# **Microsoft SQL Server 2012**

### **Installation Guide**

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## **Microsoft SQL Server 2012**

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## 1 Introduction

The HELiOS - PDM - Module (document management, component management, Workflow, etc.) are based on a relational database. Before start of HELiOS, the Microsoft SQL database control system must be installed on the server and the clients ODBC connection has to be established.

The following installation instructions refer to the installation of the German Version of SQL Server 2012 Standard Edition. Other editions may require minor variations in the installation process.

For detailed information about Microsoft SQL Server 2008, please refer to the Microsoft documentation, or the Help on the Microsoft website:

http://msdn.microsoft.com/de-de/library/ms144275.aspx

Please note that the Microsoft SQL Server 2008 only can be used with HELiOS 2008 or higher.



## 2 Installation of the Database Server

### 2.1 Installation of the Database Module

Shortly after starting the setup, the installation screen will appear as shown below:



Image1: Installation screen

On the left hand side of the screen, click Installation.



🚼 SQL Server Installation Center	
Planning Installation Maintenance	New SQL Server stand-alone installation or add features to an existing installation           Launch a wizard to install SQL Server 2012 in a non-clustered environment or to add features to an existing SQL Server 2012 instance.
Tools Resources	New SQL Server failover cluster installation Launch a wizard to install a single-node SQL Server 2012 failover cluster.
Advanced Options	Add node to a SQL Server failover cluster Launch a wizard to add a node to an existing SQL Server 2012 failover cluster.
	Launch a wizard to upgrade SQL Server 2005, SQL Server 2008 or SQL Server 2008 R2 to SQ Server 2012.
SQL Server 2012	

Image 2: Installation options

Then, on the right side of the screen, click New SQL Server stand-alone installation or add features to an existing installation.



🚼 SQL Server 2012 Setup		
Setup Support Rules		
Setup Support Rules identify prot before Setup can continue.	olems that might occur when you install SQL Server Setup support files. Failures must be corrected	
Setup Support Rules	Operation completed, Passed: 8. Failed 0. Warning 0. Skipped 0.	
	l	
	Show details >>	<u>R</u> e-run
	ОК	Cancel

Image 3: Setup Support Rules

Product updates will then be installed. Click  $\ensuremath{\textit{Next}}$  to execute the updates.



🍀 SQL Server 2012 Setup			
Product Updates Always install the latest upda	tes to enhance your SQL Server security and per	formance.	
Product Key License Terms	☑ Include SQL Server product updates		
Product Updates	Name	Size (MB)	More Information
Install Setup Files	SQL Server 2012 SP1 GDR Product Up	145	<u>KB 2793634</u>
	SQL Server 2012 SP1 GDR Setup Update	26	KB 2793634
	The Setup updates (26 MB) will be installe	d when you click Next.	
	Read our privacy statement online		
	Learn more about SQL Server product upd	lates	
			< Back Next > Cancel

Image 4: Product updates

The system will then be checked again. Eliminate any error messages that may occur. After a successful test, click Next.



🍀 SQL Server 2012 Setup		
Setup Support Rules		
Setup Support Rules identify proble before Setup can continue.	ems that might occur when you install SQL Server Setup support files. Failure	s must be corrected
Setup Support Rules Setup Role Feature Selection Installation Rules Disk Space Requirements	Operation completed. Passed: 6. Failed 0. Warning 1. Skipped 0. Hide details << <u>View detailed report</u>	<u>R</u> e-run
Error Reporting	Rule	Status
Ready to Install	Fusion Active Template Library (ATL)	Passed
Installation Progress	Previous releases of SQL Server 2008 Business Intelligence Develop	Passed
Complete	No SxS install with SQL Server "Denali" CTP0	Passed
	Consistency validation for SQL Server registry keys	Passed
	Computer domain controller	Passed
	Microsoft .NET Application Security	Passed
	🔥 Windows Firewall	Warning
	< Back	Next > Cancel Help

