

Installation Notes

Version 2020 HELiOS Date of issue: 24/02/2021



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Getting Started

Important Notes!

Harware Exchange

If you use local 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 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 Windows® 7

Microsoft will cease the support for Windows by January 2020. For compatibility reasons HiCAD 2020 SP1 and HELiOS 2020 SP2 will thus be the last versions of our CAD and PDM systems which support Windows ® 7. The corresponding server operating systems (Windows Server 2008 R2 or older) will then no longer be supported either.

Discontinuation of HELiOS 32-Bit

As of HELiOS 2022 (Version number 2700.0) there will no longer be a 32-Bit version available for HELiOS. However, the interface to 32-Bit applications such as Office will still be possible and is not affected by the discontinuation of the 32-Bit installation of HELiOS.

Discontinuation of Oracle

With HELiOS 2022 (version 2700) onwards, Oracle is no longer supported as a database platform.

Discontinuation of Mircosoft Office 2010 interface

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

Data compatibility

When performing a HELiOS update, the update start mask shows you the HELiOS subversion, 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.

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.

Updating the HELiOS-SOLIDWORKS interface

For an update of the SOLIDWORKS 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:

Since a migration of the configuration IDs is performed during the update, an update installation can only be performed after the migration has been prepared accordingly. In the event of an update, 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

Until HELiOS 2019, attribute mapping at SOLIDWORKS was done by the following files:

- heliossw_titleblock.dat (attributes for the title block),
- helios_cs_global_config.dat (attribute mapping/presetting in both directions),
- sw_comp_name.dat (display in the model tree in CAD).

As of HELiOS 2020 (Version 2500.0), the mapping must be set up again manually. No migration tools exist.

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, AutoCAD and SOLIDWORKS!

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:

- 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.

Operating system

We recommend deactivating local licenses and network licenses before performing an update/upgrade of the operating system (e.g. from Windows 8 to Windows 10), and activating them again after successful update/upgrade of the operating system.

New HELiOS Module structure

From HELiOS 2018 (Version 2300) onwards the module structure has been changed. Also, the interfaces between HELiOS and the different CAD and electrical engineering systems are now licensed separately.

Discontinuation of the old figure format (FIG)

Since HiCAD 2017 we have been supporting FGA as figure format (before FIG). Starting with HELiOS 2021 (Version 2600.0), we assume that the figures stored in HELiOS have been converted to the new format, or convert the still existing figures automatically as part of the database sub-version update to Version 2600.0.

Please use only this new .FGA format for conversion of existing 2-D .FIG files! For this purpose, use the new Converter_FIG_To_FGA.exe tool in the HiCAD\exe directory.

When updating from HiCAD 2016 or older, all standardly supplied 2-D parts (e.g. drawing frames) in the different installation directories will be converted from FIG to FGA by default during the installation. The data in the original state will be saved in a folder (resp. a ZIP archive) in the scene and catalogue directory. The converted files will be documented in a LOG file.

When creating an interface between HiCAD and HELiOS, you will be prompted to update the databases after a new installation or an update installation. The search for and management of 2-D parts will only be possible after conversion of the database and the existing .FIG files with the above mentioned tool.

System Requirements

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

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 / Oracle). Currently, following operating systems are supported:

| | HELIOS 2020 | HELiOS 2019 | HELIOS 2018 |
|--------------------------------|--------------|--------------|--------------|
| Microsoft SQL Server 2019 | \checkmark | \checkmark | \checkmark |
| Microsoft SQL Server 2017 | \checkmark | \checkmark | \checkmark |
| Microsoft SQL Server 2016 | \checkmark | \checkmark | \checkmark |
| Microsoft SQL Server 2014 | \checkmark | 1 | √ |
| Microsoft SQL Server 2012 | \checkmark | \checkmark | \checkmark |
| Microsoft SQL Server 2008 | \checkmark | 1 | √ |
| Microsoft SQL Server 2005 | × | × | × |
| Oracle* Database Server 12c | \checkmark | \checkmark | \checkmark |
| Oracle* Database Server 11g R2 | \checkmark | \checkmark | \checkmark |
| Oracle* Database Server 11g R1 | \checkmark | \checkmark | \checkmark |
| Oracle* Database Server 10g | × | × | × |

*With HELiOS 2022 (version 2700) onwards, Oracle is no longer supported as a database platform.

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

| | HELiOS 2020 | HELIOS 2019 | HELiOS 2018 | |
|-----------|---|---|-------------|--|
| Main | Additionally at least 4 GB main | Additionally at least 4 GB main memory. | | |
| memory | With an increasing database size the working memory should be enlarged in order to guarantee 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.

System Requirements for the HELiOS Vault Server

The HELiOS Vault Server can either be installed as 32-Bit or 64-Bit application. The minimum requirements are as follows:

| | HELiOS 2020 | HELiOS 2019 | HELiOS 2018 |
|-----------------------|--|-------------|-------------|
| Processor (CPU) | X86 or AMD64 Architecture with SSE2 Support | | |
| Main memory | Additionally at least 1 GB main memory | | |
| Hard disk | The required hard disk space depends on the volume of arising data use (files). A safety mar- gin should be considered. | | |
| Operating sys- tem | Microsoft Windows 7 or Microsoft Windows Server 2008 R2 or higher | | |

Please note:

- 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 HELiOS Desktop (Client) can either be installed as 32-Bit or 64-Bit application. The minimum requirements are as follows:

| | HELIOS 2020 | HELiOS 2019 | HELIOS 2018 |
|------------------|---|-------------------|-------------|
| Processor (CPU) | X86 or AMD64 Architecture | with SSE2 Support | |
| Main memory | Additionally at least 2 GB main memory | | |
| Hard disk | Additionally at least 2 GB free hard disk memory | | |
| Operating system | Microsoft Windows 7 or Microsoft Windows Server 2008 R2 or higher | | |

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

Dease note:

- When interfacing the HELiOS Desktop with other applications, for instance with a CAD system or Office product, please consider the minimum requirements of each system manufacturer.
- If you want to use an integrated viewer, the hardware requirements of respective viewer manufacturer must be considered.
- Before you can use the HELiOS Client you require a HELiOS Database Server as well as an appropriately configurated ODBC connection.
 Documents (in .pdf format) describing the installation procedure for the database system and the import and export of the database can be found in the Wiki.
- Current information for hardware requirements can be found via www.isdgroup.com at Support.

Compatibility Matrix for Interfaced Applications (HELiOS)

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

| | HELiOS 2020 | HELIOS 2019 | HELiOS 2018 |
|---------------------|-------------------------------|--------------|-------------|
| CAD system | | | |
| HiCAD 2020 | \checkmark | × | × |
| HiCAD 2019 | √ | \checkmark | × |
| HiCAD 2018 | \checkmark | \checkmark | ✓ |
| HiCAD 2017 | × | \checkmark | ✓ |
| HiCAD 2016 | × | × | ✓ |
| HiCAD 2015 or older | × | × | × |
| | | | |
| AutoCAD 2021 | (as of SP1) | × | × |
| AutoCAD 2020 | \checkmark | (as of SP1) | × |

| | HELIOS 2020 | HELiOS 2019 | HELIOS 2018 |
|----------------------------|---------------|---------------|-------------------------------|
| AutoCAD 2019 | \checkmark | \checkmark | 🗸 (as of SP2) |
| AutoCAD 2018 | \checkmark | ✓ | 1 |
| AutoCAD 2017 | \checkmark | ✓ | 1 |
| AutoCAD 2016 | \checkmark | ✓ | 1 |
| AutoCAD 2015 | × | \checkmark | \checkmark |
| AutoCAD 2014 | × | \checkmark | ✓ |
| AutoCAD 2013 or older | × | × | × |
| | | | |
| AutoCAD Mechanical 2021 | 🗸 (as of SP1) | × | × |
| AutoCAD Mechanical 2020 | 1 | 🗸 (as of SP1) | × |
| AutoCAD Mechanical 2019 | 1 | √ | (as of SP2) |
| AutoCAD Mechanical 2018 | \checkmark | 1 | \checkmark |
| | | | |

🗼 Important:

*As of Inventor version 2021.1 (or newer) can be used from HELiOS Version 2502.3 or 2600.1. The reason for this is the bug in Inventor described here.

| Inventor 2021*(as of SP1)XInventor 2020(as of SP1)XInventor 2019(as of SP1)(as of SP1)Inventor 2018(as of SP1)(as of SP1)Inventor 2017(as of SP1)(as of SP1)Inventor 2016(as of SP1)(as of SP1)Inventor 2015(as of SP1)(as of SP1)Inventor 2014(as of SP1)(as of SP1)Inventor 2013 or older(as of SP1)(as of SP1)Navisworks 2021(as of SP1)(x) | | | | |
|---|------------------------|---------------|---------------|---------------|
| Inventor 2019(as of SP1)Inventor 2018(as of SP1)Inventor 2017(as of SP1)Inventor 2017(as of SP1)Inventor 2016(as of SP1)Inventor 2015(as of SP1)Inventor 2014(as of SP1)Inventor 2013 or older(as of SP1)Inventor 2011(as of SP1) | Inventor 2021* | 🗸 (as of SP1) | \mathbf{x} | × |
| Inventor 2018(as of SP1)Inventor 2017Inventor 2016Inventor 2015Inventor 2014Inventor 2013 or olderInventor 2013Inventor 2014Inventor 2013 or older | Inventor 2020 | √ | 🗸 (as of SP1) | × |
| Inventor 2017Inventor 2016Inventor 2015Inventor 2014Inventor 2013 or olderInventor 2014Inventor 2013 or olderInventor 2014Inventor 2014Inventor 2013 or olderInventor 2014Inventor 2014Invento | Inventor 2019 | √ | √ | 🗸 (as of SP1) |
| Inventor 2016Inventor 2015XInventor 2014XInventor 2013 or olderXInventor 2013 or olderX | Inventor 2018 | √ | √ | ✓ |
| Inventor 2015 X ✓ Inventor 2014 X ✓ Inventor 2013 or older X ✓ | Inventor 2017 | √ | √ | ✓ |
| Inventor 2014 Inventor 2013 or older Inventor 2013 or older Inventor 2013 or older | Inventor 2016 | \checkmark | ✓ | ✓ |
| Inventor 2013 or older | Inventor 2015 | × | ✓ | ✓ |
| Neuieuerke 2001 | Inventor 2014 | × | ✓ | ✓ |
| Navisworks 2021Image: Constraint of SP1Image: Constraint of SP1 | Inventor 2013 or older | × | × | × |
| Navisworks 2021 V (as of SP1) | | | | |
| | Navisworks 2021 | 🗸 (as of SP1) | × | × |

| | HELiOS 2020 | HELiOS 2019 | HELiOS 2018 |
|------------------------------------|--------------|---------------|---------------------------------|
| Navisworks 2020 | 1 | 🗸 (as of SP1) | × |
| Navisworks 2016 - 2019 | 1 | \checkmark | 🗸 (as of SP1) |
| Navisworks 2015 | × | √ | (as of SP1) |
| SOLIDWORKS 2020 | √ | × | × |
| SOLIDWORKS 2019 | \checkmark | × | 🗸 (as of SP2) |
| SOLIDWORKS 2018 | 1 | × | \checkmark |
| SOLIDWORKS 2017 | 1 | × | \checkmark |
| SOLIDWORKS 2016 | √ | × | \checkmark |
| SOLIDWORKS 2015 | × | × | \checkmark |
| SOLIDWORKS 2014 | × | × | \checkmark |
| SOLIDWORKS 2013 or older | × | × | × |
| CAE-SYSTEM | | | |
| EPLAN Electric P8 Ver- sion 2.8 | \checkmark | 🖌 (as of SP1) | × |
| EPLAN Electric P8 Ver- sion 2.7 | ✓ | 1 | √ |
| EPLAN Electric P8 Ver- sion 2.6 | ✓ | √ | ✓ |
| EPLAN Electric P8 Ver- sion 2.5 | ✓ | √ | ✓ |
| EPLAN Electric P8 Ver- sion 2.4 | ✓ | ✓ | ✓ |
| Zuken E3 Version 2019 | ✓ | (as of SP2) | × |
| OFFICE | | | |
| Office 2019 | \checkmark | 🗸 (as of SP1) | × |
| Office 2016 | \checkmark | \checkmark | \checkmark |
| Office 2013 | \checkmark | \checkmark | \checkmark |
| Office 2010 | \checkmark | \checkmark | \checkmark |
| Office 2007 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 Internet Server

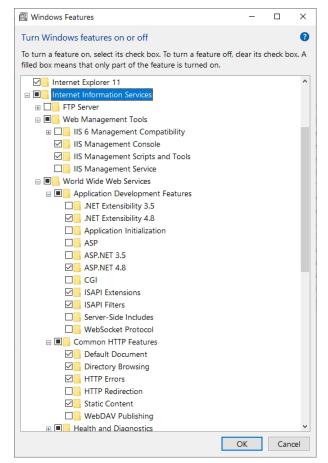
For the HELiOS Internet Server, similar system and hardware requirements as for the HELiOS Desktop apply:

| | HELIOS 2020 |
|------------------|---|
| Processor (CPU) | X86 or AMD64 Architecture with SSE2 support |
| 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 |

The Microsoft Internet Information Server (IIS), at least version 10.0 with ASP.NET 4.8 support, is also required. This is an integral part of Windows, but must be installed/activated separately before installing the HELiOS Internet Server.

Proceed as follows:

Choose Control Panel > Programs and Features and, at the top left of the window, select Turn Windows features on or off. In the Windows Features dialogue window, choose Internet Information Services > Web Management Tools, and Internet Information Services > World Wide Web Services > Application Development Features and activate the checkboxes as shown below:



A **"Default Web Site"** with Port 80 may already have been installed in the IIS Manager. In this case the HELiOS Internet Server (for which Port 80 has also been preset) cannot be executed properly. It is therefore recommended to remove this Default Web Site here.

Choose **Control Panel > Administrative Tools > Internet Information Services (IIS) Manager**. Right-click Default Web Site in the tree structure on the left hand side.

💐 Internet Information Services (IIS) Manager \times 🔯 🖂 🟠 🔞 🗸 Image: Section Section Section 10 → MSEDGEWIN10 → MSED File View Help Actions Connections MSEDGEWIN10 Home Manage Server ✓ SEDGEWIN10 (MSEDGEWIN) 💈 Restart Filter: 🝷 🐨 Go 👒 🦣 Show All 🛛 Group by: Application Pools Ŧ Start IIS 🗸 🧃 Sites Stop > 🕘 Dofault Mah Sita Ē CGI Explore **View Application Pools View Sites** Edit Permissions... CGI FastCGI Handler HTTP O Get New Web Platform Settings Mappings Respon... Add Application... Components . R Add Virtual Directory... P Help Modules Output Server Worker Edit Bindings... Caching Certificates Processes Manage Website ۲ Refresh l. 细 × Remove Feature Shared Rename Delegation Configurat... Switch to Content View Features View 🕼 Content View < • Ready

If a required website is already using Port 80, you need to select a different Port for the HELiOS Internet Server.

