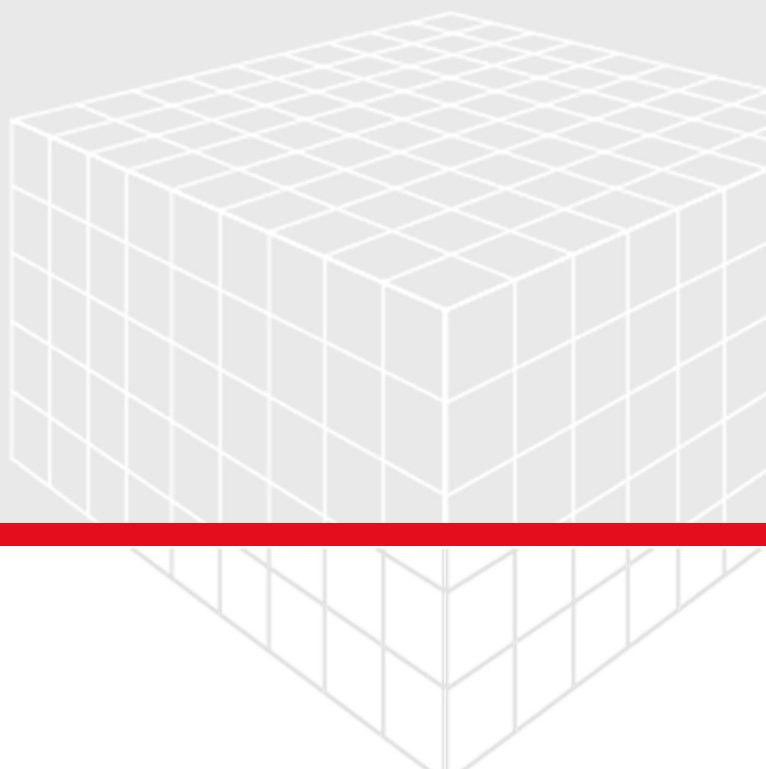


Installation & Licensing

User Guide

GEODICT Release 2026

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GEODICT

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Installation & Licensing

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1 Installation & Licensing

The necessary files to install GeoDict on your computer can be downloaded from the [GeoDict web site](#). GeoDict can be installed on Windows or Linux computers. It is possible to install GeoDict locally for yourself without administrator privileges. To install GeoDict for multiple users, you must have an administrator account.

To run GeoDict, you need to install a valid license. Again, if the license shall be used by multiple users, it must be installed by an administrator.



New in GeoDict 2026

- The RLM floating license server shipped with GeoDict has been updated to version 17 which consists of a redesigned web interface and enhanced user management.
- When multiple users request a license that is currently in use, the license requests will now be queued and handled by a first-come-first-serve principle.

Overview

- [System Requirements](#) ⁵
Operating system, software and hardware requirements and recommendations.
- [Install GeoDict on Microsoft Windows](#) ⁶
Install GeoDict and additional packages on Microsoft Windows.
- [Install GeoDict on Linux](#) ¹²
Install GeoDict and additional packages on Linux computers.
- [License Server Installation](#) ¹⁶
You must install the RLM floating license server to be able to use a floating license.
- [GeoDict Licensing](#) ²⁴
Learn how to request and install license files.
- [Licensing Error Messages](#) ³⁷
Possible error messages and how to resolve these errors.
- [GeoDict Software License Agreement](#) ⁴⁰
The end user license agreement.



Join the conversation

Visit the Community on [GeoDict Forum](#) to be inspired and get answers to top questions.

Find illustrative application examples on the [website](#).

Our tutorials and seminar videos give you a first hands-on experience. They are collected in the [Learning Center](#).

Send your [Support Request](#) to our technical Support.

1.1 System Requirements

To install and run GeoDict, you require:

- 16 GB of RAM (32 GB recommended)
- 6.5 GB of available hard disk space
- 3D video card
 - for visualization purposes, a minimum of 1 GB of memory.
 - for AI training a 3D NVidia graphics card with at least 4 GB of memory (8 GB recommended). The graphics card must allow to use the GPU with a compute capability of at least 7.5 according to the lists given in <https://developer.nvidia.com/cuda/gpus>
- 64 bit OS
 - Microsoft Windows 10 Home / Pro
 - Microsoft Windows 11
 - Linux (any Linux distribution using glibc with version 2.17 or higher, e.g., RHEL 8.x, openSUSE Leap 15.1, Ubuntu 20.04 or newer)
- OpenGL 3.3 or newer (GeoDict is compatible with the oldest possible OpenGL version (1.1), which is guaranteed to be available in any Windows system. However, some visualization features require more advanced OpenGL versions, and will not be available or much slower in older OpenGL versions. If no hardware acceleration is present, Mesa software rendering is used automatically. The necessary Mesa libraries are included in the GeoDict installation folder.)

