

Installation of Geotec

Major version of Geotec

Geotec can be installed on local workstation or on a server (server station).

1. Installation on a workstation

Installation on a local workstation allows faster access to the software. Follow the installation steps on a local drive.

2. Installation on a server

The network installation allows updates to be done only at one location. Users will have access to Geotec through shortcuts on their workstation.

Create a directory on the server where Geotec will be installed and from which a mapping can be generated for your users. The users will have full privilege access to that directory. For example, create "C:\Sobek\" where Geotec will be installed. Then, follow the installation steps on the server.

3. Installation steps

1. Download the Geotec 8.12.0 major version.
2. Execute Geotec812_Eng.exe.
3. The welcome window of the *InstallShield Wizard for Geotec 8.12* is displayed. Click **Next**.
4. The licence agreement is displayed. Read, accept and click **Next**.
5. Accept or correct the client information and click **Next**.
6. The target folder C:\Geotec\ is proposed by default.
 - a. To install Geotec, accept or modify this folder by clicking **Change...**
 - b. To install on a workstation the client portion that will point to the Geotec installation on the network, indicate where Geotec is installed by clicking **Change...**
 - c. On the target folder is specified, click **Next**.
7. Select the type of installation:
 - a. **Default** for a complete installation of Geotec on a workstation or server.
 - b. **Workstation** for a station connected to a network (after Geotec has been installed on this network)
 - c. **Custom** to select specific elements.
 - d. Once the type of installation is selected, click **Next**.

8. For a default or workstation installation, a summary is displayed. Click on **Install**. Skip the following step 9.
9. For a custom installation, all Geotec functions are displayed in a linear tree structure. All functions are selected by default.

It is only possible to remove a function from being installed. To do so, click on the icon left of the function and select the red X (*this function will not be installed*).

When the customizing is done, click **Next**. A summary is displayed. Click **Install** if everything is correct.

10. For a **default** or a **custom** installation, directories, shortcuts, files and parameters are then created. For a **workstation** installation, only the shortcuts and parameters are created.

Update of Geotec

The use of new Geotec updates requires a valid GeoPlus contract on the date of the version. All updates include the previous versions.

1. Installation steps for updates

1. Download the update to install
2. Close all Geotec modules. If the installation is on server, it is important to close the Geotec modules on all workstations connected to the server.
3. Copy the Geotec\Bin directory as backup
4. Unzip the update in Geotec\Bin by replacing the existing files

2. Steps for database update

1. Launch DBM
2. Select the task "Update your database"
3. Select the database
4. Click on Execute
5. Accept the table groups by clicking OK

ODBC link

All Geotec modules connect to a database. An ODBC link must be established for the modules to connect to it.

1. ODBC for Access or SQLite

During installation, a connection string is entered as argument in the **Target** field of the shortcut properties of the Geotec modules. This connection string uses the **Geotec_Access** ODBC link. By having

an ODBC link in the connection string, the last database opened, whether Access or SQLite, will connect to it.

The user can validate the ODBC links or create new ones via the ODBC Data Source Administrator (32-bit) of Windows.

1. Go to the User DSN tab
2. Verify if the ODBC link exists and if it points to a valid database, via **Configure....** or
3. Add a new ODBC link via **Add**, then select the Microsoft Access Driver (*.mdb) or SQLite3 ODBC Driver, the name of the data source and the associated database.

2. SQLite driver

To use **SQLite (.db3)** databases, the SQLite ODBC driver must be installed on the workstation. To do so, from the workstation, launch **sqliteodbc.exe** from the Geotec\Config directory (on the server or the local disk).

3. ODBC for SQL Server or Oracle

To connect to an SQL Server or Oracle database, an ODBC link must exist. This ODBC link will be used in the connection string entered as argument in the **Target** field of the shortcut properties of the Geotec modules.

1. Open the ODBC Data Source Administration (32-bit) of Windows
2. Go to the User DSN tab
3. Click on Add
4. For SQL Server:
 - a. Select the correct driver: SQL Server, SQL Server Native Client 11.0 or another
 - b. Enter the name of the data source
 - c. Enter the name of the server where the Geotec database is installed
 - d. Indicate the type of SQL Server authentication used
 - e. Keep the default database as the Geotec database
 - f. Finish and test the data source
5. For Oracle:
 - a. Select the Microsoft ODBC for Oracle driver
 - b. Enter the name of the data source
 - c. Enter the user name
 - d. In the Server field, enter the connection chain (alias) defined in the tnsnames.ora file of the Oracle installation on the workstation
 - e. Click OK

4. DSNCreate tool for SQL Server

The **DSNCreate.exe** file in the Geotec\Config directory is used to automatically create the ODBC data source for an SQL Server database. You must edit the **DSNParam.txt** file found in the same Geotec\Config directory.

Both files (DSNCreate.exe and DSNParam.txt) must absolutely be together in the same directory.

1. Enter the name of the user data source after **DSN=**
2. Enter the name of the server after **Server=**
3. Enter the name of the Geotec database on the server after **Database=**
4. Confirm the names of the SQL drivers to use after **Drivers name=**
5. Enter a description of the data source
6. Indicate “Yes” for Windows authentication, or “No” for SQL Server authentication after **Trusted_Connection=**

When the DSNParam.txt file is completed, **launch DSNCreate.exe with DSNParam.txt as argument** on each workstation that will require an access to the Geotec database on SQL Server.

Work environment in the registry

When closing a Geotec module, the work environment is saved in the registry of the workstation, and includes:

- names and directories of the last databases and data files;
- names and directories of the last style, marker, pattern and logo files;
- customizing of entry forms;
- default drawing attributes;
- etc.

The information in the registry will be used next time the module is opened. The registry parameters are found in this tree structure:

HKEY_CURRENT_USER\Software\SOBEK

1. HKLM parameter for HKEY_LOCAL_MACHINE

For specific cases where a computer is used by several users (ex: computer rooms at university), it may be better to read the registry parameters in the HKEY_LOCAL_MACHINE tree (for the computer) instead of the HKEY_CURRENT_USER tree (for the user).

To do so, add the HKLM parameter as argument in the Target of the module shortcuts:

C:\Geotec\bin\Log.exe geotec/sobek@geotec_access **HKLM**

Then, Geotec will read the values in HKEY_LOCAL_MACHINE, followed by HKEY_CURRENT_USER if they don't exist at the first place.

Note that the variables are only saved in HKEY_CURRENT_USER. In HKEY_LOCAL_MACHINE, only parameter reading is done. The insertion of parameters in HKEY_LOCAL_MACHINE can only be done through a .reg file.