Restoring HELIOS 3D Backups

Any update provided by Stöhr + Sauer gets tested intensively before being released. Nevertheless, users might experience issues in their own environments that have passed our tests without notice. In these cases, our support provides help under <u>Helios3D@stoehr-sauer.de</u> or under +49 (0)2405 4137 0.

If assistance can't be provided within a suitable amount of time, e.g. outside our service times, users might need to restore the last backup before the update installation.

If the database version has been changed by the applied update, restoring the database backup with SQL Management Studio is required! This step requires specific access rights and at least basic knowledge about SQL Server management, so it should be done by an IT professional.

The current program and database versions after the update installation are mentioned on top of the Readme.txt, which is located in the main installation folder (e.g. "C:\Helios3D"). In the first lines of the document the new program version and database version are listed.

Example:

The following readme header from patch 2020.0.1.5 shows, that there was no change to the database since program version 2020.0.1.0.

New Version: 2020.0.1.5

DB Version: 2020.0.1.0

Date: 11/08/2019

Operating system: Windows 8, 8.1 und 10

AutoCAD: Autodesk AutoCAD Civil 3D 2020 (64 Bit)

So, restoring the database would only be necessary for lower program versions than 2020.0.1.0. That only affects versions with former Civil 3D version support (e.g. Helios 3D 2019.0.1.x) in this case.

The program version number ("New Version") can never be lower than the "DB Version", as logging into the database would be impossible!

Restoring the program files

This step just requires exchanging the "Bin" folder inside the main installation directory. For a standard local installation, the main directory is "C:\Helios3D".

1. Rename the current "Bin" folder, so you don't lose the updated version.

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📃 Desktop	* ^	Name	Änderungsdatum	Тур	Größe
🖶 Downloads	*	Backups	28.11.2019 15:48	Dateiordner	
📀 Nextcloud	*	📙 Bin ┥ rename	28.11.2019 15:48	Dateiordner	
. !Entwicklung	*		28.11.2019 15:48	Dateiordner	
HELIOS 3D Doku	*		11.11.2019 08:52	Dateiordner	
Helios3D Lizenzen	*	CAD	28.11.2019 15:48	Dateiordner	
Angehote + Schriftverkehr Kunden		Client Setup	28.11.2019 15:48	Dateiordner	
		Daten	28.11.2019 15:48	Dateiordner	
Helios3D2020	*	Documents	28.11.2019 15:48	Dateiordner	

2. Go to the folder "Backups", look of the correct backup and copy it to the main folder.

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3D-Objekte ^	Name	copy and rename in	to "Bin")bjekte ^	Name	Änderungsdatum	Ту
Nilder	Backups	28.11.2019 15:4	biluer	Bin_2019_11_11_#_08-52-38	28.11.2019 15:48	Da
Desktop	Bin_renamed	28.11.2019 15:4	Desktop			
Dokumente	Bitmaps 🗸	28.11.2019 15:4	🗄 Dokumente			
🖶 Downloads	BrowserExport	11.11.2019 08:5	🕹 Downloads			
h Musik	CAD	28.11.2019 15:4	b Musik			
Videos	Client Setup	28.11.2019 15:4	Videos			
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	Documents	28.11.2019 15:4	Volume (Dr)			

3. Rename the folder "Bin_date_time" into "Bin".

← → × ↑ 📙 > Die	eser PC → Lokaler Datenträger (C:) → Helios	SD >
🧊 3D-Objekte \land	Name Rin	Änderungs
📰 Bilder	Backups	28.11.2019
Desktop	Bin_2019_11_11_+_08-52-38	28.11.2019
🖆 Dokumente	Bin_renamed	28.11.2019
👆 Downloads		28.11.2019
Musik	BrowserExport	28.11.2019
Videos	CAD CAD	28.11.2019
	Client Setup	28.11.2019
Lokaler Datentr		

If no restore of the database is required, your desktop link or the start file inside the "Bin" folder should already start the old program version properly and the restore is complete.

Restoring the database

For this step you need to access the SQL Server with SQL Management Studio. This tool is required to restore a backup file for the current database catalogue.