Please note:

- Besides IIS, HELiOS Client (HELiOS Desktop) must be installed.
- IIS URL Rewrite from https://www.iis.net/downloads/microsoft/url-rewrite must be installed.
- For the live operation of the HELiOS Internet Server, a (sub)domain including a valid SSL certificate and port forwardings are required.
- HELiOS Internet Server must use the same user that is required to access and use the HELiOS Desktop.
- To operate the HELiOS Internet Server, a number of website configurations in the Internet Information Server are required. Parallel operation with other products on the IIS is not supported.

System Requirements for the HELiOS Spooler

Generally, the HELiOS Spooler is a 64 Bit application. The main memory should be at least as large as the main memory for the utilized Client systems. This ensures that all data to be processed by the HELiOS Spooler (i.e. the data transmitted from the Client systems to the HELiOS Spooler can be handled successfully.

| | HELIOS 2020 | HELiOS 2019 | HELiOS 2018 |
|------------------|---|-------------|-------------|
| Processor (CPU) | AMD64 Architecture with S | SE2 support | |
| Main memory | Additionally at least 2 GB main memory | | |
| Hard disk | Additionally at least 4 GB free hard disk memory | | |
| Operating system | Microsoft Windows 7 or Microsoft Windows Server 2008 R2 or higher | | |

Please note:

- The HELIOS Spooler runs on a separate Plot Server system. It is <u>not</u> possible to install the HELIOS Spooler together with the HELIOS Desktop on the same system! Reasons for this are, for example, possible difficulties with the Office interface, since both the HELIOS Desktop and the HELIOS Spooler install Word and Excel customizations. It is also <u>not</u> recommended to use the system on which the HELIOS Spooler is running as an occasional workstation. This is partly because it is assumed that the HELIOS Spooler is the only instance of the system that starts print jobs.
- The HELiOS Spooler requires locally installed CAD, electrical engineering or Office applications for that plot and conversion orders are carried out. Please note that the use of these applications requires respective licenses and that the hardware requirements of each system supplier must be considered as well.
- The main memory should be at least dimensioned as large as the main memory of the client system deployed. Thus it is guaranteed that the data (which is transferred from the client systems to HELiOS Spooler) can be processed accordingly.
- Besides the client operating systems for Windows, the above mentioned server operating systems can be used as well. It depends on the license terms for the Microsoft OS used by your company whether a server operating system can be used or not. Here, the number of permitted simultaneous connections is deciding here.

As of Windows 7, 20 simultaneous logins are approved. In this case, you need to assure that apart from the current logins sufficient logins are available for each Client computer's Print Client.

System Requirements for the License Server

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

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

| | HELIOS 2020 | HELIOS 2019 | HELiOS 2018 |
|------------------|-------------------------------|-----------------------------|-------------|
| Processor (CPU) | X86 or AMD64 Architecture | <u>)</u> . | |
| | Recommended: 2 GHz Pro | cessor | |
| Main memory | Additionally at least 1 GB n | nain memory | |
| Hard disk | Additionally at least 2 GB fi | ree hard disk memory | |
| Operating system | Microsoft Windows 7 or Mic | crosoft Windows Server 2008 | or higher |

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 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.

System Requirements for the HELiOS SmartSearch Server See hardware requirements for the HELiOS Vault Server.

System Requirements for the HELiOS Application Server

Please contact our consulting in terms of hardware requirements and installation of HELiOS Application Server.

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© by the company gemalto© can, generally, also be used in virtual environments.

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 HELiOS can be used; these packages will be installed as part of the 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 in the Wiki.

Current information on system requirements can also be found on the Internet at https://www.isdgroup.com at Support.

Installation

The installation medium (e.g. DVD or ISO file) contains the installation files for:

- 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 Help
- HELiOS Internet Server
- HELiOS Spooler
- HELiOS SmartSearch Server
- EPLAN Article Synchronization
- 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.

The DVD has been developed for Windows operating systems. When you insert the DVD, the HELiOS installation wizard will be started automatically.

If the Autostart function has been deactivated in the operating system, or if you use an ISO file for the installation, it is mandatory for the installation of HiCAD to start the **setup.exe** file from the root directory of the installation medium; only in this way it is ensured that the version will recognize the operating system, and that the matching HELiOS version will be installed.

Please note:

- The HELiOS version must be installed on the hard disk on your computer; a start from the DVD is not possible.
- You can conveniently download the current HELiOS version in the Download Area of the ISD Wiki.

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

| PHELIOS 2020 (2502.0 x64) | DB Version 234 | × |
|---------------------------|--|--|
| 0 | Language | Client Installations HELiOS Desktop |
| 02 | Installation Documents | HELIOS Update for HiCAD 2018 |
| 0 | HELiOS - Installation Notes | HELiOS Update for HiCAD 2019 |
| | Program Help | HELiOS Update for HiCAD 2020 |
| 10 | The installation of the Help files is only required if there is no Internet connection. | PostScript Printer |
| | HELiOS Help | Server Installations |
| \cap | Administrator Tools | HELiOS Vault Server |
| | | HELiOS SmartSearch Server |
| | This component may only be installed on the License Server! | HELiOS Internet Server |
| | Lizenz-Server | HELiOS Application Server |
| | HELiOS Database Creator | HELiOS Spooler |
| | | Eplan Article Synchronization |
| | | THE WORLD OF CAD AND POM SOLUTIONS |
| | In order to read the installation instructions, the Adobe® Reade | |

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

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.

Please note:

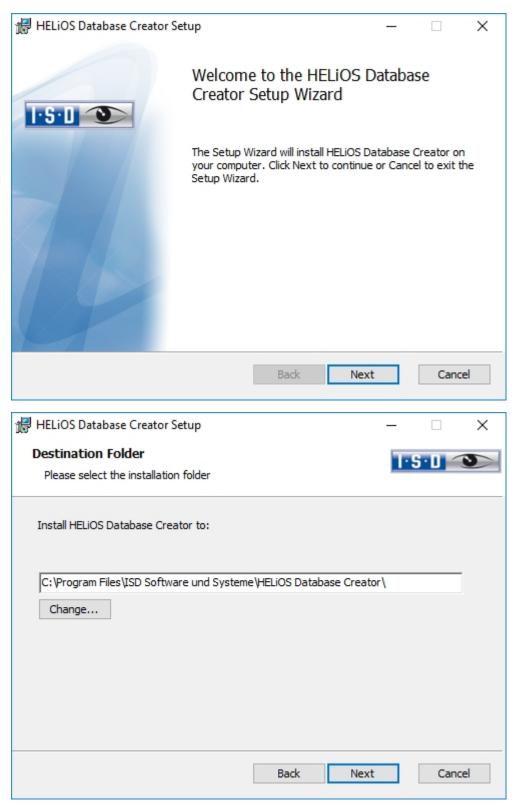
Further information about the correct procedure for the execution of the HELiOS Database Creator, as well as the previous and subsequent steps required for the setting up of a database server can be found in the user guide for the installation of the **Microsoft SQL Server**. You can find this document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

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

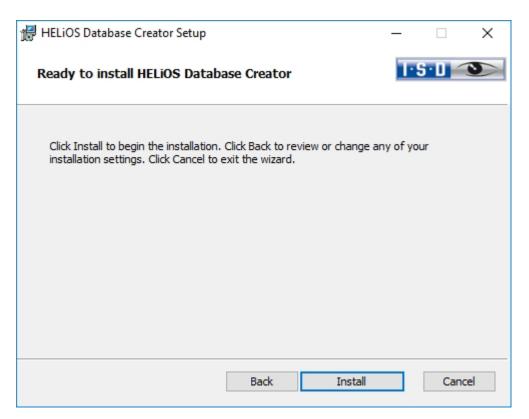
| PELIOS 2020 (2502.0 x64) D | PB Version 234 | | × |
|----------------------------|---|--|---|
| 0 | Language English | Client Installations HELiOS Desktop | |
| 02 | Installation Documents | HELIOS Update for HiCAD 2018 | |
| 0 | HELiOS - Installation Notes | HELIOS Update for HiCAD 2019 | |
| | Program Help | HELIOS Update for HiCAD 2020 | |
| 10 | The installation of the Help files is only required if there is no Internet connection. | PostScript Printer | |
| | HELiOS Help | Server Installations | |
| \cap | | HELiOS Vault Server | |
| | Administrator Tools | HELiOS SmartSearch Server | |
| | This component may only be installed on the License Server! | HELiOS Internet Server | |
| | Lizenz-Server | HELiOS Application Server | |
| | HELiOS Database Creator | HELiOS Spooler | |
| 1 | | Eplan Article Synchronization | |
| | In order to read the installation instructions, the Adobe® Read | I-S-D D | |

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 Se | tup | · _ · | | × |
|------------------------------|---|-------|------|----|
| | Completed the HELiOS D Setup Wizard Click the Finish button to exit the Set | | | or |
| | Back Finis | h | Cano | 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.

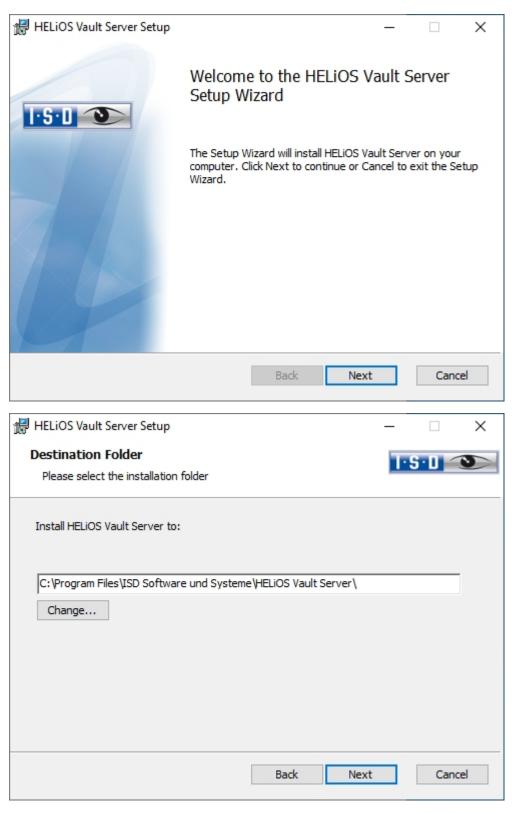
This screen remains open so that you can install the required components one after another.

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

| | Language | Client Installations |
|--------|--|-------------------------------|
| 0 | 🚟 English | HELiOS Desktop |
| 020 | Installation Documents | HELIOS Update for HiCAD 2018 |
| | HELIOS - Installation Notes | HELiOS Update for HiCAD 2019 |
| | Program Help | HELIOS Update for HiCAD 2020 |
| 10 | The installation of the Help files is only required if there is no Internet connection. | PostScript Printer |
| | HELiOS Help | Server Installations |
| \cap | | HELiOS Vault Server |
| | Administrator Tools | HELiOS SmartSearch Server |
| | This component may only be installed on the License Server! | HELiOS Internet Server |
| | Lizenz-Server | HELiOS Application Server |
| ЦЦ | HELiOS Database Creator | HELiOS Spooler |
| | | Eplan Article Synchronization |
| _ | In order to read the installation instructions, the Adobe® Reader | D is required. |

Click on the Vault Server button.



Enter the installation directory for the Vault Server.

| 🖟 HELiOS Vault Server S | etup | | | _ | | × |
|--|----------|------|------|-----|-------|----|
| Configuration HELiOS Vault Server S | Gettings | | | 1.8 | j•0 < | 3 |
| | | | | | | |
| Server name | ISDVAULT | | | | | |
| Server port | 9000 | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | Back | Next | | Cano | el |

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 Set | up | _ | | Х |
|-------------------------------------|--------------------------------------|---|-------|-----|
| Configuration Server directories | | ŀ | 6·0 _ | 3 |
| Document directory | C:\HELiOS Vault ISDVAULT\Documents\ | | | |
| Management directory | C:\HELiOS Vault ISDVAULT\Management\ | | | |
| Log directory | C:\HELiOS Vault ISDVAULT\Logfiles\ | | | |
| Log file name | ISDVAULT.log | | | |
| | | | | |
| | Back Next | | Can | cel |

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.

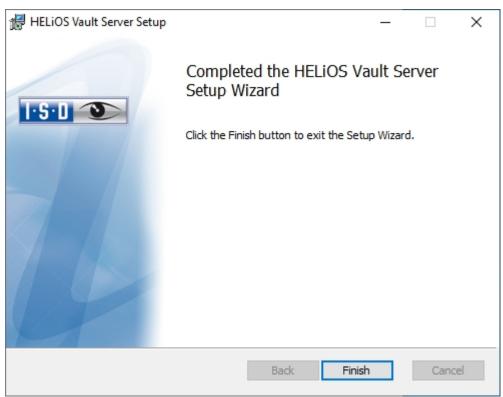
The files stored in the **Management directory** contain the assignments of the VDF file names to the "original file names".

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.

| 🖟 HELiOS Vault Server Setup | | | - | - | | \times |
|---|------|------------|------------|---------|-------|----------|
| Ready to install HELiOS Vault Serv | er | | | 1·S | 0 1 | 5 |
| Click Install to begin the installation. Click installation settings. Click Cancel to exit t | | view or ch | ange any c | of your | | |
| | | | | | | |
| | | | | | | |
| | Back | In | stall | | 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

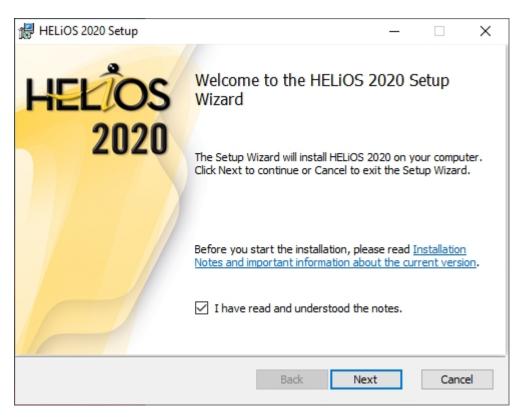
To install HELiOS, start Windows. If Windows has already been started, close all other applications and start the installation wizard.

Select a Language for your version.

| PHELIOS 2020 (2502.0 x64) |) DB Version 234 | | Х |
|---------------------------|---|--|---|
| 0 | Language English | Client Installations HELiOS Desktop | |
| 020 | Installation Documents | HELiOS Update for HiCAD 2018 | |
| 0 | HELiOS - Installation Notes | HELiOS Update for HiCAD 2019 | |
| | Program Help | HELiOS Update for HiCAD 2020 | |
| 10 | The installation of the Help files is only required if there is no Internet connection. | PostScript Printer | |
| | HELiOS Help | Server Installations | |
| \cap | | HELiOS Vault Server | |
| | Administrator Tools | HELiOS SmartSearch Server | |
| | This component may only be installed on the License Server! | HELiOS Internet Server | |
| | Lizenz-Server | HELiOS Application Server | |
| | HELiOS Database Creator | HELiOS Spooler | |
| | | Eplan Article Synchronization | |
| | | THE WORLD OF CAD AND POM SOLUTIONS - | |
| | In order to read the installation instructions, the Adobe® Reade | | |
| | © 1985 - 2020 ISD Group. All rights res | erved. | |

Click on the HELiOS Desktop button to start the installation.

