# Discontinuation of the "old" Create detail drawing function

With the release of HiCAD 2012, the previously valid workshop drawing functionality in Steel Engineering had been extended to a function for general drawing derivation. The previous functions for detail drawings in Steel Engineering were still available in the Detail drawing section of the Drawing menu. As of HiCAD 2022 (Version 2700.0) these functions are no longer supported.

# System Requirements

- HiCAD
  - Compatibility Matrix for Interfaced Applications (HiCAD)
- HiCAD Spooler
- HELiOS Database Server
- HELiOS Vault Server
- HELiOS Client
  - Compatibility Matrix for Interfaced Applications (HELiOS)
- HELiOS Spooler
- License Server
- Operation in Virtual Environments
- Further Requirements for Installation

# System Requirements for HiCAD

Here you will find the system requirements for operating HiCAD.

Minimum hard	ware requirements	
Computer	Generally, all hardware can be used enacting current drivers of applicable OS.	
	Please note that for instance the graphic-card drivers support OpenGL comman sequence.	
	Internet connection and adrive for the installation medium.	
Processor (CPU)	Intel or AMD processor with AVX2 and FMA support. This is the case for all processor generations from Intel Haswell (2013) or AMD Excavator (2015).	
Main memory	8 GB RAM	
Hard disk	approx. 20 GB free disk space	
Graphics card	A fully OpenGL 4.3-capable graphics card with at least 1 GB memory should be used.	
	You can check whether the graphics output requirements of your computer are sufficient for HiCAD with the <b>OpenGL Test</b> button (in the Installation Wizard > <b>Standard Edition</b> )	
	To avoid possible problems with onboard graphics cards, we recommend using a stand- alone graphics card	
Screen res- olution	1920 x 1080	
Operating sys- tem:	Microsoft Windows 10	
Other	For the output of reports, e.g. Sheet Metal cost calculations, you require Microsoft Office.	

There are no further requirements for the installation of the **HiCAD version with License Management**; the legal licensing check is performed during runtime.

Examples of su	itable hardware components for HiCAD	
Computer:	HP Workstation Z2 G9	
Processor	Intel® Core™ i7-13700K 16 Core 3,4 GHz (24MB Cache) max. Turbo 5,4 GHz	
(CPU):	SingleCore Benchmarks that can be found on various websites may help you with the choice of the processor. Example:	
	https://www.cpubenchmark.net/singleThread.html	
Main memory:	64GB DDR5 nECC / 4800 MHz	
	For optimal performance with large drawings, the system should have significantly more main memory than is apparently necessary for HiCAD.	
	When converting point clouds, the memory requirement is often significantly greater than when using the converted point cloud in HiCAD.	
Hard disk:	HP Z Turbo Drive 1TB NVME M.2 SSD	
Graphics card:	NVIDIA® Quadro RTX A4000 16GB GDDR6 graphics memory	
	Alternatives: NVIDIA® RTX 3070, AMD Radeon PRO W6600, AMD Radeon RX6600	
	When working with point clouds, at least 16 GB of graphics memory is recommended.	

Examples of su	Examples of suitable hardware components for HiCAD		
Screen res- olution:	Working with a high screen resolution is only possible to a limited extent. Resizing of text ("Enlarge text") is not recommended.		
Operating sys- tem:	Microsoft Windows 11		
Others:	For the output of reports, e.g. Sheet Metal cost calculations, you require Microsoft Office.		

The interfaces available for the HiCAD can be found in the compatibility matrix.

# Dease note:

- For the connection to Sentinel License Server, the Firewall of the UDP Port 5093 License Server must be released for in- and outcoming connections; for the Windows Firewall, the port release is executed automatically by activating the respective option in the installation program of the License Server.
- As of HiCAD 2024 SP2, Microsoft Windows 10 N and Microsoft Windows 11 N are no longer supported.
- If you use network licenses, use the operating systems indicated in the System Requirements for the License Server.
- Internet access is necessary for the computer/server via which the licenses are managed!
- In addition, you need one of the database systems listed under Hardware Requirements for the HELiOS Database Server when using HELiOS.
- If you encounter any kind of display problems, please check if your graphics card driver is up-to-date first. If it is not, update to the current driver.

# Compatibility Matrix for Interfaces Applications (HiCAD)

Listed below you find an overview of the interfaces that are available for HiCAD:

	HiCAD 2024	HiCAD 2023	HiCAD 2022
Operating system			
Microsoft Windows*			
* As of HiCAD 2024 SP2, Windows 10 N and Windows 11 N are no longer supported.			
Windows 11, 64 Bit	~	~	✓ (as of SP1)
Windows 10, 64 Bit	$\checkmark$	$\checkmark$	$\checkmark$
Windows 8.1, 64 Bit or older	×	×	×
PDM system			
HELIOS 2024	$\checkmark$	$\checkmark$	$\checkmark$
HELIOS 2023	×	$\checkmark$	$\checkmark$
HELIOS 2022	×	×	$\checkmark$
HELIOS 2021	×	×	×
HELiOS 2020 or older	×	×	×
Interfaces			
LogiKal 12	$\checkmark$	$\checkmark$	$\checkmark$
LogiKal 11	$\checkmark$	$\checkmark$	$\checkmark$
LogiKal 10	$\checkmark$	$\checkmark$	$\checkmark$
LogiKal 9	×	×	×
PartSolutions 8 to 11	×	×	$\checkmark$
KISSoft 03/2017 up to 03/2024	$\checkmark$	$\checkmark$	$\checkmark$
CADClick 3.0	$\checkmark$	$\checkmark$	$\checkmark$
Microsoft Office *			
*If communication between Microsoft Office and HiCAD takes place via the COM interface, then both must have the same Bit version (64/64 Bit). Otherwise problems may occur in connection with VBA, e.g. when creating/editing Excel BOMs.			
Office 2021	$\checkmark$	$\checkmark$	$\checkmark$
Office 2019	$\checkmark$	$\checkmark$	$\checkmark$

	HiCAD 2024	HiCAD 2023	HiCAD 2022
Office 2016	$\checkmark$	$\checkmark$	$\checkmark$
Office 2013	$\checkmark$	$\checkmark$	$\checkmark$
Browsers			
Internet Explorer 9 - 11	$\checkmark$	$\checkmark$	$\checkmark$
Edge	1	$\checkmark$	$\checkmark$
Mozilla Firefox	✓	$\checkmark$	$\checkmark$
Google Chrome	$\checkmark$	$\checkmark$	$\checkmark$

The X symbol does not always mean that the respective product is not compatible. It can also mean that the interactions between this product and the HELiOS Client have not been sufficiently tested by the ISD yet.

# System Requirements for the HiCAD Spooler

The system requirements for Spooler are identical to those for a normal HiCAD Client (please see System Requirements for HiCAD). The RAM should be at least as large as the RAM for the existing HiCAD Clients. The reason for this is that the Spooler must be able to perform, besides automation tasks, various other tasks such as the conversion of HiCAD drawings (to 3D-PDF or similar). The HiCAD Spooler runs on a separate Plot Server System.

In a combined operation of HiCAD and HELiOS, the HiCAD Spooler is driven by HELiOS Spooler. You can find further instructions for installing HELiOS Spooler running on the same system as the HiCAD Spooler in HELiOS Help.

Besides the Client operating system Windows 10 you can also use the Server operating systems Windows Server 2016 or newer. Whether a Server operating system needs to be used depends on the licensing conditions for the Microsoft operating system that you use. The decisive factor is the number of permitted simultaneous device connections.

Windows 10 allows 20 simultaneous connections. This will be sufficient for 20 Print Clients, if all of them are actually running at the same time. Please note however that each connection from a non-HiCAD/HELiOS work-station will reduce this number.

# Please note:

- The HiCAD Spooler runs on a separate Plot Server system.
- For HiCAD 2021 the minimum requirements for OpenGL have been increased to 4.3. This leads to installations of the HiCAD Spooler (e.g. on virtual machines) being aborted because the minimum requirements are not met. From HiCAD 2601.0, if the minimum requirements are missing, individual graphics components are replaced by adapted components during the Spooler installation, so that the Spooler can then also be run on systems that do not support OpenGL 4.3.

# System Requirements for the HELiOS Database Server

The requirements with regard to the hardware primarily depend on the specifications given by the respective RDBMS supplier (Microsoft). Currently, following operating systems are supported:

	HELiOS 2024	HELIOS 2023	HELiOS 2022
Microsoft SQL Server 2022	$\checkmark$	$\checkmark$	×
Microsoft SQL Server 2019	✓	<b>√</b>	✓
Microsoft SQL Server 2017	<b>√</b>	$\checkmark$	✓
Microsoft SQL Server 2016	$\checkmark$	$\checkmark$	$\checkmark$
Microsoft SQL Server 2014	$\checkmark$	$\checkmark$	1
Microsoft SQL Server 2012	✓	$\checkmark$	✓
Microsoft SQL Server 2008 or older	×	×	×

In addition, the following minimum requirements should be guaranteed for the main memory and hard disk:

	HELIOS 2024	HELIOS 2023	HELIOS 2022
Main	Additionally at least 4 GB main memory.		
memory	With an increasing database size the working memory should be enlarged in order to guar- antee optimal performance.		
Hard disk	Additionally at least 10 GB hard disk memory.		
	The actual demand depends on the size of the database.		

# Please note:

- The use of virtual servers is essentially possible. Please consider to grant sufficient performance within the virtual environment.
- On the database server, HELiOS data base should be imported beforehand, for example via HELiOS Database Creator, so that clients can connect with the database.
- SQL Server Standard vs. SQL Server Express As of late, the productive use of SQL Server Express is possible. Please note that SQL Express has limited storage size (10 GB) for each data base and provides weaker performance than SQL Standard, especially on powerful hardware. If well-equipped hardware is used for the server (multiple processors and plenty of RAM), the SQL server thwarts the performance again. On regular desktop hardware the difference between SQL Express and SQL Standard is smaller due to the accordance of express limits and system. A detailed comparison of the different SQL Server editions can be found on the manufacturer's website.

# System Requirements for the HELiOS Vault Server

### The minimum requirements are as follows:

	HELIOS 2024	HELIOS 2023	HELIOS 2022
Processor (CPU)	64 Bit processor		
Main memory	Additionally at least 4 GB main memory		
Hard disk	The required hard disk space depends on the volume of arising data use (files). A safety margin should be considered. For optimal performance we recommend using an SSD drive.		
Operating sys- tem	Microsoft Windows 10 or Microsoft Windows Server 2016 or higher		



- If you work with only interfaces to HiCAD and/or Microsoft Office, the use of HELiOS Vault Servers is optional. Other interfaces must be used in conjunction with the HELiOS Vault Server.
- The needed hard disk space can also be distributed on multiple volumes.
- We recommend the use of RAIDs in order to ensure failsafe performance.

# System Requirements for the HELiOS Client

The minimum requirements for the HELiOS Client are as follows:

	HELiOS 2024	HELIOS 2023	HELIOS 2022
Processor (CPU)	64 Bit processor		
Main memory	Additionally at least 4 GB main memory		
Hard disk	Additionally at least 2 GB free hard disk memory		
Operating system	Microsoft Windows 10 or Microsoft Windows Server 2016 or higher		

The interfaces that are available for the HELiOS Clientare listed in a Compatibility Matrix.

# Please note:

- When linking a HELiOS Client to other applications such as a CAD system or office product, the minimum requirements of the respective system manufacturer must also be observed.
- If you want to use an integrated viewer, the hardware requirements of respective viewer manufacturer must be considered.
- Using the HiCAD Viewer in HELiOS from Version 2024
  - During the HiCAD installation ("HiCAD and HELiOS", red installation dialogue), the Active X component of the HiCAD Viewer is automatically installed. This enables the preview of HiCAD files in HELiOS.
  - On workstations on which only the HELiOS Desktop (standalone) is installed, the HiCAD Viewer must be installed separately from HELiOS 2024 and updated if necessary. This is also the case if only HELiOS is updated when using an older HiCAD version with HELiOS. Otherwise, the preview of HiCAD files cannot be displayed in HELiOS. You will find the installation of the HiCAD Viewer both on the yellow installation medium at Tools > HiCAD Viewer and at Download Area > Tools Download.

With HELiOS 2024 the HEL\_PREVIEW.INI settings file for the Viewer has also changed, which enables the configuration of the graphics windows in the HELiOS Desktop. If you want to make special settings in HEL\_PREVIEW.INI, you should make these based on the new version that is also used for the new installation. You can find a description here.

- Before starting a HELiOS Client, you need a HELiOS Database Server and an appropriately configured ODBC connection. Documents (in .pdf format) on installing the database system and importing and exporting the database can be found here.
- 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.

# Compatibility Matrix for Interfaced Applications (HELiOS)

Below you find a list of possible interfaces for the HELiOS Client:

	HELiOS 2024	HELIOS 2023	HELiOS 2022
Operating system			
Windows 11, 64 Bit	$\checkmark$	$\checkmark$	🖌 (as of SP1)
Windows 10, 64 Bit	$\checkmark$	<b>√</b>	$\checkmark$
Windows 8.1 or older	×	×	×
Server Operating system			
Windows Server 2022	$\checkmark$	$\checkmark$	🗸 (as of SP1)
Windows Server 2019	$\checkmark$	$\checkmark$	$\checkmark$
Windows Server 2016	$\checkmark$	$\checkmark$	$\checkmark$
CAD system			
HiCAD 2024	<b>√</b>	×	×
HiCAD 2023	$\checkmark$	$\checkmark$	×
HiCAD 2022	$\checkmark$	$\checkmark$	$\checkmark$
HiCAD 2021	×	$\checkmark$	$\checkmark$
HiCAD 2020	×	×	$\checkmark$
HiCAD 2019 or older	×	×	×
AutoCAD (Mechanical) 2024	<b>√</b>	✓ (as of SP2, Patch 1)	✓ (as of SP2, Patch 3)
AutoCAD (Mechanical) 2023	1	✓	<ul><li>✓ (as of SP2, Patch 1)</li></ul>
AutoCAD (Mechanical) 2022	$\checkmark$	$\checkmark$	$\checkmark$
AutoCAD (Mechanical) 2021	$\checkmark$	$\checkmark$	$\checkmark$
AutoCAD (Mechanical) 2020	×	$\checkmark$	$\checkmark$
AutoCAD (Mechanical) 2019	×	×	$\checkmark$
AutoCAD (Mechanical) 2018 or older	×	×	×
Inventor 2024	✓	✓ (as of SP2, Patch 1)	(as of SP2, Patch 3)

	HELiOS 2024	HELiOS 2023	HELiOS 2022
Inventor 2023	~	✓	(as of SP2, Patch 1)
Inventor 2022	$\checkmark$	$\checkmark$	$\checkmark$
Inventor 2021	$\checkmark$	✓	$\checkmark$
Inventor 2020	×	$\checkmark$	$\checkmark$
Inventor 2019	×	×	$\checkmark$
Inventor 2018 or older	×	×	×
Navisworks 2023			
Navisworks 2023	<b>V</b>	<ul><li>✓ (as of SP2, Patch 1)</li></ul>	✓ (as of SP2, Patch 3)
Navisworks 2023	$\checkmark$	$\checkmark$	×
Navisworks 2022	1	$\checkmark$	$\checkmark$
Navisworks 2021	✓	$\checkmark$	$\checkmark$
Navisworks 2020	×	✓	$\checkmark$
Navisworks 2019	×	×	$\checkmark$
Navisworks 2018 or older	×	×	×
CAE-SYSTEM			
EPLAN Electric P8 2023	$\checkmark$	🗸 (as of Patch 3)	×
EPLAN Electric P8 2022	1	✓	(as of SP2, Patch 1)
EPLAN Electric P8 2.9	✓	✓	$\checkmark$
EPLAN Electric P8 2.8	✓	✓	$\checkmark$
EPLAN Electric P8 2.7	✓	✓	$\checkmark$
EPLAN Electric P8 2.6	✓	✓	<b>√</b>
EPLAN Electric P8 2.5	✓	✓	$\checkmark$
EPLAN Electric P8 2.4	✓	$\checkmark$	$\checkmark$
OFFICE			
Office 2021	$\checkmark$	$\checkmark$	🗸 (as of SP1)
Office 2019	✓	✓	$\checkmark$
Office 2016	✓	<b>√</b>	<b>√</b>

	HELiOS 2024	HELiOS 2023	HELiOS 2022
Office 2013	$\checkmark$	$\checkmark$	$\checkmark$
Office 2010 or older	×	×	×

The X symbol does not always mean that the respective product is not compatible. It can also mean that the interactions between this product and the HELiOS Client have not been sufficiently tested by the ISD yet.

# System Requirements for the HELiOS Spooler

### The minimum requirements for the HELiOS Spooler are as follows:

	HELIOS 2024	HELiOS 2023	HELIOS 2022
Processor (CPU)	64 Bit processor		
Main memory	Additionally at least 4 GB ma	in memory.	
	client systems used. This en	e dimensioned at least as larg sures that all data to be proce e client systems to the HELiO	
Hard disk	Additionally at least 4 GB free	e hard disk memory	
Operating sys- tem	Microsoft Windows 10 or Mic	rosoft Windows Server 2016 c	or higher

# Please note:

- The HELiOS Spooler requires corresponding locally installed CAD, E-Tech or Office applications to execute the plot or conversion jobs. Please consider that you need appropriate licenses for the operation of these applications and that the hardware requirements of the respective system provider must be taken into account accordingly.
- The applications used by the HELiOS Spooler to process print and conversion jobs must be exclusively available to the Spooler and must not be used by other applications or HELiOS installations used simultaneously. Otherwise, job processing may be cancelled.
- In addition to the client operating systems for Windows, the above-mentioned server operating systems can also be used. Whether a server operating system must be used depends on the license conditions for the Microsoft operating system you are using. The number of permitted simultaneous device connections is decisive here. Windows 10 allows 20 simultaneous logins to the operating system. In this case, you must ensure that, in addition to the existing logins, there are sufficient free logins left that can be used by the respective print clients of the client computers.

# System Requirements for the License Server

The minimum requirement for running a license server is as follows:

	HiCAD/HELiOS 2024	HiCAD/HELiOS 2023	HiCAD/HELiOS 2022
Processor (CPU)	X86 or AMD64 Architecture	э.	
	Recommended: 2 GHz Pro	ocessor	
Main memory	Additionally at least 1 GB r	nain memory	
Hard disk	Additionally at least 2 GB free hard disk memory		
Operating system	Microsoft Windows 10 or M	licrosoft Windows Server 20	16 or higher

We use the Software Sentinel RMS© from Thales© for licensing. The license server is in principal a 32 Bit application.

# Please note:

- The license server need not be installed on a separate server or server operating system.
- A static IP address is required for the correct operation of a license server. When using a virtual server, a static MAC address is required.
   The use of a cloud server is only possible if changes to the underlying hardware can be excluded by the cloud provider. This also includes that the provider does not move the virtual server to another physical machine.
- The license server must not be installed on the same computer with HELiOS Desktop, because both products share system information with regards to the licensing.
- Internet access is needed for the license server due to activation and deactivation.
- A Windows Server Core installation is not supported.

# **Operation in Virtual Environments**

# **HELiOS Client**

Generally, the HELiOS Client can be operated on Virtual Machines (VM). If you use integrated viewers, the hardware requirements of the respective viewer manufacturer must be considered.

The HELiOS Client can also be used as a terminal application.

# **HELiOS Spooler**

Generally, the HELiOS Spooler can be operated on Virtual Machines (VM). However, limitations may occur with regard to simultaneously installed CAD system, electrical engineering software or Office applications.

With regard to graphics functionality, performance and integration of printers, too, limitations may occur in virtual environments.

### **License Server**

The license management system based on Sentinel RMS<sup>©</sup> by the company Thales<sup>©</sup> can, generally, also be used in virtual environments.

The use of a cloud server is only possible if changes to the underlying hardware can be excluded by the cloud provider. This also includes that the provider does not move the virtual server to another physical machine.

## Network licenses on Virtual Machines (VM)

If you want to use/activate/deactivate the network licenses on virtual machines, please observe the following points:

- A static MAC address is required
- A static IP address is recommended or required when using Commuter Licenses
- Before copying or changing a virtual machine, deactivate the network licenses, since the UUID (Universal Unique IDentifier) of the VM will change due to the copying process, and cannot be deactivated afterwards any more. This also applies to the starting of the VM on a different host.

# Further Requirements for Installation

- Microsoft .NET Framework and Visual C++ Runtime Libraries need to be installed on the computer before HiCAD/HELiOS can be used; these packages will be installed as part of the HiCAD/HELiOS installation if required.
- To be able to work with HELiOS, a database system must be available that has been prepared for HELiOS. For this you require
  - A Microsoft SQL Database Management system on your Server,
  - A HELiOS database imported with the HELiOS Database Creator and
  - An ODBC connection on the Clients.

Documents (in .pdf format) describing the installation procedure for the database system and the import and export of the database can be found here.

# Installation

The installation medium (e.g. ISO file from the Download area) contains the installation files for:

- HiCAD
- HiCAD Online Help
- HiCAD Viewer
- HiCAD Spooler
- HELiOS Database Creator (required when creating a HELiOS database for the first time, and for importing or exporting an existing database)
- HELiOS Vault Server
- HELiOS Client (HELiOS Desktop, Standalone)
- HELiOS Spooler
- HELiOS Server Monitor
- HELiOS Task Starter
- Trial Edition (Demo version)
- Education Edition (for students)
- Silent Installation
- Postscript printer driver (required for the output of multiple views in a PDF file)

# Important note on the scope of installed modules!

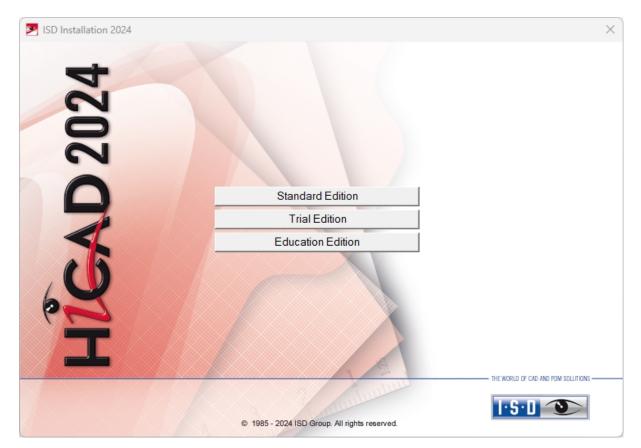
The scope of modules that will be installed depends on the product that was purchased. This means that not all modules described in the installation manual may be included in your software version.

It is mandatory for the installation of HiCAD to start the **setup.exe** file from the root directory of the ISO file; only in this way it is ensured that the version will recognize the operating system, and that the matching HiCAD-/HELiOS version will be installed.

# Please note:

You can conveniently download the current HiCAD/HELiOS version in the Download Area.

After running the **setup.exe** file, the following dialogue will be displayed:



Click on the Standard Edition button. This will open the following selection mask:

Installation Documents	Client Installatio
HiCAD - Installation Notes	HiCAD and HELiOS
OpenGL Test	HiCAD Viewer
Program support	HELiOS
The installation of the Help files is only required if there is no Internet connection.	PostScript Printer
HiCAD and HELiOS Help	
HiCAD Viewer Help	
HELiOS Desktop Help	Server Installation
Administrator Tools	HELiOS Spooler
This component may only be installed on the License Server!	HiCAD Spooler
License-Server	HELiOS Vault Server
HELiOS Database Creator	
FIG-FGA Converter	

Leave this selection mask open, so that you can select the desired components one after the other.

## Discontinuation of Windows® 7 and Windows® 8

Microsoft® has discontinued support for the Windows® 7 operating system in January 2020. For compatibility reasons, HiCAD 2020 SP2 and HELiOS 2020 SP2 were the last versions of our CAD or PDM system to support Windows© 7. HiCAD 2021 and HELiOS 2021 no longer run under Windows© 7, Windows© 8 and the corresponding server operating systems (Windows Server 2008 R2, Windows Server 2012 and older) are also no longer supported. If an attempt is made to install HiCAD 2021 or HELiOS 2021 on a computer with Windows© 7 or Windows© 8, a message appears.

😵 Not support	ed operating system	1
	Software of the ISD Software und Systeme GmbH is not supported on this operating system and can therefore not be installed.	
<u> </u>	Information about supported operating systems can be found at the following link:	
	<u>System requirements</u>	
	Cancel	

# Installation von HiCAD

To install HiCAD, start Windows. If Windows has already been started, close all other applications and start the installation wizard. In the installation wizard, click on the **Standard Edition** button. This will open the following selection mask. Leave this selection mask open, so that you can select the desired components one after the other.

Micad 2024 (2900.0	x64), HELiOS 2024 (2900.0 x64) DB Version 285		×
_			
T	Installation Documents	Client Installations	
N	HiCAD - Installation Notes	HiCAD and HELiOS	
202	OpenGL Test	HiCAD Viewer	
$\sim$	Program support	HELIOS	
	The installation of the Help files is only required if there is no Internet connection.	PostScript Printer	
	HiCAD and HELiOS Help		
	HiCAD Viewer Help		
	HELiOS Desktop Help	Server Installations	
e K	Administrator Tools	HELiOS Spooler	
	This component may only be installed on the License Server!	HiCAD Spooler	
P	License-Server	HELiOS Vault Server	
	HELiOS Database Creator		
	FIG-FGA Converter		
		THE WORLD OF CAD AND PDM SOLUTIONS	
	To be able to read the Getting Started guides you require the Ado © 1985 - 2024 ISD Group. All rights re		

Click on the HiCAD and HELiOS button to start the installation.

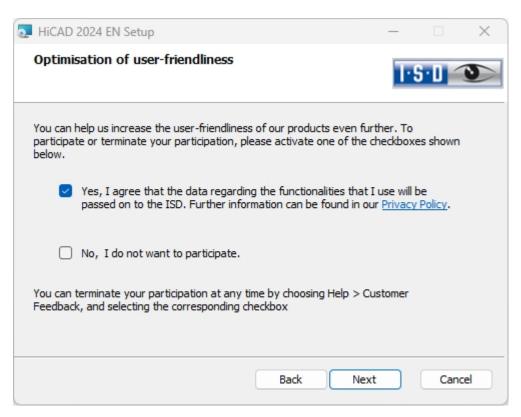
Before using HiCAD/HELiOS, **Microsoft .NET Framework** and the **Visual C++ Runtime Libraries** must have been installed on the computer; these packages will be installed as part of the installation if required.



Please read the Installation Notes and the Licence Agreement carefully.

HiCAD 2024 EN Setup		_		×
Destination Folder Please select the installation folder		I	·S·D	5
Install HiCAD 2024 EN to:				
C:\HiCAD\ Change				
	Back	Next	Cano	el

Select an installation directory.



You can help us increase the user-friendliness of our products even further. To participate or terminate your participation, please activate the corresponding checkbox.

In the dialogue window, our notice on collection of data for constant GUI optimization can be opened.

You can terminate your participation at any time by choosing **Help > Customer Feedback**, and activating the corresponding checkbox.

## Data Protection notice: Collection of Data for Constant GUI Optimisation

You can help us increase the user-friendliness of our products even further. If you participate, the ISD will collect information on your use of our software, in order to detect trends and use patterns. This information will then be used for a constant optimisation of our user interface, with the aim to make the operation of our software as convenient and efficient as possible for our users.

The collected information

- Contains data on the functions that you used (frequency and chronological order).
- Contains a key enabling the identification of your computer. It does not contain any personal data, and will not be used to detect your identity. The key will only be used to obtain data on the diffusion rate of customer feedback. For instance, it is important to know whether a functionality has been used 100 times by 1 customer, or whether another function has been used only once by 100 customers etc.
- Will be automatically removed after transmission to the ISD. In case of a failed transmission (e.g. because of network problems) the information will be automatically removed after 1 week at the latest when the program has been re-launched.
- Will not cause a slowing down of the program operation.