Image 5: System verification



Enter your product key:

🊼 SQL Server 2012 Setup		٦×
Product Key		
Specify the edition of SQL S	ierver 2012 to install.	
Product Key License Terms Product Updates Install Setup Files	Validate this instance of SQL Server 2012 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server, such as Evaluation or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. To upgrade from one edition to another, run the Edition Upgrade Wizard.            © Specify a free edition: <ul> <li>Evaluation</li> <li>Evaluation</li> <li>Evaluation</li> <li>Evaluation</li> <li>Evaluation</li> </ul>	-
	< <u>B</u> ack <u>N</u> ext > Cancel	

Image 6: Product Key



Accept the license terms:

SQL Server 2012 Setup License Terms To install SQL Server 2012	, you must accept the Microsoft Software License Terms.
Product Key License Terms Product Updates Install Setup Files	MICROSOFT SOFTWARE LICENSE TERMS         MICROSOFT SQL SERVER 2012 STANDARD         These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft         • updates,         • supplements,         • Internet-based services, and         • support services         for this software, unless other terms accompany those items. If so, those terms apply.         Image: I goept the license terms.
	<ul> <li>Send feature usage data to Microsoft. Feature usage data includes information about your hardware configuration and how you use SQL Server and its components.</li> <li>See the Microsoft SQL Server 2012 Privacy Statement for more information.</li> </ul>
	< Back Next > Cancel

Image 7: Accept license terms



🏀 SQL Server 2012 Setup \_ D × Setup Role Click the SQL Server Feature Installation option to individually select which feature components to install, or click a feature role to install a specific configuration. Setup Support Rules SQL Server Feature Installation Setup Role Install SQL Server Database Engine Services, Analysis Services, Reporting Services, Integration Services, and other features. Feature Selection  $\bigcirc$  All Features With  $\underline{D}efaults$ Installation Rules Disk Space Requirements Install all features using default values for the service accounts. Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete < <u>B</u>ack  $\underline{N}ext >$ Cancel Help

Activate the SQL Server Feature Installation option, which enables you to select individual feature roles.

Image 7: Select SQL Server Feature Installation + confirm with Next



Select the features to be installed and confirm with Next.

🎲 SQL Server 2012 Setup		
Feature Selection Select the Standard features to in	stall.	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Eeatures:         Instance Features         Ø Database Engine Services         SQL Server Replication         Full-Text and Semantic Extractions for Search         Data Quality Services         Analysis Services         Reporting Services - Native         Shared Features         Reporting Services - SharePoint         Reporting Services - SharePoint         Data Quality Client         SQL Server Data Tools         Client Tools Connectivity         Integration Services         Client Tools Backwards Compatibility         Client Tools SDK         Documentation Components         Management Tools - Complete         Distributed Replay Controller         Select All         Unselect All         Shared feature directory (x86):         C:\Program Files (x86)\Microsoft SQ	Feature description:         Includes the Database Engine, the core service for storing, processing and securing data. The Database Engine provides controlled access and rapid transaction processing and also provides rich support for sustaining high availability. The Database Engine also provides support for the utility control point in the SQL Server Utility, Only Database Engine Services and Analysis         Prerequisites for selected features:         Already installed:         Windows PowerShell 2.0         Microsoft .NET Framework 3.5         To be installed from media:         Microsoft Visual Studio 2010 Shell         Image: Server list of the list of
	<u>&lt;</u> 8	ack Next > Cancel Help

Image 8: Feature selection



In the dialogue shown below, specify the name of the SQL Server instance. Activate the **Default instance** option.