GeoDict's internal representation of the structure consists of rectangular 3D arrays of equal sized boxes, so-called volume elements or voxels. Approximately 32 million voxels can be visualized per GB of RAM. The size of available RAM also determines the size of the largest structures handled by GeoDict's solvers.

1.2 Install GeoDict on Microsoft Windows

The necessary files to install GeoDict on your computer can be downloaded from [GeoDict's web site](#).

The GeoDict installer is an executable file that will open the installation wizard:

- GeoDict2026-1-1-Windows-Release-Setup.exe

Additionally to the GeoDict package, we recommend to install the GeoDict Tools package. This package contains open source tools which are licensed under the GNU Public License (GPL). The tools package contains:

- The MinGW compiler needed to compile UMATs in ElastoDict on Windows.
- x264 and mp4box, free software libraries and applications for encoding video streams into the H.264 or MPEG-4 AVC compression format.
- Notepad++, a text file editor for Windows.

The GeoDict installer offers the option to download and install the GeoDict-Tools package. We recommend to select this option. In this case, it is sufficient to run the GeoDict installer, and you do not need to install the GeoDict-Tools separately afterwards.

It is important to install the GeoDict package first, then (optionally) the GeoDict Tools package.



Note! The name of the files will be different for later released Service Packs, the numbers after GeoDict2026 show the minor revisions. The installation of versions named 'Service Pack' works identical to the 'Release' version and does not require a prior installation of the 'Release' version.

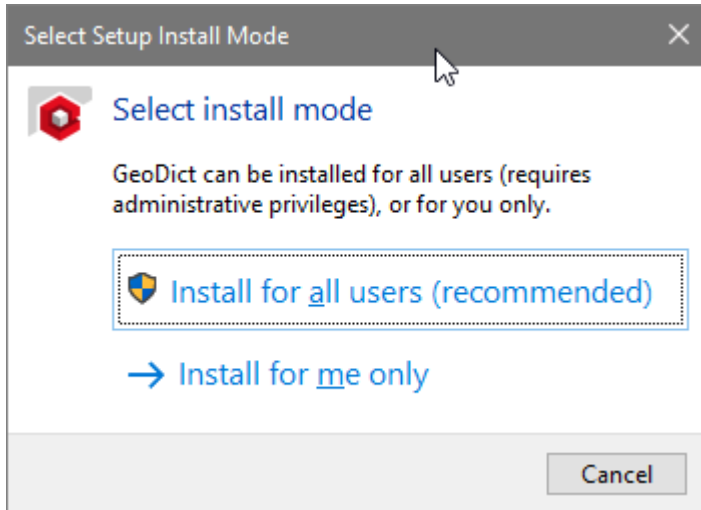
The web page also offers gray value data set examples for download. The file **GeoDict2026-GrayValueDataSets.zip** contains them in a zipped format. Simply select a folder of your choice to store the data sets and unzip the downloaded file there - there is no special installation process required for this file.

Steps to install GeoDict on Microsoft Windows

- [GeoDict Installation](#)⁷
Install GeoDict using the installation wizard.
- [Install GeoDict-Tools Separately](#)¹⁰
Install the GeoDict-Tools package separately if it was not already installed during the GeoDict installation.
- [Parallel Computing and MPI for Windows](#)¹¹
Installation of the MPI (Message Passing Interface) package is necessary to run parallel computations.

1.2.1 GeoDict Installation

After starting the GeoDict installer, a pop-up window asks you if you want to install GeoDict with administrator privileges for all users, or if you want to install it in your user's directory.