The ISD will not

- Store your name, address, or any other personal data.
- Ask any further questions besides asking for your consent to the participation.
- Use the data for any other purposes than those described above.
- Contact you in any form in connection with your participation.

You can choose to participate when installing the product for the first time. To terminate your participation at a later time, choose **Help > Customer Feedback**, and select the corresponding option.

🔁 HiCAD 2024 EN Setup	– 🗆 🗙
Parameter configuration Selection of standard configuration template	I-S-D D
Regional setting  metrical  imperial  Module  Mechanical Engineering  Steel/Metal Engineering  Plant Engineering  Attribute configuration acc. to DSTV	Font HiCAD Arial ISOCPEUR Drawing Management
HiCAD / HELiOS Default Solution	
E	ack <u>N</u> ext Cancel

For different drawing areas HiCAD offers especially adjusted surfaces and configurations, e.g. for Mechanical Engineering, Steel Engineering and Plant Engineering. These can be selected during the installation of HiCAD. If you choose **imperial** as the **Regional setting**, then the system automatically switches to imperial, i.e. non-metric units. This applies to the units of your drawings, dimensions and scales. In addition, further drawing frames are available.

Depending on the parameter configuration the saved settings in the CSV file will be applied, too. The CSV file contains information on e.g. which files (e.g. HiCAD part masks or template files for labels) should be copied into the sys directory. In case of an update different system files in the HiCAD sys directory will be replaced - without further inquiry - by file supplied in the HiCAD templates directory, which are specifically adjusted to the chosen modules and activated checkboxes (e.g. DSTV or Drawing Management).

Via **Extended Settings** you can change the parameter configuration once more and select your own template files.

Select a module for the parameter configuration and click Next.

THICAD 2024 EN Setup	—		×
Ready to install HiCAD 2024 EN		5·D _	
Click Install to begin the installation. Click Back to review or chang installation settings. Click Cancel to exit the wizard.	ge any of yo	ur	
Extended settings			
Back Insta	all	Can	cel

You can now start with the installation or modify the **Extended Settings**, e.g. for the user configuration, the catalogues, or HiCAD with HELiOS.

#### Please note the following important information:

If a network path is specified on the tabs **User Configuration**, **Catalogue** or **LogiKal interface**, please make sure that not the connected network paths (e.g. H:\Data\HiCAD\_Katalog) are specified here, but the **direct UNC paths** to the respective server, e.g. \\Server01\Data\HiCAD\_Katalog.

This is because the user, e.g. the system administrator performing the installation, in contrast to the user using HiCAD, may not have connected the required network drives (in the above example: H:\). In such a constellation, these paths cannot be set up correctly by the installation.

In contrast, UNC paths are available in the same form to both users - provided that both users have access.

HELiOS Interfaces		LogiKal Interfa	ace		General			
User Configuration	1	Catalogue		ŀ	IELiOS			
onfiguration database	C:\Progr	amData\ISD Softw	are und Syste	eme\Hi	CAD 2024	4\1		
	✓ Insta	ll database						
arameter configuration	Defail	ult templates 🛄						
	⊖ Own	templates	Regiona	al setti	ng			
			• met	rical				
			⊖ imp	erial				
			Module					Font
					Enginee	-		○ HiCAD
					Enginee	ring		Arial
			O Plant	t Engin	eering			ISOCPEUR
			🗌 Attrib	oute co	nfiguratio	n acc. to	DSTV	Drawing Management
			🖌 Hical	D / HEL	iOS Defa	ult Soluti	on	
			🖌 Novia	e conf	guration			
		ļ				_	_	

In the **Configuration Database**, customer-specific settings for various features such as dimensioning, annotations, workshop drawing creation or fitting of vertical ladders are stored. When performing an update, **customer-specific settings** can be applied. In addition, values that have not been modified by the user will automatically obtain the updated pre-settings.

In the Parameter configuration you can modify previously activated default templates. Moreover, you can select CSV files via **Own templates**. The settings stored in the CSV file, too, will be applied. In a CSV file it is, amongst other things, specified which files (e.g. HiCAD part masks or template masks for annotations) are to be copied to the sys directory. When performing an Update, various system files in the HiCAD sys directory will be replaced with the files supplied in the HiCAD templates directory which have been designed especially for a working with the selected module and the activated checkboxes (e.g. ...DSTV or Drawing Management). The standard CSV files are located in the templates directory of the HiCAD installation. CSV files are configuration templates that you can create and edit with Microsoft Excel (please see Online Help).

Parameter configuration: **No templates** is activated by default in Parameter Configuration. You can also change this setting subsequently, via the programs ..exe/ParKonfigComp.exe (for the workstation) and ..exe/ParKonfigUser.exe (for the User).

Extended settings		- 🗆	$\times$
HELiOS Interfaces	LogiKal Interface	General	
User Configuration	Catalogue	HELIOS	
Catalogue directory	C:\HiCAD\Kataloge Copy catalogues to default	directory	
✓ Execute CatalogueMaker	DIN ISO Interactive		~
Execute Catalogue Update	Previous version Interactive Overwrite write protected fi Retain own settings Delete backup copies Show log	iles	
	OK Save Cancel		

The execution of the **CatalogueMaker** serves the purpose of specifying which standard series are to appear in the standard part catalogues (currently standard series are available for DIN, ISO, EN, ANSI and JIS); the selection of standards in the **CatalogueMaker** only influences the display of standard parts, but not their availability; the availability is still controlled via license selection in the **ISD License Manager**.

The **CatalogueUpdate** tool is used to update the catalogues during an update installation. It can be started automatically during the update installation by activating the option **Execute CatalogueUpdate**. You can also start the tool later from the EXE directory of your HiCAD installation, e.g. if you want to exchange catalogues among customers.

Extended settings			×
HELiOS Interfaces	LogiKal Interface	General	
User Configuration	Catalogue	HELiOS	
System data source	HeliosBauteil		
User	hicad		
Password	••••		
✓ Use Vault Server ✓ Use Spooler	Address localhost	9000 35725	
Saving of configuration files	<ul> <li>Use local (computer-s</li> <li>Use central directory f</li> <li>data</li> </ul>	-	
Configuration file		 	
0	K Save Cancel		

In case of a new installation you can specify an arbitrary name for the system data source. In case of an update, the existing data source will be offered. **User** and **Password** will be identical with the ODBC login.

If you use a Vault Server, activate the **Vault Server** checkbox. Enter the name of the Server in the **Address** input field, and the Server Port of the Vault Server in the **Port** input field. You already entered both during the installation of the Vault Server.

If you have not installed the Vault Server yet, you can do this now: Choose HELiOS Options > Database > Gen-

eral > Vault Server and specify the connection. For activation you must then restart the HELiOS Desktop.

During an update installation it will be checked whether the existing HELiOS version is newer than the one on the DVD. If this is the case, the HiCAD installation will only update the non-HELiOS files. The HELiOS files are those that would be supplied by a standalone installation of the HELiOS Desktop, minus the hicadcommons contained therein.

If you want to process your print jobs via the ISD **Plot Management**, you need to install one **PrintClient** on each workstation. Activate **Use Spooler**. In the Server field, enter the network name of the computer on which the Spooler is installed. The **Port** is used for communication between Client and Spooler as well as for monitoring via the Server Monitor. The Spooler collects the print jobs and processes them, taking your settings into account.

Individual settings of HELiOS can be distributed to other users or workstations. To do this, create a ZIP file in

the HELIOS Client via the HELIOS icon **HELIOS Options > Manage... > Export settings**.

During installation, if the option **Use central directory for configuration data (across computers)** is activated, you can save the configurations of the HELiOS Desktop to a central computer and select and import them at **Configuration file**.

Extended settings		- 🗆 X
User Configuration	Catalogue	HELIOS
HELiOS Interfaces	LogiKal Interface	General
<ul> <li>Microsoft Office<sup>®</sup></li> <li>Excel 2013</li> <li>Outlook 2013</li> <li>PowerPoint 2013</li> <li>Word 2013</li> <li>Sonstige</li> <li>AutoCAD<sup>®</sup></li> <li>EPLAN<sup>®</sup></li> <li>Inventor<sup>®</sup></li> <li>Navisworks<sup>®</sup></li> </ul>	Nicht installiert Nicht installiert Nicht installiert Nicht installiert	
✓ Use 32Bit Report Manag	ger (only needed for old BOM t	emplates)
	OK Save Cancel	

The availability of interfaces with HELiOS depends on the programs that are installed on your computer. You can only link 64-Bit versions to HELiOS 64-Bit versions. Please note however that an additional, special ODBC connection will be required for old BOMs. In such cases, please contact the ISD Consulting team.

Multiple selections of HELiOS Interfaces are also possible. The HELiOS functions will be integrated in the programs that are linked to HELiOS.

1 Please	e note:				
Integration		of		shared	networks
	•	•	•	• •	er C: (for the Szenen dir- e entire UNC path accord-
ing	to	the	pattern	C:\\serverna	me\ShareName\Directory.
The filegrup	.dat can be	found in the HiCAD	D/HELiOS installation	on in the HiCAD e	xe directory and in case of
			Synchronisation Se ELiOS exe director		ELiOS Standalone install-
	-grup.uat cai			у.	

Extended setting	gs			$\times$
User Config	guration	Catalogue	HELiOS	
HELiOS Inte	rfaces	LogiKal Interface	General	
LogiKal directory	C:\LOGIKAL			
	OK	Save Cancel		

If you have installed **LogiKal** on your computer, you can enter the installation directory here.

# Please note:

In HiCAD, at Settings > Further directories you can set the paths for the database of the Configuration Editor, the Catalogue Editor and LogiKal. These paths are located in the Windows Registry at HKEY\_ LOCAL\_MACHINE\SOFTWARE\ISD Software und Systeme\HiCAD\nnnn.n. nnnn.n is the HiCAD version number, e.g. 2900.0.

Extended settings						×
User Configurat	ion	Catalogu	e		HELiOS	
HELiOS Interface	s	LogiKal Interf	ace		General	
Installation directory	C:\HiCAD	)\				
installation an ectory		te-Installation				
✓ Activate license adr	ninistratio	on tools				
Activate ISD Update	e Service					
Create context mer		Windows Explorer fo	or saving fi	les in <mark>H</mark> El	iOS.	
	C	OK Save Cano	:el			

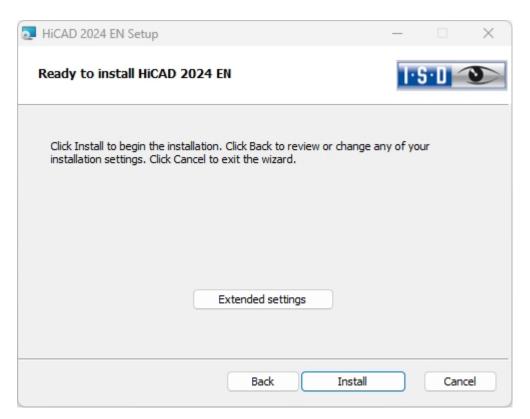
The Activate license administration tools checkbox must be activated for the management of server licenses.

If you checkmark the Activate ISD Update Service option, a Hotfix will be searched on the ISD Web Server when you start HiCAD. You can also activate this option subsequently via the Windows Control Panel: There, choose **Programs and Features**, right-click on **HiCAD** and choose **Change**.

If you want the function **Save to HELIOS** to appear in the context menu of Windows Explorer, activate the checkbox **Create context menu entry in Windows Explorer for saving files in HELIOS**.

Click **Save** to save the **Extended settings** to an .ini file. If you place the .ini file in the installation directory when installing server licenses, the settings will be applied.

As soon as you exit the Extended settings dialogue with OK, the installation will be started.



#### Click Install.





Click **Finish** to complete your HiCAD installation. After successful installation you will find the HiCAD shortcut on the Desktop of your computer for program start.

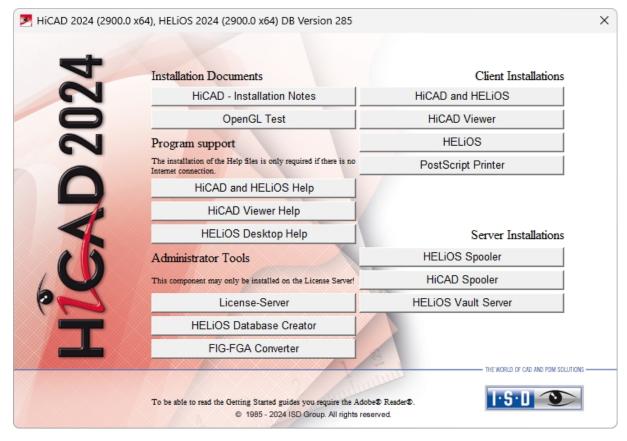
If desired, you can use the buttons of the installation mask to install further software components.

### Installing the Online Help

The Online Help is available locally (status of the date of installation DVD creation) and on the Internet (regularly updated) at www.help.isdgroup.com. Both versions of the Help can be directly launched from HiCAD/HELiOS. Please note that corresponding login data are required to access the Internet version of the Help.

Start Windows to install the Help. If Windows has already been opened, close all other applications and start the installation wizard.

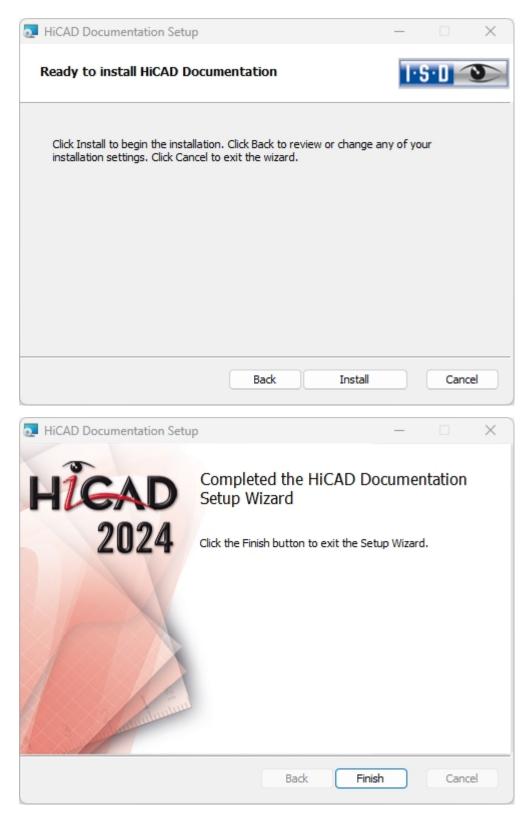
In the installation wizard, click the **Standard Edition** button, which opens a mask with various selection options for software components. Leave the selection mask of the installation wizard open, so that you can select the desired components one after the other.



Click on the HiCAD and HELiOS Help button.



Enter the installation directory for HiCAD/HELiOS.



After successful installation, the Help can be found in the program folder and can be called from HiCAD/HELiOS .

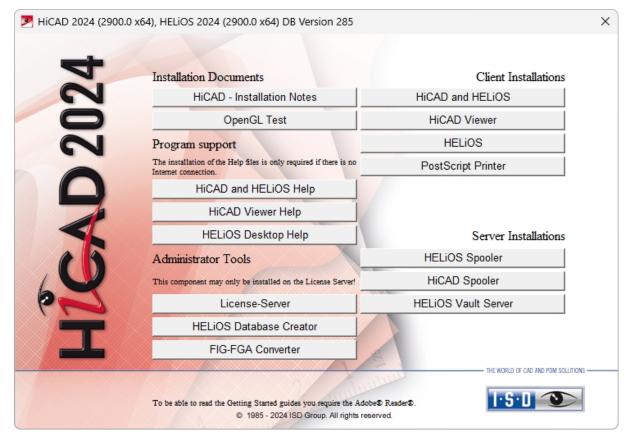
## Installing the HiCAD Viewer

The HiCAD Viewer enables you to view drawings in HiCAD format (\*.sza, \*.szx) and output these drawings (in non-scale representation). This viewer is free of charge and may be provided free, without changing the scope of delivery.

Start Windows to install the HiCAD Viewer. If Windows has already been opened, close all other applications and start the installation wizard.

In the installation wizard, click the **Standard Edition** button, which opens a mask with various selection options for software components.

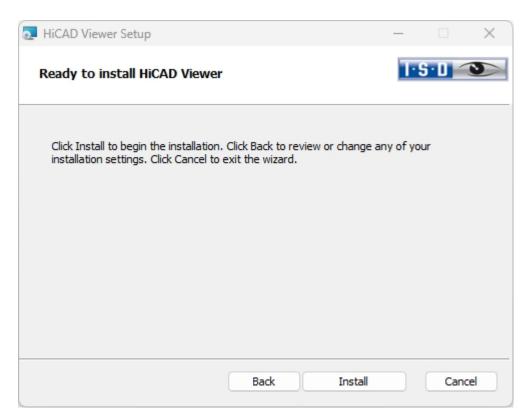
Leave the selection mask of the installation wizard open, so that you can select the desired components one after the other.



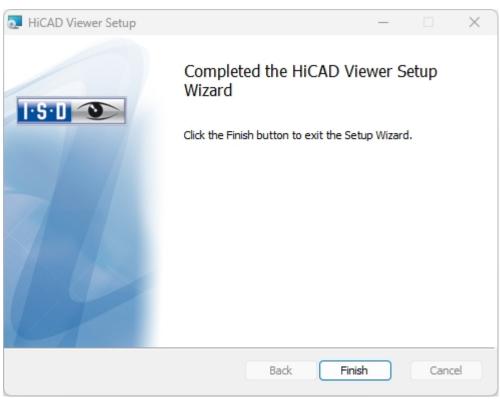
Click on the HiCAD Viewer button.



Enter the installation directory for the software.



#### Click Install.



Click **Finish** to complete the installation of the HiCAD Viewer. You can now install further components from the selection mask.

## Installation des HiCAD Spoolers

Start Windows to install the HiCAD Spooler. If Windows has already been opened, close all other applications and start the installation wizard.

In the installation wizard, click the **Standard Edition** button, which opens a mask with various selection options for software components.

Leave the selection mask of the installation wizard open, so that you can select the desired components one after the other.

P HiCAD 2024 (2900.0	x64), HELiOS 2024 (2900.0 x64) DB Version 285		×
4	Installation Documents	Client Installations	
N	HiCAD - Installation Notes	HiCAD and HELiOS	
202	OpenGL Test	HiCAD Viewer	
	Program support	HELIOS	
	The installation of the Help files is only required if there is no Internet connection.	PostScript Printer	
	HiCAD and HELiOS Help		
	HiCAD Viewer Help		
	HELiOS Desktop Help	Server Installations	
	Administrator Tools	HELiOS Spooler	
	This component may only be installed on the License Server!	HiCAD Spooler	
PN	License-Server	HELiOS Vault Server	
	HELiOS Database Creator		
	FIG-FGA Converter		
		THE WORLD OF CAD AND POM SOLUTION	s ———
	To be able to read the Getting Started guides you require the Ado © 1985 - 2024 ISD Group. All rights re		

Click on the HiCAD Spooler button.



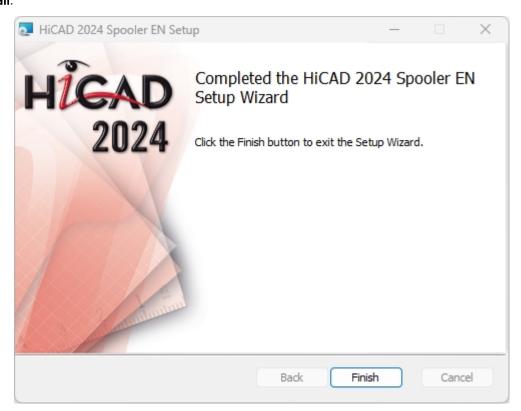
Please read this information carefully.

🛃 HiCAD 2024 Spooler EN Setup		_		×
Destination Folder Please select the installation folder		T	S·D _	5
Install HiCAD 2024 Spooler EN to:				
C:\HiCAD Spooler\ Change				
	Back	Next	Cano	el

Enter the installation directory for the software.

			_	~
HiCAD 2024 Spooler EN Setu	p	—		X
Ready to install HiCAD 20	24 Spooler EN		<u>5·0</u> (	
Click Install to begin the install install installation settings. Click Cand	ation. Click Back to review or cha cel to exit the wizard.	ange any of yo	ur	
	Extended settings			
	Back	stall	Canc	el

You can now either begin with the installation or open the **Extended Settings**, for example to modify the user configuration or catalogues. You can modify the **Extended Settings** as you would do for a HiCAD installation. Click **Install**.



After successful installation, the HiCAD Spooler can be found in the program folder.

## Installing the HELiOS Database Creator

The HELiOS PDM modules (Document management, Part Management, Workflow etc.) are based on a relational database. Before you put HELiOS into operation, the Microsoft SQL Server database administration system needs to be installed on the server, a HELiOS database needs to be imported and a ODBC connection needs to be set up on the clients.

When you set up a HELiOS database for the first time, the **HELiOS Database Creator** needs to be installed and executed on the database server first. The database and table structures will then be created, and filled with data records of the HELiOS standard database.

An empty HELiOS standard database is located in the **HELiOS\Databases** directory on the installation medium.

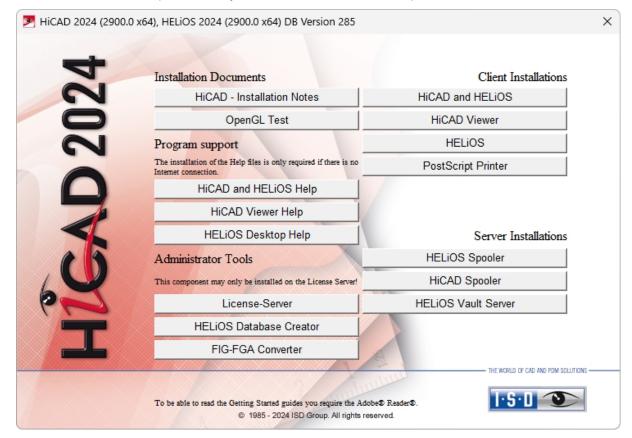
#### Please note:

Further information about the correct procedure for the execution of the HELiOS Database Creator, as well as the previous and subsequent steps required for the setting up of a database server can be found in the user guide for the installation of the **Microsoft SQL Server**. You can find this document here.

Start Windows to install the HELiOS Database Creator. If Windows has already been started, close all other applications and start the installation wizard.

Click on the **Standard Edition** button. This will open the following selection mask.

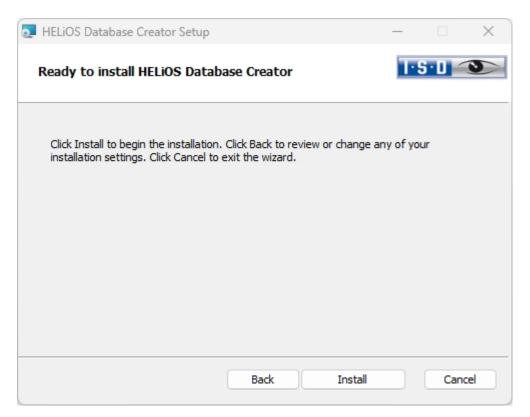
Leave this selection mask open, so that you can select the desired components one after the other.



Click on the HELiOS Database Creator button.



Select an installation directory for the HELiOS Database Creator and click Next.



#### Click Install to start the installation.

HELIOS Database Creator S	Setup	_		×
	Completed the HELIOS Setup Wizard Click the Finish button to exit the S			or
	Back	nish	Cance	el

Click **Finish** to complete the installation of the **HELiOS Database Creator**. If desired, you can now install further components via the selection mask.

## Installing the HELiOS Vault Server

Please start Windows to install the HELiOS Vault Server. If Windows is already open, end all other applications and start the Installation Wizard.

Click on Standard Edition. The screen with the software components then appears.

This screen remains open so that you can install the required components one after another.

## Please note:

In rare cases, a manually installed older version of the Vault Server may be found which is not touched (updated) by the setup for safety reasons. In case of an error message, please contact our hotline staff. E-Mail: support@isdgroup.com

Installation Documents	Client Installa
HiCAD - Installation Notes	HiCAD and HELiOS
OpenGL Test	HiCAD Viewer
Program support	HELIOS
The installation of the Help files is only required if there is n Internet connection.	PostScript Printer
HiCAD and HELiOS Help	
HiCAD Viewer Help	
HELiOS Desktop Help	Server Insta
Administrator Tools	HELiOS Spooler
This component may only be installed on the License Server	HiCAD Spooler
License-Server	HELiOS Vault Server
HELiOS Database Creator	
FIG-FGA Converter	

Click on the Vault Server button.



Enter the installation directory for the Vault Server. If the installation wizard finds an already installed version, it will be offered to you for updating.

HELiOS Vault-Serve	r Setup		_		×
Configuration HELiOS Vault-Server	r Settings		I	I·S·D	9
Server name	ISDVAULT				
Server port	9000				
		Back	Next	Can	cel

Give the Vault Server a name, e.g. the name of your company, plus the location of your company. This name will be shown, for example, when you connect to the Vault Server from the Vault Client.

🛃 HELiOS Vault-Server Setup	2	- 1	×
Configuration Server directories		T·S·D	3
Document directory Management directory	C:\HELiOS Vault ISDVAULT\Documents\ C:\HELiOS Vault ISDVAULT\Management\		•••
Log directory Log file name	C:\HELiOS Vault ISDVAULT\Logfiles\ ISDVAULT.log		•••
	Back Next		Cancel

The Vault Server renames all documents that are managed in the database (e.g. SZA, DOC, XLS, ...) to \*.VDF. These VDF files are saved to the Document directory.

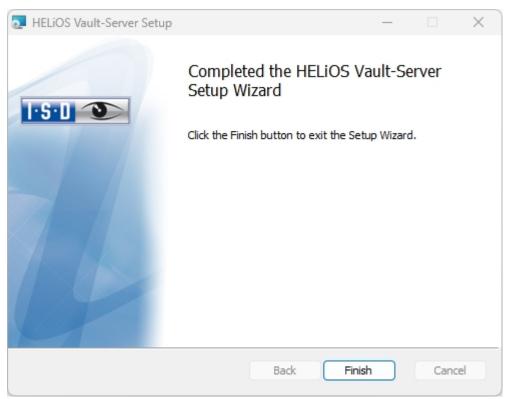
The files stored in the **Management directory** contain the assignments of the VDF file names to the "original file names".

Log files (\*.LOG) are saved to the Log directory. They record each access to the VDF files.

Enter the name of the log file in the **Log file name** field. The name of the **Vault Server** would also be possible here. If the log file exceeds a certain length, it will be cut down and suffixed by the current date.

THELIOS Vault-Server Setup					$\times$
Ready to install HELiOS Vault-Server			1·S	• 🛛 🤇	
Click Install to begin the installation. Click Bac installation settings. Click Cancel to exit the v		change any	of your		
Ва	ck	Install		Cance	el

Click Install.

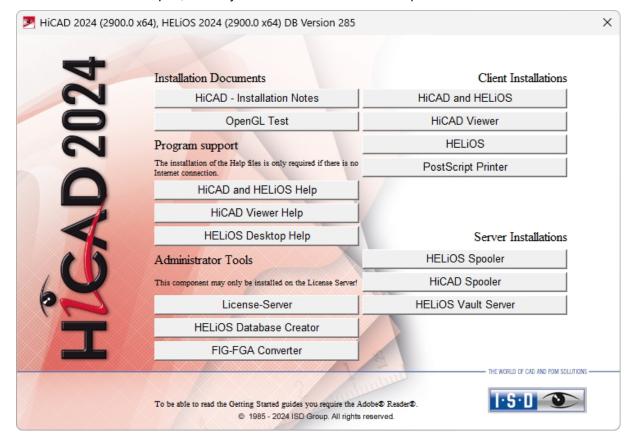


Click **Finish** to complete the installation of the Vault Server. You can now install further components from the selection mask.