Any Helios Update creates a backup file to the default location of the SQL Server. For local installations that means your local system, but for SQL Servers on the network the following example path means the local path on the server system!

"c:\Program Files\Microsoft SQL Server\MSSQL10_50.SQLEXPRESS\MSSQL\Backup\"

Backup Procedure:

1. Make sure that the database catalogue is not in use, so all Helios 3D instances must be closed in advance!

2. Start SQL Management Studio and log into your SQL Server. You need administrator rights, so we recommend to use the 'sa' user. You can look up the server name and database catalogue in the Helios 3D login dialogue.

🖵 Connect to Server	×
	SQL Server
Server type:	Database Engine 🗸
Server name:	schulung_sql\sqlexpress ~
<u>Authentication:</u>	SQL Server Authentication $\qquad \checkmark$
Login:	sa 🗸 🗸
Password:	••••••
	Remember password
	Connect Cancel Help Options >>

3. Select the Helios3D database after login.



4. Right-click the database catalogue and go to Tasks -> Restore -> Database.

Object Explorer ▼ ₽ Connect ~ ♥ *♥ ■ ♥ ℃ → □ ➡ schulung_sql\sqlexpress (SQL Serve	× r 12			
Helios3D Security Server Objects Replication	New Database New Query Script Database as			
	Tasks ▶ Policies ▶ Facets ▶ Start PowerShell Open in Azure Data Studio Reports ▶ Rename ▶		Detach Take Offline Bring Online Data Discovery and Classification Vulnerability Assessment Shrink Back Up	
	Refresh Properties	-	Kestore Generate Scripts Extract Data-tier Application	Database Files and Filegroups Transaction Log

5. In the upcoming dialog, select "Device" and open the selection dialogue. There you can <Add> the backup file. The correct path should be preselected.

🔀 Restore Database - Helios3D	- D X	
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Connection v# schuking_sgl*adjeupress [sa] View connection proceedies Progress		Locate Backup File - SCHULUNG, SQL/SQLEXPRESS Bockup File focation: SSQL10_50 SQLEXPRESS MS/GL/Beck G Generating Date Mosciet SQLSOver Mosciet SQLSOver Hold Nosciet SQLSOver
Dove	OK Cancel Help	e = 120 e = 00 e = 90 e =

The backup files generated by a Helios 3D update get named like this:

"Database name_#_version_#_date_#_time.bak"

Example:

Helios3D_#_2020.0.1.5_#_2020-01-09_#_09-15-05.bak"

6. The entry should be listed in the selection dialog, so you can hit <OK>.

🖛 Select backup devices		_		×
Specify the backup media and its loc	ation for your restore operation.			
Backup media type:	File ~			
Backup <u>m</u> edia:				
C:\Program Files\Microsoft SQL Serv	er\MSSQL10_50.SQLEXPRESS\/		<u>A</u> dd	
			<u>R</u> emove	
			Con <u>t</u> ents	
<	>			
	<u>O</u> K Can	icel	Help	

7. The selected backup must be listed under "Backup sets to restore" now, so you can just hit <OK> as well.

Restore Database - Helios3D						- 1) ×
🕕 Ready							
Select a page Select a page Select a page Select a page Select a page Select a page Select a page Select a page Select a page Select a page Select a page Select a pag	 Cript General Help Source Database: Dgvice: Dgtabase: Dgtabase: Destination Database: Restore to: Restore plan Backup sets to restore: Restore Name Helios3D-Full Database 	C:\Program File Helios3D Helios3D The last backu	es\Microsoft Si up taken (Wed Component Database	QL Serve	er\MSSQL10_50.SQLEXPRESS\MSS September 10, 2014 11:57:22 AM) Server SCHULUNG_SQL\SQLEXPRESS	QL\Backt In Database Helios3D	v meline Position
y₩ schulung_sql\sqlexpress [sa]							
View connection properties							
Progress	<						>
Done Done					[Verify Back	up Media
					OK Car	ncel	Help

If you restore the database backup under a new database name, you should check if the MDF and LDF files on the page "Files" get renamed properly! Otherwise files of existing database might get overwritten.