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 this information carefully.

| HELiOS 2020 Setup | _ | | × |
|---|------|------|----|
| Destination Folder Please select the installation folder | I-S- | 1 | |
| Install HELiOS 2020 to: | | | |
| C:\Program Files\ISD Software und Systeme\HELiOS\ Change | | |] |
| Back | Next | Cano | el |

Select an installation directory.

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.

| HELiOS 2019 Setup | - | | x |
|---|---------------------------|---------------------|-----|
| CAUTION: Please note the following important information | I-S-I | | |
| Important imformation for Administrators on update from HELiOS SP2 (2402.0) onwards, for customers wor <i>HELiOS interfaces to Inventor, AutoCAD, SOLIDWORKS</i> Prior to the update to HELiOS 2019 SP2 (2402.0), all do in an edited state must be removed from the Worksp no database update will be possible. | rking wi S. ocument | th the ts that a | |
| Further information can be found here. | | | |
| Back Nex | xt | Can | cel |

Please read these important notes on update installations for Inventor, AutoCAD and SOLIDWORKS carefully and activate the checkbox 🗹. Further information can be found here.

| HELiOS 2020 Setup — | × |
|--|------|
| License Management | |
| License Notes and Settings | |
| | |
| Notes on Hardware Exchange | ^ |
| If you use local 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 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 | l |
| software documentation). | ¥ |
| ☑ I accept the Notes on License Management | |
| Back Next Ca | ncel |

Please read the Notes on Hardware Exchange carefully.

Harware Exchange

If you use local 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 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.

| # HELiOS 2020 Setup | | | × |
|--|---------------|------|----|
| Ready to install HELiOS 2020 | I.S. | | |
| Click Install to begin the installation. Click Back to review or cha installation settings. Click Cancel to exit the wizard. | inge any of y | bur | |
| Extended settings | | | |
| Back Ins | tall | Cano | el |

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

| 🖟 Exten | ded settings | — | | × |
|---------|-------------------------------|--|------|---|
| HELIOS | HELiOS Interfaces | General | | |
| System | data source | HeliosBauteil | | |
| User | | hicad | | |
| Passwor | rd | ••••• | | |
| 🗹 Use | Vault Server | Address localhost Port 90 | 000 | |
| SmartSe | earch-Server | Activate | | |
| | | Configuration | | |
| | Spooler Application Server | Server localhost Address Port | | |
| Saving | of configuration file | Use local (computer-specific) directory Use central directory for configuration | data | |
| Configu | ration file | | | |
| | | | | |
| | | OK 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 > General >

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 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 HELiOS at View > Settings > Export.

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**.

| | ed settings | | _ | × |
|---------------------------|--|-------------------|---|---|
| HELIOS H | HELiOS Interfaces | General | | |
| | | | | |
| A | AutoCAD® 1 | Nicht installiert | | |
| l li | nventor [®] 1 | Nicht installiert | | |
| N | lavisworks [®] 1 | Nicht installiert | | |
| S | OLIDWORKS® 1 | Nicht installiert | | |
| Z | uken E3® 1 | Nicht installiert | | |
| | ixcel Dutlook YowerPoint Vord | | | |
| Other | ers | | | |
| E | PLAN® 1 | Nicht installiert | | |
| ✓ Use 32 | 2Bit ReportManag | er | | |
| | | OK Save Cancel | | |

The availability of interfaces with HELiOS depends on the programs that are installed on your computer. You can only link 32Bit versions to HELiOS 32Bit versions, and only 64Bit versions to HELiOS 64Bit versions. An exception is the MS Office Interface, where you can link a 32 Bit Office to a 64 Bit HELiOS. 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.

When installing the CAD interface (AutoCAD, Inventor or SOLIDWORKS) the specific CAD configuration will be considered. The only thing you need to do is to copy the drawing frame template files from the corresponding ...\templates\subdirectory.

The installation automatically executes the configuration file MultiCAD.csv with the **HeliosClientConfig.exe** tool. If you work with your own .csv file, you can execute it subsequently: Start the **HeliosClientConfig.exe** tool from the

\exe\ directory of your HELiOS installation, click the m button to select the path of the file and confirm with **OK**.

Interfaces with foreign systems can also be added via the Windows Control Panel. Select Start > Control Panel > Programs and Features, activate HELiOS, then right-click and select Change. This starts the installation of HELiOS, enabling you to select further interfaces with foreign software products on the HELiOS Interfaces tab.

Further information, e.g. how to activate specific interfaces in the foreign software, can be found in the HELiOS Help.

Please note:

- A prerequisite for the interface with a foreign software is that his software must be installed on the same system.
- When creating an interface between HELiOS and one of these systems, please make sure that the Bit versions of HELiOS and the external software are identical. Interfaces between a 32Bit and a 64Bit Version are not possible.
- For EPLAN you also require the Article Synchronization Service running separately on the system. You will
 find the corresponding button in the HELiOS installation mask. For the configuration of the HELiOS-EPLAN
 interface please contact the ISD Consulting team.
- If you have installed AutoCAD and AutoCAD Mechanical, both will be considered for the interface.

| 🖟 Extended | settings | | _ | | × |
|--------------|-------------|----------------------------------|--------------|--------|---|
| HELIOS HE | LiOS Interf | aces General | | | |
| Installation | directory | C:\Program Files\ISD Software ur | nd Systeme\H | ELiOS\ | |
| | | Update-Installation | | | |
| Activate | license ad | ministration tools | | | |
| ✓ ISD Upd | ate Service | aktivieren | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | OK Save Cancel |] | | |

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

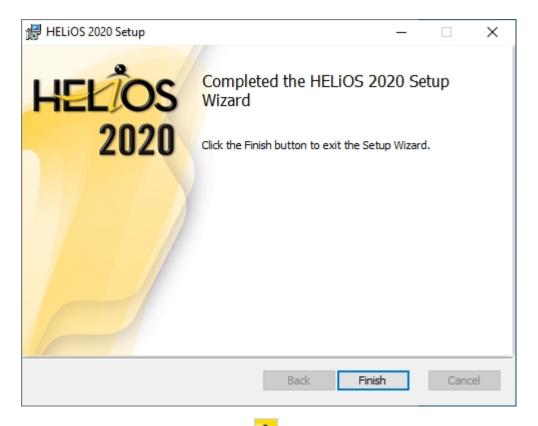
Click **Save** to save the **Extended Settings** to an **.ini file**. If you place the .ini file in the installation directory when installing server licenses, the settings will be applied.

Close the Extended Settings dialogue with OK.

| 🖟 HELiOS 2020 Setup | | _ | | \times |
|--|--|------------------|------|----------|
| Ready to install HELiOS 2 | 2020 | I-S-I | | |
| Click Install to begin the insta installation settings. Click Car | llation. Click Back to review or ncel to exit the wizard. | change any of yo | ur | |
| | Extended settings | | | |
| | Back | Install | Canc | el |

Click Install.

| HELiOS 2020 Setup | - 🗆 X |
|--|---------------|
| Installing HELiOS 2020 | |
| Please wait while the Setup Wizard installs HELiOS 202 | D. |
| Status: | |
| | |
| | |
| | |
| | |
| | |
| Back | : Next Cancel |



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

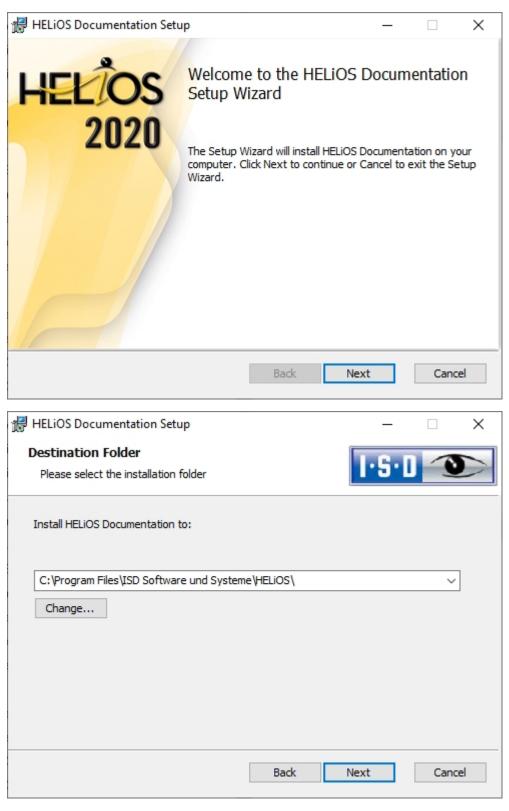
Installing the HELiOS Help

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/en/. Both versions of the Help can be directly launched from 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. Leave the selection mask of the installation wizard open, so that you can select the desired components one after the other.

| PHELiOS 2020 (2502.0 x64) E | DB Version 234 | | × | |
|---|--|---|---|--|
| 0 | Language English | Client Installations HELiOS Desktop | | |
| 020 | Installation Documents | HELiOS Update for HiCAD 2018 | | |
| 0 | HELiOS - Installation Notes | HELIOS Update for HiCAD 2019 | | |
| | Program Help | HELIOS Update for HiCAD 2020 | | |
| | The installation of the Help files is only required if there is no Internet connection. | PostScript Printer | | |
| | HELiOS Help | Server Installations | | |
| \cap | Administrator Tools This component may only be installed on the License Server! | HELiOS Vault Server | | |
| | | HELiOS SmartSearch Server HELiOS Internet Server | | |
| | | | | |
| | Lizenz-Server | HELiOS Application Server | | |
| | HELIOS Database Creator | HELiOS Spooler | | |
| | | Eplan Article Synchronization | | |
| | In order to read the installation instructions, the Adobe® Reads | THE WORLD OF CAD AND POM SOLUTIONS | | |
| © 1985 - 2020 ISD Group. All rights reserved. | | | | |

Click on the **HELiOS Help** button.



Enter the installation directory for HELiOS.

| 🖟 HELiOS Documentation Set | qu | — | | × | | | |
|---|---------------------------------------|---------|-------|----|--|--|--|
| Ready to install HELiOS I | Ready to install HELiOS Documentation | | | | | | |
| Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard. | | | | | | | |
| | Back | Install | Cance | el | | | |
| 🖟 HELiOS Documentation Set | чр | | | Х | | | |
| HELIOS 2020 | Completed the HEL Setup Wizard | | | | | | |
| | Back | Finish | Cance | el | | | |

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

Installing the HELiOS Internet Servers

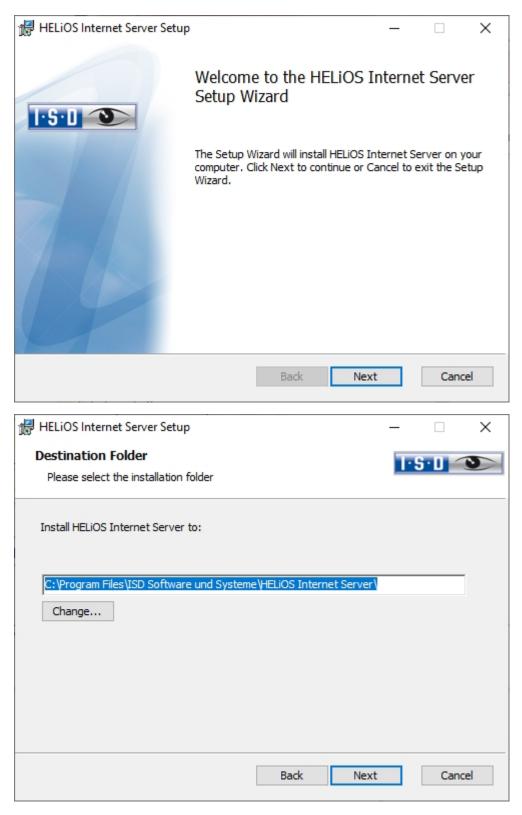
For the **HELIOS Internet Server** you require the **Microsoft Internet Information Services**. In Windows this is included, but requires a separate installation/activation that needs to be performed before installing the HELiOS Internet Server.

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

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

| PHELiOS 2020 (2502.0 x64) D | 0B Version 234 | | × | |
|---|--|--|---|--|
| 0 | Language English | Client Installations HELiOS Desktop | | |
| 020 | Installation Documents | HELIOS Update for HiCAD 2018 | | |
| 0 | HELiOS - Installation Notes | HELIOS Update for HiCAD 2019 | | |
| | Program Help | HELIOS Update for HiCAD 2020 | | |
| | The installation of the Help files is only required if there is no Internet connection. | PostScript Printer | | |
| | HELiOS Help | Server Installations | | |
| \cap | | HELiOS Vault Server | | |
| | Administrator Tools | HELiOS SmartSearch Server | | |
| | This component may only be installed on the License Server! | HELiOS Internet Server | | |
| | Lizenz-Server | HELiOS Application Server | | |
| | HELiOS Database Creator | HELiOS Spooler | | |
| 1 | | Eplan Article Synchronization | | |
| In order to read the installation instructions, the Adobe® Reader® is required. | | | | |

Click on the HELiOS Internet Server button.



Enter the installation directory for the software.

| Server settin | net Server Setup gs he Internet Server | | | | × |
|-------------------|---|-----------|----------|-----------------|-------------|
| | ۲ | Live mode | O Test n | node | |
| Server addresses | s | | | | |
| Internet Server | localhost | Port | 443 | SSL Certificate | Ý |
| WebAPI | localhost | Port | 30000 | SSL Certificate | ¥ |
| Identity-Server | localhost | Port | 30001 | SSL Certificate | × |
| | | | | | |
| WebAPI user acc | | | | | |
| User | din99933\mayamustermann | Password | ••••• | ••••• | |
| E-mail connectior | | | | | |
| | - | | | | |
| SMTP Server | DEHDUW.inhz.isdgroup.com | Port | 25 | SSL | |
| SMTP password | •••• | Sender | noreply | @localhost | |
| | | | | | |
| | | | Г | Back | Next Cancel |

Under **Server addresses** you enter the internet addresses for the HELiOS internet server (e.g. his.isdgroup.com / hisapi.isdgroup.com / hisid.isdgroup.com), including ports and during **Live mode** one or more SSL certificates for https matching the internet addresses.