## Installing the HELiOS Client

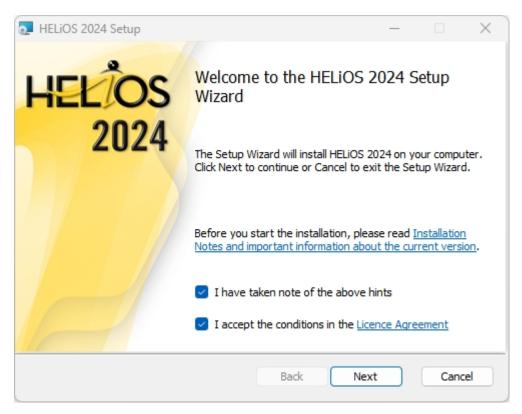
The HELiOS Client is normally automatically installed during the HiCAD installation. But of course, you can also install HELiOS separately. To install HELiOS, start Windows. If Windows has already been started, close all other applications and start the installation wizard.

In the installation wizard, click on the **Standard Edition** button. This will open the following selection mask. Leave this selection mask open, so that you can select the desired components one after the other.



Click on the HELIOS button.

Before using HELiOS, **Microsoft** .**NET Framework** and the **Visual C++ Runtime Libraries** must have been installed on the computer; these packages will be installed as part of the installation if required.



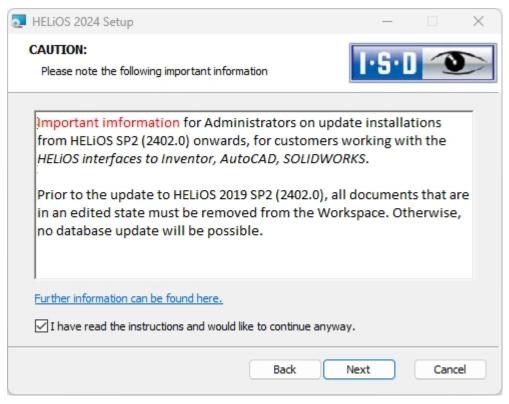
Please read the Installation Notes and the Licence Agreement carefully.

THELIOS 2024 Setup	_		×
Destination Folder Please select the installation folder	I-S-I		
Install HELiOS 2024 to:			
C:\Program Files\ISD Software und Systeme\HELiOS\			
Change			
Back	Next	Cano	el

Select an installation directory. If the installation wizard finds an already installed version, it will be offered to you for updating.

In accordance with the current Microsoft guidelines, the HELiOS documents will be saved to C:\User-s\Public\Documents\ISD Software und Systeme\ in case of a new installation. Only the Administrator has write permissions for the installation directory (C:\ProgramFiles\..).

If you work on several workstations without a Vault Server, you need to enter on each workstation the path of the document directory into the system file FILEGRUP.DAT. This means that the default path needs to be changed accordingly in all corresponding places of the FILEGRUP.DAT. The directory should be a shared network directory to which all Clients have access.



Please read these important notes on update installations for Inventor and AutoCAD carefully and activate the checkbox  $\checkmark$ . Further information can be found here.

NELiOS 2024 Setup	_		$\times$
License Management License Notes and Settings	ISI		
Notes on Hardware Exchange If you use local licenses and want to hardware components, modify the parti re-install the operating system, you the existing license on the workstati request, using the new hardware or mo configuration, a new license key (fur information on the procedure can be f software documentation). I accept the Notes on License Management	tioning of need to re on first, dified ther	f, or evoke and	
Back	Next	Cano	el

Please read the Notes on Hardware Exchange carefully.

#### Hardware Exchange

If you use local HiCAD/HELiOS licenses and want to exchange any hardware components, modify the partitioning of, or re-install the operating system, you need to revoke the existing license on the HiCAD/HELiOS workstation first, and request, using the new hardware or modified configuration, a new license key (further information on the procedure can be found in the software documentation).

If a revocation is technically possible, but will not be performed, the ISD reserves the right to charge costs in an appropriate amount for the reissuing of the license. If the license will not be revoked, or if such revocation is no longer technically possible, the ISD may request proof that the unrevoked license is no longer utilisable; in case of failure to produce such proof, the ISD reserves the right to refuse the transfer of the license to a new hardware.

Accept the notes to continue with the installation.

TELIOS 2024 Setup	_		×
Ready to install HELiOS 2024	ISI		
Click Install to begin the installation. Click Back to review or cha installation settings. Click Cancel to exit the wizard.	nge any of yo	Jr	
Extended settings			
Back	tall	Canc	el

You can now start with the installation or modify the Extended Settings for HELiOS.

🛃 Extende	ed settings			_		) ×	
HELIOS H	HELiOS Interfaces	General					
System d	ata source	Helios	Bauteil				
User		hicad					
Password	1	••••	•				
✓ Use V	ault Server	Addres	s localhost	Port	9000		
🗹 Use S	pooler	Server	localhost	Port	35725	5	
Saving of	f configuration files		local (computer- central directory				
Configura	ation <mark>f</mark> ile						]
	0	K Sav	e Cancel				

In case of a new installation you can specify an arbitrary name for the system data source. In case of an update, the existing data source will be offered. User and Password will be identical with the ODBC login.

If you use a Vault Server, activate the **Vault Server** checkbox. Enter the name of the Server in the **Address** input field, and the Server Port of the Vault Server in the **Port** input field. You already entered both during the installation of the Vault Server.

If you have not installed the Vault Server yet, you can do this now: Choose HELiOS Options > Database > Gen-

eral > Vault Server and specify the connection. For activation you must then restart the HELiOS Desktop.

If you want to process your print jobs via the Plotmanagement of the ISD, you need to install a **Print Client** on each workstation. Activate **Use Spooler**. In the Server field, enter the name of the computer on which you install the Spooler. The **Port** is used for communication between Client and Spooler as well as for monitoring via the Server Monitor. The Spooler collects the print jobs and processes them according to your settings.

Individual settings of HELiOS can be distributed to other users or workstations. To do this, create a ZIP file in

the HELiOS Client by clicking on the HELiOS icon **EXAMPLE** and choosing **HELiOS Options > Manage... > Export settings**.

If you then activate the Use local (computer-specific) directory option during installation, you can select this

ZIP file under **Configuration file** after clicking on the icon. To make the settings available to several workstations, activate the option **Use central directory for configuration data** when installing and then select the directory by clicking on the icon. The configuration data is then provided using the HELiOS.ConfigImport.exe tool in the EXE directory of your installation.

Extended settings	-	- C	ı x
HELIOS HELIOS Interfaces General			
CAD  AutoCAD <sup>®</sup> Nicht installiert  Inventor <sup>®</sup> Nicht installiert			
Navisworks <sup>®</sup> Nicht installiert  Microsoft Office <sup>®</sup>			
Excel 16 Outlook 16 PowerPoint 16 Word 16			
Others EPLAN <sup>®</sup> Nicht installiert			
OK Save C	Cancel		

The availability of interfaces with HELiOS depends on the programs that are installed on your computer. You can only link 64-Bit versions to HELiOS 64-Bit versions. Please note however that an additional, special ODBC connection will be required for old BOMs. In such cases, please contact the ISD Consulting team.

Multiple selections of HELiOS Interfaces are also possible. The HELiOS functions will be integrated in the programs that are linked to HELiOS.

Please take a look at the Compatibility Matrix.to check which interfaces to external software products are supported by HELiOS.

Extended settings		_		×
HELIOS HELIOS Interface	s General			
Installation directory C:	\Program Files\ISD Software und S Update-Installation	ysteme\HELiC	DS\	
<ul> <li>✓ Activate license admir</li> <li>✓ ISD Update Service ak</li> </ul>	istration tools tivieren			
Create context menu	entry in Windows Explorer for savir	ng files in HEL	iOS.	
	OK Save Cancel			

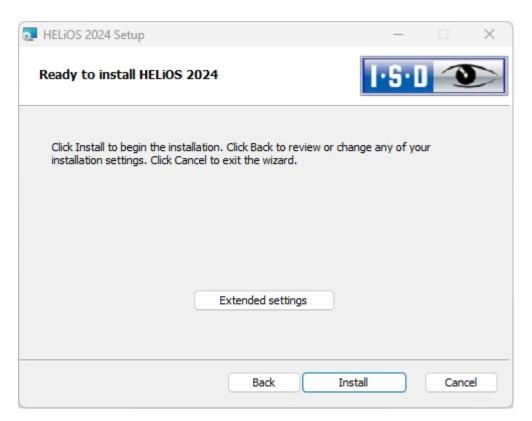
The Activate license administration tools checkbox must be activated for the management of server licenses.

During the installation, you decide to search for a hotfix on the ISD Webserver when starting HELiOS by activating the checkbox **Activate ISD Update Service**.

If you want the function **Save to HELIOS** to appear in the context menu of Windows Explorer, activate the checkbox **Create context menu entry in Windows Explorer for saving files in HELIOS**.

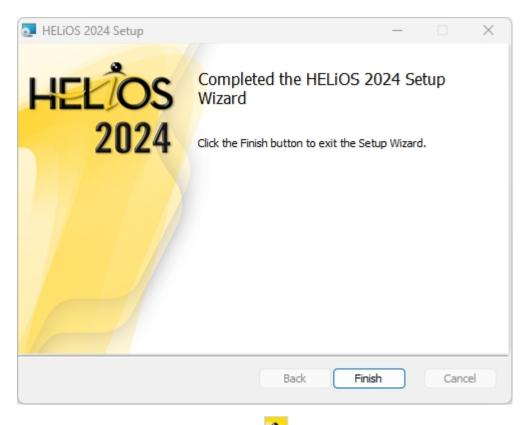
Click **Save** to save the **Extended Settings** to an **.ini file**. If you place the .ini file in the installation directory when installing server licenses, the settings will be applied.

Close the Extended settings dialogue with OK.



#### Click Install.

THELIOS 2024 S	etup		_		×
Installing H	ELiOS 2024		ISI	D	
Please wait whi	e the Setup Wizard installs HELiC	DS 2024.			
Status: C	omputing space requirements				_
		Back	Next	Cance	!



After successful installation, you will find the **HELIOS** shortcut on the Desktop of your computer for program start.

### Support with the Office Interface

### Starting the Office interface with administrator rights

Note that the interface between HELiOS and an Office application does not work if the corresponding Office application has been started via the Windows option **Run as administrator**, but HELiOS has been started as a normal user. This is because Windows prevents communication between normally running applications and applications started as administrators.

### If the AddIn starts but is constantly deactivated again

In this case, there are probably contradictory entries in the registry. If the HELiOS AddIn is blocked by Office, Office stores the corresponding information in the registry. This can also cause you to have different behaviour depending on whether you start Office as an admin or normal user. Then delete the following registry keys:

- HKEY\_CURRENT\_USER\Software\Microsoft\Office\Outlook\Addins\HelOutlookAddIn4 (complete folder including subentries)
- HKEY\_CURRENT\_USER\Software\Microsoft\Office\Word\Addins\HelWordAddIn4 (complete folder including subentries)
- HKEY\_CURRENT\_USER\Software\Microsoft\Office\Excel\Addins\HelExcelAddIn4 (complete folder including subentries)
- HKEY\_CURRENT\_USER\Software\Microsoft\Office\PowerPoint\Addins\HelPowerPointAddIn4 (complete folder including subentries)

HKEY\_CURRENT\_USER\Software\Microsoft\Office\Outlook\FormRegions\IPM. Note the entry HelOutlookAddIn4.HelMailFormRegion

Then start HeliosCouplings.exe as administrator and link the interface again...

### \rm Important:

Changes to the registry should only be carried out by an administrator. In any case, the original files should be saved before making any changes!

## Installing the HELiOS Spooler

Start Windows to install the HELiOS Spooler. If Windows has already been opened, close all other applications and start the installation wizard.

In the installation wizard, click the **Standard Edition** button, which opens a mask with various selection options for software components.

Leave the selection mask of the installation wizard open, so that you can select the desired components one after the other.

Micad 2024 (2900.0 )	x64), HELiOS 2024 (2900.0 x64) DB Version 285		×
-			
	Installation Documents	Client Installations	
n	HiCAD - Installation Notes	HiCAD and HELiOS	
202	OpenGL Test	HiCAD Viewer	
N	Program support	HELIOS	
	The installation of the Help files is only required if there is no Internet connection.	PostScript Printer	
	HiCAD and HELiOS Help		
	HiCAD Viewer Help		
	HELiOS Desktop Help	Server Installations	
15	Administrator Tools	HELiOS Spooler	
	This component may only be installed on the License Server!	HiCAD Spooler	
62	License-Server	HELiOS Vault Server	
	HELiOS Database Creator		
▓▁▖▃▙▖▁░	FIG-FGA Converter	A	
		THE WORLD OF CAD AND POM SOLUTION	
	To be able to read the Getting Started guides you require the Ad © 1985 - 2024 ISD Group. All rights m		

Click on the HELiOS Spooler button.



Enter the installation directory for the software. If the installation wizard finds an already installed version, it will be offered to you for updating.

🔁 HELiOS Spooler S	etup	_		×
Configuration HELiOS Spooler Setti	ngs	Ĩ.	·S·D <	3
Service registration Start in interactive Start as service User Password Start service upo	3456\99992	CAD Add-Ins HiCAD		
Communication port Data directory	35725 D:\HELiOS Spooler Data\ Create network share			
	Ва	ock Next	Cano	el

In the Service registration area you can choose between the options Local system and User account.

A part of the Spooler is started by the system as a background process (Windows service). For safety reasons it is recommended to create a **Windows User account**, with **User name** and **Password** with read and access permission, before installation.

If you do not know the user yet, you can choose Local system. The Spooler will then run, initially without access to any printers, as a simple Windows system service. Now, select **Control Panel > Administrative Tools > Services**. Right-click **HELiOS Spooler** and select **Properties**. On the **Log On** tab, switch to **This account** and enter the **User name** and the **Password**.

### lmportant:

If the Spooler user's password later changes or expires, the password must be reassigned to the HELiOS Spooler service in the Windows **Control Panel** at **Management > Services** via **Right-click > Properties > Log On**.

If the **Start service upon installation** option is active, the Spooler service will not require a manual start after installation.

Normally, the HELiOS Spooler runs as a Windows Service in the background. In this standard configuration the Spooler process will be started by the operating system in a special session which is not visible for the user. Therefore, the process will even continue running after the Spooler user has logged off from the computer. Unfortunately, internal tests have found that problems may occur with this type of operation in conjunction with some CAD systems.

Should you encounter any problems,, we therefore recommend choosing the **Start in interactive mode** option during installation. When this option has been selected, the Spooler will no longer be set up as a service, but will be started directly in the foreground via the Administration UI. During this type of operation, the Spooler process will appear in the form of a small text window in the window bar (Caution: When you log off from the Server, the Spooler process will also be ended here!)

For starting the "interactive" configuration of the Spooler automatically, the file **Helios.Spooler.exe** from the installation directory must be invoked with the option "–no service", for instance, either from the "Autostart" folder or via **Windows task planning**. If you have further questions, please contact our ISD Consulting team.

The **Communication port** is used for communication between client and spooler as well as for monitoring via the Server Monitor.

Select the data directory. Activate the Create network share checkbox to enable the communication with the **PrintClient**. If the network share is not created during installation, it must be created manually afterwards. Since special settings will be required here, we recommend contacting our Consulting team.

Choose the CAD system that you want to link to the HELiOS Spooler, and click Next.

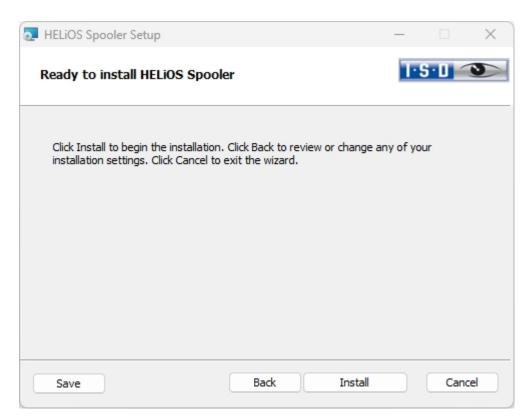
HELiOS Spooler Setup	×
Database connection Settings for connection w	ith HELIOS DB
System data source	HeliosBauteil ×
Show all HELiOS users	Administrator ~
HELIOS Group	PDM-Administratoren ~
✓ Use Vault Server	
Address localhost	Port 9000
	Back Next Cancel

In this dialogue window you will be asked for the login of the database user, which is the login of the (SQL) database system.

For **System data source** you have to select the corresponding ODBC database connection. Here the **HELiOS User** is selected, over which the spooler runs. It is important that this user has admin rights and is also assigned to the **HELiOS Group** of "PDM administrators" here. Otherwise you will get an error message. Then you will be asked for the login of the database user. This is the login of the (SQL) database system.

Activate **Use Vault Server** and enter the **Address** and **Port** of the Vault Server installed in the system for your Multi-CAD operation.

Click Next.



### Click Install.

HELiOS Spooler Setup	—	×
	Completed the HELIOS Spooler Setup Wizard Click the Finish button to exit the Setup Wizard.	
	Back Finish Cance	

Click Finish to complete your installation.

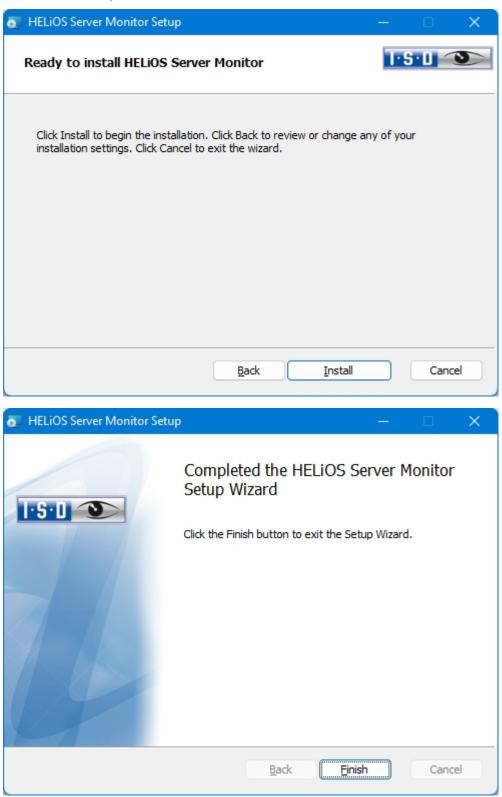
After successful installation, the HELiOS Spooler can be found in the program folder.

## Installing the HELiOS Server Monitor

With the **Server Monitor** you have the possibility to monitor the runnability of your HELiOS server applications. You start the installation of the **Server Monitor** by double-clicking the SETUP.EXE file from the **Tools > ServerMonitor** directory of your installation medium.



Specify the installation directory.

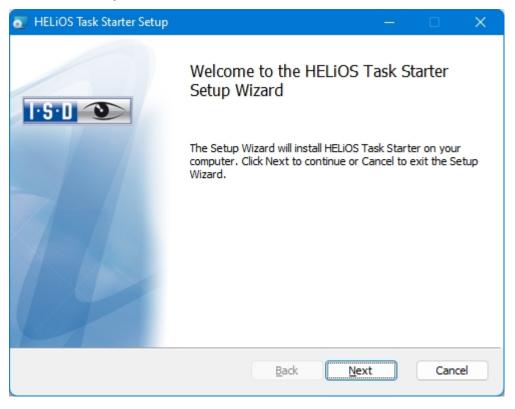


After the installation you start the monitoring with a double click on the **ServerMonitor.exe** file (EXE directory). The running monitoring by the Server Monitor is displayed in the Windows notification area.

## Installing the HELiOS Task Starter

The **HELIOS Task Starter** is a tool with which HELIOS services such as the HELIOS Spooler can be automatically restarted after termination or after a crash (e.g. due to interruption of the database connection or network access).

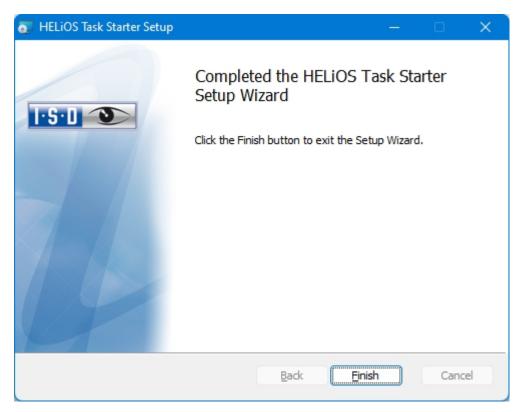
You start the installation of the **HELIOS Task Starter** with a double click on the file SETUP.EXE from the directory **Tools > TaskStarter** of your installation medium.



👼 HELiOS Task Starter Setup			×
Destination Folder Please select the installation folder	1.9	6·0 <	3
Install HELiOS Task Starter to:			
C:\Program Files\ISD Software und Systeme\HELiOS Task Starter\ Change			
<u>B</u> ack <u>N</u> ext	t	Cano	el

Specify the installation directory.

HELiOS Task Starter Setup	_		×
Destination Folder Please select the installation folder	Т	S·D	3
Install HELiOS Task Starter to:			
C:\Program Files\ISD Software und Systeme\HELiOS Task Starter\ Change			
<u>B</u> ack Next		Car	ncel



After the installation, the **HELiOS Task Starter** must be configured (see HELiOS online help). To do this, edit the file **TaskStarter.config** (%programdata%\ISD Software und Systeme\HELiOS Task Starter <Version>\). Then enter the service in the Windows task scheduler. If you have any questions, please contact the ISD Consulting team.

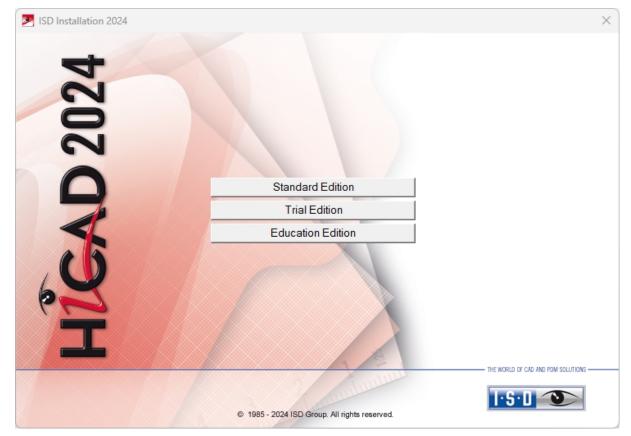
## Installing the Trial Edition (Demo Version)

The Trial Edition (Demo version) has a changed data format, which allows a reading of data out of the Standard Edition, but not a writing of data back to it (i.e. in a Standard Edition the data format of special versions is not readable!). For printouts, plot stamps will always be output.

### Please note:

The license is free and valid for 30 days from the date of installation. Its transfer to other computers after its activation is not possible.

Start Windows to install the HiCAD Spooler. If Windows has already been opened, close all other applications and start the installation wizard.



In the start mask of the Installation Wizard, click Trial Edition.

Before using HiCAD/HELiOS, **Microsoft .NET Framework** and the **Visual C++ Runtime Libraries** must have been installed on the computer; these packages will be installed as part of the HiCAD installation if required.



### In the Welcome... window, click Next.

THICAD 2024 EN Se	etup			_		×
Activation Activation data for	r Trial Edition			1.	6·0 <	5
version and that it is	ctivation data. Please n saved in a data format at your entries are corr	t <mark>that differs f</mark>				5
EID	nmgfiuighbvnokwrül	5675476u7				
					-	
		Back	Next		Cano	el

Enter the activation data for product activation and click Next.

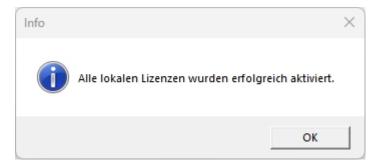
To obtain the activation data, please fill in the form on our website at isdgroup.com.

🔁 HiCAD 2024 EN Setup			_		×
Destination Folder Please select the installation folder			1.	6.0 <	5
Install HiCAD 2024 EN to:					
C:\HiCAD\ Change					
	Back	Next		Canc	el

Install the program to the ...\Trial Edition folder.

THICAD 2024 EN Setup	_		×
Ready to install HiCAD 2024 EN	Ŀ	5.0 <	
Click Install to begin the installation. Click Back to review or change installation settings. Click Cancel to exit the wizard.	any of yo	ur	
Back Install		Cano	el

Click Install.



Click **OK** to start the installation of the local Help.

HiCAD Documentation	×
HiCAD Documentation Setup completed successfully.	
ОК	

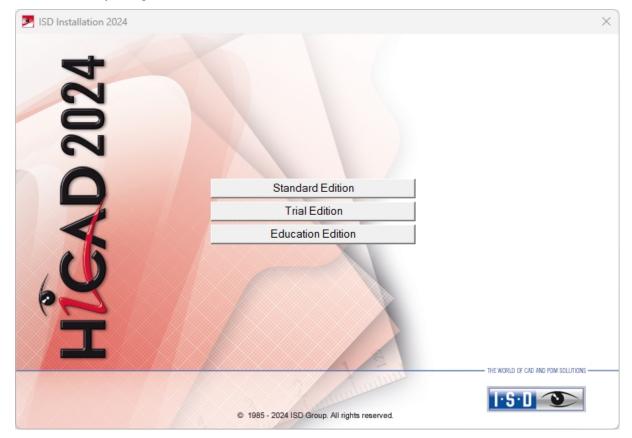
Click **OK** to complete the installation.

## Installation Education Edition (for Students)

The Education Edition (Student Version) is a fully functional standard version. The license is free and valid for 1 year (365 days). It can be activated and deactivated with the ISD License Manager, which will be available after installation (see Chapter 7.3).

The drawings (.-SZA) and parts (.KRA) created with Education Edition can not be loaded with the Standard Edition. In case if a file (.SZA or .KRA) created with the Education edition is opened with a Standard Edition, an appropriate message will be sent. The title bar of the HiCAD interface will show the text HiCAD Education Edition: Not for commercial purposes.

If the Autostart function has been switched off in the operating system, you must run the setup.exe file in the root directory of the DVD for installation. Only in this way will be ensured that the version of the operating system will be correctly recognized and that the correct HiCAD version will be installed.



Click on the Education Edition button.

Before using HiCAD/HELiOS, **Microsoft .NET Framework** and the **Visual C++ Runtime Libraries** must have been installed on the computer; these packages will be installed as part of the HiCAD installation if required.



#### Click Next to start the installation.

HICAD 2024 EN	Setup		—		×
Activation Activation data f	or Education Edition		Ŀ	S·D _	
period of time. Please make sure t	on data. Please note that this hat your entries are correct; med manually after installatio	if the activation			
EID	gbnäipehvnaiojegm,vogg	ijk			
		Back	Next	Can	cel

Enter the activation data for product activation and click Next.

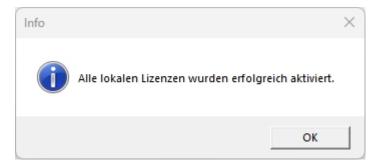
To obtain the activation data, please fill in the form on our website at isdgroup.com and upload your student identity card or your matriculation certificate.

THICAD 2024 EN Setup	_		×
Destination Folder Please select the installation folder		I-S-D 🥤	0
Install HiCAD 2024 EN to:			
C:\HiCAD\ Change			
Back	Next	Cano	el

Select an installation directory.

THICAD 2024 EN Setup	_		×
Ready to install HiCAD 2024 EN	1	5.0 _	9
Click Install to begin the installation. Click Back to review or chan installation settings. Click Cancel to exit the wizard.	ge any of yo	ur	
Back Insta		Cano	el

Click Install.



Click **OK** to start the installation of the local Help.

HiCAD Documentation	×
HiCAD Documentation Setup completed successfully.	
ОК	

Click **OK** to complete the installation.

## Silent Installation

The silent installation can, for example, be configured for HiCAD, HELiOS or the HELiOS Spooler. The procedure is always the same.

To configure the installation options, start the installation **setup.exe** as usual and make the required settings.

In the last dialogue of the installation, click on Extended Settings.