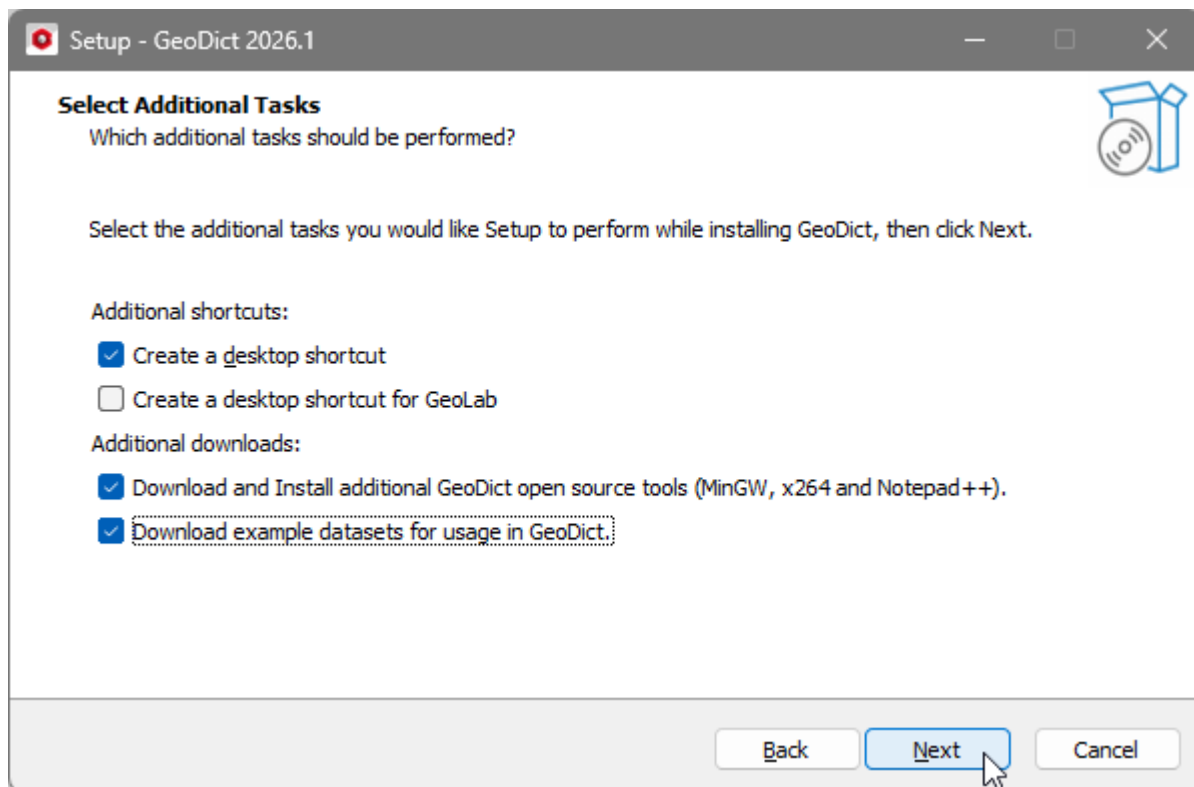
✓ Installation as Administrator

The installation wizard installs GeoDict by default in `C:\Program Files\Math2Market GmbH\GeoDict 2026` and we recommend to use this folder for installation. Approximately 5.84 GB of hard disk space is needed for installation.