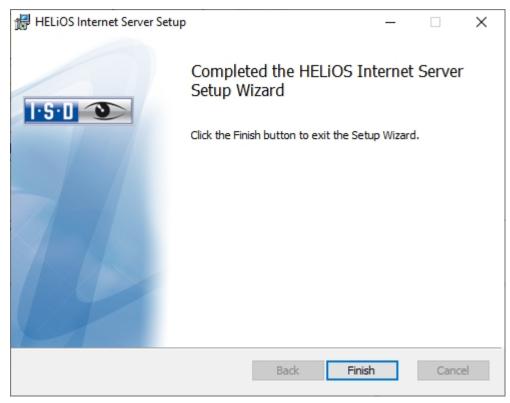
In **Test mode** only http without coding is configured.

| Berver setting Settings for t | | | × |
|----------------------------------|---|--------------------|------------------------|
| Security's for a | le interiet server | | |
| | ◯ Live mode () Test | mode | |
| | ty reasons, the test mode is only recommended for on (SSL) is configured! | demonstration purp | oses, as no connection |
| Server addresses | 5 | | |
| Internet Server | localhost | Port | 80 |
| WebAPI | localhost | Port | 30000 |
| Identity-Server | localhost | Port | 30001 |
| WebAPI user acc | ount | | |
| User | din99933\mayamustermann | Password | ••••• |
| E-mail connection | 1 | | |
| SMTP Server | DEHDUW.inhz.isdgroup.com | Port | 25 SSL |
| SMTP password | •••• | Sender | noreply@localhost |
| | | | |
| | | Back | Next Cancel |

Enter your Windows user account under **WebAPI user account**under which HELiOS functions are to be executed. Under **E-mail connection** enter the connection settings of the E-mail server to send "Forgot password" E-mails as an example. Then click **Next**.

| 😥 HELiOS Internet Server Setup | | | × |
|---|----------|-------|-----|
| Ready to install HELiOS Internet Server | | 5·D < | 9 |
| 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 | |
| | | | |
| Save Back Install | | Can | cel |

Click Install.



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

Installing the HELiOS Spooler

Important installation notes - please read carefully!

As the HELiOS Spooler (as of HELiOS 2015, V 2000.0) is an entirely new software, an update of the old Spooler is not possible. Before installing the new HELiOS Spooler, please make a record of the old Spooler's settings, uninstall it, and then adjust the settings of the new Spooler accordingly.

Further information can be found in the HELiOS Online Help.

The HELiOS Spooler is only available as a 64Bit version, and supports only 64Bit applications.

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

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

| HELIOS 2020 (2502.0 x64) E | DB Version 234 | | × |
|----------------------------|--|--|---|
| 0 | Language English | Client Installations HELiOS Desktop | |
| N | Installation Documents | HELiOS Update for HiCAD 2018 | |
| 07 | HELiOS - Installation Notes | HELiOS Update for HiCAD 2019 | |
| | Program Help | HELiOS Update for HiCAD 2020 | |
| SS | The installation of the Help files is only required if there is no Internet connection. | PostScript Printer | |
| | HELiOS Help | Server Installations | |
| | | HELiOS Vault Server | |
| | Administrator Tools | HELiOS SmartSearch Server | |
| | This component may only be installed on the License Server! | HELiOS Internet Server | |
| | Lizenz-Server | HELiOS Application Server | |
| | HELiOS Database Creator | HELiOS Spooler | |
| 1 | | Eplan Article Synchronization | |
| | In order to read the installation instructions, the Adobe® Read © 1985 - 2020 ISD Group. All rights rea | I-S-D O | |

Click on the **HELiOS Spooler** button.



Enter the installation directory for the software.

| 🖟 HELiOS Spooler Setup | | - | | × |
|--|-----------------|---|-------|----|
| Configuration HELiOS Spooler Settings | | Т | S·D < | J |
| Password Start service upon installation | 44\Administrato | CAD Add-Ins HiCAD AutoCAD Inventor SolidWorks | | •• |
| | Back | 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; currently this applies in particular to the interface with SOLIDWORKS.

If you are considering using the HELiOS Spooler together with SOLIDWORKS, we therefore recommend choosing the **Start in interactive mode** option during installation in order to avoid problems. 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.

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.

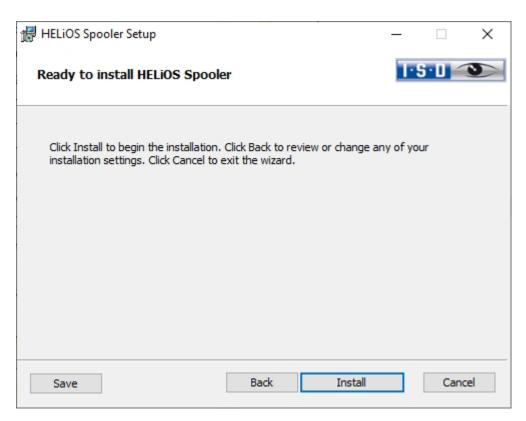
| 🖟 HELiOS Spooler Set | tup | | × |
|--|---------------------|------|--------|
| Database connect Settings for connect | | Т | S·D 🕥 |
| System data source | HeliosBauteil | | ~ |
| HELIOS User | Administrator | | ~ |
| HELIOS Group | PDM-Administratoren | | ~ |
| ✓ Use Vault Server | | | |
| Address ISDVault | | Port | 9000 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | Back Net | xt | Cancel |

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

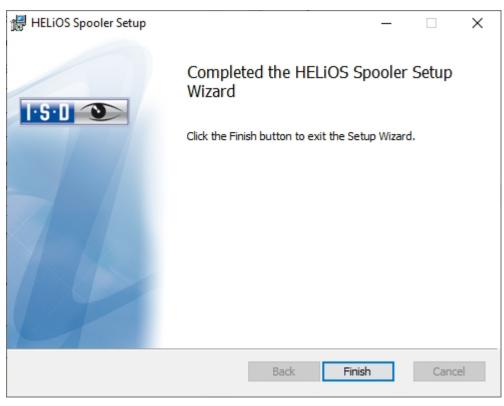
Under **System data source** you must then select the corresponding ODBC database connection. The **HELiOS User** via which the Spooler will run is also selected here. It is important that this user has administration rights and is also assigned to the **HELiOS Group** "PDM Administrators" at this point. Otherwise you will receive an error message.

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

Click Next.



Click Install.



Click **Finish** to complete your installation.

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

Installing the HELiOS SmartSearch Server

The **SmartSearch** in HELiOS allows a quick retrieval of parts, documents, folders and projects by means of a (also object-) comprehensive meta data and full text search.

To be able to use the **SmartSearch**, you need to install an index server, the so-called **HELiOS SmartSearch Server**, on your system. The only requirement for installation is Java Runtime Environment. If no Java Runtime Environment has been installed on the Server yet this needs to be done now.

Dease note:

The SmartSearch functions have to be activated by a registry entry per each workplace. For this, the provided file EnableSmartSearch.reg from the installation directory HELiOS SmartSearch can be executed on the respective computer.

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

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

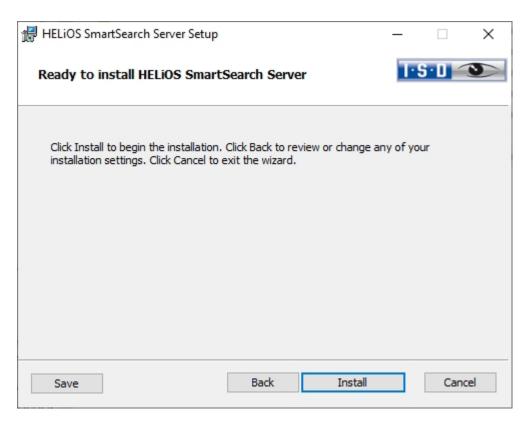
| PELIOS 2020 (2502.0 x64) | DB Version 234 | | × | |
|--------------------------|---|--|---|--|
| 0 | Language | Client Installations HELiOS Desktop | | |
| 020 | Installation Documents | HELiOS Update for HiCAD 2018 | | |
| 0 | HELiOS - Installation Notes | HELIOS Update for HiCAD 2019 | | |
| $\overline{\mathbf{a}}$ | Program Help | HELiOS Update for HiCAD 2020 | | |
| S | The installation of the Help files is only required if there is no Internet connection. | PostScript Printer | | |
| | HELiOS Help | Server Installations | | |
| | | HELiOS Vault Server | | |
| | Administrator Tools | HELiOS SmartSearch Server | | |
| | This component may only be installed on the License Server! | HELIOS Internet Server | | |
| | Lizenz-Server | HELiOS Application Server | | |
| | HELiOS Database Creator | HELiOS Spooler | | |
| | | Eplan Article Synchronization | | |
| | In order to read the installation instructions, the Adobe® Reade | r® is required. | | |
| | © 1985 - 2020 ISD Group. All rights res | erved. | | |

Click on the HELiOS SmartSearch Server button.

If Java Runtime has not been installed on your system yet, this must be done prior to the actual installation.



Enter the installation directory for the HELiOS SmartSearch Server and click Next.



Click Install.

| HELIOS SmartSearch Server | Setup | _ | | × |
|---------------------------|---|---|------|----|
| | Completed the HELiOS So Server Setup Wizard Click the Finish button to exit the Set | | | |
| | Back Finis | h | Canc | el |

Click Finish to complete your installation.

Installing the EPLAN Article Synchronization

In addition to the EPLAN interface that must be activated in the **HELIOS Interfaces** tab of the **Extended settings** window, you need to install the **EPLAN Article Synchronization** service. You can find the corresponding button at the bottom right of the selection mask.

Please note:

For the configuration of the HELiOS-EPLAN interface please contact the ISD Consulting team.

To install the HELiOS Spooler, please start Windows. If Windows has already been started, please close all other applications. Insert the DVD in your DVD drive. The installation wizard will then be started automatically.

| | - | |
|------|--|-------------------------------|
| | Language | Client Installations |
| 0 | 🚟 English | HELiOS Desktop |
| 2020 | Installation Documents | HELIOS Update for HiCAD 2018 |
| 0 | HELiOS - Installation Notes | HELiOS Update for HiCAD 2019 |
| | Program Help | HELiOS Update for HiCAD 2020 |
| SC | The installation of the Help files is only required if there is no Internet connection. | PostScript Printer |
| | HELiOS Help | Server Installations |
| | | HELiOS Vault Server |
| | Administrator Tools | HELiOS SmartSearch Server |
| | This component may only be installed on the License Server! | HELiOS Internet Server |
| | Lizenz-Server | HELiOS Application Server |
| | HELiOS Database Creator | HELiOS Spooler |
| | | Eplan Article Synchronization |
| | In order to read the installation instructions, the Adobe® Reade | r® is required. |
| | | |

Click on the EPLAN Article Synchronization button.



Enter the installation directory for the software.

| 🖟 ISD HELIOS EPLAN | N Article Synchronization Setup | _ | | × |
|--------------------|------------------------------------|------|------------|-----|
| | N Article Synchronization Settings | 1. | <u>S·D</u> | 3 |
| | | | | |
| Service registrat | ion | | | |
| User | DEDTM144\Administrator | | | |
| Password | ••• | | | |
| Start servi | ice upon installation | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | Back | Next | Can | cel |
| | | | | |

In the User field, enter the User login for HELiOS, (or a user account) with access to HELiOS.

| 🕼 ISD HELiOS EPLAN Article Synchronization Setup | ° <u> </u> | | × |
|---|--------------|-------|----|
| Ready to install ISD HELIOS EPLAN Article Synchroniz | ation | 5.0 < | 5 |
| 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 | II | Cano | el |

You can now begin with the installation or modify the **Extended settings**, e.g. for HELiOS.

| | | · | | × |
|--------------------|-------------------|------|------|---|
| HELIOS | | | | |
| System data source | HeliosBauteil | | | |
| User | hicad | | | |
| Password | ••••• | | | |
| Use Vault Server | Address localhost | Port | 9000 | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | OK Save Cancel | | | |

The existing system data source will be suggested. User and Password are identical to those for 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. These can be found at **PARE** > HELIOS Options > Database > General > Vault Server .

Click Save to store the Extended settings in an .ini file. Confirm withOK.

| 🖟 ISD HELiOS EPLAN Article Synchronization Setup | · - · | | \times |
|--|--------------|-------|----------|
| Ready to install ISD HELiOS EPLAN Article Synchroniz | ation | S·D 🧹 | 0 |
| Click Install to begin the installation. Click Back to review or chang installation settings. Click Cancel to exit the wizard. | je any of yo | bur | |
| Extended settings | | | |
| Back Insta | II | Cano | el |

Click Install to start the installation.

| 🖟 ISD HELiOS EPLAN Article S | un altra nization Catum | | | ~ |
|------------------------------|---|---------|--------|---|
| IN ISU HELIUS EPLAN ARTICLES | ynchronization Setup | _ | | × |
| | Completed the ISD HELI Article Synchronization S Click the Finish button to exit the Se | Setup W | /izard | |
| | Back Fini | sh | Cance | ! |

After successful installation, the EPLAN menu will contain the **Synchronize articles with HELiOS** function in the **PDM** menu.

Configuration

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

- Configuration HELiOS (Central Distribution of Settings)
- Parameter Configuration for HELiOS

Configuration HELiOS (Centrale Distribution of Settings)

During installation of HELiOS you may either import the HELiOS settings (e.g. user interface, masks and attribute assignments) as a ZIP package as usual or provide them locally (in a network folder). HELiOS then checks for newer settings when the application is started and updates the local settings accordingly.

The optional request for UI configuration during a New, Update or Change Installation has been extended in HELiOS 2020. It is now possible to distinguish between a local and a central (cross-computer) directory. This means that you can save the HELiOS 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 HELiOS under **View > Settings > Export**.

| 🖟 Extended settings | | | | × |
|--|--|--------|-----|---|
| HELiOS HELiOS Interfaces | General | | | |
| System data source User Password I Use Vault Server | HeliosBauteil hicad ••••• Address localhost | Port 9 | 000 | |
| SmartSearch-Server | Configuration | | | |
| ✓ Use Spooler | Server localhost | | | |
| Use Application Server | Address | Port | | |
| Saving of configuration files Configuration file | Use local (computer-specific) of Use central directory for configure | | | |
| | OK Save Cancel | | | |

If you select the option **Use central directory for configuration data** in the new or update installation, a **directory** (e.g. network drive) must be selected via Windows Explorer instead of the local **Configuration file**in .ZIP format.

Change Installation

| 🖟 HELiOS 2020 Setup | | | · _ · | | × | |
|---|----------------------------|--------------|----------|------|-----|--|
| Change Installation HELiOS 2020 Settings | 1 | | I-S-L | | | |
| Use Spooler Server | la sella se l | _ | | | | |
| Use Application Se | localhost | | | | | |
| Server | | Port | | | | |
| Use Vault Server | | | | | | |
| Server | localhost | Port | 900 | D | | |
| Activate ISD Update Service | | | | | | |
| Use central directo | ry for configuration data | | | | | |
| Directory | C:\ProgramData\ISD Softwar | e und System | e HELiOS | 2020 | | |
| | , | | | | | |
| | Back | Nex | ĸt | Cano | cel | |

A **Change Installation** from HELiOS offers the option to change a central configuration subsequently. However, a subsequent selection of a local Configuration file is not required here. If would like to change the configuration file subsequently, use the **HELiOSConfigImport.exe** tool.