THICAD 2024 EN Setup	_		×
Ready to install HiCAD 2024 EN	Ŀ	5.0 <	5
Click Install to begin the installation. Click Back to review or change a installation settings. Click Cancel to exit the wizard.	ny of yo	ur	
Extended settings			
Back Install		Cano	el

Here you can configure in particular the settings for the and the Catalogues in such a way that user interactions will no longer be required.

Extended settings				_		×	
HELiOS Interfaces		LogiKal Interfa	ace		General		
User Configuration		Catalogue			HELiOS		
Configuration database		ramData\ISD Softw all database	are und Sy	ysteme\H	iCAD 202	4\1	
Parameter configuration	-	ult templates	n     n     ir     Modu     N     Si     P     At     Hii	onal sett netrical mperial le lechanica teel/Meta lant Engir tribute cc CAD / HE ovice con	l Enginee I Enginee Neering I Enginee Neering	ring on acc. to ault Solut	Font HiCAD Arial ISOCPEUR Drawing Management
	OK	Save Cance	el				

The parameter configuration takes place via selection of the .CSV file.

Extended settings		– 🗆 X
HELiOS Interfaces	LogiKal Interface	General
User Configuration	Catalogue	HELiOS
Catalogue directory	C:\HiCAD\Kataloge Copy catalogues to default	 directory
✓ Execute CatalogueMaker	DIN ISO	~
Execute Catalogue Update	Previous version Interactive Overwrite write protected for Retain own settings Delete backup copies Show log	iles
1	OK Save Cancel	

### For Execute CatalogueMaker, the Interactive checkbox must been deactivated.

Clicking **Save** creates a setup.ini file containing the desired settings. This file will be loaded automatically if it is located in the same directory as the Windows Installer package **HiCAD.msi**. Alternatively you can specify a file via the command line:

### setup.exe SETTINGS="<Ini-Datei>" /I\*v "<Log-Datei>"

or

### msiexec /i HiCAD.msi SETTINGS="<Ini-Datei>" /I\*v "<Log-Datei>"

In this case the starting will not be "silent", i.e. the installation dialogues will appear, but with the default values of the .ini file.

The option /l\*v "<Log-Datei>" creates a log file of the installation which can be used for the diagnosis of installation problems.

### Redistributables

Before distributing the installation you need to install the required redistributables on the target systems in order to circumvent the Microsoft-EULAs.

Examples:

### vcredist.exe /passive

### dotNetFx40\_Full\_x86\_x64.exe /passive

The respective command line options of the individual Redistributable Installer can be called via the command line option /?.

If required, the .msu files of the Windows Installer 4.5 can be installed with the Windows Package Manager **pkgmgr.exe** (http://support.microsoft.com/kb/934307/en).

The packages can be installed with /passive /norestart. Otherwise, a reboot would be initiated automatically. If a package requires a reboot, the return value is 3010; otherwise it is 0 or an error code.

## Please note:

- You need to install the redistributables that are located on the DVD at Program32 or Program64 (except for the setup.exe and the language-specific folders such as de-de).
- The utilisation of the msi package or the setup.exe, respectively, differs insofar as the setup.exe will issue an interactive message if a requirement (redistributable) is missing, while the msi package will cancel the process with an error code. The latter might be more suitable for a deployment within the scope of a software distribution program.

### Starting the installation in the silent mode

The installation can only be set to the silent mode via the command line:

setup.exe SETTINGS="<Ini-Datei>" /passive /I\*v "<Log-Datei>"

or

### msiexec.exe /i HiCAD.msi /qb!- /SETTINGS="<Ini-Datei>" /l\*v "<Log-Datei>"

As neither dialogues nor error messages are displayed, /l\*v "<Log-Datei>" creates a log file of the installation which can be used for the diagnosis of installation problems.

Information on further command line options can be obtained via the command line, by means of the command msiexec /?, and via the Internet at

http://technet.microsoft.com/en-us/library/cc759262%28WS.10%29.aspx#BKMK\_SetUI

http://msdn.microsoft.com/en-us/library/windows/desktop/aa372024%28v=vs.85%29.aspx

### Starting a hotfix installation in the silent mode

Example: msiexec.exe /i "\\entw042\Setups\Hotfix\_HiC26022x64-3.msi" INSTLOC="C:\HiCAD" /passive

### Example: Batch installation incl. Redistributables and Log

@REM UAC auto elevate -->

@net file 1>nul 2>nul && goto :run || powershell -ex unrestricted -Command "Start-Process -Verb RunAs -FilePath '%comspec%' -ArgumentList '/c cd /d %CD% && %~fnx0 %\*'''

@goto :eof

:run

@REM UAC auto elevate <--

@setlocal @setlocal EnableDelayedExpansion

@set SOURCE=d:\Programm64
@set LANGUAGE=en-us

@for /r "%SOURCE%" %%f in (vc\*redist\*) do @(

echo "%%f" /passive /norestart

"%%f" /passive /norestart

if not "!errorlevel!" == "0" if not "!errorlevel!" == "1638" if not "!errorlevel!" == "3010" echo Visual C++ Runtime Installation Error && goto error

)

### "%SOURCE%\DotNetFX48\NDP48-x86-x64-AllOS-ENU.exe" /q /norestart

@if not "%errorlevel%" == "0" if not "%errorlevel%" == "1638" if not "%errorlevel%" == "3010" echo .NET Runtime Installation Error && goto error

"%SOURCE%\VSTOR40\vstor\_redist.exe" /passive /norestart

@if not "%errorlevel%" == "0" if not "%errorlevel%" == "1638" if not "%errorlevel%" == "3010" echo VSTOR Runtime Installation Error && goto error

@setlocal DisableDelayedExpansion

msiexec.exe /qb+! /i "%SOURCE%\%LANGUAGE%\HiCAD.msi" /l\*v "HiCADInstall\_%COMPUTERNAME%.log" SETTINGS="%setup.ini"

goto :eof

:error @echo Error %errorlevel% @net helpmsg %errorlevel% @pause

## lmportant:

The INI file must always be specified in the batch file with the complete path, as no assumptions can be made about the current directory of the Windows installer process.

If the INI is in the same directory as the batch file, this could be done via SETTINGS="%~dp0setup.ini".

# Configuration

Company- or user-specific requirements can be conveniently adapted to the configration.

- Configuration Management HiCAD
  - Configuration Management for Updates
  - Configuration Management for New Installations
- Parameter Configuration for HiCAD
- Configuration HELiOS Client (Local and Central Distribution of Settings)

## **Configuration Management**

HiCAD offers a central configuration management with the Configuration Editor. This tool allows the creation of customer-specific configurations for a wide range of tasks, such as dimensioning, annotation, workshop drawing creation, fitting of vertical ladders etc. Once adjusted to company-specific requirements, these configurations can directly be used in HiCAD, without having to specify any further settings. The aim of our further developments is a gradual transfer of the previously used system files with their adjustable parameter settings into the Configuration Editor, thus enabling a central and safe configuration management.

This transfer has already been realised for the following files:

- ALGPAR.DAT (as of 1800)
- BEMPAR.DAT (as of 1800)
- DIMENSIONING\_SETTINGS.XML (as of 1800)
- KRPGEN.DAT (as of 1801)
- MASPAR.DAT (as of 1801)
- FITTABLE\_SETTINGS.XML (as of 1801)
- STBEMPAR.DAT (as of 1801)
- TXTANSI.DAT (as of 1801)
- STABMPAR.DAT (as of 1802)
- AUBM3PAR.DAT (as of 1802)
- ALG3DPAR.DAT (as of 1901)
- FEATURE.DAT (as of 1901)
- SCHRIF.DAT (as of 1901)
- TXTFONT.DAT (as of 1901)
- LINPAR.DAT (as of 1901)
- SSWRITESTEP.DAT (as of 1901)
- PASSTAB.DAT (as of 2000)
- ANSGEN.DAT (as of 2100)
- PARAMASS.DAT (as of 2101)
- SSTINI3D.DAT (as of 2102)
- SSTINI.DAT (as of 2102)
- STB\_PARAMETER.DAT (as of 2102)
- GRAPAR.DAT (as of 2201)
- KNTPAR.DAT (as of 2202)
- REF3D\_ATTR\_AKT.DAT (as of 2300)
- TXTPAR.DAT (as of 2300)
- TPAR.DAT (as of 2400)
- ABWPAR.DAT (as of 2402)
- ABWCOL.DAT (as of 2402)
- ABWPOL.DAT (as of 2500)

- KRPMOD.DAT (as 2700)
- SKIZZTEC.DAT (as 2701)

The settings from these files have been integrated into the Configuration Management. In the Online Help for the Configuration Management you will find the document schluesselnamen.pdf, which shows you where you can retrieve the entries from the DAT files in the Configuration Editor.

In addition, the Online Help provides a description of various scenarios for the utilisation of the tool. An extensive description of the Configuration Management (Performance - Functions - Scenarios) is provided in the document ISD-Configuration.pdf.

## **Configuration Management for Updates**

When performing an update, your settings from the existing configuration file **HICAD.CFGDB** of your previous HiCAD version will be transferred to the Configuration Management of HiCAD 2024, namely into the Administrator profile.

When the update is performed, only the values predefined by the ISD, i.e. the "factory settings", will be changed. All other (administrator or user) settings will be preserved.

If you use a central configuration database on a server, it will be automatically detected by the update program by means of the aforementioned Registry entry, and will be updated. For an update of several workstations, one single update will be sufficient; a multiple update will, however, not do any harm either (as an already updated setting will not be updated again).

When HiCAD is started, the configuration database will be checked.

- If HiCAD is started with an outdated configuration base, a corresponding message will be displayed. In this
  case, please perform an update of the configuration database in order to avoid error messages or unexpected behaviour.
- If HiCAD is started with the database of a newer Major Release, a corresponding message will be displayed. In this case, please use a compatible database to avoid error messages or unexpected behaviour.

## **Configuration Management for New Installations**

If you perform a (new) installation of HiCAD 2024, the settings predefined by the ISD will be initially used in the Administrator profile of the Configuration Management. If you want to transfer your individual settings in the file **HICAD.CFGDB** to the Configuration Management of HiCAD 2024, use the program **CfgDbTool.exe** in the HiCAD EXE sub-directory for this.

Furthermore, you are enabled to transfer settings from old **DAT** and **XML** files which are now managed in the Configuration Editor, to the configuration database of the current version.

Start the CfgDbTool.exe from the HiCAD / exe sub-directory

CfgDbTool	— —	×
Update Migrate		
Installed database	C:\ProgramData\ISD Software und Systeme\HiCAD 2023\HiCAD.cfgdb	
Update source	C:\HiCAD\Configuration\HiCAD.cfgdb	
Update target	C:\ProgramData\ISD Software und Systeme\HiCAD 2024\HiCAD.cfgdb	
	Update	

Use the **Update** tab of the CfgDBTool you tab to transfer the settings of your previous configuration file (.CFDB) to the configuration file.

Installed	The configuration database to be updated, i.e. (the configuration database of your pre-
database	vious HiCAD.
Update	The configuration database of the new version; the configuration database with the cur-
source	rent ISD settings can be found in the folder: [HiCAD installation directory]\Configuration.
Update tar- get	The result of the update. If you enter the same file here as in the Installed database, a backup of the previous configuration database will be created. You cannot enter the same

Select the directories.

Click the Update button to start the process.

Use the **Migrate** tab to transfer your individual settings from old **DAT** and **XML** files which are now managed in the Configuration Editor, to the configuration database of HiCAD 2019.

The setting files with their adjustments need to be copied to the HiCAD SYS subdirectory of the new HiCAD version for this purpose.

Start the CfgDbTool.exe from the HiCAD / exe sub-directory and activate the Migrate tab.

database here that you entered in the Update source field.

CfgDbTool				×
Update Migrate				
Base folder	C:\HiCAD			
Target database	C:\ProgramData\ISD Software und Systeme\HiCAD 2024	\HiCAD.	c <mark>fgd</mark> b	
Parameter files must be available in sub folders with the same names like in a HiCAD installation (e.g. sys folder) and under their original names.				
	Migrate			

HiCAD baseHere you enter the directory where your old DAT and XML files etc. are located. Pleasefoldermake sure that the old files have the same name and are located in the same directory<br/>structure as in a HiCAD standard installation.

Target data- Here you specify the database to which the data are to be transferred. base

Select the directories.

Click the Migrate button to start the process.

## Parameter Configuration for HiCAD

### Important update notes - please read carefully!

When you run the **Computer Parameter Configurator** (HiCAD exe\ParKonfigComp.exe) tool - either during the installation/update (Extended Settings > User Configuration tab) or later - the following message will be displayed.

ParConfig	×
The changes to the configuration will HELiOS masks or HiCAD drawing frame please check whether you have made b	es may be overwritten. Therefore,
	OK Abbrechen

After confirming with **OK**, various system files in the HiCAD sys and szenen directory will be replaced with the files supplied in the HiCAD templates directory which have been designed especially for a working with the selected module and the activated checkboxes (e.g. ...DSTV or Drawing Management). These files include, for example

- HiCAD masks for the part attributes (\*.HDX),
- HELiOS masks for projects, documents and articles (\*.XML, \*.MSK),
- Various configuration files (\*.HDB) and
- Template files for annotations (\*.FTD).

You should therefore always make backups of all files that you have customized before using the ParKonfigComp.exe tool! If you have any questions, please contact your nearest ISD branch office.

Cancel aborts the operation without any changes to the configuration.

HiCAD provides suitably customised interfaces and configurations for various fields of engineering, e.g. for Mechanical Engineering, Steel Engineering, Metal Engineering or Plant Engineering. You can select these options during the installation of HiCAD.

To change the parameter configuration subsequently, start the programs

- ..exe/ParKonfigComp.exe for the workstation configuration, and
- ..exe/ParKonfigUser.exe for the user configuration.

Depending on the selection in the Parameter configuration, the settings stored in the **CSV file**, too, will be applied. In a CSV file it is, amongst other things, specified which files (e.g. HiCAD part masks or template masks for annotations) are to be copied to the sys directory.

When performing an Update, various system files in the HiCAD sys directory will be replaced with the files supplied in the HiCAD templates directory which have been designed especially for a working with the selected module and the activated checkboxes (e.g. ...DSTV or Drawing Management). The standard CSV files are located in the templates directory of the HiCAD installation. CSV files are configuration templates that you can create and edit with Microsoft Excel.

		Region © Europe	
Default template		O North America	
- Module		Font	
Mechanical Engineer	ing	HiCAD	
C Steel/Metal Engineer	ing	C Arial	
C Plant Engineering		C ISOCPEUR	
_			
<ul> <li>Attribute configuration</li> <li>HiCAD / HELIOS Defa</li> </ul>		Drawing Management	
Novice configuration			
O User-defined template			
Configuration file	<isd default=""></isd>		· · · ·

In the dialogue window you have the following setting options:

### Region

If you choose **North America** as the **Region**, then the system automatically switches to imperial, i.e. nonmetric units. This applies to:

- units of your drawings,
- · dimensions and
- scales.

This means that settings made in the Configuration Editor will be replaced if necessary! The same applies if you choose **Europe** as the **Region**. Here, the conversion is to metric units, dimensions and scales. In addition, further drawing frames are available.

### Module

Here you choose the required filed of engineering. The common HiCAD parameters are then configured for this area.

Font

Specifies the text font default setting, e.g. for dimensioning, title blocks, view labelling, annotation etc.

### Attribute configuration according to DSTV

If you want the HiCAD attribute masks for parts and drawings to obtain the DSTV-relevant attributes, please activate the appropriate checkbox. The files BRW\_3DTEIL.HDX and BRW\_SZENE.HDX in the HiCAD SYS directory will be preset for DSTV BOM configuration.

### HiCAD/HELiOS Default Solution

Provides you with a preconfigured database solution for a safe and convenient management of product data. If you want to use it, activate the checkbox.

- Novice Configuration If you want HiCAD to be preset so that the automatic procedures of the novice configuration apply, activate this checkbox.
- Drawing Management Provides the PDM configuration with typical civil engineering attributes, masks and title blocks.
- User-defined template Activate this option if you want to use your own configurations. Then select the relevant configuration file.



When performing an update, only activate the copying of default templates if no user-specific, customized masks and Bills of Materials are used.

## Configuration HELiOS Client (Local and Central Distribution of Settings)

When installing from the HELiOS client, you can either import the HELiOS settings (e.g. interface, masks and attribute mappings) as a ZIP package as before or provide them centrally (in a network folder). HELiOS then checks whether newer settings are available when starting the application and updates the local settings accordingly.

The setting option **Saving of configuration files** can be used to distinguish between a local and a central (cross-computer) directory. This allows you to store the HELiOS Client configuration for several workstations in a central directory instead of having to "distribute" it to the individual local directories. To do this, create a

ZIP file in the HELiOS Client by clicking on the HELiOS icon age... > Export settings to create a ZIP file.

Extended settings		_		×
HELiOS Interfaces	LogiKal Interface		General	
User Configuration	Catalogue		HELIOS	
System data source User Password	HeliosBauteil hicad			
☑ Use Vault Server	Address localhost	Port	9000	
☑ Use Spooler	Server localhost	Port	35725	
Saving of configuration files	<ul> <li>Use local (computer- O Use central directory data</li> </ul>			
Configuration file				
Ok	K Save Cancel			

You have several options when configuring the HELiOS Client:

Use local (computer-specific) directory

You can also import a configuration file (ZIP file) directly when installing the client. This will then be stored on the computer (i.e. "computer-related") and selected via this icon . If you do not select a configuration file, the default configuration is used.

Use central directory for configuration data

Use this option if you want to use a central directory to store the configuration . This way you can provide several computers with the same configuration. You also ensure that the client configurations change when the administrator adjusts the central settings. The administrator must then store the settings in the directory analogous to the structure under %APPDATA%. The easiest way to do this is to take the desired settings from a client in %APPDATA%. The HELiOS Clients do not take over 1:1 the data stored in the directory. For example, settings that are stored user-specifically in the DataDepot.db (e.g. last used project/folder) are NOT taken over.

### Multi-level search for settings

A HELiOS Client searches in 3 different places (depending on the selected installation option):

- In case of a local (computer-specific) directory:
  - %appdata%
  - %programdata%
  - Installation directory
- In case of a central (cross-computer) directory:
  - %appdata%
  - central server directory
  - Installation directory

The multilevel search is important because it also allows the user to change settings as they are first stored in %appdata%. As long as the data stored there is more current (timestamp of the file) than the data stored under %programdata% or the central server directory, nothing happens. If the administrator stores updated settings (either under %programdata% or the central server directory), the HELiOS Client notices the changes at the next startup and copies them to %appdata%. Mask files etc. are copied, settings are remembered from the DataDepot.db.

The installation directory is important in case the HELiOS client does not find any data under %appdata% or %programdata% (default for default installation).

### **Change Installation**

HiCAD 2024 EN Setup		—		$\times$
Change Installation HiCAD 2024 EN Settings		1·S	•0 <	D
Use Spooler Server localhost				
Server	Port	9000		
Activate ISD Update Service				
Create context menu entry in Windows Explorer for	saving files in H	HELIOS.		
Use central directory for configuration data				
Directory C:\ProgramData\ISD Software	und Systeme\	HELIOS 2	024	
Back	Next		Cance	el

A **Change Installation** of HiCAD-/HELiOS offers the possibility to subsequently access a central structure of directory contents for the configuration of the HELiOS cleint. The directory structure for the configuration files must correspond to that under %APPDATA%\ISD Software and Systems\HELiOS "nnnn". The administrator cannot store a ZIP file with settings here.

If you want to change the local configuration afterwards, you should use the HELiOS.ConfigImport.exe tool from the EXE directory of your installation. HELiOS.ConfigImport.exe can also be used to import data via batch import (see HELiOS online help). The command line options are e.g. as follows:

Helios.ConfigImport.exe -nogui -uiconfig "C:\temp\export-16.06.2024.zip".

The HELiOS.ConfigImport.exe -help command line command shows you all possible arguments that can be set in connection with the program.

### Please note:

Settings files that are provided by the administrator in a central directory must be selectively copied to that directory. The directory structure provided by HELiOS must be observed due to the dependency on files. This must correspond to the directory structure defined in %APPDATA%\ISD Software und Systeme\HELiOS 2024. If in doubt, contact the ISD consulting team if you have any further questions. To preserve the folder and file structure, export the relevant settings that you want to distribute centrally and import them back into an empty HELiOS-%APPDATA% directory via HELiOS Options > MANAGE... > Export settings. Then move this folder and file structure to the central configuration directory.

- If the set configuration directory is not accessible at runtime, HELIOS behaves as if it is empty. This means that the program starts without updating the interface configuration. HELiOS searches e.g. for the mask file in the 3 locations (%APPDATA%, %PROGRAMDATA%/-central directory, installation directory). If there is a more current (timestamp) mask in %PROGRAMDATA%/central directory than in %APPDATA%, it is copied to the %APPDATA% directory and used. If there is no mask in %APPDATA% and %PROGRAMDATA%/central directory, it is taken from the installation.
- During the update installation of HELiOS for an older HiCAD version (before 2020), the option for setting the configuration directory is missing and can only be adjusted via the registry. If you have any questions, please contact the ISD consulting team.

# Update

- Licensing in Case of Updates
  - Updating the Server License
  - Updating Local Licenses
- Carrying Out the Installation
- Data Compatibility of HiCAD/HELiOS
- Update of HiCAD
  - Backups Before Performing the HiCAD Update-Installation
  - Update Installation of HiCAD
- ISD Update Service
  - Installing the ISD Update Service
  - Using the ISD Update Service
  - ISD Update Service: Settings
- Update Procedure for the modules Plant Engineering and Pipeline Planning
- Updating the HELiOS Database (Database Schema)
- Mask Converter for HELiOS
- Manual Registration of Multi-CAD Add-ins
- New File Format for 2-D Files in HiCAD
  - Installing the FIG-FGA Converter
  - Conversion of 2-D Files into FGA Format
- CatalogueMaker

### Important notes on updates!

### Hardware Exchange

If you use local HiCAD/HELiOS licenses and want to exchange any hardware components, modify the partitioning of, or re-install the operating system, you need to revoke the existing license on the HiCAD/HELiOS workstation first, and request, using the new hardware or modified configuration, a new license key (further information on the procedure can be found in the software documentation).

If a revocation is technically possible, but will not be performed, the ISD reserves the right to charge costs in an appropriate amount for the reissuing of the license. If the license will not be revoked, or if such revocation is no longer technically possible, the ISD may request proof that the unrevoked license is no longer utilisable; in case of failure to produce such proof, the ISD reserves the right to refuse the transfer of the license to a new hardware.

### Licenses

Before updating HiCAD/HELiOS, you must deactivate all licenses (Server Licenses or Local Licenses). The procedures for Server Licenses and Local Licenses are different.

#### Data compatibility

HiCAD 2024 uses a different data format, which means that.SZA files saved with HiCAD 2024 can no longer be loaded into older HiCAD versions.

When performing a HELiOS update, the update start mask shows you the HELiOS version, which needs to match the existing database. If this is not the case, only an error message will appear when you start HELiOS. To update the database schema, use the program HeliosDbUpdate.exe. If the database schema requires an update, you can **no longer access** the database with older HELiOS versions. Therefore, all workstations accessing the database need to be readjusted accordingly at the same time.

## Administrator

Before carrying out an update you should inform the responsible Administrator to ensure a well coordinated switch to the higher version.

## **Update HiCAD and HELiOS**

In the context of HiCAD/HELiOS Update Installations, the last 5 release cycles are supported. As of HiCAD/HELiOS 2024 (Version 290\*.\*), you can only update installations from 2019 (Version >= 2400.0) and newer. (See also Carrying out the installation.)

## Backup HiCAD/HELiOS

Backups of the following files must be made, for cases in which an unexpected interruption of the update occurs: Catalogues, HiCAD.cfgdb (Configuration Database) and HELiOS Database (only required if you actually use a HELiOS Database).

## **HELiOS Data base schema**

As existing datasets with non-compliant conditions may cause conflicts during the central update process of the HELiOS delivery database, you should consider the following:

- 1. Do a database backup: You should make sure that a backup of your HELiOS database has been created before the update. This can be done with the HELiOS Database Creator or via your SQL server application. Please contact the ISD hotline if you have any questions or need support for your individual system architecture.
- 2. The log file of the update: If any conflicts occur during the update, they are traced in the log file HeliosDbUpdate.txt (in the system path %appdata%\ISD Software and Systems\HeliosDbUpdate\). Have this file ready if you contact the ISD hotline for troubleshooting and successful updates.

#### New Mask Editor in HELiOS 2020

Due to the complete revision of the Mask Editor in HELiOS 2020, the previous mask format has been changed from .MSK to .XML. In addition, mask files are now managed outside the installation directory, resulting in some changes in the system architecture that Administrators must consider:

- The masks of older versions (before V 2500.0) that were previously stored in the SYS directory of the installation are automatically converted to the new XML format in case of an update installation and stored at **%Programdata%**.
- The new masks at %Programdata% should not be overwritten under any circumstances, as these represent the "delivery status", which will be updated by later update installations. If masks are edited and changed with the Mask Editor, you must store and call them at %Appdata%.

## Updating the HELiOS-Inventor interface

For an update of the Inventor interface from an older HELiOS version to HELiOS 2020 (Version 2500) or higher (and the corresponding update of the database schema) the following changes have to be considered:

- 1. The structure identifiers for Inventor parts must be updated.
- 2. The standard part and semi-finished product identifiers are changed to a document-based (instead of article-based) management.

An update installation can only be carried out after an appropriate preparation of the migration.

In case of an update, please contact the Consulting team of the ISD Group. New installations of HELiOS 2020 and the associated database are not affected.

## Important update notes for attribute mapping in title blocks

Up to HELiOS 2019, the attribute for the title block in AutoCAD was created using the following files:

- heliossac\_titleblock.dat,
- helacblock.xml

As of HELiOS 2020 (version 2500.0), the mapping must also be set up manually here.

In case of an update, please contact the Consulting team of the ISD Group.

## **HELiOS List attributes**

The database version update (HELiOSDbUpdate.exe) checks from HELiOS 2022 onwards whether list attributes with other data types than VARCHAR exist. If this is the case, the database version update for updating the database schema will not be carried out. In this case, please contact the ISD in order to migrate with the help of the Consulting the corresponding attributes to data types that will be supported in the future.

Important notes for administrators during a HELiOS update installation working with the HELiOS integration for Inventor and AutoCAD!

When updating the database to HELiOS 2019 Service Pack 2 or higher, the old workspace is checked for documents in progress. These are documents with the pen symbol in the respective (old) workspace dialog, or entries of locked documents in the Workspace Manager from HELiOS Desktop (on the right hand side).

Should the check find relevant documents, the following message appears:

The update of the database cannot be performed because there are still locked documents in old local work areas which will not be supported in the future. After this update, only work areas with new administration are supported and automatic migration is not possible. More information can be found here.

#### User-defined columns in catalogue tables

Until now, the creation of user-defined columns was only possible for tables in the **Factory standards** catalogue. From HiCAD 2024 this is supported for tables in all catalogues. For this purpose, the table function **New column** has been extended. With this extension, the columns CUSTOM1 to CUSTOM9, which were previously predefined for this purpose (before HiCAD 2024), are no longer needed and have been removed from the table.

During a catalogue update, however, only empty CUSTOM columns are removed from the tables.

## **Material Manager**

The Material Manager (materialmanager.exe) that enables a taking over of materials from Catalogue Editor to HELiOS needs to have the same database schema as HELiOS. Therefore the Material Manager will also be updated.

# Licensing in Case of Updates

Before updating HiCAD/HELiOS, you must deactivate all licenses (Server Licenses or Local Licenses). The procedures for Server Licenses and Local Licenses are different.