🍀 SQL Server 2012 Setup					
Instance Configuration Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.					
Setup Support Rules Setup Role Feature Selection	<ul> <li>Default instance</li> <li>Named instance:</li> </ul>	MSSQLSERVER			
Installation Rules Instance Configuration Disk Space Requirements Server Configuration	Instance <u>I</u> D: Instance <u>r</u> oot directory:	MSSQLSERVER C:\Program Files\Micros	oft SQL Server\		
Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install	SQL Server directory: Installed instances:	C:\Program Files\Micros	oft SQL Server\MSSQL1	1.MSSQLSERVER	
Installation Progress Complete	Instance Name	Instance ID	Features	Edition	Version
			< <u>B</u> ack	Next > Canc	el Help

Image 9: Instance configuration



An overview is shown of the disk space requirements is shown:

🎲 SQL Server 2012 Setup				
Disk Space Requirements				
Review the disk space summary	for the SQL Server features you selected.			
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration <b>Disk Space Requirements</b> Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Disk Usage Summary:			
	< <u>B</u> ack <u>N</u> ext > Cancel	Help		

Image 10: Disk space requirements



Then define under which service accounts the services are to be launched.

Apply the settings shown below.

🎲 SQL Server 2012 Setup				
Server Configuration				
Specify the service accounts and co	ollation configuration.			
Setup Support Rules Setup Role Feature Selection	Service Accounts Collation	a separate account for each SQL Se	rver service.	
Installation Rules	Service	Account Name	Password	Startup Type
Instance Configuration	SQL Server Agent	NT Service\SQLSERVERAG		Automatic 📃
Disk Space Requirements	SQL Server Database Engine	NT Service\MSSQLSERVER		Automatic 🗾
Server Configuration	SQL Server Browser	NT AUTHORITY\LOCAL SE		Automatic 🗾
Database Engine Configuration				
Error Reporting				
Installation Configuration Rules				
Ready to Install				
Installation Progress				
Complete				
		< <u>B</u> ack	<u>N</u> ext >	Cancel Help

Image 11: Server configuration, Service accounts



After clicking **Next**, specify the authentication mode. Select the **Mixed mode**. Enter the password for the internal database administrator (sa). In the **Specify SQL Server administrators** field, enter the current user and the group of Windows - Administrators.

🊼 SQL Server 2012 Setup	
Database Engine Confi	guration
Specify Database Engine authentic	ation security mode, administrators and data directories.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration <b>Database Engine Configuration</b> Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Server Configuration       Data Directories       FILESTREAM         Specify the authentication mode and administrators for the Database Engine.       Authentication Mode <ul> <li>Windows authentication mode</li> <li>Mixed Mode (SQL Server authentication and Windows authentication)</li> </ul> Specify the password for the SQL Server system administrator (sa) account.           Enter password:         •••••••           Cgnfirm password:         •••••••           Specify SQL Server administrators           Test001/qs (qs)         SqL Server administrators have unrestricted access to the Database Engine.           Add Current User         Add         Bemove           Add Current User         Add         Bemove           Engine         •••••••         •••••••
	< <u>B</u> ack <u>N</u> ext > Cancel Help

Image 12: Authentication mode



In the following dialogue you have the possibility to send error and usage reports to Microsoft. Select the desired settings.

🚼 SQL Server 2012 Setup	
Error Reporting	
Help Microsoft improve SQL Serve	er features and services.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration <b>Error Reporting</b> Installation Configuration Rules Ready to Install Installation Progress Complete	Specify the information that you would like to automatically send to Microsoft to improve future releases of SQL         Server. These settings are optional. Microsoft treats this information as confidential. Microsoft may provide updates through Microsoft Update to modify feature usage data. These updates might be downloaded and installed on your machine automatically, depending on your Automatic Update settings.         See the Microsoft SQL Server 2012 Privacy Statement for more information.         Read more about Microsoft Update and Automatic Update.         Image: Send Windows and SQL Server Error Reports to Microsoft or your corporate report server. This setting only applies to services that run without user interaction.
	< <u>B</u> ack <u>N</u> ext > Cancel Help

Image 13: Error and usage reporting



🊼 SQL Server 2012 Setup \_ 🗆 🗵 Installation Configuration Rules Setup is running rules to determine if the installation process will be blocked. For more information, click Help. Operation completed. Passed: 4. Failed 0. Warning 0. Skipped 0. Setup Support Rules Setup Role Feature Selection <u>S</u>how details >> <u>R</u>e-run Installation Rules Instance Configuration View detailed report Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rul... Ready to Install Installation Progress Complete < <u>B</u>ack  $\underline{N}ext >$ Cancel Help Image 14: Installation configuration rules

Then, an overview of installation configuration rules will be displayed. Confirm with Next.