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 2020. If in doubt, contact the ISD consulting team if you have any further questions.
- 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.
- 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.
- When updating an older HELiOS to HELiOS 2020 or higher, old mask files (in the \sys\ directory of the installation) are converted to the new XML format during the process and saved under % Program Data%. This conversion is not dependent on whether the local or central directory was selected for the interface configuration. The old configuration file can then be found in a backup directory created by the operation 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%

Parameter Configuration for HELiOS

HELiOS provides appropriately adjusted user interfaces and configurations for various interfaces. During installation of HELiOS the **MultiCAD.csv** file, that sets up the templates required for the operation of the interface, will automatically be run via the **HeliosClientConfig.exe** program.

You can also load an own *.csv file subsequently if desired. In the EXE directory of your HELiOS installation, start

the HeliosClientConfig.exe program. Click the we button to select the path of the CSV file and confirm with OK.

| HELiOSClientConfig | | |
|--------------------|--------------------|----------------------------------|
| | | |
| | Configuration file | C:\HELiOS\templates\MultiCAD.csv |
| | | OK Cancel |

Furthermore, HELiOS offers template files for title blocks (AutoCAD drawing frames with database attributes) and HELiOS masks that have been adjusted for MultiCAD operation:

- In the ...\templates directory of your HELiOS Desktop installation you will find the adjusted HELiOS masks for MultiCAD operation in the ...\MultiCAD folder. Copy them to the ...\sys directory of your HELiOS installation.
- In the...\templates\AutoCAD\ directory you will find drawing frame templates that you can copy to the corresponding templates directory of your CAD software

Update

- Licensing in Case of Updates
 - Updating the Server License
 - Updating Local Licenses
- Carrying Out the Installation
- Data Compatibility of HiCAD/HELiOS
- ISD Update Service
 - Installing the ISD Update Service
 - Using the ISD Update Service
 - ISD Update Service: Settings
- Updating the HELiOS Database (Database Schema)
- Mask Converter for HELiOS
- Manual Registration of Multi-CAD Add-ins

Important notes on updates!

Harware Exchange

If you use local 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 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 HELiOS 2019 or 2018 to HELiOS 2020 you must deactivate all licenses (Server Licenses or Local Licenses). The procedures for Server Licenses and Local Licenses are different.

Data compatibility

When performing a HELiOS update, the update start mask shows you the HELiOS subversion, 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.

Backup HELiOS

It is mandatory to make a database backup before carrying out an update, as the update can normally only be reverted by importing the backup.

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.

Updating the HELiOS-SOLIDWORKS interface

For an update of the SOLIDWORKS 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:

Since a migration of the configuration IDs is performed during the update, an update installation can only be performed after the migration has been prepared accordingly. In the event of an update, 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

Until HELiOS 2019, attribute mapping at SOLIDWORKS was done by the following files:

- heliossw_titleblock.dat (attributes for the title block),
- helios_cs_global_config.dat (attribute mapping/presetting in both directions),
- sw_comp_name.dat (display in the model tree in CAD).

As of HELiOS 2020 (Version 2500.0), the mapping must be set up again manually. No migration tools exist.

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, AutoCAD and SOLIDWORKS!

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.

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 HELiOS 2019 or 2018 to HELiOS 2020 you need to 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 Versions 2019 or 2018 first, and then activate those for Version 2020.

You can start with the installation of 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 HELiOS 2020. 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 . In the selection mask of the installation wizard, click on the **License Server** button.

| PHELIOS 2020 (2502.0 x | 64) DB Version 234 | | × |
|-------------------------|--|-------------------------------|---|
| | Language | Client Installations | |
| 0 | 🚟 English | HELiOS Desktop | |
| 020 | Installation Documents | HELiOS Update for HiCAD 2018 | |
| | HELiOS - Installation Notes | HELiOS Update for HiCAD 2019 | |
| $\overline{\mathbf{N}}$ | Program Help | HELiOS Update for HiCAD 2020 | |
| 10 | The installation of the Help files is only required if there is no Internet connection. | PostScript Printer | |
| | HELiOS Help | Server Installations | |
| \cap | | HELiOS Vault Server | |
| | Administrator Tools | HELiOS SmartSearch Server | |
| | This component may only be installed on the License Server! | HELiOS Internet Server | |
| | Lizenz-Server | HELiOS Application Server | |
| | HELIOS Database Creator | HELiOS Spooler | |
| 1 | | Eplan Article Synchronization | |
| | In order to read the installation instructions, the Adobe® Reader | © is required. | |
| | © 1985 - 2020 ISD Group. All rights rese | erved. | |

Before you can use the new licenses of HELiOS 2020 you need to deactivate the old licenses for Version 2019 or 2018 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 Version 2019/2018 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 HELiOS 2020 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 new Update form (isd-group.com > Support & Schulung > ISD Wiki > Download) 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 checkboxes 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 HELiOS.

Updating Local Licenses

Before installing HELiOS 2020 you need to deactivate the local licenses for HiCAD 2019 or 2018 on your workstation. After installing HELiOS 2020 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 HELiOS 2020 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 new Update form (isdgroup.com > Support & Schulung > ISD Wiki > Download) and the subsequent provision of the licenses by the ISD. After installing 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 HELiOS.

Carrying Out the Installation

The installation of HELiOS can be carried out by a technician of the ISD or by the customer.

In this context, please note the following recommendations by the ISD:

- HELIOS
 - Update of version 2019 or 2018 to version 2020: An installation by the ISD is recommended.
 - Update of version 2017 (or older) to version 2020: An update is not possible. The update installation from version 2008 (or older) additionally included a data conversion from ANSI to UNICODE format. Please contact our Consulting team.
- 3rd party CAD with HELiOS
 - Update of version 2019 or 2018 to 2020: An installation by the ISD is recommended.

ISD Update Service

The automatic search for and installation of 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 HELiOS updates (Hotfixes), either during the installation of HELiOS or, later, via the Windows Control Panel.

| 🕼 Extended settings | | | × |
|--|-----------|------|---|
| HELIOS HELIOS Interfaces General | | | |
| Installation directory C:\Program Files\ISD Software und Sy Update-Installation | /steme\HE | LiOS | |
| Activate license administration tools | | | |
| ✓ ISD Update Service aktivieren | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| OK 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.

| Control Panel Home | Uninstall or change a program | | | | | |
|---------------------------------------|--|-------------------------------------|--------------|---------|-----------------|---------------|
| View installed updates | To uninstall a program, select it from the list and then | click Uninstall, Change, or Repair. | | | | |
| Turn Windows features on or off | Organize 🔻 Uninstall Change | | | | | i≣ ▼ @ |
| Install a program from the network | Name | Publisher | Installed On | Size | Version | |
| | HELIOS | ISD Software und Systeme | 24/01/2020 | 5.16 MB | 25.0.0.157 | |
| | P HELIOS | ISD Software und Systeme | 13/01/2017 | 26.0 MB | 22.0.0.131 | |
| | HELiOS Change | ISD Software und Systeme | 15/11/2018 | 125 MB | 24.0.0.84 | |
| | HELiOS Spooler | ISD Software und Systeme | 05/05/2017 | 146 MB | 22.1.0.243 | |
| | HiCAD 2019 EN | ISD Software und Systeme | 25/01/2019 | 5.36 GB | 24.0.0.149 | |
| | 余 Inkscape 0.91 | | 21/09/2015 | | 0.91 | |
| | Management Engine Components | Intel Corporation | 22/04/2015 | | 10.0.25.1048 | |
| | Intel(R) Network Connections Drivers | Intel | 22/04/2015 | 916 KB | 19.3 | |
| | 😹 Intel® USB 3.0 eXtensible Host Controller Driver | Intel Corporation | 22/04/2015 | 18.4 MB | 3.0.2.54 | |
| | 💓 ISD FilePrinter PS | ISD Software und Systeme GmbH | 20/10/2016 | 21.0 KB | 2.0.0.0 | |
| | 🕌 Java(TM) 6 Update 21 (64-bit) | Oracle | 21/08/2017 | 90.4 MB | 6.0.210 | |
| | 🛅 MadCap Capture 7 | MadCap Software | 15/11/2016 | 148 MB | 7.0 | |
| | 💋 MadCap Flare 12 | MadCap Software | 15/11/2016 | 1.02 GB | 12.0.5991.25330 | |
| | 💋 MadCap Flare 2018 r2 | MadCap Software | 13/11/2018 | 1.37 GB | 14.1.6875.33553 | |
| | 💋 MadCap Flare V10 | MadCap Software | 28/04/2015 | 656 MB | 10.0.0 | |
| | 🚳 MadCap Mimic 8.1 | MadCap Software | 13/11/2018 | 433 MB | 8.1.6680.17664 | |
| | Microsoft .NET Core 1.1.0 - SDK 1.0.0 Preview 2.1-003 | Microsoft Corporation | 13/11/2018 | 178 MB | 1.0.0.3177 | |
| | Microsoft .NET Framework 4 Multi-Targeting Pack | Microsoft Corporation | 22/04/2015 | 83.4 MB | 4.0.30319 | |
| | Kicrosoft .NET Framework 4.7.2 | Microsoft Corporation | 31/08/2018 | 38.8 MB | 4.7.03062 | |
| | Microsoft Command Line Utilities 13 for SQL Server | Microsoft Corporation | 15/08/2016 | 2.75 MB | 13.0.1601.5 | |
| | Hicrosoft Help Viewer 1.1 | Microsoft Corporation | 22/04/2015 | 3.97 MB | 1.1.40219 | |
| | Microsoft ODBC Driver 11 for SQL Server | Microsoft Corporation | 22/04/2015 | 4.61 MB | 12.0.2000.8 | |
| | Microsoft ODBC Driver 13 for SQL Server | Microsoft Corporation | 15/08/2016 | 8.06 MB | 13.0.1601.5 | |

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



| 🖟 HELiOS 2020 Setup | | | · _ · | | × |
|--|---|-------------|-------------|---------|----|
| Change Installation HELiOS 2020 Settings | | | ·S·D | | |
| Use Spooler Server | localhost | | | | |
| Use Application Server | /er | Port | | | |
| Use Vault Server Server | localhost | Port | 9000 |) | |
| Activate ISD Update Use central director Directory | e Service y for configuration data │C:\ProgramData\ISD Software | und Systeme | e (HELiOS) | 2020' . | |
| | Back | Nex | t | 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

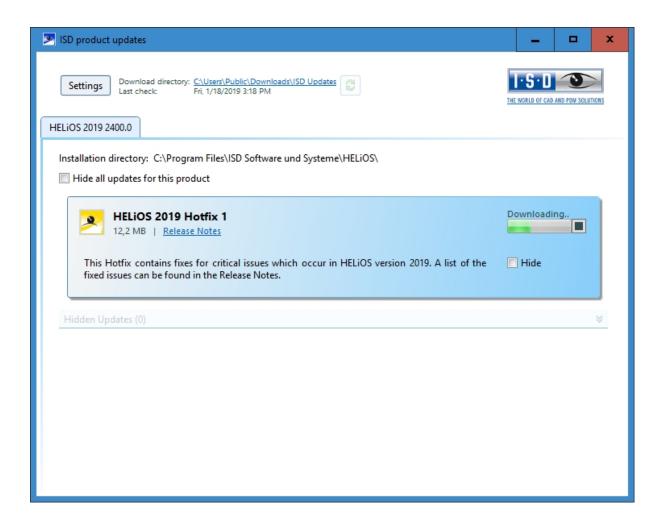
If you have installed the ISD Update Service, the following message appears at the bottom right of your screen whenever a Hotfix is available:



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.

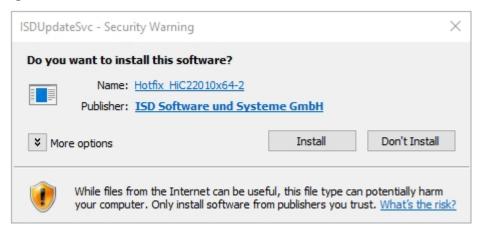
| SD product updates | - 🗆 X |
|--|------------------------------------|
| Settings Download directory: C:\Users\Public\Downloads\ISD Updates Last check: Fri, 1/18/2019 3:18 PM HELiOS 2019 2400.0 | THE WORLD OF CAD AND POW SOLUTIONS |
| Installation directory: C:\Program Files\ISD Software und Systeme\HELiOS\ | |
| HELIOS 2019 Hotfix 1 12,2 MB Release Notes | Download |
| This Hotfix contains fixes for critical issues which occur in HELiOS version 2019. A list of the fixed issues can be found in the Release Notes. | 🗖 Hide |
| 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.



| ISD product updates | | × |
|---|---------|-----------|
| Settings Download directory: C:\Users\Public\Downloads\\SD Updates Last check: Fri, 1/18/2019 3:18 PM HELiOS 2019 2400.0 | I-S-D | SOLUTIONS |
| Installation directory: C:\Program Files\ISD Software und Systeme\HELiOS\ Hide all updates for this product | | |
| HELIOS 2019 Hotfix 1 12,2 MB Release Notes This Hotfix contains fixes for critical issues which occur in HELiOS version 2019. A list of the fixed issues can be found in the Release Notes. | Install | |
| Hidden Updates (0) | | * |
| | | |
| | | |

After downloading of the Hotfix, click Install.



Confirm the Windows Security Warning with Install.

Follow the instructions on the screen to install the update.

The HELiOS Info window indicates the current HELiOS version number (incl. build number) and the numbers of installed hotfixes. To display the Info window, click **Help Topics and Information** on the top of HELiOS Desktop and then select **HELiOS Desktop**.



ISD Update Service: Settings

If you have installed the ISD Update Service, you can, after calling the program (with the **2** 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 | - 🗆 X |
|---|------------------------------------|
| Settings Download directory: C\Users\Public\Downloads\\SD Updates Last check: Fri, 1/18/2019 3:18 PM HELIOS 2019 2400.0 | THE WORLD OF CAD AND POW SOLUTIONS |
| Installation directory: C:\Program Files\ISD Software und Systeme\HELiOS\ | |
| HELIOS 2 12,2 MB This Hotfix conta fixed issues can b Bearch for updates, all Image: Display the state of the s | Download Hide |
| | |

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 🧉 icon to start the search for updates manually.

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:

| HELiOS System Message | _ | × | |
|---|-----|---|-----|
| 2020-01-14 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 sub-version207 (required: 208). For this program the database sub-version is not up-to-date. A database version update with the 'HeliosDbUpdate' program is required | ed. | | < > |
| < | | > | .e |

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.
- 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.

Delease 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.
- 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.

The update can be performed from any HELiOS workstation with a database connection.