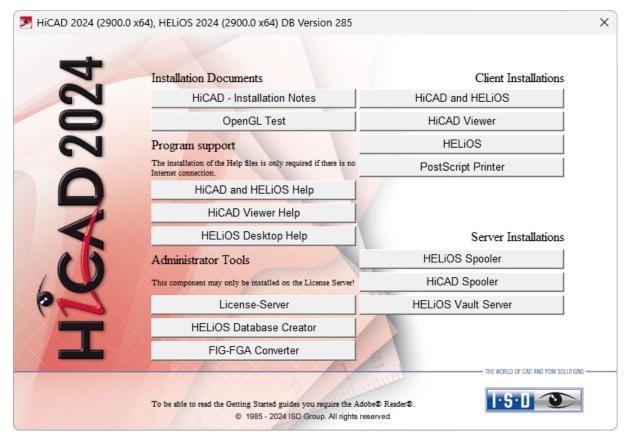
# Updating the Server License

For a Server license the License Server software and the License Management tools may require an update. Furthermore, you need to deactivate the licenses for the old Version first, and then activate those for Version 2024.

You can start with the installation of HiCAD/HELiOS before or after activation of the new licenses; a starting of the software is, however, only possible after activation of the new licenses.

The current Version of the License Server, Sentinel RMS License Manager 8.6.2, can be found on the installation medium of HiCAD/HELiOS 2024. If you have an older version, you need to uninstall this version with the help of the Windows Control Panel. First, uninstall the **Sentinel RMS License Manager** there and (if there are any) the AdminToolsServer.

You can then install the new version of the License Server from the installation medium. Start the installation wizard and click on the **Standard Edition** button. In the selection mask of the installation wizard, click on the **License Server** button.



Before you can use the new licenses of HiCAD/HELiOS 2024, you need to deactivate the old licenses with the help of the License Manager. This tool is located in the Windows Start menu at All programs > ISD Software und Systeme > Administration.

After starting the ISD License Manager the License Activator tab will be active. Normally, the EID (Entitlement ID) field is still filled in and the fields E-mail and Password are still empty. The activated modules of the old Version are highlighted (blue). Click on the **Deactivate** button to revoke the activation of these modules.

To activate the new licenses you require the ISD License Manager. After installing HiCAD/HELiOS 2024 this tool will be available to you in the Start menu of Windows at ISD Software und Systeme > Administration.

Another prerequisite for the activation of the new licenses is their requesting via the via the Update form and the subsequent provision of the licenses by the ISD.

Start the ISD License Manager, which you can find in the Start menu of Windows at ISD Software und Systeme > Administration(C:\Program Files (x86)\ISD Software und Systeme\AdminToolsServer\exe).

On the License Activator tab, enter the Entitlement ID, your E-mail address and your Password and click Login. After connecting to the ISD License Server, all your purchased licenses will be shown. Use the check-boxes to select the modules that you wish to activate and confirm your selection with a click on the Activate button.

After successful activation you can start HiCAD/HELiOS.

## Updating Local Licenses

Before installing HiCAD/HELiOS 2024, you need to deactivate the local licenses of the old version on your workstation. After installing HiCAD/HELiOS 2024, you need to activate the new licenses.

To deactivate the old licenses you use the **ISD License Manager**, which is located in the Windows start menu at **ISD Software und Systeme > Administration** (C:\Program Files (x86)\ISD Soft-ware und Systeme\AdminToolsServer\exe).

On the **License Activator** tab, click on the **Deactivate** button to revoke the activation of the modules, i.e. to deactivate them. After successful deactivation, a corresponding message will be displayed.

To activate the new licenses you require the ISD License Manager 4.0. After installing HiCAD/HELiOS 2024 this tool will be available to you in the Start menu of Windows at ISD Software und Systeme > Administration.

Another prerequisite for the activation of the new licenses is their requesting via the Update form and the subsequent provision of the licenses by the ISD. After installing HiCAD/HELiOS, start the ISD License Manager, which you can find in the Start menu of Windows at ISD Software und Systeme > Administration(C:\Program Files (x86)\ISD Software und Systeme\AdminToolsServer\exe).

On the License Activator tab, enter the Entitlement ID, your E-mail address (the address to which the E-mails of the Activation@isdgroup.de were sent) and your Password and click Login.

After connecting to the **ISD License Server**, all your purchased licenses will be shown. Use the checkboxes to select the modules that you wish to activate and confirm your selection with a click on the **Activate** button. The selected modules will then be activated on your workstation. You can deactivate them again at any time to enable their use on a different workstation.

After successful activation you can start HiCAD/HELiOS.

# Carrying Out the Installation

The installation of HiCAD/HELiOS and 3rd Party CAD can be carried out by the Consulting of the ISD. In the context of Update Installation, the last 5 release cycles are supported.

We recommend to note the following instructions:

- 1. Users with sufficient background knowledge can generally perform the updates themselves.
- 2. When performing an Update Installation, the "Installation Notes" must be read/considered thoroughly. The responsibility lies with the user. Updates generally fall under the category "Consulting". Therefore, questions about the Update Installation that go beyond purely functional questions about the installation are subject to a charge.
- 3. When performing an Update Installation, in addition to reading the "Installation Notes", we always recommend carrying out a test update as part of a test installation first and, only if this is successful, carrying out the update in the live system. Customer-specific adjustments to the HiCAD/HELiOS installation may have to be updated/adjusted as part of the test installation.

Since the effort of an update increases with the number of skipped versions, we generally recommend an installation by the ISD. This also saves the user from having to familiarize themself with the Update Installation topics and ensures that nothing will be forgotten.

# Data Compatibility of HiCAD/HELiOS

No changes are made to the HiCAD data format and the HELiOS standard database within major releases. This means that all patches and service packs of a version (e.g. 2900.x, 290X.x) will be using the same data format, and no HELiOS update will be required.

When updating from older HiCAD versions to HiCAD 2024(Version 290X), please note the information given below.

Update from Version	HELiOS Update	HiCAD data format changed
HiCAD 2023 Version 280X	$\checkmark$	$\checkmark$
HiCAD 2022 Version 270X	$\checkmark$	$\checkmark$

# Please note:

- If a HELiOS update is necessary, older HiCAD, respectively HELiOS versions have no access to the database any more. All workplaces need to be converted at the same time.
- If the HiCAD data format has been changed, drawings and parts cannot be loaded with the older version if they were saved with the new version.

# Update of HiCAD

The ISD recommends performing an Update Installation when switching from an old version to HiCAD 2024 or for the installing of Service Packs and Patches. Before the update, create a backup of the Catalogues, the HiCAD.cfgdb (Configuration Database) and the HELiOS Database (only required if you actually work with a HELiOS Database).

Important update notes - please read carefully!					
-	e <b>Computer Parameter Configurator</b> (HiCAD exe\ParKonfigComp.exe) tool - either dur- on/update (Extended Settings > User Configuration tab) or later - the following message				
	ParConfig ×				
	The changes to the configuration will now be applied. Files such as HELiOS masks or HiCAD drawing frames may be overwritten. Therefore, please check whether you have made backups of your files beforehand.				
	OK Abbrechen				
After confirming with <b>OK</b> , various system files in the HiCAD sys and szenen directory will be replaced with the files supplied in the HiCAD templates directory which have been designed especially for a working with the selected module and the activated checkboxes (e.gDSTV or Drawing Management). These files include, for example					
<ul> <li>HiCAD masks for the part attributes (*.HDX),</li> </ul>					
<ul> <li>HELiOS masks for projects, documents and articles (*.XML, *.MSK),</li> </ul>					
<ul> <li>Various configuration files (*.HDB) and</li> </ul>					
<ul> <li>Template files for annotations (*.FTD).</li> </ul>					
You should therefore always make backups of all files that you have customized before using the ParKon- figComp.exe tool! If you have any questions, please contact your nearest ISD branch office.					
Cancel aborts the	e operation without any changes to the configuration.				

# Backups Before Performing the HiCAD Update Installation

Before starting the Update Installation of HiCAD, you should create a backup of the following files:

- Catalogues
- HiCAD.cfgdb (Configuration Database)
- HELiOS Database (only required when you actually work with a HELiOS Database)

These components will be automatically updated during the installation. Nevertheless is a backup of these components recommended, e.g. for cases in which an unexpected interruption of the update occurs.

Please create an archive folder for the storage of these backups.

# Backup of catalogues

Find the folder where the catalogues of the old version are located.

- In case of a local installation this is usually the KATALOGE folder in the directory of your HiCAD installation.
- In case of a network installation the catalogues are normally located in a shared network folder, which is indicated in the Windows Registry at HKEY\_LOCAL\_MACHINE\SOFTWARE\ISD Software und Systeme\HiCAD\280X.X (or older) in the CatDir key.

In the Windows Explorer, right-click the folder that contains the catalogues. Select **Send to > Compressed** (zipped) folder. Important: Please choose a descriptive name for the zipped folder enabling an easy recognition of the catalogues, e.g. HiCAD\_2023\_CATALOGUES.ZIP

After its creation, move the file to the archive folder.

# Backup of Configuration Database HiCAD.cfgdb

Before installing the new HiCAD version, copy the old file HiCAD.cfgdb to the archive folder.

In the Windows Registry at HKEY\_ LOCAL\_ MACHINE\ SOFTWARE\ISD Software und Systeme\HiCAD\280X.X (or older) in the CfgdbPath key you can see where the file HiCAD.cfgdb is located.

## Backup of HELiOS Database

Open the **SQL Server Management Studio**. .On the left side, right-click **bauteil...** in the list. Then, select Tasks > Back Up. Make sure that the backup will be stored in the archive folder. You can then compress the backup file (.bak) to a ZIP file.

# Update Installation of HiCAD

You can conveniently download the current HiCAD version in the Download Area. On the corresponding installation medium you will find, besides the HiCAD installation, further utilities and the HELiOS installation. Please note that the HELiOS installation is the last available HELiOS patch containing the same database version as the HELiOS version that was originally released with the corresponding Major Release. The advantage of this is that you will not need to update the database as well thanks to the simultaneous installation of HELiOS.

Start Windows to begin with the Update Installation. If Windows has already been opened, close all other applications and start the installation wizard.

In the installation wizard, click the **Standard Edition** button, which opens a mask with various selection options for software components.

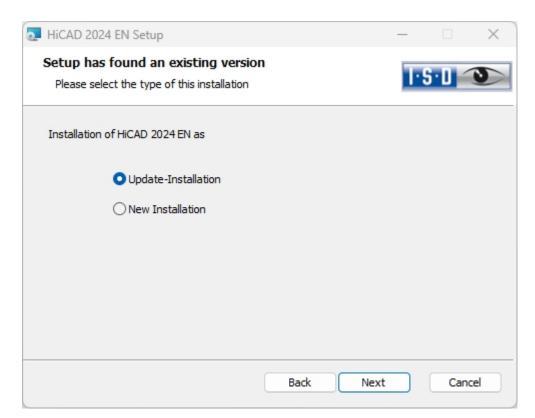
Installation Documents	Client Installat
HiCAD - Installation Notes	HiCAD and HELiOS
OpenGL Test	HiCAD Viewer
Program support	HELIOS
The installation of the Help files is only required if there is n Internet connection.	PostScript Printer
HiCAD and HELiOS Help	
HiCAD Viewer Help	
HELiOS Desktop Help	Server Install
Administrator Tools	HELiOS Spooler
This component may only be installed on the License Server	HiCAD Spooler
License-Server	HELiOS Vault Server
HELiOS Database Creator	
FIG-FGA Converter	

Click on the HiCAD and HELiOS button.

HiCAD 2024 EN Setup		—		$\times$
HIGAD	Welcome to the HiCAD 2 Wizard	2024 EN	I Setup	)
2024	The Setup Wizard will install HiCAD 2 computer. Click Next to continue or Wizard.			tup
	Before you start the installation, ple Notes and important information ab			
1	I have taken note of the above	hints		
A A A A A A A A A A A A A A A A A A A	✓ I accept the conditions in the Lie	ence Agree	<u>ement</u>	
	Back Ne	xt	Canc	el

Please read the Installation Notes and the Licence Agreement carefully.

If the installation program finds an already installed HiCAD Version, this will be indicated in a corresponding dialogue window.

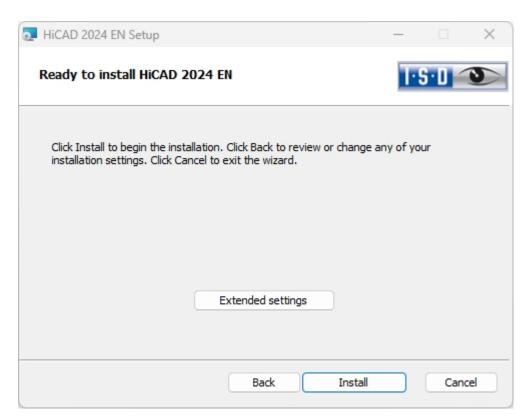


Activate the Update Installation option and click Next.

THICAD 2024 EN Setup		—		×
Optimisation of user-friendliness		1.	6.0 <	5
You can help us increase the user-friendliness of our produce participate or terminate your participation, please activate below.			es shown	
Yes, I agree that the data regarding the functio passed on to the ISD. Further information can b				
No, I do not want to participate.				
You can terminate your participation at any time by choos Feedback, and selecting the corresponding checkbox	ing Help > Cu	stomer		
Back	Next		Cance	el

You can help us increase the user-friendliness of our products even further. To participate or terminate your participation, please activate the corresponding checkbox.

You can terminate your participation at any time by choosing **Help > Customer Feedback**, and selecting the corresponding checkbox.



You can now start with the installation or modify the **Extended Settings**, e.g. for the user configuration, the catalogues, or HiCAD with HELiOS

Extended settings	>					$\times$
HELiOS Interfaces	LogiKal Interface General			General		
User Configuration	Catalogue HELiOS			IELiOS		
Configuration database	C:\ProgramData\ISD Software und Systeme\HiCAD 2024\I ✓ Install database				4\/	
Parameter configuration		ault templates	25			
	OK	Save	Cancel			

Under the path specified in the **Configuration Database** field, customer-specific settings for various features such as dimensioning, annotations, workshop drawing creation or fitting of vertical ladders are stored. When making an update, **customer-specific settings** can be applied. In addition, values that have not been modified by the user will automatically obtain the updated pre-settings.

You can change the parameter configuration after the update installation with the programs ../exe/ParKon-figComp.exe (for the workstation) and ../exe/ParKonfigUser.exe (for the user).

Extended settings		>
HELiOS Interfaces	LogiKal Interface	General
User Configuration	Catalogue	HELIOS
Catalogue directory	C:\HiCAD\Kataloge	directory .
✓ Execute CatalogueMaker	DIN ISO	~
Execute Catalogue Update	Previous version Interactive Overwrite write protected f Retain own settings Delete backup copies Show log	iles
	OK Save Cancel	

The running of the **CatalogueMaker** serves the purpose of specifying which standard series are to appear in the standard part catalogues (currently standard series are available for DIN, ISO, EN, ANSI and JIS); the selection of standards in the **CatalogueMaker** only influences the display of standard parts, but not their availability; the availability is still controlled via license selection in the **ISD License Manager**.

The **CatalogueUpdate** tool is used to update the catalogues during an update installation. It can be started automatically during the update installation by activating the option **Execute CatalogueUpdate**. You can also start the tool later from the EXE directory of your HiCAD installation, e.g. if you want to exchange catalogues among customers.

Extended settings				$\times$
HELiOS Interfaces	LogiKal Interface		General	
User Configuration	Catalogue		HELiOS	
System data source	HeliosBauteil			
User	hicad			
Password	••••			
✓ Use Vault Server ✓ Use Spooler	Address localhost	1	9000 35725	
Saving of configuration files	<ul> <li>Use local (computer-s</li> <li>Use central directory data</li> </ul>	-		
Configuration file				
O	K Save Cancel			

For a new installation, you can enter any name for the system data source. In the case of an update, you are offered the existing data source. **User** and **Password** are identical to the ODBC login.

If you are working with a HELiOS Vault Server, **Use Vault Server** is activated and the **Address** and **Port** are entered. The data of the spooler are also taken over.

Individual settings in HELiOS can be distributed to other users or workstations (see Configuration HELiOS Client (Local and Central Distribution of Settings)). To do this, create a ZIP file in the HELiOS Client via the

HELIOS icon HELIOS Options > Manage... > Export settings.

If you then activate the option Use central directory for configuration data during the installation, you can

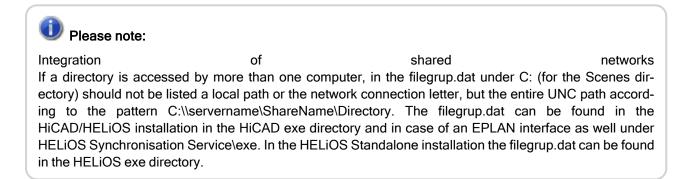
select the ZIP file via the Windows Explorer in the selection dialogue after clicking on the m button.

During the update installation, the system checks whether the existing HELiOS version is more recent than the one on the installation medium. If this is the case, the HiCAD installation will only update those files that do not originate from HELiOS. The files that belong to HELiOS are those that a standalone installation would bring from the HELiOS desktop minus the hicadcommons contained there.

User Configuration		Catalogue		HELIOS	
HELiOS Interfaces	L	.ogiKal Interface		General	
Microsoft Office <sup>®</sup> ■					
<ul> <li>Excel 2013</li> <li>Outlook 2013</li> <li>PowerPoint 2013</li> <li>Word 2013</li> </ul>					
<ul> <li>Sonstige</li> </ul>					
AutoCAD® EPLAN® Inventor® Navisworks®	Nicht installie Nicht installie Nicht installie Nicht installie	ert ert			
Use 32Bit Report Mana	iger (only need	ed for old BOM temp	lates)		

The availability of interfaces with HELiOS depends on the programs that are installed on your computer. You can only link 64-Bit versions to HELiOS 64-Bit versions.

Multiple selections are also possible. The HELiOS functions will be integrated in the programs that are linked to HELiOS.



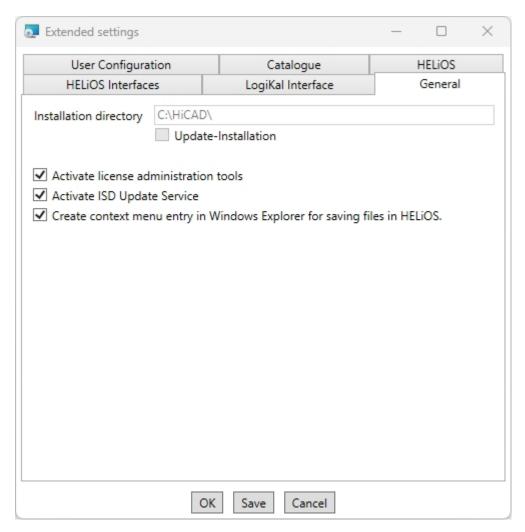
Extended setting	gs			$\times$
User Configuration		Catalogue	HELIOS	
HELiOS Inte	rfaces	LogiKal Interface	General	
LogiKal directory	C:\LOGIKAL			
	OK	Save Cancel		

If you have installed LogiKal on your computer, you can enter the installation directory here.

# Please note:

In HiCAD, at **Settings > Further directories** you can set the paths for the database of the **Configuration Editor**, the **Catalogue Editor** and **LogiKal**. These paths are located in the Windows Registry at HKEY\_ LOCAL\_MACHINE\SOFTWARE\ISD Software und Systeme\HiCAD\nnnn.

nnnn.n is the HiCAD version number, e.g. 2900.0.



The Activate license administration tools option must be activated for the management of server licenses.

# Dease note:

During installing of HiCAD, a ISD License Manager that may exist will be uninstalled. By checkmarking the **Activate license administration tools** option you can reinstall the current standard ISD License Manager during the installation.

If you checkmark the Activate ISD Update Service option, a Hotfix will be searched on the ISD Web Server when you start HiCAD. You can also activate this option subsequently via the Windows Control Panel: There, choose Programs and Features, right-click on HiCAD and choose Change.

If you want the function **Save to HELIOS** to appear in the context menu of Windows Explorer, activate the checkbox **Create context menu entry in Windows Explorer for saving files in HELIOS**.

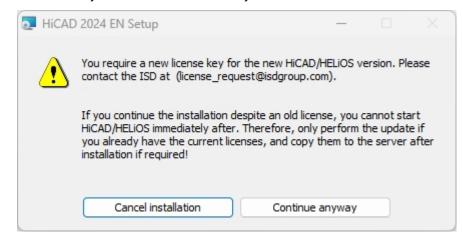
Click **Save** to save the **Extended settings** to an .ini file. If you place the .ini file in the installation directory when installing server licenses, the settings will be applied.

Close the Extended settings dialogue with OK.

🛃 HiCAD 2024 EN Setup		_		×
Ready to install HiCAD 20	24 EN		5.0 <	0
Click Install to begin the install installation settings. Click Can	ation. Click Back to review or chang cel to exit the wizard.	ge any of yo	ur	
	Extended settings			
	Back	all	Cano	el

#### Click Install.

You will now be informed that you need a new license key for the new version.



Click Continue anyway to start the installation.

Towards the end of the installation you can specify the procedure for the updating of the catalogue files if you activated the **Execute CatalogueUpdate** checkbox in the **Extended settings** beforehand.

Please remember that HiCAD will check the version of the utilized version upon HiCAD start. If the catalogue directories are old there is a risk that HiCAD will search for catalogue entries which do not yet exist in the old catalogues. One example of this is the Textures that were integrated in the catalogue some time ago. If these are missing in the catalogue, you will have no access to these Textures in HiCAD. Use the CatalogueUpdate.exe program in the HiCAD EXE directory to update the catalogues

sys\Language\1031\DIN_EN_10305	-1_BZ.txt ×				
Source D//Ricognamm&#kjam-us//hiteadBiceat/kataloge:</th></tr><tr><th colspan=6>Target C:\HiCAD\Kataloge</th></tr><tr><th>Settings ✓ Overwrite write protected files Retain user settings (Sort etc.) ✓ When update successful, delete ba ✓ Show log file after update Start Catalogue Editor after update</th><th>After update 2900.0</th></tr><tr><td>Update 00:03:12</td><td>Cancel</td></tr></tbody></table>					

Specify the desired settings and click Update.

After successful updating, the update information for the replaced files will be shown in a dialogue window. The old files will be preserved and renamed, e.g. 0.mac > 0.mac.2802.

Update_2900.0_04.05.23_125946.lo × +			×
Datei Bearbeiten Ansicht			<b>i</b>
START: 04.05.2023, 12:59:46			
SOURCE CATALOGUE: J:\Programm64\en-us\hicad3.cat\kataloge TARGET CATALOGUE: C:\HiCAD\Kataloge			
PREVIOUS VERSION: 2802			
<pre>SETTINGS : Replace R0-Files : 1 Delete Backup Files : 1 Keep Personal Settings : 0 Show Protocol File : 1 Start CATEditor : 0 A2HF1_16.IPT -&gt; NO CHANGED A2RF1_100.IPT -&gt; NO CHANGED A2RF1_100.IPT -&gt; NO CHANGED A2RF1_16.IPT -&gt; NO CHANGED A2RF1_40.IPT -&gt; NO CHANGED A2RF1_40.IPT -&gt; NO CHANGED AERF_16.IPT -&gt; NO CHANGED AERF_40.IPT -&gt; NO CHANGED AERF_40.IPT -&gt; NO CHANGED C:\HiCAD\Kataloge\Anlagenbau\ANLAGENBAU.IPL ADD TABLE: "GF10242_S130R23" IN CATALOGUE "3230010" ADD TABLE: "GF10242_S165" IN CATALOGUE "3230010" ADD TABLE: "GF10242_S165" IN CATALOGUE "3230010" ADD TABLE: "GF10242_S165" IN CATALOGUE "3230010"</pre>			
Ze 1, Sp 1 100% Windows (CRLF)	ANSI		
Update Information Folgende Benutzerdateien wurden gesichert und durch eine neuere Version erse	—		×
Datei     Sicherungsdatei       C:\HiCAD\sys\CADfix\Default\Import\autocad.cwc     C:\HiCAD\Backup\27.2.5.0\sys\CADfix\Default	ult\Import\	autocad	.cwc

OK

Speichem



Click Save to save this list to a directory of your choice. Click OK to continue with the installation.

Click Finish to complete your HiCAD installation. .

If you have already activated the new Server License before the installation, you can start HiCAD Money (Standard Konfiguration).

If you have a local license you need to activate it first before you can start HiCAD.

# ISD Update Service

The automatic search for and installation of HiCAD/HELiOSupdates (Hotfixes). For this you require the program **ISDUpdateSvc.exe**, that you can either activate during installation of HiCAD or install via the Windows Control Panel afterwards.

# Installing the ISD Update Service

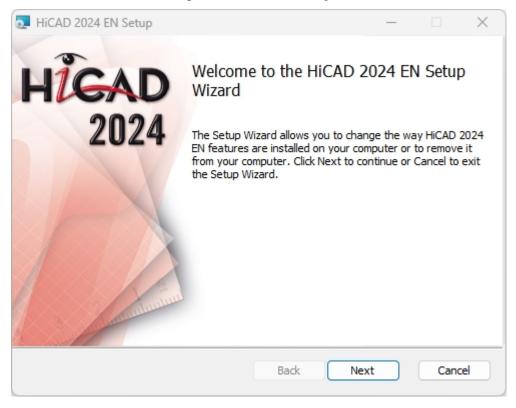
You can activate the automatic search for and installation of HiCAD/HELiOS updates (Hotfixes), either during the installation of HiCAD/HELiOS or, later, via the Windows Control Panel.

Extended settings				_		×
User Configura	tion	Catalogue		H	HELiOS	
HELiOS Interface	es	LogiKal Interface			General	
Installation directory	C:\HiCAD\					
		-Installation				
<ul> <li>✓ Activate license ad</li> <li>✓ Activate ISD Updat</li> <li>✓ Create context me</li> </ul>	te Service	tools Windows Explorer for savin	g files	in HEL	iOS.	
	O	K Save Cancel				

During installation you can go to **Extended settings > General** and activate the **Activate ISD Update Service** option to activate the automatic search for Updates on the ISD Server. You can also activate or deactivate this option afterwards via the Windows Control Panel.

Programs and Features							- 0	×
$\leftarrow \rightarrow \checkmark \uparrow$	ontrol Panel > Program	ns > Programs and Feature	25 ~	C S	earch Programs	and Features		P
Control Panel Home	Uninstall or o	change a program						
View installed updates	To uninstall a pro	ogram, select it from the list	and then click Uninstall, Change, or Repair.					
; Turn Windows features on or		-						
off	Organize 🔻 Unin	stall Change					≡	- (1
Install a program from the network	Name	^	Publisher	Installed On	Size	Version		
	HELIOS 2024		ISD Software und Systeme	02/08/2023	476 MB	29.0.0.129		
	🐣 HELiOS Database	Creator	ISD Software und Systeme	09/01/2020	5,40 MB	25.0.0.101		
	🌲 HELiOS Server Mo	nitor	ISD Software und Systeme	21/09/2022	23,1 MB	28.0.0.179		
	🌲 HELiOS Spooler		ISD Software und Systeme	17/05/2023	351 MB	29.0.0.68		
	🌲 HELiOS Task Starte	er	ISD Software und Systeme	21/09/2022	1,23 MB	28.0.0.179		
	😕 HELiOS Vault-Serv	er	ISD Software und Systeme	23/03/2023	10,3 MB	28.2.0.357		
	Picad 2024 EN		ISD Software und Systeme	17/07/2023	6,66 GB	29.0.0.129		
	<b>Q</b> HiCAD Viewer	Uninstall	ISD Software und Systeme	27/01/2022	420 MB	11.0.0.0		
	🛃 IIS URL Rewrite I	Change	Microsoft Corporation	21/02/2020	4,24 MB	7.2.1993		
	🔡 Intel(R) Chipset 🗤	evice somware	Intel(R) Corporation	22/09/2022	2,62 MB	10.1.18634.8254		
	🔚 Intel® Manageme	ent Engine Components	Intel Corporation	22/09/2022	164 MB	1937.12.0.1312		
	酸 ISD FilePrinter PS		ISD Software und Systeme GmbH	23/08/2022	21,0 KB	2.0.0.0		

In the Windows Control Panel, choose Programs and Features, right-click on HiCAD and choose Change.