Now an overview follows of all the settings which have been made by the user. Click **Install** to start the installation of the SQL Server 2012.

🎲 SQL Server 2012 Setup	
Ready to Install Verify the SQL Server 2012 feat	ures to be installed.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules <b>Ready to Install</b> Installation Progress Complete	Ready to install SQL Server 2012:         Summary         Edition: Install (Product Update)         Prerequisites         Atready installed:         Windows PowerShell 2.0         Microsoft .NET Framework 3.5         To be installed from media:         Microsoft .NET Framework 4.0 (may require reboot)         Microsoft Visual Studio 2010 Shell         General Configuration         Preatures         Management Tools - Basic         Management Tools - Complete         Instance Name: MSSQLSERVER         Instance ID:         Microsoft SQL Database Engine: MSSQLSERVER         SQL Database Engine: MSSQLSERVER         Instance Directory: C:\Program Files\Microsoft SQL Server\         Shared component root directory         Configuration file path:         C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20130712_113700\ConfigurationFile.inl
	< <u>B</u> ack Install Cancel Help

Image 15: Ready for installation



After successful installation, additional information and the status of functions will be displayed. Click **Close** to finalize the installation.

🚼 SQL Server 2012 Setup		
Complete		
Your SQL Server 2012 installati	on completed successfully with product updates.	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration	Information about the Setup operation or possi Feature Management Tools - Complete Management Tools - Basic Database Engine Services SQL Browser SQL Writer SQL Client Connectivity SQL Client Connectivity SDK	ble next steps: Status Succeeded Succeeded Succeeded Succeeded Succeeded Succeeded Succeeded Succeeded Succeeded
Installation Configuration Rules Ready to Install Installation Progress <b>Complete</b>	Details: Viewing Product Documentation for Only the components that you use to v been installed. By default, the Help Vie Server, you can use the Help Library M local computer. For more information, s <http: ?linkid<br="" fwlink="" go.microsoft.com="">Microsoft Update Summary log file has been saved to the followi Ci\Program.Files\Microsoft SQL_Server\110\Se (Summary Test001_20130712_113700.txt)</http:>	r SQL Server iew and manage the documentation for SQL Server have wer component uses the online library. After installing SQL anager component to download documentation to your see Use Microsoft Books Online for SQL Server =224683>. ▼ ing location: tup Bootstrap\Log\20130712_113700
		Close Help

Image 16: Finalize installation



## 3 Setting Up the SQL Server 2012

### 3.1 Setting Up the Conditions for Database Import

To configure the SQL database, click the **Start** icon on the Windows task bar and select **All programs > Microsoft SQL Server 2012 > SQL Server Management Studio**.

In the login window, specify the server name in the same-named field. Enter SQL Server Authentication in the Authentication field, sa in the Login field and the password you specified during installation in the Password field. Click Connect.

🛃 Connect to Server	X
SQL Serv	<b>er</b> 2012
Server type:	Database Engine
<u>S</u> erver name:	(local)
Authentication:	SQL Server Authentication
Login:	sa
Password:	*****
	Remember password
Connect	Cancel Help Options >>

Image 17: Connect to server



The following window will then appear:

Microsoft SQL Server Management Studio				
Datei Bearbeiten Ansicht Debuggen Ext	ras Fenster Hilfe			
🗄 🔂 🔹 🖆 🛃 🍠 🔔 Neue Abfrage	「「「「」」、「」、「」、「」、「」、「」、「」、「」、「」、「」、「」、「」、	+	-   🙆	- I 🔩 🕾 🛠 🖬 - 📮
Objekt-Explorer       • 0. ×         Verbinden • 1.2 ×       • 0. ×         • DeDTMON (SQL Server 11.0.3128 - x)       • 0. ×         • DetTMON (SQL Server 11.0.3128 - x)       • 0. ×         • DetTMON (SQL Server 11.0.3128 - x)       • 0. ×         • DetTMON (SQL Server 11.0.3128 - x)       • 0. ×         • DetTMON (SQL Server 11.0.3128 - x)       • 0. ×         • DetTMON (SQL Server 11.0.3128 - x)       • 0. ×         • DetTMON (SQL Server 11.0.3128 - x)       • 0. ×         • Hote Verfügbarkeit mit AlwaysOn       • Verwaltung         • Hote Verfügbarkeit mit AlwaysOn       • Verwaltung         • Mengation Service-Kataloge       • SQL Server-Agent				
Bereit				

Image 18: Microsoft SQL Server Management Studio

In the left area of the window, expand the folder **Security**, right-click the **Logins** sub-folder and select **New Login** from the context menu.



Image 19: Create new login



The following window will be displayed:

🚪 Login - New			
Select a page	<u> S</u> cript 👻 📑 Help		
General Server Roles User Mapping Securables	Login <u>n</u> ame:	hicad	Sgarch
Status	<ul> <li><u>windows addrendcador</u></li> <li>COL Conversition</li> </ul>		
	Password:	•••••	
	<u>C</u> onfirm password:	•••••	
	🗖 Specjfy old password		
	<u>O</u> ld password:		
	Enforce password polic	y	
	Enforce password expir	ation	
	🔲 🛛 ser must change pass	word at next login	
	Mapped to certificate	<b>_</b>	
	C Mapped to asymmetric key		
	Map to Credential	<b></b>	Add
Connection	Mapped Credentials	Credential Provider	
Server: (local)			
Connection: sa			
View connection properties			
Progress			Remo <u>v</u> e
Ready	Default <u>d</u> atabase:	master	
	Default language:	<default></default>	
			Cancel

Image 20: Creating the User hicad

Enter **hicad** in the **Login name** field, activate the **SQL Server authentication** option and enter a password. Then, deactivate the **Enforce password policy** option and switch to the **User Mapping** menu.



🚪 Login - New				
Select a page	<u> S</u> Script 👻	📑 Help		
General				
🔄 Server Holes	Users map	ope <u>d</u> to this login:		
Securables	Мар	Database	User	Default Schema
🚰 Status		master		
		model	hicad	hicad
		msdb		
		tempdb		
	_			
	🔲 Guest	account enabled for: model		
	Database	role membership for: model		
Connection	🗆 db ac	- ·		
Server	db_ba	ckupoperator		
(local)	db_da	itareader tarunitar		
Connection:	l ⊡ db dd	Itawriter		
sa	db_de	nydatareader		
View connection properties	db_de	enydatawriter		
_	∐ db_ov	vner curituadmin		
Progress	I ub_se	canyaanin		
Ready				
				UK Cancel

Activate, as shown in the image below, the **model** database and enter hicad as the Default Schema. Confirm your entries with OK.

Image 21: User Mapping



## 4 Importing the HELiOS Database

### 4.1 Installing the HELiOS Database Creator

To install the HELiOS Database Creators click the corresponding button in the selection mask.

×	Administrator Tools	HELiOS Vault Server
$\mathbf{O}$	This component may only be installed on the License Server!	HELiOS SmartSearch Server
0	SafeNetLicense-Server	HELiOS Internet Server
	HELiOS Database Creator	HELiOS Application Server

The start mask of the setup wizard of the Helios Database Creator will be displayed.

🙀 HELiOS Database Creator	r Setup	
1.5.1	Welcome to the HELiOS Database Creator Setup Wizard	
	The Setup Wizard will install HELiOS Database Creat your computer. Click Next to continue or Cancel to e Setup Wizard.	or on exit the
	Back Next	Cancel

Image 22: Installation wizard

Click Next.