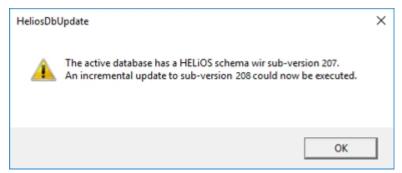
The **HeliosDbUpdate.exe** program is used for this purpose. It can be started via the Windows Explorer, or similar programs, from the exe directory of the HELiOS installation.

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

| HeliosDbUpdate: Update of database schema | × |
|---|---|
| Update Update database | Close Software-Version: 27 / 208 Database-Version: 27 / 207 Re-determine Check update capability of active database |
| | |

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

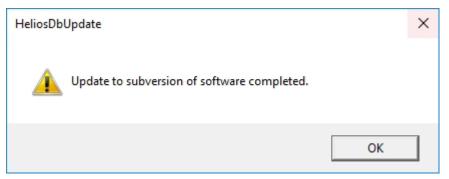
The following message (version numbers may vary) will be displayed after clicking the button.



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

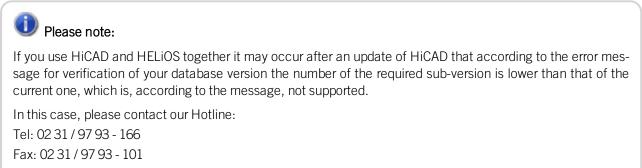


Confirm with Yes to perform the update. After a successful update, the following message will be displayed.



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.



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, SOLIDWORKS or EPLAN.

| PELiOS- Couplings | _ | × |
|--|---|---|
| CAD AutoCAD[®] Inventor[®] 2018 Navisworks[®] SOLIDWORKS[®] Zuken E3[®] Microsoft Office[®] Excel Outlook PowerPoint Word Sonstige EPLAN[®] | | |
| OK Save | | |

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:

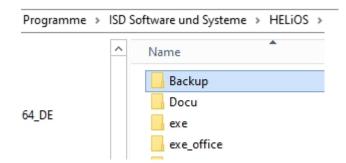
The masks of older versions that were previously stored in the \sys\ directory of the installation are automatically converted to the new XML format by an update installation of an older HELiOS version to HELiOS 2020 (V 2500.0) or higher and stored at **%Programdata%**.

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.

| :\ProgramData\ISD Software und Systeme\HELiOS 2020\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.

💺 Important:

This means: If masks are to be distributed uniformly to different workstations, they must be saved under **%Ap-pdata%** 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.

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)
- 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

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 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 ISD Wiki at Product Know-how > Whitepaper you can find the PDF document Use case: Checkout 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 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 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 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 (HELiOS) is installed, as both product share system data concerning the licensing information. Formerly, such parallel install-

ations 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 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 HELiOS update to Version 2020 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.

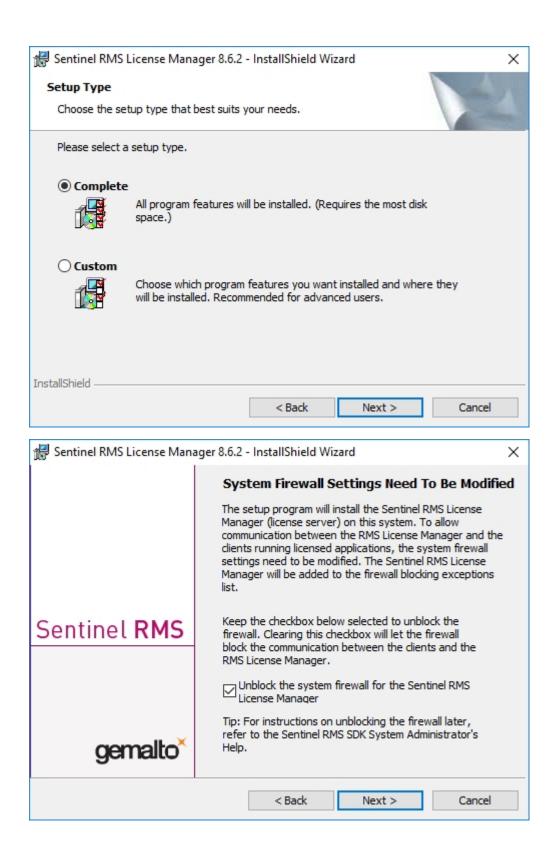
Leave the selection mask open, open, so that you can select the desired components one after the other.

| PHELIOS 2020 (2502.0 x64) | DB Version 234 | | × |
|---------------------------|---|--|---|
| 0 | Language English | Client Installations HELiOS Desktop | |
| 02 | Installation Documents | HELIOS Update for HiCAD 2018 | |
| 0 | HELiOS - Installation Notes | HELIOS Update for HiCAD 2019 | |
| | Program Help | HELIOS Update for HiCAD 2020 | |
| | The installation of the Help files is only required if there is no Internet connection. | PostScript Printer | |
| | HELiOS Help | Server Installations | |
| \cap | | HELiOS Vault Server | |
| | Administrator Tools | HELiOS SmartSearch Server | |
| | This component may only be installed on the License Server! | HELiOS Internet Server | |
| | Lizenz-Server | HELIOS Application Server | |
| | HELiOS Database Creator | HELiOS Spooler | |
| 1 | | Eplan Article Synchronization | |
| | In order to read the installation instructions, the Adobe® Reade © 1985 - 2020 ISD Group. All rights rea | · I·S·D ① | |

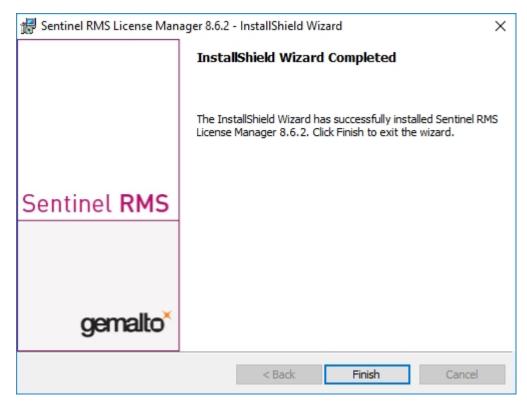
Click on the License Server button.

| 付 Sentinel RMS License Man | ager 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 Licens Manager 8.6.2 on your computer. To continue, click Nex recommended that before continuing the installation, the previous version(s) are uninstalled, incase they are not a | t. It is |
| Sentinel RMS | | |
| | WARNING: This program is protected by copyright law a international treaties. | nd |
| gemalto [×] | | |
| | < Back Next > Can | cel |
| 🖶 Sentinel RMS License Man | ager 8.6.2 - InstallShield Wizard | × |
| 565 | | |
| License Agreement Please read the following lice | ense agreement carefully. | |
| Please read the following lice | | |
| 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 | e Grant/Warranty for Software nited rights granted by SafeNet, Inc. and/or one of ", "Seller") to the Buyer. ", as used herein, shall mean a program or progra adable logical instruction and tables of informat drivers to work in conjunction with Seller's Senti Products"). Title to all Software furnished to Buy Seller Seller grants to Buyer a non-exclusive in nse agreement | its ms ion nel yer |
| Please read the following lice License This License describes line subsidiaries (such grantor A. The term "Software" consisting of machine re designed as libraries or of Keys and/or Software ("Fe hereunder shall remain in I accept the terms in the licent | e Grant/Warranty for Software nited rights granted by SafeNet, Inc. and/or one of ", "Seller") to the Buyer. ", as used herein, shall mean a program or progra adable logical instruction and tables of informat drivers to work in conjunction with Seller's Senti Products"). Title to all Software furnished to Buy Seller Seller grants to Buyer a non-exclusive in nse agreement | its ms ion nel yer |

| 🖟 Sentinel F | RMS License Manager 8.6.2 | - InstallShield Wi | zard | Х |
|---|---|---|--------|--------|
| Customer | Information | | | |
| Please en | ter your information. | | | |
| User Nam | e: | | | |
| Doku | | | | |
| Organizat | tion: | | | |
| | | | | |
| | | | | |
| | | | | |
| Install this | s application for: | | | |
| | Anyone who uses this co | omputer (all users) | | |
| | Only for me (Doku) | | | |
| | | | | |
| InstallShield — | | | | · |
| | | < Back | Next > | Cancel |
| | | | | |
| م⊡ام د به | | | | |
| | RMS License Manager 8.6.2 | - InstallShield Wi | zard | × |
| Destinatio | on Folder | | zard | × |
| Destinatio | on Folder t to continue installing to the fo | ollowing folder, | zard | × |
| Destinatio | on Folder | ollowing folder, | zard | × |
| Destinatio | on Folder t to continue installing to the fo | ollowing folder, | zard | × |
| Destinatio | on Folder t to continue installing to the fo | ollowing folder, | zard | × |
| Destinatio Click Next or click Ch | on Folder t to continue installing to the for hange to install to a different f | ollowing folder, older. | zard | × |
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| Destinatio Click Next or click Ch | Install Sentinel RMS License M C:\Program Files (x86)\Comm | ollowing folder, older. lanager 8.6.2 to: | | |



| 🖟 Sentinel | RMS License Manager 8.6.2 · | - InstallShield Wiz | zard | × |
|-------------------------|---|----------------------|------------------------------------|-----------------|
| Ready to | Install the Program | | | |
| The wiza | rd is ready to perform selected | operation. | | |
| Click Inst | all to begin the installation. | | | |
| If you wa exit the r | ant to review or change any of wizard. | your installation se | ettings, <mark>cl</mark> ick Back. | Click Cancel to |
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| | | | | |
| InstallShield - | | | | |
| | | < Back | Install | Cancel |
| 🖟 Sentinel | RMS License Manager 8.6.2 · | - InstallShield Wiz | zard — | |
| | Sentinel RMS License Man | | | |
| | ram features you selected are | | | |
| 17 | Please wait while the InstallSI Manager 8.6.2. This may take | | s Sentinel RMS Lice | nse |
| | Status: | | | |
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| InstallShield – | | | | |



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.

| ile Action Vie | w Help | | | | | | | |
|------------------|---|----------------------------------|--------------|---------|---------------|---------------|------|--|
| • 🔿 📅 📑 🤇 | i 📑 🛛 📰 🕨 🔲 🗤 🕪 | | | | | | | |
| 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 History for sensors. Loads the | 🏟 Remote Registry | Enables re | | Disabled | Local Service | | |
| | 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 not occur. History collection | 🖏 Secure Socket Tunneling Protoc | Provides su | Running | Manual | Local Service | | |
| | 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 Sveta | | |

📥 Important:

To ensure that the 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 HELiOS 2020 the ISD License Manager 4.0 will be required.

AutoRequest Licenses

When acquiring a 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.

Von: activation@isdgroup.de [mailto:activation@isdgroup.de] Gesendet: Mittwoch, 18. Januar 2020 09:36 An: Musterfrau, Nadine Betreff: EMS - Entitlement Certificate

Dear musterfrau@isdgroup.de,

Congratulations! An entitlement has been created for you with the following details:

| Entitlement Details | | | | | | |
|--|---|------------------|--------------------|------------|------------|---------------|
| EID: | 2ddbc643-343e-4e | c4-aed4-7bd5ł | oc44cfe1 | Start | Date: | 01/23/2020 |
| Customer: | | | | End I | Date: | Never Expires |
| Contact: | musterfrau@isdgr | oup.de | | | | |
| Associated Products | | | | | | |
| Product number | | Quantity | Remaining quantity | Start Date | End Date | Status |
| E102SOL1001 2500 | 0.0 | 2 | 2 | 01/23/2020 | 04/16/2021 | Enabled |
| E107BIB1001 2500 | 0.0 | 2 | 2 | 01/23/2020 | 04/16/2021 | Enabled |
| E130SMB1001 250 | 0.0 | 2 | 2 | 01/23/2020 | 04/16/2021 | Enabled |
| MasterLic 2500.0 | | 2 | 2 | 01/23/2020 | 04/16/2021 | Enabled |
| Now, follow the steps giv 1. Start ISD License Mana 2. Change to tab "License 3. Log on using the EID, 4. Check licenses to activa 5. Click on Activate butto For further assistance, con Contact No Tel. +49-(0 Email - support@isdgrou | ager. Activator" registered E-Mail and Pa at. m. htact us using the follow:)231-9793-166 | assword (ISD dov | | | | |

Sincerely,

ISD Software und Systeme GmbH Team

© 2020 SD Software und Systeme GmbH, All Rights Reserved

Å Important:

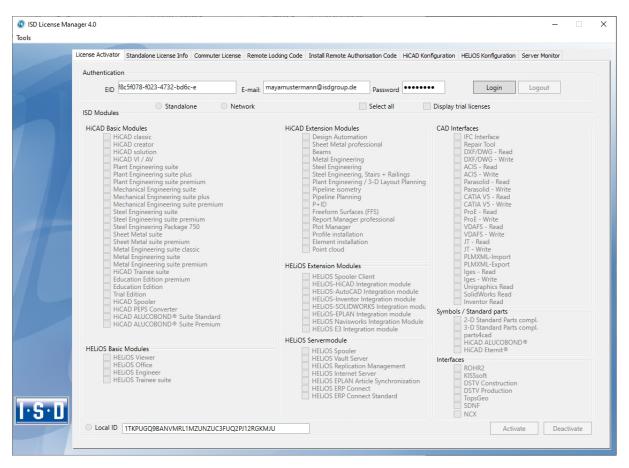
Please keep the Entitlement ID! Without this number you cannot activate or deactivate licenses. In case of a system crash a reconstruction of the licenses cannot take place without the Entitlement ID.

After installing 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).

🖺 Important:

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.



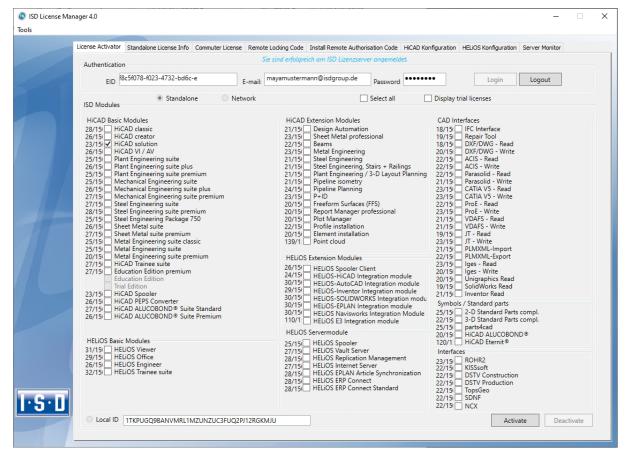
Activate the License Activator tab and enter the Entitlement ID, your E-mail address and your Password. New customers obtain their password from the ISD Hotline. With this password you can also access the Download Area.

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.