🔁 HiCAD 2024 EN Setup			_	
Change, repair, or remove Select the operation you wish			1.8	5-U 🕥
Repair HiCAD 2024 EN cann Remove	way features are insta ot be repaired. 4 EN from your comput			
Removes HICAD 202	4 EN from your comput	er.		
	Back	Next		Cancel
THICAD 2024 EN Setup			_	
Change Installation HiCAD 2024 EN Settings			1.8	j.ll 🕥
<ul> <li>Use Spooler</li> <li>Server</li> <li>Use Vault Server</li> <li>Server</li> <li>Activate ISD Update Service</li> <li>✓ Create context menu entry</li> <li>✓ Use central directory for conductory</li> <li>C:\Productory</li> </ul>	e in Windows Explorer fo			
Directory JC: \Pro	gramData (ISD Softwar	e und Systeme\	HELIOS 2	2024
	Back	Next		Cancel

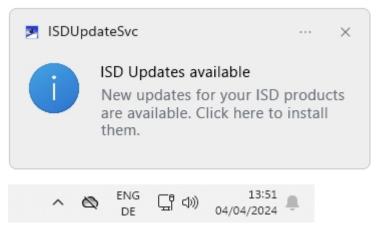
🛃 HELi	OS 2024 Setup	-			×
	ge, repair, or remove installation ct the operation you wish to perform.	1.8	·I	T	
	Change Lets you change the way features are installed.				
	Repair				
	HELiOS 2024 cannot be repaired.				
	Remove				
	Removes HELIOS 2024 from your computer.				
	Back	Next		Cano	el

Checkmark Activate the ISD Update Service and click Next. After all options have been queried, click Change.

After successful installation, the program ISDUpdateSvc.exe will be located by default in directory C:\Program Files\ISD Software und Systeme\ISD Update Service

## Using the ISD Update Service

If you have installed the ISD Update Service, the following message appears at the bottom right of your screen whenever a Hotfix is available:

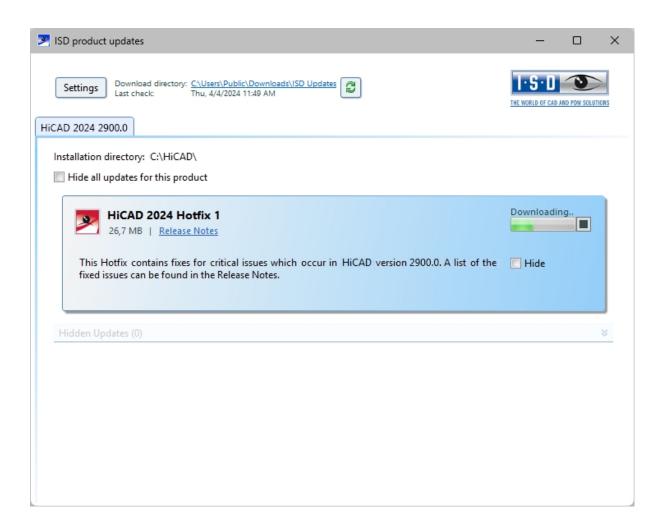


Click on the message or double-click on the **P** icon at the bottom right to start the ISDUpdateSvc.exe program. You can also directly double click on the **ISDUpdateSvc.exe** file to start the program.

Confirm the query in the Windows User Account Control dialogue window.

ISD product updates	-		$\times$
Settings Download directory: <u>C:\Users\Public\Downloads\ISD Updates</u> Last check: Thu, 4/4/2024 11:49 AM	I.S.D THE WORLD OF CAD	AND POM SOLUTIO	In s
Installation directory: C:\HiCAD\ Installation directory: C:\HiCAD\ Installation directory: C:\HiCAD\			
HiCAD 2024 Hotfix 1         26,7 MB       Release Notes         This Hotfix contains fixes for critical issues which occur in HiCAD version 2900.0. A list of the fixed issues can be found in the Release Notes.	Downle Hide	oad	
Hidden Updates (0)			>

If an update is available, click the **Download** button to download it from the ISD Server to your computer. If an update should not be displayed anymore, activate the **Hide...** Checkbox. In addition to the Hotfix, Major Release and Service Pack are also displayed here. However, unlike the Hotfix, you cannot download and install these here.



ISD product updates	-		×
Settings Download directory: C:\Users\Public\Downloads\ISD Updates Last check: Thu, 4/4/2024 11:49 AM	I.S.D	ND POW SOLUTIO	]
Installation directory: C:\HiCAD\ Installation directory: C:\HiCAD\			
HiCAD 2024 Hotfix 1         26,7 MB   Release Notes         This Hotfix contains fixes for critical issues which occur in HiCAD version 2900.0. A list of the fixed issues can be found in the Release Notes.	Install		
Hidden Updates (0)		2	*

After downloading of the Hotfix, click Install.

ISDUpd	ateSvc - Sicherheitswarnung		×
Do you	want to install this software? Name: <u>Hotfix HiC29000x64.msi</u> Publisher: <u>ISD Software und Syst</u> e	eme GmbH	
¥ Mor	re <u>o</u> ptions	<u>I</u> nstall	Don't Install
	While files from the Internet can be use your computer. Only install software fro		

Confirm the Windows Security Warning with Install.

Follow the instructions on the screen to install the update.

The HiCAD Info window displays the current HiCAD version number (including build number) as well as the

numbers of any installed hotfixes. To show the info window, click on **Help Topics and Information** and choose **HiCAD**.



# ISD Update Service: Settings

If you have installed the ISD Update Service, you can, after calling the program (with the **P** icon at the bottom right on the Windows Taskbar, or by double-clicking on the file **ISDUpdateSvc.exe**), configure the search and the installation with the **Settings** button.

ISD product updates			-		×
	ectory: <u>C\Users\Public\Downle</u> Thu, 4/4/2024 5:29 PM	pads\ISD Updates	I.S.D.	AND POW SOLUTIO	<u>Ns</u>
HiCAD 2024 2900.0					
Hide all updates for the HiCAD 2 26,7 MB   This Hotfix conta fixed issues can be Hidden Updates (0)	Download directory	C:\Users\Public\Downloads\ISD Updates          1       Days         OK       Cancel	Hide	1	× .

Via the **Settings** button you can specify the download directory for Updates and a time interval for the search for updates.

You can use the  $\stackrel{\textcircled{\mbox{\footnotesize C}}}{=}$  icon to start the search for updates manually.

# Update - Procedure for the modules Plant Engineering and Pipeline Planning

If you have already used the modules of a HiCAD version older than 2022, proceed as follows:

#### 1. Backup

Make a backup of the current state of your database. In the file FILEGRUP.DAT in the *exe* directory of the existing old HiCAD version, check the entry located under 6:. The entry specifies the part directory for HiCAD Plant Engineering. This can be the local *PlantParts* directory of your HiCAD installation (e.g. *6:C:\h-icad\PlantParts*) or a server directory, e.g. *6:\MyServer\hicad\PlantParts*.

- If the Server directory has been entered here, make a backup of this Server directory.
- If the local directory has been entered here, make a backup of this local *PlantParts* directory.

#### 2. Installation

Perform the HiCAD Update Installation. Please do not start the programs yet.

#### 3. Realise required database state (only for Plant Engineering!)

- Start the *DbPlantDataImport.exe* program. Login as Administrator. Please note that you require all read and write permissions.
- Click on Update HELiOS for Plant Engineering.
- After completion of the process, close the program.

## **Part Variants**

HiCAD currently offers more than 1000 part variants for Plant Engineering, which can be found in the PLANTPARTS sub-directory of your HiCAD installation. If you open a VAA file with the Variant Editor you will obtain extensive information about this variant.

Use the **DbPlantDataImport.exe** tool to import supplied (new) variants to your database if these are not yet contained in it.

## Please first check whether these variants do not already exist in your database!



- To transfer new variants to the HiC catalogue, use the tool VARTOCAT.EXE or the Part data synchronisation function.
- With the PLANTPARTSLIST.EXE tool you can generate a list of the current Plant Engineering variants in German, English, French, Italian and Polish. The list is written to a CSV file, which you can then open and edit with Microsoft Excel.

# Updating the HELiOS Database (Database Schema)

Improvements of the HELiOS functionality require a regular updating of the database; if the database version is no longer up to date, HELiOS displays the following message (version numbers may vary) when it is started:

III HELiOS System Message	-	×
2023-08-14 15:28:29.378 001 Database version verification error:		^
Abort! Helios cannot work with the active database.		
The following problem was detected when checking the schema:		
Non-supported database version 278 (required: 285). For this program the database version is not up-to-date.		
A database version update with the 'HeliosDbUpdate' program is requi	red.	~
<		> .:

To update the database schema, use the program HeliosDbUpdate.exe.

#### HELiOS Data base schema

As existing datasets with non-compliant conditions may cause conflicts during the central update process of the HELiOS delivery database, you should consider the following:

- 1. Do a database backup: You should make sure that a backup of your HELiOS database has been created before the update. This can be done with the HELiOS Database Creator or via your SQL server application. Please contact the ISD hotline if you have any questions or need support for your individual system architecture.
- The log file of the update: If any conflicts occur during the update, they are traced in the log file HeliosDbUpdate.txt (in the system path %appdata%\ISD Software and Systems\HeliosDbUpdate\). Have this file ready if you contact the ISD hotline for troubleshooting and successful updates.

## Please note:

- It is mandatory to make a database backup before the update, as the update can normally only be reverted by importing the backup.
- After an update, access is only possible with the appropriate HELiOS version. A mixed operation with HELiOS versions requiring an older database schema is not possible.
- The update must be performed once and applies to all HELiOS installations.
- As of HELiOS 2022 SP 1 (Version 2701), HeliosDbUpdate.exe no longer supports databases older than version 212 (corresponds to the database delivered with HELiOS 2013, Version 1800). In this case, use an older version of HeliosDbUpdate.exe or contact the Consulting department of the ISD.

- The responsible administrator should always be informed prior to the update, in order to enable a coordinated conversion.
- In some cases, a window with the message "The designations of the database attributes must be updated." will be displayed during the update process. In such cases, the language-dependent standard designations for attributes will be updated. This applies only to standard designations of attributes which have not been changed or created by the user, i.e. only for attributes according to the default settings. This means that designations that were assigned via Attribute Editor by the user will remain unchanged in the process.
- When updating a HELiOS version older than HELiOS 2022 Service Pack 2 (version 2702) to a newer one, an extended range of functions for deriving projects and folders is implemented. Please note that folders created via action lists of the workflow management or containing subfolders created via action lists cannot be derived. If corresponding folders are found in your database when updating the database schema, you will receive the following message:

"The functions for deriving project and folder structures have been extended. Currently it is not possible to derive folders which were created via action lists or which contain folders created via action lists with these functions. Since such folders exist in your database, please contact the ISD Consulting department to see to what extent adjustments will be necessary in the future."

 If you have pipe classes with identical pipe class numbers (RKLname), this will be displayed during a database version update.

HeliosDbUpdate	×
The following pipe class numbers exist multiple times: RN-00006. The database index for the pipe class will be defined anywa	ıy.
ОК	
To make the uniqueness check independent of the pipe class assigned for all objects in the database. The background is that never taken into account.	

Any conflicts in the database are reported during the database version update and a database index is created for the pipe classes. You can view this index with the programme HEL\_ATTREDIT.EXE and adjust your database or delete the index.

The update can be performed from any HELiOS workstation with a database connection. The **HeliosDbUp-date.exe** program is used for this purpose. It can be started via the Windows Explorer, or similar programs, from the exe directory of the HELiOS installation.

The following mask (software and database version may vary) will be displayed after starting the program:

HeliosDbUpdate: Update of database schema ×	😕 HeliosDbUpdate: Update o	database schema	×
Update Close Software-Version: 285 Database-Version: 278 Re-determine Check update capability of active database			Close Software-Version: 285 Database-Version: 278 Re-determine Check update capability of active

Click the Update database... button to start the update.

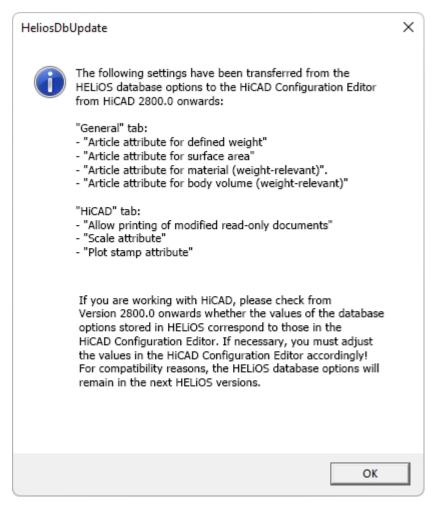
The following message (version numbers may vary) will be displayed after clicking the button.



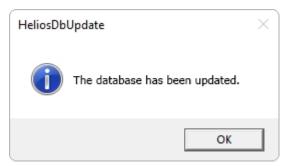
If you confirm this message with OK, another confirmation prompt is displayed.



The update starts after confirming the security question with Yes and leads to the following message after a successful update.



By switching from HELiOS Database Options to the HiCAD Configuration Editor, this important note will appear the first time you update to HiCAD 2800.0 or newer. Please read the note carefully.



A further check can be carried out by clicking the **Re-determine** button in the main window of the program, after confirming this message with **OK**.

After a successful update, software version and database version should be identical.

# Please note:

If you use HiCAD and HELiOS together it may occur after an update of HiCAD that according to the error message for verification of your database version the number of the required version is lower than that of the current one, which is, according to the message, not supported.

In this case, please contact our Hotline: Tel: 02 31 / 97 93 - 166 Fax: 02 31 / 97 93 - 101 E-Mail: support@isdgroup.com

# Manual Registration of Multi-CAD Add-ins

If you use both HiCAD and HELiOS on your system in mixed operation it is not possible (as opposed to the standalone version of the HELiOS Desktop) to establish an interface between HELiOS and further CAD or CAE software via an update or modification installation.

To do so you can use the HeliosCouplings.exe tool (in the /exe/ directory of the HiCAD installation).

It can be used to activate interfaces with AutoCAD, Inventor or EPLAN.

PHELiOS- Couplings		_		×
( ⊂ CAD				
AutoCAD <sup>®</sup> 2019	Not supported version			
Navisworks <sup>®</sup> 2021	Active in D:\usr3\helioshicad\2702.X_2022\dev\Install\exe64_Rel	ease (27.	2.2.503)	
Microsoft Office <sup>®</sup>				
Excel 16 Cutlook 16				
PowerPoint 16				
Word 16				
Others     EPLAN®	Not installed			
	OK Cancel			

Activate the checkbox of the required software and confirm with **OK**. The interface will then be activated. The respective software has to be installed in the system.

# New Mask Editor for HELiOS

The Mask Editor (as of HELiOS 2020) has been completely revised. Besides a modern ribbon design, which also supports operation at high resolutions, the basis for a further expansion of the masks and the editor has been laid.

The revision of the mask editor has also led to a conversion of the mask format to XML. Mask files are now managed outside the installation directory.

# New mask format and central mask configuration

In HELiOS 2020, the previous mask format has been changed from .msk to .xml, parallel to the revision of the mask editor. In addition, mask files are now managed outside the installation directory, resulting in some changes in the system architecture that administrators should urgently consider:

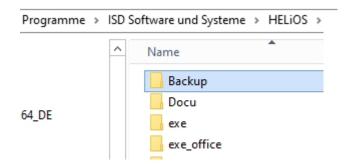
The masks of older versions that were previously stored in the \sys\ directory of the installation are automatically converted to the new XML format by an update installation of an older HELiOS version to HELiOS 2020 (V 2500.0) or higher and stored at%**Programdata**%.

At %**Programdata%**, the masks are stored in a version-specific path, i.e. for HELiOS 2020 this path could look like this: "C:\ProgramData\ISD Software und Systeme\HELiOS 2020\GUI\Masks". In a later version, the version identifier in the path will be correspondingly higher.

ogramData\ISD Software und Systeme\HELiOS 20	020\GUI\Masks	
Name	Änderungsdatum	Тур
📄 email	15.01.2020 03:09	XML-Dokument
Helios.Masks.Article.Creation	15.01.2020 03:09	XML-Dokument
📄 Helios.Masks.Article.Detail	15.01.2020 03:09	XML-Dokument
Helios.Masks.Article.Index	15.01.2020 03:09	XML-Dokument
Helios.Masks.Article.Modify	15.01.2020 03:09	XML-Dokument
Helios.Masks.Article.Search	15.01.2020 03:09	XML-Dokument
Helios.Masks.ArticleClass	15.01.2020 03:09	XML-Dokument
Helios.Masks.ArticleClass_anl	16.11.2019 03:09	XML-Dokument
Helios.Masks.Document.Creation	15.01.2020 03:09	XML-Dokument
Helios.Masks.Document.Detail	15.01.2020 03:09	XML-Dokument
Helios.Masks.Document.DetailEx	15.01.2020 03:09	XML-Dokument
Helios.Masks.Document.Index	15.01.2020 03:09	XML-Dokument
Helios.Masks.Document.Modify	15.01.2020 03:09	XML-Dokument
Helios.Masks.Document.Search	15.01.2020 03:09	XML-Dokument
Helios Masks DocumentClass	15 01 2020 03-09	XMI - Dokument

This conversion or directory is not dependent on whether the local or central directory was selected for the interface configuration (see below).

The old configuration file can then be found in a **Backup** directory that was created below the installation folder.



The new masks at **%Programdata%** should not be overwritten in any case, because these are the "delivery status", which may be updated by later update installations. If masks are edited and changed with the mask editor, they are stored at **%Appdata%** and are called up by HELiOS when working in corresponding masks from this directory.



This means: If masks are to be distributed uniformly to different workstations, they must be saved under **%Appdata%** and not (!) under **%Programdata%**.

# Mask Converter

During the update installation - starting from an installation earlier than HELiOS 2020 - the tool MskToXm-IUpdate.exe is placed in the exe directory of the HELiOS installation. This tool is used by the installation program when updating to HELiOS 2020 for automatically converting masks in the old MSK mask format to the new XML mask format. The images contained in the masks are also copied together with the masks.

If necessary, this tool can also be used to convert old mask files to the new XML mask format at a later date. To do this, the tool must be started as administrator from the Windows command line as follows

MskToXmlUpdate -BACKUPPATH=path name -MSKPATH=path name

A path must be specified for both the BACKUPPATH and MSKPATH parameters.

#### BACKUPPATH

Here the directory must be specified to which the "old" MSK/BMP files are to be moved after conversion.

After the conversion, a conversion log with the name \_MskToXmlResult.txt is saved in this directory.

#### MSKPATH

Here the directory has to be entered containing the files to be converted.

#### Example:

#### MskToXmlUpdate -BACKUPPATH=C:\helios\sys\backup\_msk -MSKPATH=C:\helios\sys\

The files are automatically converted into the file %PROGRAMDATA% of HELiOS, for instance [...]\ProgramData\ISD Software und Systeme\HELiOS 2020\GUI\Masks.

# New File Format for 2-D Files in HiCAD

Similar to the KRA files in 3-D there are now 2-D figure archives with the filename extension .FGA. This contain the previous 2-D data (.FIG), the DB attributes (.FIG.DBA2) as well as the attribute container data (.FIG.ATC) and replaces the former 2-D files. Moreover, the new FGA format allows the displaying of 2-D files in HiCAD Viewer and also contains the 2-D HCM files.

Discontinuation of old figure format (FIG)

The following notes regarding FIG-FGA conversion are unnecessary if HELiOS is used in conjunction with the HELiOS Vault Server.

Since HiCAD 2017 we support FGA as figure format (before that FIG). From HiCAD/HELiOS 2021 or HELiOS 2021 as an update for HiCAD 2019/2020 onwards, we require that all figures stored with HELiOS have been converted to the new FGA format beforehand. To convert existing 2-D FIG files, the tool Converter\_FIG\_To\_FGA.exe is available in the exe directory of the HiCAD installation.

If there are still unconverted FIG files in the HELiOS document database at the time of the database update, you will be informed of the outstanding conversion of these files before the database update. In this case, the conversion must be carried out before or at the latest directly after the update using Converter\_FIG\_To\_FGA.exe.

Conversion of 2-D Data to the FGA Format

Start the **Converter\_FIG\_To\_FGA.exe** program to convert the 2-D parts.

ol	der to sca	an: 🗸 D:\210X\	dev\I	nstall\Szenen							2
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inc.											6
2		t Folder		HicadDriveLe	etter	*.FIG					
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3	<ul> <li>✓</li> </ul>	C:\HiCAD\norm	1	B		0					
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All directories from the Filegrup.dat that are activated  $\checkmark$  will be considered when searching for FIG files.

Create backup (zip)	If you have activated Create backup a ZIP file with all selected FIG files will be created.
Overwrite exist- ing FGA	If you have activated the Overwrite existing FGA option, existing FGA files will be over- written if the names are identical with the converted files.
Folder backup and log	Enter the path for the backup and log file here.
Scan for *.FIG	By pressing the Scan for *.FIG button you start the search for FIG files in the selected folders.
Convert FIG -> FGA	Via Convert FIG -> FGA you start the conversion. In the process all *.FIG, *.FIG.DBA2 and *.FIG.ATC will be deleted.

After the conversion the number of converted files will be displayed. Furthermore, the number of defective converted files will be shown. Further information regarding the error can be found in the LOG file.

Convert FIG to FGA	×
Converted 1 fig files successfully. On 0 fig files an error occured. See file.	e log
0	К

# Installing the FIG-FGA Converter

Start Windows to install the FIG-FGA Converter. If Windows has already been opened, close all other applications and start the installation wizard.

In the installation wizard, click the **Standard Edition** button, which opens a mask with various selection options for software components.

Leave the selection mask of the installation wizard open, so that you can select the desired components one after the other.

Installation Documents	Client Installa
HiCAD - Installation Notes	HiCAD and HELiOS
OpenGL Test	HiCAD Viewer
Program support	HELIOS
The installation of the Help files is only required if there is Internet connection.	no PostScript Printer
HiCAD and HELiOS Help	
HiCAD Viewer Help	
HELiOS Desktop Help	Server Insta
Administrator Tools	HELiOS Spooler
This component may only be installed on the License Ser	HiCAD Spooler
License-Server	HELiOS Vault Server
HELiOS Database Creator	
FIG-FGA Converter	

Click on the FIG-FGA Converter button.

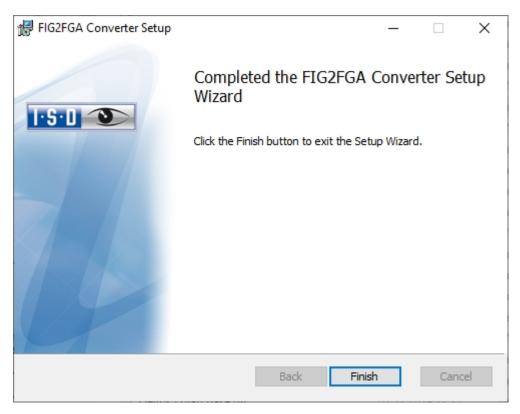


🖟 FIG2FGA Converter Setup	_		$\times$
Destination Folder	T	5·0 <	3
Please select the installation folder			
Install FIG2FGA Converter to:			
C:\Program Files\ISD Software und Systeme\FIG2FGA Converter\			
Change			
Back Nex	t	Cano	el

Enter the installation directory for the software.

提 FIG2FGA Converter Setup			×
Ready to install FIG2FGA Converter	T	5·0 <	3
Click Install to begin the installation. Click Back to review or change a installation settings. Click Cancel to exit the wizard.	ny of yo	ur	
Back Install		Cano	el

Click Install.



 $\label{eq:constant} After \ successful \ installation \ the \ Converter\_FIG\_To\_FGA. exe \ can \ be \ found \ in \ the \ program \ folder.$ 

# CatalogueMaker

## CatalogueUpdate

The tool **CatalogueUpdate** is used to update the catalogues and can be started automatically or manually. When updating HiCAD, the existing configuration is adopted, the tool CatalogueUpdate.exe is only started automatically if you have set the check mark in the **Extended settings**.

Extended settings		- 🗆 X
HELiOS Interfaces	LogiKal Interface	General
User Configuration	Catalogue	HELIOS
Catalogue directory	C:\HiCAD\Kataloge Copy catalogues to default	
✓ Execute CatalogueMaker	DIN ISO	~
Execute Catalogue Update	Previous version Interactive Overwrite write protected fr Retain own settings Delete backup copies Show log	iles
	OK Save Cancel	

If you want to add new tables to the catalogues or exchange catalogues with customers later, the program can be called from the EXE directory of the HiCAD installation.

sys\Language\1031\DIN_EN_10305-1_BZ.txt	×
Source DiffRingramm6+kjen+us/hitadB.catikataloge	
Target C:\HiCAD\Kataloge	
Settings         ✓ Overwrite write protected files         Retain user settings (Sort etc.)         ✓ When update successful, delete backup copy         ✓ Show log file after update         Start Catalogue Editor after update	Versions Before update 2802.1 After update 2900.0
Update 00:03:12	Cancel

For the automatic update during the update installation, the **Source** is preset. The path is automatically filled with the catalogues to be replaced.

If the program is started manually, then the source is to be selected as follows:

•	for		а	HiCAD		Update:
	\Program64\de-				de\hicad3	3.cat\Kataloge
	on the DVD or in	the ISO file of	the update.			
-	in	case	of	а	HiCAD	Patch:
	\de-				de\hicad3	3.cat\Kataloge

on the DVD or in the ISO file of the patch.

For foreign language installations, replace **de-de** with the corresponding language abbreviations, i.e. **en-us** (English) **fr-fr** (French), **it-it** (Italian), **pl-pl** (Polish).

Please note that the activation of the option **Retain user settings...** is possible, but not recommended. option is possible but not recommended. If you have activated the setting, some tables may not be displayed correctly. Check the log file if necessary.

#### Please note:

- For a version with a patch (i.e. .0 and .X), from HiCAD 2021 (e.g. version 2600.1) onwards, the catalogue is only installed once by the patch when reinstalling. Previously it was installed from the .0 and then updated from the patch, which of course takes much longer.
- During the update installation of the major release from HiCAD 2021 (e.g. from Version 2501 to 2600), the catalogue is updated only once from the patch of the previous version, instead of first from the base installation and then again from the patch as before. This also applies to the "silent installation".

#### CatalogueMaker

With the **CatalogueMaker** (HiCAD EXE directory) you can compile your individual selection of standards, whether a complete national standard or any combination of national and international standards. During a new or update installation, the CatalogueMaker is called up if the check mark is set in the **Extended settings**.

The CatalogueMaker is used to determine which series of standards are to appear in the parts catalogues (currently, series of standards for DIN, ISO, EN, ANSI and JIS are available); the selection of standards in the CatalogueMaker only affects the display of the parts catalogues, not their availability; this is still controlled by the licence selection in the configuration menu.

# Licensing

- General Notes on Licensing
  - ...for Local Licenses
  - ...for Network Licenses
  - ...for Commuter Licenses
- Installing the License Server
- Licensing via Licensing ID (License Activator)
  - AutoRequest Licenses
  - Activate Licenses
  - Deactivate Licenses
  - Trial Licenses
  - Reconstruction of Licenses
  - Notes on the Use of Modbile Computers (Laptops)
  - Floating Lizenzen
- Commuter Licenses
  - Checking Out Commuter Licenses, with Network Connection
  - Checking Out Commuter Licenses, without Network Connection
- License Configuration
- Server Monitor
- Theft of a Workstation

# General Notes on Licensing

HiCAD/HELiOS can be activated via 3 types of licenses:

- Standalone Licenses (Local Licenses)
- Network Licenses
- Commuter Licenses

#### Please note:

- A static IP address is required for a correct operation of the License Server.
- If you activated a license while the WLAN card is switched on, this license will only be valid and visible when the WLAN card is switched on.
- In the HiCAD/HELiOS directory DOCU you can find an Online Help for the Licence Manager. You start the Help by calling the LICENSEMANAGER.HTML file in the folder Docu\tools\Licensemanager.
- In the Online Help, on the PDF Documents on Various Topics page, you can find the document Checking out Licenses.