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

🖶 HELiOS Database Creator Setup	
Destination Folder Please specify the destination folder	
Install HELiOS Database Creator to:	
C:\Program Files\ISD Software und Systeme\HELiOS Database Creator	\
Change	
Back Next	Cancel

Image 23: Specify target folder

Click Next, then click Install to start the installation.





Click Finish to complete the installation of the HELiOS Database Creator.

Image 24: HELiOS Database Creator installation completed



### 4.2 Importing the Database with the HELiOS Database Creator

Click the Start icon on the Windows task bar and select All programs > ISD Software und Systeme > HELIOS Administration > HELIOS Database Creator.

After entering the user data – User: sa, the Password and the SQL Server to be connected – you will be logged in.

🔜 HELI	i05 - Datab	ase Import-/Export Tool	×
	Login	/Logout	
	User:	sa	
	Password:	•••••	
	Server:	TEST001 V Local	
		Login	
			<b>(</b>

Image 25: HELIOS Database Import/Export tool



For older versions, it was necessary to copy the empty HELiOS database from the installation DVD (\Helios\Datenbanken\MsSql80\bauteil\_sic ) to a temporary directory of the server. As of HELiOS 2014 SP1 (Version 1901.1) you can also directly import the database from the DVD to an empty directory, without this intermediate step.

The log file for the process will be saved to %*Appdata*%*RoamingISD Software und SystemeIHELiOSbauteil\_aktHelios\_Export.log* and the configuration will be saved to %*Appdata*%*RoamingISD Software und SystemeHelios.DBImportExportDBImportExportConfig.xm* 

In this guide the database name **bauteil** (German for "part") is used. Enter the export path and the database name and start the **Import** by clicking the same-named button.

Exports to directories which already contain files are no longer possible. In this case an appropriate error message will be displayed.

05 - Databas	se Import-/Export Tool
Import	/ Export
Database:	bauteil 👻
Export path:	C:\temp\bauteil_sic
	Export Import
30382 rows Network pac Clock Time ( Ende BulkIm Start BulkIm	copied. ket size (bytes): 4096 ms.) Total : 5148 Average : (5901.71 rows per sec.) port Table: BAUTDOKUREVREV port Table: bauteil
Starting copy	
0 rows copie Network pac Clock Time (	d. ket size (bytes): 4096 ms.) Total : 1
Ende BulkIm	port Table: bauteil
	Logout

Image 26: Start the import



X

05 - Databa	ie Import-∕Expo	rt Tool		
Import	/ Export			
Database:	bauteil			
Export path:	C:\temp\bauteil_si	c		
			Export	Import
Network pac Clock Time ( Ende BulkIm Start BulkIm Starting cop 0 rows copie Network pac Clock Time ( Ende BulkIm	copied. ket size (bytes): 40 ms.) Total : 514( port Table: BAUTD port Table: bauteil / d. ket size (bytes): 40 ms.) Total : 1 port Table: bauteil	96 B Average : (! OKUREVREV 96	5901.71 rows per	sec.)
		Logout		

\_

Image 27: Import log

If the import was successful, this will be indicated by a corresponding message. Confirm with OK.



Image 28 : Successful import



## 5 Defining the Permissions for the User **hicad**

Switch to the SQL Server Management Studio to define the permissions of the user hicad.

Expand the Databases folder, right-click bauteil and select the Properties function from the context menu.