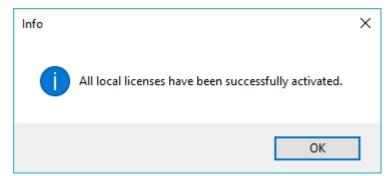
Activate Licenses

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 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

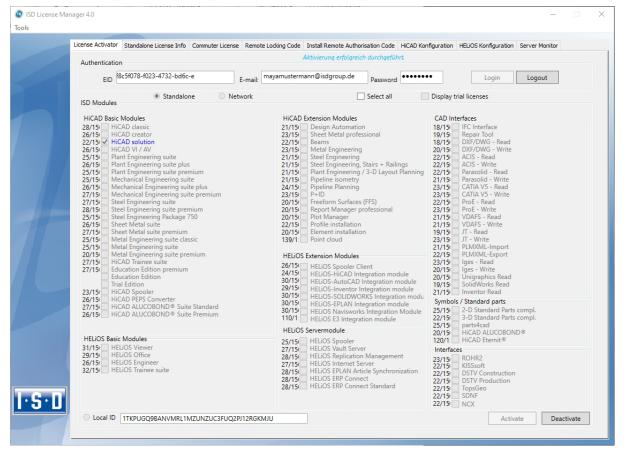
A deactivation of licenses for modules will be required in the following situations:

- Exchange of hardware or changing of hard disk partitioning
- Update of the operating system (e.g. from Windows 7 to Windows 10
- 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 HELiOS applications before deactivating local licenses or logging onto the License Manager.

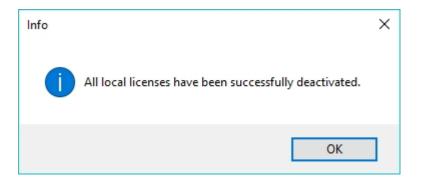
After starting the ISD License Manager the activated modules will be highlighted in a different colour.



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!

After successful deactivation the following message will be displayed.



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.

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.

| ISD License Manager 4.0 | | – 🗆 X |
|---------------------------------|--|-------------------------------|
| Tools | | |
| License Activator Standalone Li | License Info Commuter License Remote Locking Code Install Remote Authorisation Code HICAD Konfiguration HELIOS Konfigu | uration Revoke Server License |
| 192.168.232 | Check Server Name / IP Search network | |
| ₩-□₩ 192.168.232 | | |
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| | | |
| | | |
| Load workstation | Check out authorisation for remote computer Check out authorisation for remote computer | |
| Load user con | nfiguration Commuter license: Validity in days | |
| | Update licenses | |
| | Update licenses | |
| | | |
| I-S-D | | |
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If you have set the system environment variable LSFORCEHOST, the entered License Server will be displayed as the preselected server upon start. 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. The result looks as follows:

| License Activator Standalone License Info Commuter License Remote Locking Code Install Remote Authorisation Code HiCAD Konfig 192.168.232 Check Server Name / IP Search network 192.168.232 (001) Flock Manager Version "2599.0" 1002) HiCAD classic Version "2599.0" 1002) HiCAD classic Version "2599.0" 1002) HiCAD classic Version "2599.0" 1003) Sheet Metal professional Version "2599.0" 1010] Deams-Profiles Version "2599.0" 1011] Metal Engineering Version "2599.0" 1011] Metal Engineering Version "2599.0" 1011] Steel Ingeneering Version "2599.0" 1011] Floce Dongreening Version "2599.0" 1011] Floce Dongreening Version "2599.0" 1011] Floce Dongreening Version "2599.0" 1011] Floce Dongreening Version "2599.0" 1011] Free Tom Studiese Version "2599.0" | guration HELIOS Konfiguration | Server Monitor |
|---|-------------------------------|----------------|
| 192168.232 1001] Plot Manager Version "2599.0" 1002] HiCAD classic Version "2599.0" 1003] HiCAD classic Version "2599.0" 1004] HiCAD solution Version "2599.0" 1009] HiCAD columnic Version "2599.0" 1009] HiCAD version "2599.0" 1009] HiCAD solution Version "2599.1" 1009] Sheet Metal professional Version "2599.0" 1011] Metal Engineering Version "2599.0" 1013] Steel / Metal Engineering Version "2599.0" 1014] Steel Engineering Version "2599.0" 1015] Steel Engineering Version "2599.0" 1016] Pipeline Isometry Version "2599.0" 1017] Piel Scheme Version "2599.0" | | |
| [001] Plot Manager Version "2599.0" [002] HICAD classic Version "2599.0" [003] HICAD solution Version "2599.0" [004] HICAD solution Version "2599.0" [007] HICAD VI / AV Version "2599.0" [008] Design Automation Version "2599.0" [008] Design Automation Version "2599.1 [009] Sheet Metal professional Version "2599.0" [011] Metal Engineering Version "2599.0" [011] Metal Engineering Version "2599.0" [011] Steel Engineering Version "2599.0" [015] Steel Engineering Version "2599.0" [016] Pieline Isometry Version "2599.0" [017] Puel Scherm Version "2599.0" | | |
| | | |
| Check out authorisation for remote computer | | |
| Load workstation configuration Load user configuration Commuter license: Validity in days | | |
| | | |
| Update licenses | | |
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Select the required licenses by activating the corresponding checkboxes on the left hand side.

| | 192 168 232 | Check Server Name / IP | Search network | | |
|------|---|---|---|--|--|
| | 132.100.232 | Check Server Name 7 IP | Search network | | |
| | □ 192.163.222 □ [001] Pick Manager Version "2599.0" □ [001] Pick Manager Version "2599.0" □ [002] HiCAD classic Version "2599.0" □ [002] HiCAD creator Version "2599.0" □ [004] HiCAD creator Version "2599.0" □ [007] HiCAD creator Version "2599.0" | Name License name License name on Server License version Maximum "License check OUT" duration | Description HiCAD creator 3 2599.0 Restricted to license expiry | | |
| | | Max. number of simultaneous users Commuter tokens occupied | 100 | | |
| | [009] Sheet Metal professional Version . [010] Beams+Profiles Version ''2599.0'' | Commuter tokens free | 99 | | |
| | [011] Metal Engineering Version "2599.0 [013] Steel / Metal Engineering Version "2599.0 [014] Steel Engineering Version "2599.0" [015] Steel Engineering / Staits Version " | License expiry date | Tue Mar 31 23:59:59 2021 | | |
| | [016] Pipeline Isometry Version "2593.0" [017] PHD Schema Version "2593.0" [021] Free Form Surfaces Version "2593.0" [023] Really Sudio Version "2593.0" [023] Really Sudio Version 2593.0" [024] Report Manager professional Version | | | | |
| | □ [027] HiCAD Unfold Version "2599.0" | < | > | | |
| | · / | Check out authorisation for remote compu | | | |
| | Load workstation configuration | Check out authorisation for remote compt | iter | | |
| | Load user configuration | Commuter license: Validity in days | 1 60 | | |
| | | | | | |
| | | | Update licenses | | |
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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 | | | - | × |
|---|--|---|--|---|
| Tools | | | | |
| License Activator Standalone License Info Cor | muter License Remote Locking Code Install Remote A | uthorisation Code HiCAD Konfiguration | on HELiOS Konfiguration Server Monitor | |
| 192.168.232 | Check Server Name / IP | Search network | | |
| 192.168.232 192.169.234 192.169.234 192.169.234 192.169.234 192.169.234 192.169.234 192.169.234 192.169.234 192.169.234 192.169.234 192.169.234 192.171.162 192.171.162 192.171.162 192.171.162 192.171.162 192.171.162 192.171.162 192.171.162 192.171.162 193.172 193.172 193.172 193.172 193.172 | 9.0" 99.0" 99.0" 1393.0" 1393.0" 1393.0" 1393.0" 1393.0" 1393.0" 1393.0" 125 | Description HiCAD creator 3 2599.0 Restricted to license expiry 100 9 99 Tue Mar 31 23:59:59 2021 | | |
| I·S·D | | | | |
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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.

| | License Activator Standalone License Info Commuter License | e Remote Locking Code Install Remote Aut | norisation Code HiCAD Konfiguration HELiOS Konfigu | ration Server Monitor |
|-----|---|---|--|-----------------------|
| | 192.168.232 | Check Server Name / IP | Search network | |
| | □ | Name | Description | |
| | | License name License name on Server | HiCAD creator 3 | |
| | [004] HiCAD solution Version "2599.0" | License version | 2599.0 | |
| | | Maximum "License check OUT" duration Max. number of simultaneous users | Restricted to license expiry 100 | |
| | - [009] Sheet Metal professional Version " | Commuter tokens occupied | 0 | |
| | O10] Beams+Profiles Version "2599.0" O11] Metal Engineering Version "2599.0 | Commuter tokens free License expirv date | 99 Tue Mar 31 23:59:59 2021 | |
| | [013] Steel / Metal Engineering Version 233.0 | License expliny date | Tue Mai 31 23.33.33 2021 | |
| | [014] Steel Engineering Version "2599.0" [015] Steel Engineering / Stairs Version " | | | |
| | [016] Pipeline Isometry Version "2599.0" | | | |
| | [017] P+ID Schema Version "2599.0" [021] Free Form Surfaces Version "2599. | | | |
| | [023] Reality Studio Version "2599.0" | | | |
| | [024] Report Manager professional Versiv [027] HiCAD Unfold Version "2599.0" | | | |
| | < > | < | > | |
| | Load workstation configuration | Check out authorisation for remote compu | ter | |
| | Load user configuration | Commuter license: Validity in days | 60 | |
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| | | | Update licenses | |
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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 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.

| ISD License Mar | nager 4.0 — | × |
|-----------------|--|---|
| Tools | License Activator Standalone License Info Remote Locking Code Install Remote Authorisation Code HICAD Konfiguration HELIOS Konfiguration Revoke Server License | |
| | Identification string | |
| | Identification string of current computer: 7525730363d3c2f333832273b3a2d5257303e35666d363c38312a5257303b2530362f31 | |
| | Copy to slipboard Save as file | |
| | Send to e-mail receiver | |
| | Send identification string to E-mail receiver | |
| | E-mail address Send | |
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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.

| License Activator Standalone License Info Commuter License Remote Locking Code Install Remote Authorisation Code HEAD Konfiguration HELIOS Konfiguration Server Monitor 122.188.232 Check Server Name / IP Search network 0011 Piot Manager Version "2599.0" Check Server Name / IP Search network 0010 HCAD Coasic Version "2599.0" Check Server Name / IP Search network 0010 HCAD Version "2599.0" Check Server Name / IP Search network 0010 HCAD Version "2599.0" Check Server Name / IP Search network 00101 HCAD Version "2599.0" Check Server Name / IP Search network 00101 HCAD Version "2599.0" Check Server Name / IP Search network 00101 HCAD Version "2599.0" Check Server Name / IP Search network 00101 Boesinghout Oracia Version "2599.0" Check Server Name / IP Search network 01011 Metal professional Version "2599.0" Commuter Ichers Cocupid O 01011 Metal Engineering Version "2599.0" Commuter Ichers Server '259.0" Commuter Ichers Server '259.0" 01011 Stoal Engineering Version "2599.0" | 192.168.232 Image: Second Se | 192.168.232 Check Server Name / IP Search network Image: Second Seco | D License Mar | | | | | > |
|---|---|---|---------------|--|---|--|---------------------------------------|---|
| 192 168,223 0 10011 Plot Manager Version "2599.0" 0 10020 HiCAD classic Version "2599.0" 0 10030 HiCAD solution Version "2599.0" 0 10041 HiCAD solution Version "2599.0" 0 10019 HiCAD vir/Av Version "2599.0" 0 10019 HiCAD vir/Av Version "2599.0" 0 10019 Sheet Mata professional Version "2599.0" 0 10019 Sheet Mata professional Version "2599.0" 0 10111 Metal Engineering Version "2599.0" 0 1013 Steel / Metal Engineering Version "2599.0" 0 1013 Steel / Metal Engineering Version "2599.0" 0 1013 Steel Engineering Version "2599.0" 0 1013 Steel Engineering Version "2599.0" 0 1013 Fiel Engineering Version "2599.0" 1023 Field Value Studio Version "2599.0 | Image: Second | Image: Section 22:00:23 Image: Section 22:09:01 Image: Section 2:00:01 Pick Analysis Pick Analysis Image: Section 2:01:01 Pick Analysis Pick Analysis Image: Section 2:01:01 Pick Analysis Pick Analysis Image: Section 2:01:01 Pick Analysis Pick Analysis Image: Section 2:02:01 Pick Analysis Pick Analys | | License Activator Standalone License Info Commuter License | Remote Locking Code Install Remote Aut | norisation Code HiCAD Konfiguratio | n HELiOS Konfiguration Server Monitor | |
| Image: | Image: Westion "2599 0" HickDo creator Image: Westion Westion "2599 0" HickDo creator Image: Westion "2599 0" HickDo creator Image: Westion Westion "2599 0" HickDo creator Image: Westion Westion "2599 0" HickDo creator </td <td>Image: Image: Image:</td> <td></td> <td>192.168.232</td> <td>Check Server Name / IP</td> <td>Search network</td> <td></td> <td></td> | Image: | | 192.168.232 | Check Server Name / IP | Search network | | |
| | Load workstation configuration Commuter license: Validity in days 1 60 | Load workstation configuration Commuter license: Validity in days 1 60 | | [001] Piot Manager Version "2599.0" [002] HiCAD classic Version "2599.0" [003] HiCAD creator Version "2599.0" [004] HiCAD creator Version "2599.0" [004] HiCAD solution Version "2599.0" [006] Design Automation Version "2599.0" [008] Design Automation Version "2599.0" [009] Sheet Metal professional Version "2599.0" [011] Metal Engineering Version "2599.0" [011] Metal Engineering Version "2599.0" [013] Steel A Metal Engineering Version "2599.0" [014] Steel Engineering Version "2599.0" [015] Steel Engineering Version "2599.0" [016] Pipeline Isometry Version "2599.0" [017] Pit-D Schema Version "2599.0" [021] Free Form Surfaces Version "2599.0" [022] Reality Studio Version "2599.0" [024] Report Manager professional Versis [024] Report Manager profes | License name License name on Server License version Maximum "License check OUT" duration Max, number of simultaneous users Commuter tokens occupied Commuter tokens free License expiry date | HiCAD creator 3 2599.0 Restricted to license expiry 100 0 99 Tue Mar 31 23:59:59 2021 | | |
| | | | | | Commuter license: Validity in days | 1 60 | | |
| | | | | | | Update licenses | | |
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| Update licenses | S-1 | Sell | 00 | | | | | |
| Update licenses | S·D | S·D | | | | | | |

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.

| ISDLicenseManager | × |
|--|---|
| 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.