## General Information on Local (Workstation-specific) Licenses

If you choose local licensing, the activation will be directly locked to the hardware of the workstation on which your HiCAD and HELiOS Desktop program is installed.

The ISD will send you an E-mail containing the Entitlement ID for local licenses (standalone). This ID will be required for the activation and deactivation of the licenses and software modules. Please keep the Entitlement ID! Without this ID you cannot activate or deactivate any licenses! In case of a defect, no reconstruction of licenses will be possible without the Entitlement ID! After installing HiCAD/HELiOS, you activate the licenses by means of the License Activator in the ISD License Manager.

## General Information on (Server-controlled) Network Licenses

If you choose network (server-controlled) licensing, the license will be directly locked to the hardware of the server that centrally manages the HiCAD/HELiOS licenses. These licenses can be used on any workstation in your network that is connected to this server.

The ISD will send you an E-mail containing the Entitlement ID. If you have several network servers, e.g. at several locations, you will receive one Entitlement ID for each network server. This ID will be required for the activation and deactivation of the licenses and software modules. Please keep the Entitlement ID! Without this ID you cannot activate or deactivate any licenses! In case of a defect, no reconstruction of licenses will be possible without the Entitlement ID! You activate/deactivate the network licenses by means of the License Activator in the ISD License Manager.

To be able to use network licenses, a License Server needs to be installed on a computer without HiCAD/HELiOS.

The license server enforces and manages licensing in multi-user environment. It keeps track of all the licenses and handles requests from network users who want to run a HiCAD/HELiOS application, granting authorization to the requesters, or denying requests if all licenses are in use.

The license server must not be installed on the same computer on which an ISD software product (HiCAD/HELiOS) is installed, as both product share system data concerning the licensing information.

Formerly, such parallel installations of license servers and ISD products were performed in cases where a customer occasionally wanted to transfer the license to another computer (Remote Commuter License).

#### 💺 Important:

Installations of license servers and ISD products on the same computer are no longer covered by the warranty. The ISD group advises you strongly not to perform such installations.

A static IP address is required for correct operation of the license server.



# General Information on Commuter Licenses

Individual licenses can be checked out from the server and locked to a workstation within or outside the network (so-called "commuter licenses"). This enables you to continue working at a different location, without being connected to the license server (unless your HiCAD/HELiOS installation requires a connection to a database server). For this purpose you define a specific period during which you want the license to be available on a selected workstation. For this period, this license will be blocked on the license server. After expiry of this period, the license will be made available on the license server again. It is also possible to manually return this license to the server before expiry of the defined period, if the workstation is connected to the server. Licenses for one workstation can be checked out for at least one day, with the counting beginning at 1:00 AM on the day following the checkout date.

If you want to replace/exchange your license server, you need to deactivate all licenses first.

# Practical Examples of Network Licensing

- Let us assume that three licenses have been activated on your server. Monday morning (11.00 am) you suddenly need to see a customer for design tasks, and you know that you will still be on-site at the customer's facility on Tuesday. You therefore check out a license for 24 hours on 11.00 am. This means that you can use this license until Tuesday night, 11.59 pm, from your mobile workplace. After expiration of this period, the license is automatically made available again on the server. If you manage to finish your work on Tuesday at midday, you can go back to your office and return the license to the server somewhat earlier.
- Similar situation as the one described above, with the difference that you are not in your office on Monday, 11.00 am. In such cases you can generate a hardware ID, enabling your colleagues in the office to check

out a license for you. This license is sent to you by E-mail and can then be activated. In contrast to the previous example, this license is exclusively available to you for a fixed period of time and cannot be returned to the server before expiration of this period.

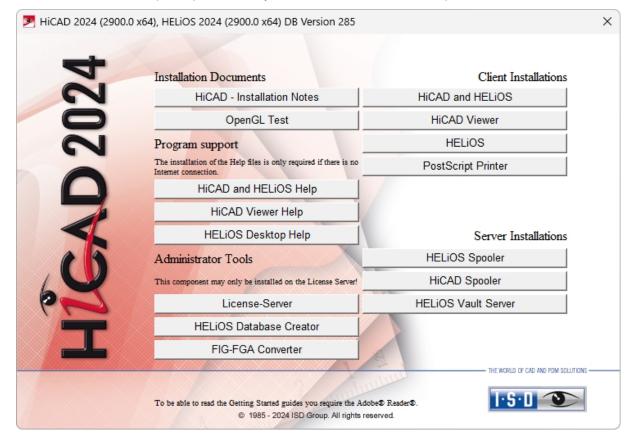
# Installing the License Server

If you want tp perform a HiCAD/HELiOS update to Version 2024 and use a license server (i.e. work with network licenses), you require Version 8.6.2 of the License Server. If you have installed an older version, you need to uninstall it before re-installing the License Server.

To install the License Server, start Windows. If Windows has already been opened, close all other applications and start the installation wizard.

Click the **Standard Edition** button, which opens a mask with various selection options for software components.

Leave the selection mask open, open, so that you can select the desired components one after the other.



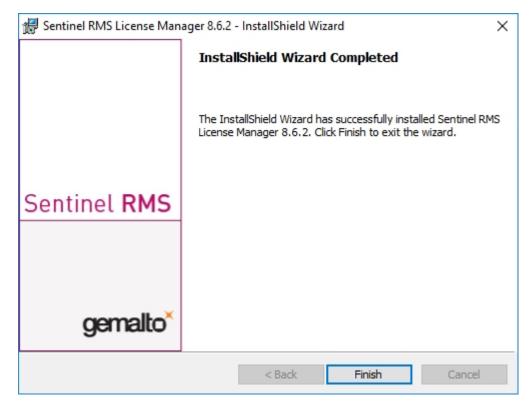
Click on the License Server button.

🕷 Sentinel RMS License Manager 8.6.2 - InstallShield Wizard 🛛 🛛 🗙				
	Welcome to the InstallShield Wizard for Sentinel RMS License Manager 8.6.2			
	The InstallShield(R) Wizard will install Sentinel RMS License Manager 8.6.2 on your computer. To continue, click Next. It is recommended that before continuing the installation, the previous version(s) are uninstalled, incase they are not used.			
Sentinel <b>RMS</b>				
	WARNING: This program is protected by copyright law and international treaties.			
gemalto <sup>×</sup>				
	< Back Next > Cancel			
🖟 Sentinel RMS License Man	ager 8.6.2 - InstallShield Wizard 🛛 🗙			
Sentinel RMS License Man License Agreement Please read the following lice				
License Agreement Please read the following lice	ense agreement carefully.			
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License Agreement Please read the following lice Licens	ense agreement carefully.			
License Agreement Please read the following lice License This License describes lin subsidiaries (such grantor A. The term "Software" consisting of machine re designed as libraries or of Keys and/or Software ("F	ense agreement carefully.			
License Agreement Please read the following lice License This License describes lin subsidiaries (such grantor A. The term "Software" consisting of machine re designed as libraries or of Keys and/or Software ("F hereunder shall remain in I accept the terms in the licent	ense agreement carefully.  e Grant/Warranty for Software  nited rights granted by SafeNet, Inc. and/or one of its , "Seller") to the Buyer.  , as used herein, shall mean a program or programs adable logical instruction and tables of information drivers to work in conjunction with Seller's Sentinel Products"). Title to all Software furnished to Buyer Seller. Seller grants to Buyer a non-exclusive non- meagreement			
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景 Sentinel	RMS License Manager 8.6.2	- InstallShield Wi	zard	X
	r Information			4
<u>U</u> ser Na Doku Organiza				
Install t	nis application for:	omputer (all users)		
Instalishield -		< Back	Next >	Cancel
🖟 Sentinel	RMS License Manager 8.6.2	- InstallShield Wi	zard	×
Destinati Click Nex	RMS License Manager 8.6.2 · ion Folder xt to continue installing to the fo Change to install to a different f	ollowing folder,	zard	×
Destinati Click Nex or click C	ion Folder xt to continue installing to the fo	ollowing folder, older. lanager 8.6.2 to:		Change
Destinati Click Nex	ion Folder xt to continue installing to the for Change to install to a different f Install Sentinel RMS License M C:\Program Files (x86)\Comm	ollowing folder, older. lanager 8.6.2 to:		

🖟 Sentinel RMS License Mana	iger 8.6.2 - InstallShield Wizard	×
Setup Type Choose the setup type that I	pest suits your needs.	
Please select a setup type.		
Complete     All program f     space.)	eatures will be installed. (Requires the most disk	
	h program features you want installed and where ed. Recommended for advanced users.	e they
InstallShield	< Back Next >	Cancel
🖟 Sentinel RMS License Mana	ger 8.6.2 - InstallShield Wizard	×
	System Firewall Settings Need T The setup program will install the Sentinel R Manager (license server) on this system. To communication between the RMS License M clients running licensed applications, the sy settings need to be modified. The Sentinel R Manager will be added to the firewall blockin list.	MS License allow anager and the stem firewall RMS License
Sentinel <b>RMS</b>	Keep the checkbox below selected to unblo firewall. Clearing this checkbox will let the f block the communication between the client RMS License Manager.	irewall
gemalto <sup>×</sup>	Unblock the system firewall for the Sent License Manager Tip: For instructions on unblocking the firev refer to the Sentinel RMS SDK System Adm Help.	vall later,
	< Back Next >	Cancel

🖟 Sentinel	RMS License Manager 8.6.2 -	InstallShield Wiz	zard	×
	Install the Program rd is ready to perform selected	operation.		
	all to begin the installation. ant to review or change any of wizard.	your installation se	ettings, dick Back.	Click Cancel to
InstallShield –		< Back	Install	Cancel
🖟 Sentinel	RMS License Manager 8.6.2 -	InstallShield Wiz	zard —	X
	Sentinel RMS License Man ram features you selected are	_		
InstallShield	Please wait while the InstallSh Manager 8.6.2. This may take Status:		s Sentinel RMS Lice	
		< Back	Next >	Cancel



After successful installation you will find the Server (Sentinel RMS License Manager) under Services. From here you can also start and end the License Server.

Services ile Action Vie	w Help						_	×
	a 📑 🛛 🖬 🕨 🗉 🗤 🕨						 	
Services (Local)	Services (Local)							
	Sensor Service	Name	Description	Status	Startup Type	Log On As		
		🧠 Remote Access Auto Connectio	Creates a c		Manual	Local Syste		
	Start the service	Remote Access Connection Man	Manages di	Running	Automatic	Local Syste		
		🌼 Remote Desktop Configuration	Remote De	Running	Manual	Local Syste		
	Description:	🌼 Remote Desktop Services	Allows user	Running	Manual	Network S		
	A service for sensors that	🍓 Remote Desktop Services User	Allows the r	Running	Manual	Local Syste		
	manages different sensors'	🌼 Remote Procedure Call (RPC)	The RPCSS	Running	Automatic	Network S		
	functionality. Manages Simple	Remote Procedure Call (RPC) Lo	In Windows		Manual	Network S		
	Device Orientation (SDO) and	🌼 Remote Registry	Enables re		Disabled	Local Service		
	History for sensors. Loads the SDO sensor that reports device	🌼 Retail Demo Service	The Retail D		Manual	Local Syste		
	orientation changes. If this	Routing and Remote Access	Offers routi		Disabled	Local Syste		
	service is stopped or disabled,	RPC Endpoint Mapper	Resolves RP	Running	Automatic	Network S		
	the SDO sensor will not be	Secondary Logon	Enables star	Running	Manual	Local Syste		
	loaded and so auto-rotation will	🧠 Secure Socket Tunneling Protoc	Provides su	Running	Manual	Local Service		
	not occur. History collection from Sensors will also be	Security Accounts Manager	The startup	Running	Automatic	Local Syste		
	stopped.	Security Center	The WSCSV	Running	Automatic (D	Local Service		
		Sensor Data Service	Delivers dat		Manual (Trig	Local Syste		
		🍓 Sensor Monitoring Service	Monitors v		Manual (Trig	Local Service		
		Sentinel RMS License Mana	Sentinel RMS		Automatic	Local Syste		
		10 Sonvor	Supporte fil	Running	Automatic (Tr	Local Syste		

# \rm Important:

To ensure that the HiCAD/HELiOS Client will find the correct License Server, an environment variable LSFORCEHOST should be set on each Client using network licenses. The value HOSTNAME, respectively the IP address of the License Server is assigned to the variable.

# Licensing via Entitlement ID (License Activator)

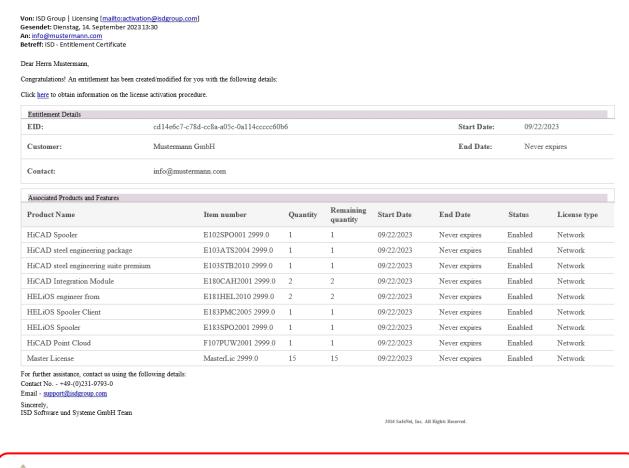
The ISD License Manager significantly facilitates the communication between the customer and the ISD during licensing.



For the activation of HiCAD/HELiOS 2024 the ISD License Manager 4.0 will be required.

# AutoRequest Licenses

When acquiring a HiCAD/HELiOS license, you will obtain one Entitlement ID for local licenses (Standalone) and another one for network licenses (Network). If you have several network servers, e.g. at different locations, you will obtain one Entitlement ID for each network server. These numbers will be required for the activation and deactivation of the licenses and the software modules.



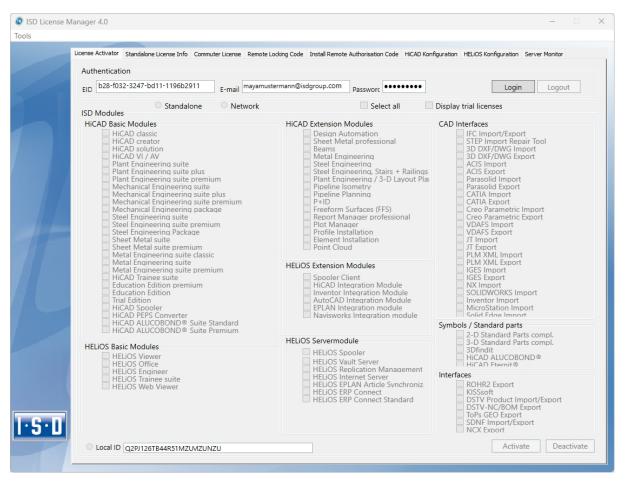
# \rm Important:

Please keep the Entitlement ID! Without this number you cannot activate or deactivate licenses. In case of a system crash a reconstruction of the licenses cannot take place without the Entitlement ID.

After installing HiCAD/HELiOS you can find the program in the Windows Start menu at **ISD Software und Systeme > Administration**. Please note that for the execution of some functions, administrator rights are required. The range of functions of the **ISD License Manager** depends on the activation of the License Administration Tools option. The information about this setting is entered in the Registry and can also be changed there subsequently if desired (please contact the Hotline).

#### lmportant:

To activate/deactivate Network Licenses, always start the ISD License Manager via the Windows Start menu: Select Start > All programs > ISD Software und Systeme GmbH > Administration. To avoid errors when activating/deactivating licenses, perform an update of the new ISD License Manager and/or the License Administration Tools beforehand.



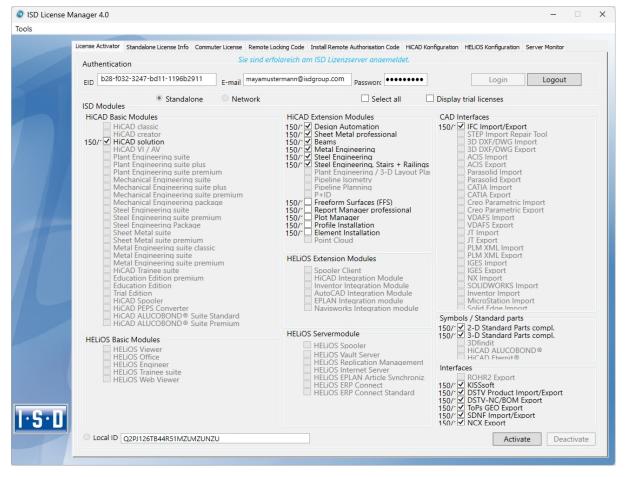
Activate the License Activator tab and enter the Entitlement ID, your E-mail address and your Password. New customers obtain their password from the ISD Hotline. With this password you can also access the Download Area.

After entering the data, click **Login**. The ISD License Manager connects to the ISD License Server and the acquired licenses will be displayed.

This process may take several minutes. You can then activate the licenses.

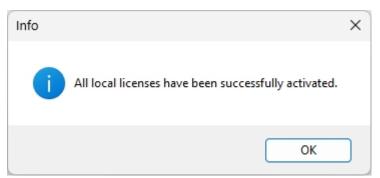
# Activate Licenses

After successful Login the number of available licenses and the number of acquired licenses are indicated next to each module.



Select the modules to be activated and click **Activate** to start the activation. For Server Licenses the modules are already pre-selected.

After successful activation a message showing you that all licenses have been successfully activated will be displayed:



You can then log out and work with the HiCAD/HELiOS modules.

In addition, you will receive an E-mail informing you about the deactivated modules.

For Network Licenses, all modules will always be activated or deactivated (for further information about the operation of the License Manager, please read the Online Help for the License Manager).

## **Deactivate Licenses**

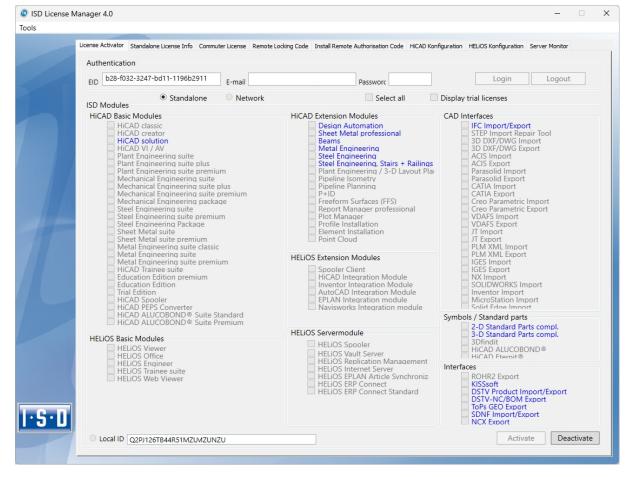
A deactivation of licenses for modules will be required in the following situations:

- Exchange of hardware or changing of hard disk partitioning
- Update of the operating system, e.g. from Windows 8 to Windows 11). For updates within one version no deactivation will be required.)
- Transfer of local modules from one workstation to another
- Acquisition of further modules, or return of hired licenses
- Switch from local licenses to network licenses

Please note the following: All workstations with modules having the same Entitlement ID need to be deactivated completely before a redistribution of the module licenses can take place.

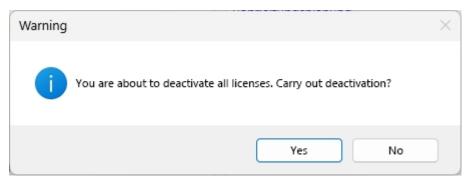
Close all HiCAD/HELiOS applications before deactivating local licenses or logging onto the License Manager.

After starting the ISD License Manager the activated modules will be highlighted in a different colour.



Click the Deactivate button to revoke the activation of the modules.

A selection is not possible, as you need to deactivate all modules, no matter whether local licenses or network licenses. The deactivation process must not be disrupted, e.g. by a logout or the closing of ISD License Manager!



Click on Yes when the security prompt appears.

After successful deactivation the following message will be displayed.

Info	×	<
i	All local licenses have been successfully deactivated.	
	ОК	

# **Trial Licenses**

If you select **Display trial licenses** after login, you will be also shown, besides all trial licenses with a limited period of validity, all purchasable licenses which are not simultaneously available as trial licenses.

## **Reconstruction of Licenses**

As all licenses are stored on the ISD Server, you can, in case of an interrupted connection or an accidental deletion of licenses, restore all licenses by logging in with your Entitlement ID. The restoring will only function if the hardware was not changed (see Deactivate Licenses).

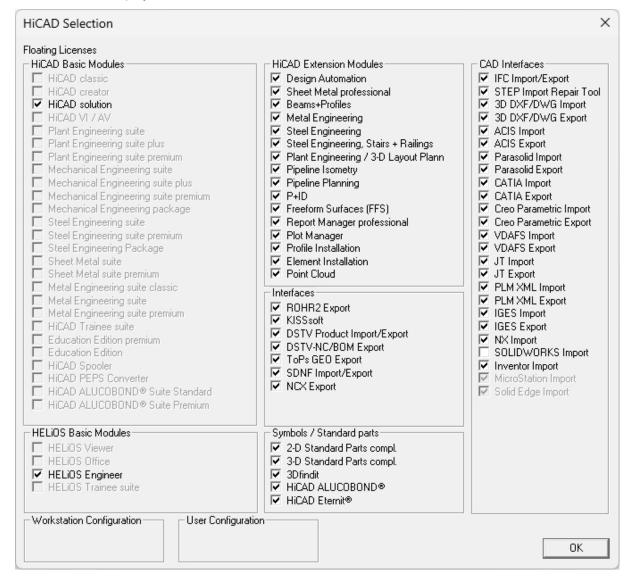
## Notes on the Use of Mobile Computers (Laptops)

If you use a computer with WLAN card, Please make sure that the WLAN card is either always switched on, or always switched off.

# **Floating Licenses**

If you have acquired a HiCAD Extension Module with the property Floating-able at runtime, you can activ-

ate/deactivate them during the current HiCAD session. To do this, click on the m HiCAD nach dem **Help** vice icon on the top right of the HiCAD screen and choose the option **Floating Licenses**. The HiCAD module selection window will be displayed:



If one Extension Module is (de)activated, the Extension Modules that are prerequisites for this module will also be (de)activated (if they are also floating-able at runtime).

# **Commuter Licenses**

Commuter licenses enable you to use network licenses even if the workstation is not connected to the Server. There are two ways of receiving commuter licenses:

- Checking Out Commuter Licenses, with Network Connection
- Checking Out Commuter Licenses, without Network Connection

# Checking Out Commuter Licenses, with Network Connection

Start the ISD License Manager (while a connection to the Server still exists). Switch to the Commuter License tab.

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Tools		
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License Activator Standalone License Irino Communa Cacinac Remote Locaring Code Instan Remote Authorisation Code mic.4D Koringuration TELIOS Koringuration	Server Monitor	
168.168.10.105(EMTM19) Check Server Name / IP Search network		
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Check out authorisation for remote computer		
Commuter license: Validity in days		
Commune meense, vanang in days		
Update licenses		
1·S·D		

Use the **Search network** button to automatically search for License Servers. Expand the tree structure of the found Server by a click on the "+"-sign. All Versions will then be shown on the License Server. The result looks as follows:

ISD License Mai	nager 4.0			– 🗆 X
Tools				
	License Activator Standalone License Info Commuter License	Remote Locking Code Install Remote Au	thorisation Code HiCAD Konfiguration HELiOS Konfiguration	Server Monitor
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		Check out authorisation for remote comp		
			Update licenses	
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Select the required licenses by activating the corresponding checkboxes on the left hand side.

License Activator Standalone License In	fo Commuter License	Remote Locking Code Install Remote Aut	horisation Code HiCAD Konfigu	ration HELIOS Konfiguration Server Moni	tor
168.168.10.105(EMTM19)		Check Server Name / IP	Search network		
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		Check out authorisation for remote compu Commuter license: Validity in days	ter <u>1 </u> 60		
			Update licenses		
S·D					

On the right hand side, information on the selected license is displayed.

In the **Commuter license: Validity in days** field, you enter the number of days that you want the commuter licenses to remain checked out from the Server. The maximum number of days is 60. By default (or if a "0" is entered), the value is set to 1.

For reasons of safety you should check out the licenses only for the required period! If a commuter license is lost, e.g. because of theft or a defect of the client computer, the license on the Server cannot be used any more before expiry of this date.

After entering the expiry date for the commuter licenses, click the **Update licenses** button. The Commuter licenses are checked out from the Server.

ISD License Manager 4.0			<u> </u>	×
Tools				
License Activator   Standalone License Info   Commuter Licens 168.168.10.105(EMTM19)	e Remote Locking Code Install Remote Aut	horisation Code HiCAD Konfiguration	HELIOS Konfiguration Server Monitor	
TO CONTRICT OR CONTRICT	Creck Server Name / IP     Name     License name on Server     License version     Maximum "License oheck OUT" duration     Max. number of simultaneous users     Commuter tokens occupied     Commuter tokens free     License expiry date     Check out authorisation for remote computer     Commuter license: Validity in days	Description Sheet Metal professional 9 2999.0 Restricted to license expiry 10 0 10 Mon Mar 31 23:59:59 2025		

All selected licenses are now checked out from the Server and you possess all rights on your computer for the specified validity period for the commuter licenses. This means that you are enabled to work network-independent. The checked out licenses are no longer available to the other computers on the network.

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You can however also return the commuter licenses before their expiry date. To do this, you need to connect to the Server, deactivate the checkboxes on the left and click the **Update licenses** button. All licenses are now made available on the Server and locked on your computer, i.e. you can now only use HiCAD/HELiOS if there is a connection to the License Server. The licenses made available again can now also be used from other workstations.

## Checking Out Commuter Licenses, without Network Connection

Commuter licenses can also be drawn from the License Server without an existing network connection. For this **Administrator rights** are required.

Commuter licenses checked out in this way cannot be returned to the License Server! This means that the commuter licenses that have been checked out from the Server are only (automatically) made available again after their expiry date.

Several steps are required for checking out without network connection - by the Administrator having a network connection to the License Server, as well as by the Client (that is, your laptop) having no network connection to the License Server.

As long as commuter licenses are checked out in this way, it is not possible to update the network licenses on the server. The same applies when buying new modules/licenses and changing the configuration.

The Client starts the ISD License Manager tool, switches to the Remote Locking Code tab.

D License Ma	nager 4.0 —	
	License Activator Standalone License Info Commuter License Remote Locking Code Install Remote Authorisation Code HICAD Konfiguration HELIOS Konfiguration Server Monitor	
	Identification string Identification string of current computer:	
	7203926363d3c2f333832273b3a2d313a25306f1313d30383f3f2a474144564e39313326	
	Copy to clipboard Save as file	
	Send to e-mail receiver	
	Send identification string to E-mail receiver	
	E-mail address mayamustermann@isdgroup.com	
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Then, the Client sends the generated character set to the Administrator (via E-mail or over the phone). The Administrator starts the ISD License Manager and switches to the Commuter License tab.