Image 29: Calling the Properties of "bauteil"



🥫 Database Properties - baut	eil				L.	. 🗆 🗙
Select a page	🖳 Script 👻 📑 Help					
🚰 General						
Files	Server name:	TEST001				
Filegroups		,				
Change Tracking	view server permissions					
	Database <u>n</u> ame:	bauteil				
Extended Properties	Users or roles:				S <u>e</u> arch.	
Mirroring	- Name			Tupe		=
Transaction Log Shipping				llser		
				036		
	Fermissions for nicad:					
	Explicit Effective					
Connection	Permission	Grantor	Grant	With Grant	Deny	
Server:	Delete					
(local)	Execute					
Connection:	Insert					
sa	References					
View connection properties	Select					
	Show plan					
Progress	Subscribe query notifications					
	Take ownership					
successfully.	Update		<b>V</b>			
-	View database state					
					_	
				OK	Cano	el
						///

In the left pane of the window, select Permissions. Define the permissions for the user hicad.

Image 30: Permissions for hicad

Assign to the user **hicad** the following permissions:

- » Delete
- » Insert
- » Select
- » Update
- » Create table



## 6 Setting up the ODBC Connection

To set up the ODBC connection for the clients, click the **Start** icon on the Windows task bar and select **Control Panel > Administrative Tools > Data Sources (ODBC)**.

The ODBC data source can be set up either as a **System DSN** (by an administrator) which will be available to all users of the computer, or as a User DSN which will only be available for the user who has created it. The procedure for both options is identical.

🖏 ODBC Data Source Administrator	×
User DSN System DSN File DSN Drivers Tracing Connection Pooling About	
System Data Sources:	
Name Driver Add	
Remove	
Configure	
An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users	
on this machine, including IN I services.	
OK Cancel Apply Help	1

In the ODBC Data Source Administrator, click the Add button.

Image 31:ODBC Data Source Administrator



Name	Version	Com
SQL Server	6.01.7601.17514	Micro
SQL Server Native Client 10.0	2007.100.2531.00	Micro
SQL Server Native Client 11.0	2011.110.3000.00	Micro
•		Þ
	Name SQL Server SQL Server Native Client 10.0 SQL Server Native Client 11.0	Name         Version           SQL Server         6.01.7601.17514           SQL Server Native Client 10.0         2007.100.2531.00           SQL Server Native Client 11.0         2011.110.3000.00

In the Create Data Source dialogue window, select the SQL Server Native Client 11.0 and click Finish.

Image 32: Select ODBC driver



Now enter the name of the data source (HeliosBauteil), and enter the name of the database server or select it from the list. Confirm your entries with Next:

Cr	eate a New Data Sour	ce to SQL Server	×
		This wizard will help you create an ODBC data source that you can use to connect to SQL Server.	
	SQL Server 2012	What name do you want to use to refer to the data source?	
		How do you want to describe the data source?	
		Description:	
		Which SQL Server do you want to connect to?	
		Server: TEST001	1
		Finish Next > Cancel Help	-

Image 33: Definition of the data source



Activate the **With SQL Server authentication...** option, enter **hicad** in the **Login ID** field and your **Password** in the same-named field below.

Create a New Data Sou	rce to SQL Server 🛛 🔀
	How should SQL Server verify the authenticity of the login ID?
SQL Server 2012	○ With Integrated Windows authentication.
	S <u>P</u> N (Optional):
	$\odot$ With <u>SQL</u> Server authentication using a login ID and password entered by the user.
	Login ID: hicad
	Password:
	< <u>B</u> ack <u>N</u> ext > Cancel Help

Image 34: User input



Activate the **Change the default database to:** checkbox and select the **bauteil** database. All other options must correspond to those in the image:

Cr	eate a New Data Sour	ce to SQL Server	×
		Change the default database to:	
		bauteil	<b>-</b>
	SQL Server 2012	Mirror server:	
		S <u>P</u> N for mirror server (Optional):	
		Attach database filename:	
		☑ Use ANSI quoted identifiers.	
		Use ANSI nulls, paddings and warnings.	
		Application intent:	
		READWRITE	•
		Multi-subnet <u>f</u> ailover.	
-			
		< <u>B</u> ack <u>Next&gt;</u> Cancel Help	P