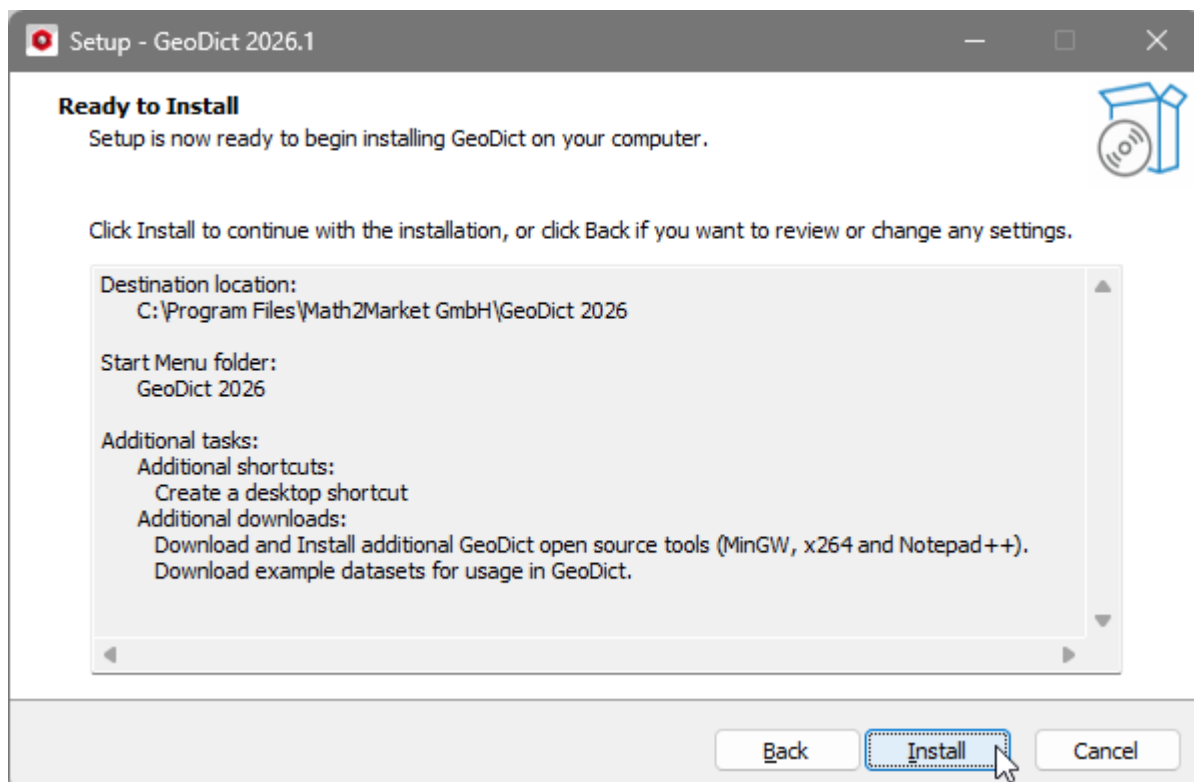
Follow the wizard through the usual installation steps: allow the installer to make changes on your computer, accept the GeoDict License Agreement, and select a folder for the installation. By default, GeoDict will be installed in `C:\Program Files\Math2Market GmbH\GeoDict 2026` and we recommend to use this folder.

During the installation process, the wizard will ask you to select additional tasks. You can select which shortcuts will be created. More important, you can select to download and install additional open source tools required by GeoDict. If selected, the installer will automatically download and install the GeoDict-Tools package, too. In this case, it is not necessary to [install the GeoDict-Tools package separately](#) ¹⁰.

It is also possible to download and install additional example datasets. If selected, the example datasets are copied into the GeoDict installation folder. The folder `C:\Program Files\Math2Market GmbH\GeoDict 2026\GrayValueDataSets` contains these 5 data sets.



After you have made the selections, the additional packages are downloaded. Then, a dialog summarizes the selections. Confirm them and start to install the packages to the hard drive by clicking **Install**:



During the GeoDict 2026 installation, two Microsoft redistributables are installed if they have not been previously installed by other programs.

- **Microsoft MPI**, a Microsoft implementation of the Message Passing Interface standard for running parallel applications on the Windows platform. The Microsoft MPI redistributable (version 8.1.12438.1091) is installed into **C:\Program Files\Microsoft MPI**.
- **Microsoft Visual C++ 2015-2022 Redistributable (x64)** runtime library.



Know how! If you start the installer with the `/HELP` option, you get a list of all possible installation parameters. Silent installation is possible with the command line options `/SILENT` or `/VERYSILENT`. We recommend to use the following options for an automatic, silent installation:

`/VERYSILENT /NORESTART /NOCLOSEAPPLICATIONS /ALLUSERS /LOG /TASKS="insta`

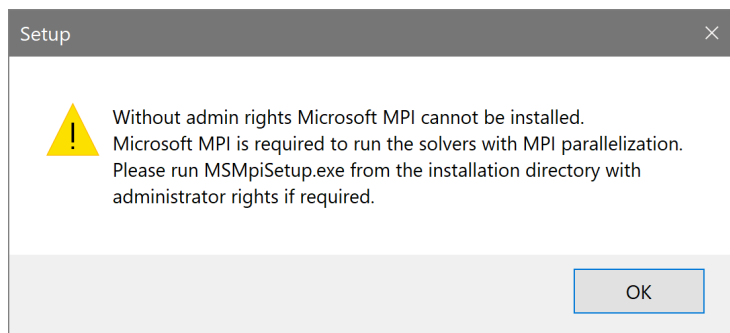
✓ Installation as User

The installation wizard installs GeoDict by default in c:

`\Users\username\AppData\Local\Programs\Math2Market GmbH\GeoDict 2026\`.
Approximately 5.84 GB of hard disk space is needed for installation.

Follow the wizard through the installation steps.