| icense Activator Standalone Lucense Info Commuter Lucense Remote Locking Code Install Remote Authorisation Code HEAD Konfiguration Revoke Server Luce Pende authorisation Code Enter remote authorisation code Enter remote authorisation code Remote authorisation code Renote authorisation code Enter remote authorisation code Install remote commuter License Install remote commuter License On Read authorisation file Install remote commuter License Install remote commuter License | License Activator Standalone License Info Commut | ar License Remote Locking Code | Install Remote Authorisation Code | HiCAD Konfiguration | ELIOS Konfiguration | Davoka Sarvar Licar |
|---|--|---------------------------------|-----------------------------------|---------------------|------------------------|---------------------|
| C Enter remote authorisation code Remote authorisation code | | er License Remote Locking Code | | HICAD Koningulation | ILLIOS Konngaradon - I | CEVORE BEIVEI LICEI |
| | | | | | | |
| Remote authorisation file C:\Users\qs\Desktop\RemoteLicCode.lic | | | | | | |
| Remote authorisation file C:\Users\qs\Desktop\RemoteLicCode.lic | | | | | | |
| Remote authorisation file C:\Users\qs\Desktop\RemoteLicCode.lic | | | | | | |
| Remote authorisation file C:\Users\qs\Desktop\RemoteLicCode.lic | | | | | | |
| C:\Users\qs\Desktop\RemoteLicCode.lic | | | | | | |
| | | | _ | | | |
| Install remote commuter license | C:\Users\qs\Desktop\RemoteLicCode.lic | | | | | |
| | | Install remote commuter license | | | | |
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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.

| Info | | Х |
|------|--------------------------------------|---|
| | Installation successfully completed. | |
| | ОК |] |

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

| | C:\ProgramData\ISD Software und Sy | | | | |
|-----|------------------------------------|------------------|--------------------------|----------|--|
| | | | ZYIJS4NEN/JNODJAB | | |
| | | | | | |
| | | | | Activate | |
| Lic | ense information | | | | |
| | icenses issued by : IS | D Software und ! | Susteme GmbH | | |
| | icenses issued to: | | | | |
| | ICENSES ISSUED (D. | | | | |
| ł | Modules | Version | Valid until: | | |
| 1 | [002] HiCAD classic | 2599.0 | Tue Mar 31 23:59:59 2020 | | |
| | [028] HELIOS ERP Connect | 2599.0 | Tue Mar 31 23:59:59 2020 | | |
| | [108] Unigraphics Write | | Tue Mar 31 23:59:59 2020 | | |
| | [110] Inventor Write | | Tue Mar 31 23:59:59 2020 | | |
| 1 | [132] HELIOS Vault Client | 2599.0 | Tue Mar 31 23:59:59 2020 | | |
| [| [132] HELIOS Vault Client | 2599.0 | Tue Mar 31 23:59:59 2020 | | |
| [| [150] HELiOS Spooler | 2599.0 | Tue Mar 31 23:59:59 2020 | | |
| [| [150] HELiOS Spooler | 2599.0 | Tue Mar 31 23:59:59 2020 | | |
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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 License Server HELiOS Office and HELiOS Engineer licenses are available. On one Client, HELiOS is to be started with a HELiOS Office license; on another Client, with a HELiOS Engineer 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 HELiOS configuration tab will be displayed before the start of 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 Mar | ager 4.0 | | | | | <u></u> | \times |
|-----------------|---|---------------------|-----------------------------------|---------------------|----------------------|----------------|----------|
| Tools | | | | | | | |
| | License Activator Standalone License Info Commuter License | Remote Locking Code | Install Remote Authorisation Code | HiCAD Konfiguration | HELiOS Konfiguration | Server Monitor | |
| | Display available modules for: Network (server) Lic Standalone (workstation) | | | | | | |
| 5 | Module structure HELiOS Viewer HELiOS Office HELiOS Engineer HELiOS Trainee suite | | | | | | |
| | Workstation Configuration | | | | | | |
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On the **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 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 HELiOS is started, the selection window with the saved configuration is always displayed.

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

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**.

| | | | | I | | | | | |
|-------------------|---------------------------|----------------------|---------------------|---------------------|----------------|---------------------|----------------------|----------------|--|
| License Activator | Standalone License Info | Commuter License | Remote Locking Code | Install Remote Auth | orisation Code | HiCAD Konfiguration | HELIOS Konfiguration | Server Monitor | |
| ▲ SRV001 (149 | .16.149) | | | | | | | | |
| E [001] HiC | AD Spooler , Version 2 | 599.0 , (1 / 100) | | | | | | | |
| ▷ [002] HiC | AD Classic , Version 25 | 99.0 , (1 / 100) | | | | | | | |
| ▷ [003] HiC | AD Creator , Version 2 | 599.0,(1/100) | | | | | | | |
| ▲ [004] HiC | AD Solution , Version 2 | 599.0 , (18 / 100) | | | | | | | |
| Client | t : qs:1 | Host : Test-10 | Start : 24. | 01.2020 08:18:16 | Commuter | : False | | | |
| Client | t : FR:1 | Host : DE73 | Start : 24. | 01.2020 08:17:08 | Commuter | : False | | | |
| Client | t : CS:1 | Host : DE55 | Start : 24. | 01.2020 08:16:54 | Commuter | : False | | | |
| Client | t:ea:1 | Host : P62 | Start : 24. | 01.2020 08:16:30 | Commuter | : False | | | |
| Client | t : SG:1 | Host : DE49 | Start : 24. | 01.2020 08:15:27 | Commuter | : False | | | |
| Client | t : mk:1 | Host : DE57 | Start : 24. | 01.2020 08:14:21 | Commuter | : False | | | |
| Client | t: HA:1 | Host : DE36 | Start : 24. | 01.2020 08:13:57 | Commuter | : False | | | |
| Client | t : HM:1 | Host : DE16 | Start : 24. | 01.2020 08:00:46 | Commuter | : False | | | |
| Client | t : qs:1 | Host : Test-11 | Start : 24. | 01.2020 07:58:20 | Commuter | : False | | | |
| Client | t : Tester:1 | Host : Test-04 | Start : 24. | 01.2020 07:50:14 | Commuter | : False | | | |
| Client | t:ap:1 | Host : DE28 | Start : 24. | 01.2020 07:42:33 | Commuter | : False | | | |
| Client | t : Tester:1 | Host : Test-02 | Start : 24. | 01.2020 07:37:32 | Commuter | : False | | | |
| Client | t : MH:1 | Host : DE64 | Start : 24 | 01.2020 07:30:01 | Commuter | : False | | | |
| Client | t : cm:1 | Host : DE53 | Start : 23. | 01.2020 17:33:33 | Commuter | : False | | | |
| Client | t : sm:1 | Host : DE68 | Start : 23. | 01.2020 17:31:31 | Commuter | : True | | | |
| Client | t : IS:1 | Host : DE62 | Start : 23. | 01.2020 16:44:56 | Commuter | : False | | | |
| Client | t : MD:1 | Host : DE04 | Start : 23. | 01.2020 14:59:22 | Commuter | : False | | | |
| Client | t : MM:1 | Host : DE21 | Start : 23. | 01.2020 08:03:56 | Commuter | : False | | | |
| ▶ 10671 SDI | NF . Version 2599.0 . (1 | 7 / 100) | | | | | | | |
| | X , Version 2599.0 , (17 | | | | | | | | |
| | LiOS Dokumentenverwa | | 9.0 (0/100) | | | | | | |
| | LiOS Viewer , Version 25 | | ,(.,, | | | | | | |
| | t : HM:1 | Host : DE16 | Start : 24 | 01.2020 08:00:47 | Commuter | : False | | | |
| [0711 HE | LiOS Bauteile- und Stüc | klistenmanagement | Version 2599.0 (0) | (100) | | | | | |
| | LiOS Maskeneditor , Ve | | | | | | | | |
| | LiOS Office , Version 25 | | | | | | | | |
| | LiOS Engineer , Version | | | | | | | | |
| | LiOS Engineer , Version | | | | | | | | |
| | t : ea:1 | Host : P62 | Start : 24. | 01.2020 08:16:31 | Commuter | : False | | | |
| | t : SG:1 | Host : DE49 | | 01.2020 08:15:27 | Commuter | | | | |
| | t : HA:1 | Host : DE36 | | 01.2020 08:13:57 | Commuter | | | | |
| | t : HM:1 | Host : DE16 | | 01.2020 08:00:47 | Commuter | | | | |
| | t:ap:1 | Host : DE28 | | 01.2020 07:42:33 | Commuter | | | | |
| | t : IS:1 | Host : DE62 | | 01.2020 16:44:56 | Commuter | | | | |
| | t : BD:1 | Host : DE66 | | 01.2020 14:01:53 | Commuter | | | | |
| | t : qs:1 | Host : Q5 | | 01.2020 09:08:13 | Commuter | | | | |

Theft of a Workstation

The user is responsible for appropriately insuring the 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

- HELiOS at a Glance
- Start HELiOS
- What's New in Version 2020?

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 in the \HELiOS\exe directory or via the HELiOS

icon 🖄 on the Desktop of your computer.

Default setting is the project-independent start. Please note that the list view in the right-hand window will not be shown when you start HELiOS Desktop for the first time. Select a project first and display the list view via **View** and then **Lists**.

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 win-

dow again at any time and change the display option by clicking on the VV symbol at the top right and selecting Show news.

Login

The HELiOS User Management is based on the User Management of Windows. If several users are registered with the same Windows User Name in EDBSETUP, a login mask will appear when starting HELiOS Desktop.

| Login/Logout | |
|-----------------------|-------|
| Administrator | - |
| 🛱 PDM-Administratoren | - |
| - Active project | |
| Project-independent | 🔋 |
| | |
| - Active folder | |
| Folder-independent | 🞾 |
| | |
| - Settings | |
| | |
| END | LOGIN |

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 will be opened after starting HELiOS Desktop, you need to specify a Start Project. On the Ribbon, activate the **Tools** tab, then select **Options**, activate in the dialogue the **General** tab and choose a start project.

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 2020?

An extensive overview of all changes and enhancements of HiCAD 2020 can be found in the **What's new?** topic of the Help. You can also click on the **NEUO** button in the Help.

An overview in PDF format will be displayed if you click on the **PDF** button in the Download area of the ISD Wiki.

How to Use the Help

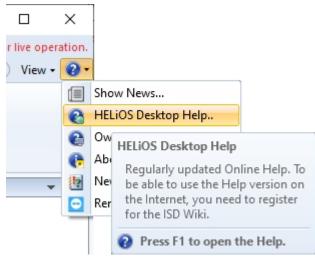
The Online Help provides you with information, descriptions and examples on all functions and techniques which are available in HELiOS.



The scope of available functions may vary, depending on the configuration of your HELiOS product. This means that some of the functions described in the Online Help may not be available in your version.

The Help is available both locally (status of the installation DVD) and on the Internet (regularly updated) at help.isdgroup.com. Both versions of the Help can be called from HELiOS.





Choose > HELIOS Options to determine which version of the Help will be used.

Please 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's new company Wiki 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.

| ISID | ٢ | | | About us News 🔪 +49-(0)231-9793-0 DE EN |
|--|-----------|---------------------|---------------------|---|
| THE WORLD OF CAD A | | Further Information | Back to ISD Website | |
| Overview Version 2015 Version 2014 Version 2013 Version 2012 | | | | |
| ISD Online Login | Help | | | |
| Username * | | | | |
| Password | | | | |
| > | | Login | | |
| Not yet a mem | ber? Sian | ШD | | |

After clicking **Sign up** in the Login window of the Online Help, enter the data required for the ISD Wiki in the dialogue window. Confirm the security prompt and click the **Sign up** button.

| ISD · Wiki | | | | | THE WORLD OF CAD AND POM SOLUTIONS |
|------------------|-------|-----------|----------|---|------------------------------------|
| A | | | | | |
| Product know-how | Forum | Brochures | Download | ? | |

| Full Name | | |
|------------------|---------|---|
| Email | | |
| Username | | |
| Password | | |
| Confirm Password | | |
| | offitng | ٦ |
| | Sign up | |

After successful registration the dashboard of the ISD Wiki 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.

If you could not be identified as an ISD customer, please perform the steps described in the message.

🗼 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 **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 Fax, E-mail 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.

| | Germany | Netherlands | Austria | Switzerland | | | |
|------------------|---|---|---|---|--|--|--|
| Phone | +49 (0)231 9793-166 | +31 (0)73 6153-888 | +43 (0)732 21 04 22- 28 | +41 (0)32 624 13-47 | | | |
| E-Mail | support@isdgroup.com | | | | | | |
| Service hours | From Monday to Thursday: between 8:00 am and 5:00 pm | From Monday to Fri- day: between 8:00 am and 5:00 pm | From Monday to Thursday: between 8:00 am and 5:00 pm | From Monday to Thursday: between 8:00 am and 5:00 pm | | | |
| | On Friday: between 8:00 am and 3:00 pm | | On Friday: between 8:00 am and 3:00 pm | On Friday: between 8:00 am and 3:00 pm | | | |

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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ISD Software und Systeme GmbH

Hauert 4 44227 Dortmund Germany Tel. +49 (0)231 9793-0 Fax +49 (0)231 9793-101 info@isdgroup.de

ISD Berlin

Paradiesstraße 208a 12526 Berlin Germany Tel. +49 (0)30 634178-0 Fax +49 (0)30 634178-10 berlin@isdgroup.de

ISD Hamburg

Strawinskystraße 2 25337 Elmshorn Germany Tel. +49 (0)4121 740980 Fax +49 (0)4121 4613261 hamburg@isdgroup.de

ISD Hannover

Hamburger Allee 24 30161 Hanover Germany Tel. +49 (0)511 616803-40 Fax +49 (0)511 616803-41 hannover@isdgroup.de

ISD Nürnberg

Nordostpark 7 90411 Nuremberg Germany Tel. +49 (0)911 95173-0 Fax +49 (0)911 95173-10 nuernberg@isdgroup.de

ISD Ulm

Wilhelmstraße 25 89073 Ulm Germany Tel. +49 (0)731 96855-0 Fax +49 (0)731 96855-10 ulm@isdgroup.de

www.isdgroup.com

ISD Austria GmbH

Hafenstraße 47-51 4020 Linz Austria Tel. +43 (0)732 21 04 22-0 Fax +43 (0)732 21 04 22-29 info@isdgroup.at

ISD Benelux b.v.

Het Zuiderkruis 33 5215 MV 's-Hertogenbosch The Netherlands Tel. +31 (0)73 6153-888 Fax +31 (0)73 6153-899 info@isdgroup.nl

ISD Benelux b.v.

Grote Voort 293A 8041 BL Zwolle The Netherlands Tel. +31 (0)73 6153-888 Fax +31 (0)73 6153-899 info@isdgroup.nl

ISD Schweiz AG

Rosenweg 2 4500 Solothurn Switzerland Tel. +41 (0)32 624 13-40 Fax +41 (0)32 624 13-42 info@isdgroup.ch

ISD Group USA Inc.

721 Jetton Street Two Harbour Place NC 28036 Davidson USA Tel. +1 (0)770 349 6321 usa@isdgroup.com

ISD Group USA Inc.

5126 South Royal Atlanta Drive GA 30084 Tucker USA Tel. +1 (0)770 349 6321 usa@isdgroup.com

092020_HELiOS_2502

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