Litense Activator       Standalone License Info       Commuter License       Remote Locking Code       Install Remote Authorization Code       HCAD Konfiguration       HEUOS Konfiguration       Server Monitor         181 183.101 105[KMTM19]       Deck Server Name / IP       Search network         1001       Poter Server Name / IP       Search network         1001       Digit HCAD classic Version '2393.01       Digit HCAD classic Version '2393.01       Digit HCAD classic Version '2393.01         1003       HCAD activation Version '2393.01       Digit HCAD classic Version '2393.01       Digit HCAD classic Version '2393.01         1003       HCAD Automation Version '2393.01       Digit HCAD classic Version '2393.01       Digit HCAD classic Version '2393.01         1003       Sheed Med professional Professional Dice Version '2393.01       Dice the Version '239.01       Dice marker of the Version '239.01         1011       Med Engineering Version '239.01       Dice Version '239.01       Dice Med Engineering Version '239.01         1011       Diversion Sufface: Version '239.01       Diversion Sufface: Version '239.01       Diversion '239.01         1011       Diversion Sufface: Version '239.01       Diversion Sufface: Version '239.01       Diversion '239.01         1011       Diversion Sufface: Version '239.01       Diversion Sufface: Version '239.01       Diversion '239.01         10111	Manag	er 4.0				
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[023] Reality Studio Version "2999.0      Check out authorisation for remote computer      Commuter license: Validity in days						
Commuter license: Validity in days 1 60						
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Update licenses				60		
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Update licenses			0			
			l	Update licenses		
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The License Server will be selected, and the required licenses (modules) are activated in the left window. In the **Commuter license: Validity in days** field, you enter the number of days that you want the commuter licenses to remain checked out from the Server. The maximum number of days is 60. By default (or if a "0" is entered), the value is set to 1. To checkout a remote commuter license the administrator now needs to activate the **Check out authorisation for remote computer** checkbox **v**. Administrator rights are required for this.

A click on the **Update licenses** button opens a new dialogue window, in which the administrator enters the character set received from the Client

Identification code of remote computer	×
Revocation code string Enter revocation code of remote computer	
5232236353626373e402225253c353a3f342928265f51383c252322363536232925	
OK Cancel	

After selecting **OK**, another dialogue opens.

License file path	×
Commuter-Authorisation in Datei spiechern	
C:\Users\qs\Desktop\RemoteLicCode.lic	
	OK Cancel

Here the Administrator enters the target path and the file name for the licenses to be swapped out. Make sure that a unique file name is used, for example, by including in the file name the host name of the remote computer and the expiry date.

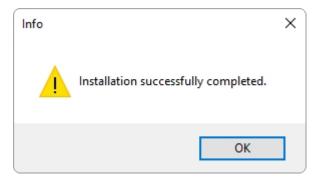
ISDLicense Manager	×
Commuter authorisation successfully created.	
ОК	

Click **OK** to check out the commuter licenses from the License Server and swap them out to a file, e.g. RemoteLicCode.lic.

After receiving the file with the commuter licenses, the Client starts the **ISD License Manager** again and activates the **Install Remote Authorisation Code** tab.

ISD License M	lanager 4.0	_	$\times$
Tools			
	License Activator Standalone License Info Commuter License Remote Loding Code Install Remote Authorisation Code HICAD Konfiguration HELIOS Konfiguration Server	Monitor	
	Remote authorisation		
	O Enter remote authorisation code		
	Remote authorisation code		
	Read authorisation code from external file		
	Remote authorisation file		
	C:\Temp\RemoteLicCode-07282023.lic		
	Install remote commuter license		
I-S-D			

Now the Client can install the received commuter licenses directly via file selection or via copying of the file contents. Click the **Install Remote Commuter License** button to install the Commuter Licenses on the Client.



After successful installation, the Client must switch to the Standalone License Info tab.

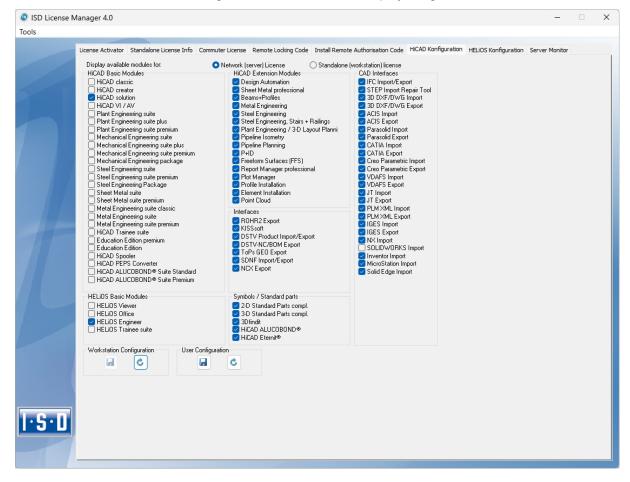
License Ma	anager 4.0						<u>-</u>	
	License Activator Standalone License Info	Commuter Lice	nse Remote Locking Code Insta	I Remote Authorisation Code	HiCAD Konfiguration	HELIOS Konfiguration Serv	ver Monitor	
-	New license file C:\ProgramData\ISD Software und S							
	License information Licenses issued by : IS	D Software und S	iysteme GmbH					
	Licenses issued to:	Version	Gültig bis:					
1	Module [009] Blech Professional		Guing bis: Sat Jul 29 23:59:59 2023					
5•D								

To update, the Client must click on the **Activate** button. The information which licenses are installed locally on the computer will then be provided to the Client.

## **License Configuration**

Some cases may require the use of only certain specific licences on a computer. Example: On the Server HiCAD Creator and HiCAD Solution licenses are available. On one Client, HiCAD is to be started with a HiCAD Creator license; on another Client, with a HiCAD Solution license. If the selected license is no longer available, an application start is no longer possible.

If there are several basic modules in a standalone (workstation) license (to which also the Commuter Licenses belong), it is mandatory to make a pre-configuration and save it as workstation configuration. If no pre-configuration is possible, the HiCAD configuration tab will be displayed before the start of HiCAD/HELiOS. If the selected configuration does not match the available licenses, a warning message will be issued, with a list of available licenses. After this, the configuration selection will be displayed again.



ISD License Ma	nager 4.0	-	×
Tools			
	License Activator Standalone License Info Commuter License Remote Locking Code Install Remote Authorisation Code HICAD Konfiguration HELIOS Konfiguration	Server Monitor	_
T	License Activator Standalone License Info Commuter License Remote Locking Code Install Remote Authorisation Code HCAD Konfiguration HELIOS Konfiguration Standalone (work:station) license Standalone (work:station) license Standalone (work:station) license HELIOS Viewer HELIOS Viewer HELIOS Trainee suite Work:station Configuration User Configuration User Configuration User Configuration Standalone (work:station) license HELIOS Viewer HELIOS Unice Standalone (work:station) license Standalone (work:station Configuration User Configuration User Configuration Standalone (work:station) license Standalone (work:station) license Standalone (work:station Configuration User Configuration User Configuration Standalone (work:station) license Standalone (work:station Configuration Standalone (work:station) license Standalone (work:station) license Standalone (work:station Configuration Standalone (work:station) license Standalone (work:st	Server Monitor	
I·S·D			

On the **HiCAD Configuration** or **HELiOS Configuration** of the **ISD License Manager** tool you have the option to save a workstation or user configuration for individual Clients.

- Save as workstation configuration: This configuration will be saved for all users of this computer. When HiCAD/HELiOS is started, the selection window is no longer displayed (administrator rights are required for this).
- Save as user configuration: This configuration is only saved for the current user. When HiCAD/HELiOS is started, the selection window with the saved configuration is always displayed.

These license configurations apply to network licenses and standalone (workstation) licenses.

### Licence selection with parallel product start

If you start several applications without licence selection (e.g. without workstation configuration) one after the other, the system checks whether a licence selection dialogue is already displayed in another application. If this is not the case, the dialogue is displayed.

If another licence selection dialogue is already displayed, then you will receive the following message:

HELIOS	×
A license selection dialogue is already displayed in another application. Please confirm the desired license selection there first and then choose "Repeat" to continue with the start of the current application.	
Repeat Cancel	

The **Repeat** button checks whether another licence selection dialogue is started at the same time. If yes, the same information dialogue appears again. If not, the start (and possibly the display of the licence selection dialogue) is continued.

Use the **Cancel** button to end the start of the application.



### Please note:

If no licence could be reserved for the HiCAD integration module, only viewing functionalities are available in the HELiOS, regardless of the selected basic module.

## Server Monitor

With the ISD License Manager tab **Server Monitor** you are allowed (as far as you are able to execute ISD License Manager) to view detailed information as follows:

- Listing of available modules with module description (e.g. "Element Installation"). Relevant is the License Server which the user is connected with.
- Apart from the module description, the maximum amount of available licenses as well as allocated licenses is displayed.
- You can open up the available modules and here the users using the respective license are displayed.
- The listing of users using a license also shows which user is connected with the License Server and which user uses a Commuter License.

By listing the licenses you can easily see who blocks licenses and, for example, easily speak to them in case if you need a license.

In the installation program, the tab **Server Monitor** is activated by clicking on the option **Activate license** administration tools.

License Activator Standalone License	a Info Commuter Licenso Bom	ote Locking Code Install Remote Author	risation Code HiCAD Konfiguration HELiOS Konf	Bouration Server Monit
	e into Commuter License Kein	ote Locking Code Install Reliote Addio	Isation code Hicab Koniguration HELIOS Koni	Igurauori berver norm
<ul> <li>EMTM19 (168.168.10.105)</li> <li>[001] HiCAD Spooler, Ver</li> </ul>	rrion 2000 0 (2 (150)			
		01-1-07.07.0000.15-05-00	Committee Sales	
Client : qs	Host : 06 Host : 03	Start : 27.07.2023 15:25:20 Start : 27.07.2023 10:42:14	Commuter : False Commuter : False	
Client : qs [002] HiCAD classic , Vers		Start: 27.07.2025 10:42:14	Commuter : Faise	
[002] HICAD classic, vers [003] HiCAD creator, Vers				
<ul> <li>[003] HICAD creator, ver</li> <li>4 [004] HiCAD Solution, Ver</li> </ul>				
Client : TQ	Host : EM16	Start : 27.07.2023 14:58:11	Commuter : False	
Client : tester	Host : EM-WS3	Start : 27.07.2023 14:58:04	Commuter : False	
Client : BB Client : OA	Host : EM02	Start : 27.07.2023 14:57:31 Start : 27.07.2023 14:53:49	Commuter : False Commuter : False	
Client : JW	Host : EM01		Commuter : False Commuter : False	
	Host : EM21	Start : 27.07.2023 14:53:32	Commuter : False Commuter : False	
Client : EK	Host : EM11	Start : 27.07.2023 14:53:10		
Client : us Client : MV	Host : EM15 Host : ET06	Start : 27.07.2023 14:51:53 Start : 27.07.2023 14:51:34	Commuter : False Commuter : False	
Client : MV Client : DC			Commuter : False Commuter : False	
	Host : EM68	Start : 27.07.2023 14:50:12		
Client : FW	Host : EM16	Start : 27.07.2023 14:48:54	Commuter : False	
Client : GS	Host : DDM08	Start : 27.07.2023 14:45:50	Commuter : False	
Client : tester	Host : de-R35	Start : 27.07.2023 14:44:10	Commuter : False	
Client : TSch	Host : EM00	Start : 27.07.2023 14:42:48	Commuter : False	
Client : gch	Host : EM79	Start : 27.07.2023 14:32:40	Commuter : False	
Client : mh	Host : EM86	Start : 27.07.2023 14:22:39	Commuter : False	
Client : DR	Host : EM115	Start : 27.07.2023 14:09:25	Commuter : False	
Client : tester	Host : EM-S24	Start : 27.07.2023 13:53:15	Commuter : False	
Client : FR	Host : ETM31	Start : 27.07.2023 13:31:56	Commuter : False	
Client : FF	Host : EM52	Start : 27.07.2023 13:27:42	Commuter : False	
Client : tester	Host : Test-12	Start : 27.07.2023 13:21:50	Commuter : False	
Client : EA	Host : EM6	Start : 27.07.2023 11:38:33	Commuter : False	
Client : UF	Host : EM09	Start : 27.07.2023 11:35:54	Commuter : False	
Client : XF	Host : EM04	Start : 27.07.2023 10:57:29	Commuter : False	
Client : MK	Host : EM66	Start : 27.07.2023 09:47:08	Commuter : False	
Client : HA	Host : EM50	Start : 27.07.2023 09:40:18	Commuter : False	
Client : ap	Host : EM62	Start : 27.07.2023 09:32:38	Commuter : False	
Client : FH	Host : DDM73	Start : 27.07.2023 08:26:56	Commuter : False	
Client : VG	Host : EM057	Start : 27.07.2023 07:27:19	Commuter : False	
Client : MT	Host : EM035	Start : 26.07.2023 17:16:45	Commuter : False	
Client : tra	Host : EM41	Start : 25.07.2023 13:04:15	Commuter : False	
Client : lb	Host : EM073	Start : 20.07.2023 13:22:14	Commuter : False	
[013] Steel/Metal Enginee	ering , Version 2899.0 , ( 24 /	150)		
[014] Steel Engineering ,	Version 2899.0 , ( 26 / 150 )			

## Theft of a Workstation

The user is responsible for appropriately insuring the HiCAD and HELiOS workstations against theft. If desired, we can tell you the reinstatement value of your software. If a workstation is stolen, you will need a new license. In such cases, please send us the police report of the theft first. We will then provide you with a license for a limited period of time, and submit an offer for a new license to you. The ISD will send you the new license after clarification of the case with your insurance and receipt of your payment for the license fee.

# **First Steps**

- HiCAD at a Glance
- Start HiCAD
- DLL Check
- Start Center
- Close HiCAD
- HELiOS at a Glance
- Start HELiOS
- What's New in Version 2024?

# HiCAD at a Glance

HiCAD is a versatile CAD with a unique, combined 2-D/3-D approach, innovative functions, comprehensive industry solutions and an integrated PDM component. State-of-the-art technologies and a multitude of automatisms help you speed up your daily routine tasks. And simulation and analysis tools enable you to find and correct possible collisions and errors in your product models at very early design stages.

Performance characteristics:

- Microsoft Windows Standard
- GUI with multifunctional toolbar (Ribbon)
- Combined, fully associative working in 2-D and 3-D
- From 2-D to 3-D via model reconstruction
- Part-oriented designing
- Combined free ("direct") and parametric modelling
- Information + Communication Navigator (ICN)
- Automatic object snap and context menus (opened via right-click)
- Access to extensive symbol and standard part libraries (also online)
- Function simulation with the HiCAD Constraints Manager (HCM)
- Mounting, transport and motion simulations
- Free-form surface (FFS) technology
- Part referencing
- Feature technology
- Material Editor and lighting models
- Integrated Product Data Management (PDM) with HELiOS
- Transfer of data from other systems (CATIA, ME10, STEP, DXF, DWG etc.)
- BOM creation, PPS interface, data transfer to NC machines
- Powerful and versatile industry solutions
- Modular, expandable structure

## Start HiCAD

You start HiCAD by

- Selecting the HiCAD symbol via the Start button on the Windows task bar (Start > All Programs >ISD Software und Systeme > HiCAD), or
- via the HiCAD icon 2 on the Desktop of your computer.

Once you have started HiCAD, the input window for License Management is initially displayed, followed by the HiCAD Start Centre (provided that it has not been deactivated).

If you use HiCAD in conjunction with HELiOS, a login may be required to start HiCAD.

To make the best possible use of the numerous new features and enhancements offered by HiCAD, check out the videos explaining the new and changed HELiOS functionalities. From now on we will provide you with such videos with each Major Release and Service Pack to keep you constantly informed in the best possible way.

You can configure the display of the **News window** at the bottom left. Please note that you can configure the display of the News window at the bottom left. We recommend using the **Show most recent news** option to ensure that you will never miss any news about HiCAD. If you selected the **Show never** option, you can call

the News window again at any time and change the display option by clicking on the very symbol at the top right and selecting **Show news**.



### Please note:

During the start of HiCAD it is checked whether the required version of .NET Framework is actually installed. If this is not the case, an appropriate error message will be displayed and HiCAD will be closed.

## DLL Check

Due to entries in the Windows-Registry, more and more libraries from third parties (DLL file) are integrated when HiCAD is launched, e.g. in order to capture messages or outputs to the screen. Some examples are

- Virus scanners,
- PDF creation programs,
- Programs for recording of screen activities,

etc. These files can sometimes cause problems.

When you start HiCAD, it will first be checked whether DLL files are assigned to the Registry value AppInit in the Registry key

- HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Windows (64-Bit)
- HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Windows NT\CurrentVersion\Windows (32-Bit)

If this is the case, the following message will be displayed:

Hicad × Entries in the Windows Registry (AppInit\_DLLs) cause an automatic integration of third party libraries upon HiCAD launch. Problems with these third party libraries may also cause problems in HiCAD. Contact your administrator to switch off this mechanism. Suppress message OK

Activate the **Suppress message** checkbox if you do not want this message to be displayed upon future HiCAD starts. Also inform your administrator about the message. The message will not reappear until the Registry value changes again, i.e. not until other DLLs will be loaded!

To display the message again independently of this, set the value for the key **CheckBoxState** in the Windows registry at

HKEY\_CURRENT\_USER\SOFTWARE\ISD Software und Systeme\HiCAD 2024]\Splash Screen

to **0**.



Be careful when editing the Registry! The entering of incorrect values or the deleting of values may destablilize the operating system!

## Start Centre

When you start HiCAD for the first time, the **Start Centre** will be displayed, which has been designed to facilitate your first steps of drawing creation.

reate new drawing		Load exist	ting drawing	
Oreate new drawing	g (3-D/2-D part)	🔘 Load	via database	
Oreate new drawing	g (3-D assembly)	Activ	vate project: (No)	Ŧ
ptions		O Load	via Explorer	
Enter drawing into o		🔘 Load	via 2-D Interface	
Activate project:	(No) 🔻	🔘 Load	via 3-D Interface	
Scale:	1:1			1.
Start mode	(none)	•		and the state
Create processing plan	2:		AL M	and a
X/Y-plane		He as	· · · · · · · · · · · · · · · · · · ·	
X/Z-plane		are a	the state	. Le
Y/Z-plane		A		\$
View projection:	Standard axonometry		A MARINA	
View representation:	Shaded with edges	•	ALLER ALL	<u>I-5-U</u>
			www.isdgroup.co	m

Click on the graphic to obtain information about the version number, the name of the current drawing and

the occupied memory. This corresponds to the calling of the function HiCAD in the 🤍 menu.

- When you call the Start Centre again, the last set values will be displayed as default values.
- The settings you have selected for the start action **Create new drawing** will even be used in HiCAD if you call the **New drawing** function while the Start Centre is inactive.

If you want to create a new drawing, specify whether you want to create a part drawing or an assembly drawing by activating the appropriate checkbox.

Part drawing (aka Detail drawing)

In a part drawing (detail drawing) you divide your drawing into main parts and sub-parts. To define the part structure you use so-called dummy parts which symbolise the assembly. You then assign assembly-relevant main parts and sub-parts to these dummy parts. Instead of dummy parts you may as well use the special part type Assembly.

Assembly drawing

You can define 3-D drawings directly when creating the assembly drawing and - if you are working in parallel with HELiOS - enter them into the database. This provides significantly more efficiency, particularly for referencing, itemisation and BOM-creation.

### Options

### Enter drawing into database

You can define 3-D drawings directly when creating the assembly drawing and - if you are working in parallel with HELiOS - enter them into the database. This provides significantly more efficiency, particularly for referencing, itemisation and BOM-creation. If you are working with HELiOS you can define here whether you want to the new drawing to be entered into the database. If you activate this checkbox, HiCAD will prompt you to specify the document master data once you exit the Start Centre. If not, you will be prompted to enter the name of the drawing file.

Activate, if desired, the project to which you want to assign the drawing.

### Scale

Here you can preset the scale of the drawing.

### Start mode

Here, choose the start mode you want to be activated once you exit the Start Centre, e.g. **2-D**, if you want to start the drawing in 2-D or **3-D Extruded solid**, if you want to start your drawing by creating an extruded solid in 3-D.

### Create processing planes (3-D only)

Here you can specify which of the standard processing planes you want to create. Activate the appropriate checkbox.

• View projection and View representation (3-D only) If you want to work in 3-D, use these functions to pre-set the model view and the view representation.

## Load existing drawing

If you have chosen **Load existing drawing** as start mode, you can specify whether you want to load the drawing via the database, the Explorer or via an interface. As with a new creation, you may also activate the project directly.

## Switch Start Centre off

If you activate the **Switch Start Centre display off** checkbox and click **OK** to exit the Start centre, the current settings will apply as the default settings for whenever you start HICAD again and create new drawings. The Start Centre is then no longer displayed. To re-activate the Start Centre display and to change the settings, choose **Settings**  $\cong$  **> Activate Start Centre**. The changed settings will be applied when starting HiCAD again.

If you click **OK** to exit the Start Centre, the current settings are used as the default setting if, on the other hand, you exit the Start Centre by pressing the **ESC** key or clicking on the  $\bigotimes$  icon, the settings will be ignored.

## Close HiCAD

To close HiCAD,

- just click on the XX icon at the top right, or
- Click on the ISD Button at the top left and choose **End**.

If HiCAD drawings are still open at this point, you have the option to save them. HiCAD distinguishes between the currently open drawing, i.e. the one that you see on your screen, and other drawings that are also still open. If a file with the same name already exists, you can either save the drawing under a different name, or overwrite the existing file with the same name. Please note however that no backup copy will be created in this case!

### 👠 Important:

When closing HiCAD, all files except for the auto-saved files will be removed from the TEMP directory of your HiCAD installation.

# **HELiOS** at a Glance

On the way to the finished product, invested time, spent costs and product quality can only be optimised if all departments of a company cooperate efficiently. This requires a well-structured and efficient exchange of information between the parties involved in the production process - from Manufacturing, Purchasing and Service to Marketing and Sales.

HELIOS is a state-of-the-art PDM/PLM system providing all essential tools for an error-free gathering, management and distribution of the data required for the production process chain. Once saved, these data can be re-used within the entire company and for the complete product life cycle. HELiOS manages and controls all process cycles by regulating and monitoring the processing and transfer of these data.

By combining Product, Process and Peripherals Management in a single system, HELiOS becomes the central "knowledge reservoir" of your company and guarantees transparent and secure processes.

HELIOS can be interfaced with your CAD system or used as a stand-alone system, the so-called HELIOS Desktop - either as a single workstation or at different locations.

Thanks to its modular structure, HELiOS can be optimally adapted to company-specific requirements.

## Start HELiOS

Start the HELiOS Desktop by double-clicking on the HELiOS.EXE file or via the HELiOS icon **2** on the Desktop of your computer.

If you have not closed HELiOS correctly during your last session, you will receive an error message from the Vault Server.

To make the best possible use of the numerous new features and enhancements offered by HELiOS, check out the videos explaining the new and changed HELiOS functionalities. From now on we will provide you with such videos with each Major Release and Service Pack to keep you constantly informed in the best possible way.

You can configure the display of the **News window** at the bottom left. Please note that you can configure the display of the News window at the bottom left. We recommend using the **Show most recent news** option to ensure that you will never miss any news about HELiOS. If you selected the **Show never** option, you can call

the News window again at any time and change the display option by clicking on the Symbol at the top right and selecting **Show news**.

## Login

The HELiOS User Management is based on the User Management of Windows. Punctuation marks such as commas, apostrophes, square brackets etc. and special characters such as @ cannot be used in user names. If several users are registered with the same Windows User Name in EDBSETUP, a login mask will appear when starting HELiOS Desktop.

HELIOS login ×
Administrator
은 PDM-Administratoren
- Active project
Project-independent
– Active folder
Folder-independent 🞾
- Settings
END

Name and active group enable the user to login with the rights guaranteed by the User Management.

If you select a project from the **Active project** drop-down list, this project will be opened after starting HELiOS Desktop. If you select the project-independent setting, all documents will be displayed.

Start the HELiOS Desktop with Login.

To ensure that a specific project is always opened after starting HELiOS, click on the **E** icon at the top left of the Desktop and then select the **HELiOS Options**. You can select a start project on the **General** tab.

Switch user

Use the **Switch user** function for a renewed login while working with HELiOS Desktop, e.g. to work with different rights without having to exit the program.

Activate the **Switch user** function via the QuickAccess toolbar. Select a different user. Change the active project if required and confirm the new settings with **Login**.

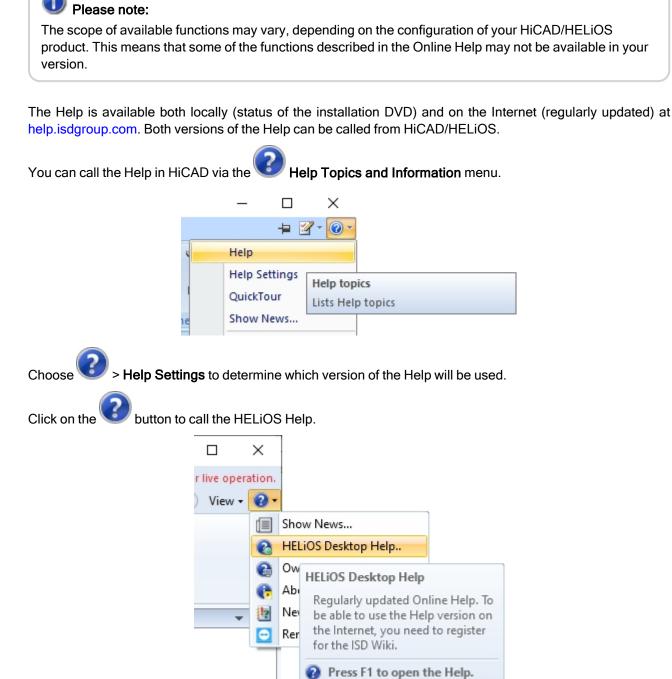
## What's New in Version 2024?

An extensive overview of all changes and enhancements of HiCAD 2024 can be found in the **What's new?** topic of the Help. You can also click on the NEU button in the Help.

An overview in PDF format will be displayed if you click on the PDF button.

# How to Use the Help

The Online Help provides you with information, descriptions and examples on all functions and techniques which are available in HiCAD/HELiOS.



Choose A **HELIOS Options** to determine which version of the Help will be used.

## Delease note:

If you move the cursor over a function on the Ribbon and press the **F1** key, the Help page for that specific function will be displayed.

To be able to use the Internet version of the Help, you need to register for the ISD customer portal once. This will not only give you access to the new Help, but also provide you with many other information which will be made available shortly in the ISD Wiki (Forum, Download area etc.)

Click **Sign up** in the login window of the Online Help to register. If you have already been registered, enter your access data and click **Login** to get directly to the start page of the Online Help.

After clicking **Sign up** in the Login window of the Online Help, enter the data required in the dialogue window. Confirm the security prompt and click the **Sign up** button.

## Create ISD account

#### You are a new user?

Simply fill out the form below and click on Register in order to access the desired ISD Group services.

Password policies: Your new password has to be between 8 and 16 characters long. We recommend that you use additional characters for increased security. Assigning the username as password poses a security risk and should be avoided.

Company / Educational institution*	Customer number
Salutation*	
-	~
First name*	Last name*
Postal code*	Country*
	- *
Phone number*	E-mail address*
Password*	Confirm password*
By creating an ISD account you agree to the	ISD Group's privacy policy *

creating an ISD account you agree to the ISD Group's **privacy policy**.



Required fields are marked with a \* (star).

After successful registration the dashboard will be displayed. A message indicates whether you have been authenticated as an ISD customer.

If you could be identified as an ISD customer, you can now directly launch the Online Help using your registration data. In addition, you will have access to all important information.

If you could not be identified as an ISD customer, an account will be created, but not all information available for customers will be unlocked. If you are a customer, please perform the steps described in the message so that we will be able to unlock your account for all available content.



### 🖺 Important:

By default the Online Help has been selected after installation. If you prefer using the local Help, start the Installation Wizard again and click on the HiCAD and HELiOS Help button.

# Hotline

Even after implementation, the support team of the ISD ensures competent support of their customers. Besides support over the phone, all current means of communication such as E-mail (support@isdgroup.com) and Internet can be used. If any problems could not be solved in this way, our staff in all our offices will be there to help you at your company if required.

If all lines are busy, a voice mail system will be activated, allowing you to leave a message. Our staff will call you back as soon as possible. If a line becomes available during the recording of your message, your call will be accepted immediately. It is our ambition to solve your problems as quickly as possible and let you have the solution via phone or E-mail. A problem diagnosis will be made on the spot, and the existing problem will be dealt with and eliminated as fast as possible.

In cases where your problem cannot be solved immediately, we will call you back after analyzing the situation. Depending on the level of difficulty our Hotline will also bring in the Development department.

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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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