Image 35: Database selection



Create a N	lew Data Sou	rce to SQL Server	×
ŠQL Se	<b>erver</b> 2012	<ul> <li>Change the language of SQL Server system messages to:         <ul> <li>(Default)</li> <li>Use strong encryption for data</li> <li>Perform translation for character data</li> <li>Use regional settings when outputting currency, numbers, dates and times.</li> </ul> </li> </ul>	Y
		Save long running queries to the log file:      C:\Users\qs\AppData\Local\Temp\QUERY.LOG     Browse	
		Long query time (milliseconds): 30000	—
		Log ODBC driver statistics to the log file:     C:\Users\qs\AppData\Local\Temp\STATS.LOG     Browse	
		< <u>B</u> ack Finish Cancel Hel	p

Deactivate all options and click **Finish** to complete the creation.

Image 36: Settings for ODBC connection



The window below offers the option to test the data source and completely finalize the creation by clicking **OK**. The ODBC Data Source Administrator can now be closed as well.

ODBC Microsoft SQL Server Setup	x
A new ODBC data source will be created with the following configurat	ion:
Microsoft SQL Server Native Client Version 11.00.3000 Data Source Name: bauteil Data Source Description: Server: DEDTM001 Use Integrated Security: No Database: bauteil Language: (Default) Data Encryption: No Trust Server Certificate: No Multiple Active Result Sets(MARS): No Mirror Server: Translate Character Data: No Log Long Running Queries: No Log Driver Statistics: No Use Regional Settings: No Use ANSI Quoted Identifiers: No Use ANSI Null, Paddings and Warnings: No	*
Test Data Source OK Cance	+

Image 37: Testing the data source and complete finalization of the creation



## 7 Establishing the HELiOS Connection

Finally, you need to tell HELiOS the name of the data source you have defined in the previous chapter. Click the Start icon of the Windows task bar and select All Programs > ISD Software und Systeme > Administration > DB Manager. Activate the Connections tab.

HeliosDbManager		×		
General Export Import	Conversion Update Connections Tools			
Database server: MSSQL				
, Character set of database	server: O Unknown O DEM 👁 ANSI			
Connection to master	data databasa			
Connection to master				
Computer data source	HeliosBauteil			
User name / data view	hicad			
Password	*****			
Connection to parts lis	st database			
Computer data source	HeliosBauteil			
User name / data view	hicad			
Password	жжиж			
Connection to plot ma	anager database			
Computer data source HeliosBauteil				
User name / data view hicad				
Password XXXXX				
,				
Check code page Check connection Save connection				
( OK	Cancel Apply Help			

Image 47: DB Manager

#### Important notes on the DB Manager:

Please note the setting for **Character set of database server:** Here, it is important that you select the **ANSI** option. Then, activate the **Connection to master data database** checkbox and enter the previously defined name of the ODBC data source in the **Computer data source** field, **hicad** in the **User name** field, and your Password in the same-named field. The setting options for the Connection to parts list (BOM) database and the Connection to plot manager database are only there for historical reasons and are of no relevance.

Click Save connection to save your settings, then close the DB Manager with OK.

All steps required for the installation are now completed. You can now start HELiOS.



### 8 Possible source of error

If any problems should occur during import of the HELiOS Database with the HELiOS Database Creator (see Chapter 4) or with the establishing of the ODBC connection (Chapter 6), please check in the settings of the SQL Server whether the TCP/IP protocol has been disabled. This protocol needs to be enabled.

Select Start > All Programs > SQL Server 2012 > Configuration Tools > SQL Server Configuration Manager, and change the settings if required.

🚡 Sql Server Configuration Manager			
File     Action     View     Help       Image: I	Protocol Name	Statur	
<ul> <li>SQL Server Configuration Manager (Local)</li> <li>SQL Server Network Configuration (32bit)</li> <li>SQL Native Client 11.0 Configuration</li> <li>SQL Server Network Configuration</li> </ul>	Shared Memory	Enabled Disabled Enabled	

Image 39: Sql Server Configuration Manager