Without administrator privileges, the Microsoft redistributables cannot be installed. If they have been previously installed by other software products, it is not necessary to re-install them and GeoDict will use the installed Microsoft products.



Without administrator privileges, you cannot install Notepad++ during the installation of the GeoDict-Tools package.

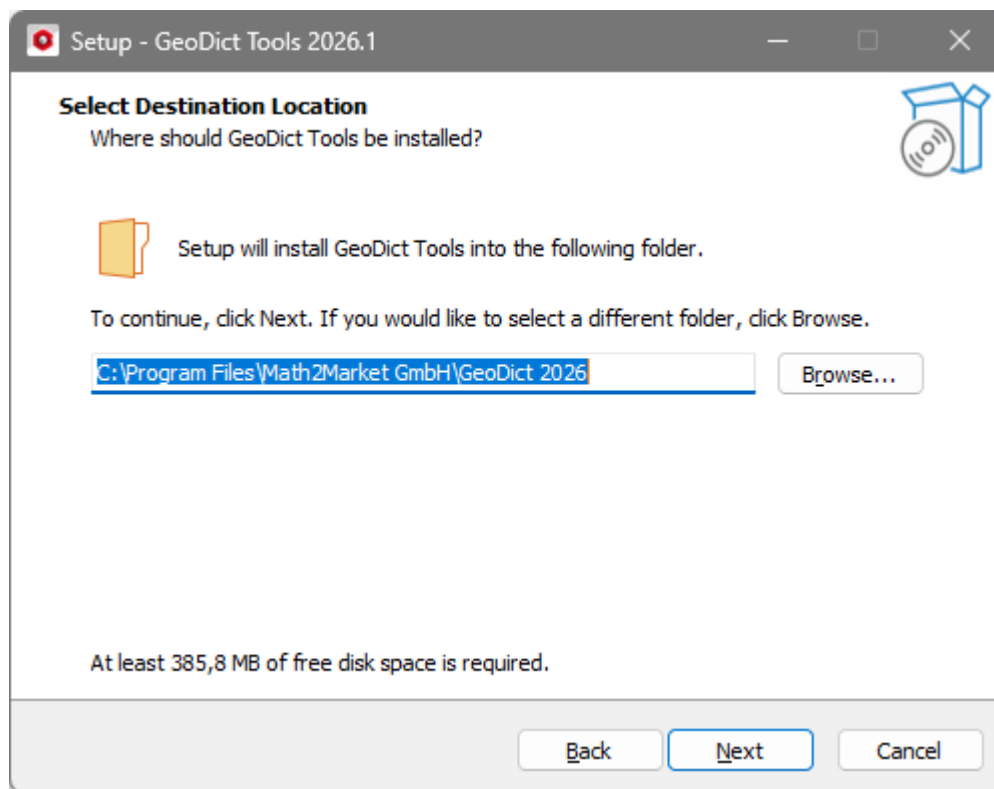
If the example datasets are downloaded and installed during the GeoDict installation, the datasets are copied into the GeoDict installation folder. The folder c:
`\Users\username\AppData\Local\Programs\Math2Market GmbH\GeoDict 2026\GrayValueDataSets` contains 5 data sets.

1.2.2 Install GeoDict-Tools Separately

If the GeoDict-Tools have not already been installed during the installation of GeoDict, it is recommended to install them afterwards.

After starting the GeoDict-Tools installer, a pop-up window will ask if the GeoDict-Tools package should be installed with administrator privileges for all users, or only in your user's directory. Here, the same choice as during the GeoDict installation must be made. If you installed GeoDict for all users, install the tools for all users, too.

When asked to select the Destination Location, you must select the folder where GeoDict is already installed. The installer uses the same default locations as the GeoDict installer, so if you have not changed the installation folder during the GeoDict installation, do not change anything here.



If the selected folders are not the same, a warning appears.

The wizard installs MinGW, mp4box and x264 in the appropriate locations inside the GeoDict installation folder. After the installation of those tools is finished, you will be asked if you want to additionally install Notepad++.



Leaving the button checked will launch the Notepad++ installation wizard (version 8.8.9, 64bit). By default, Notepad++ is installed in **C:\Program Files\Notepad++**, and we recommend to use this folder. It is not recommended to install Notepad++ into the GeoDict installation folder used before.

1.2.3 Parallel Computing and MPI for Windows

GeoDict uses the MPI message passing interface protocol to run parallel computations in DiffuDict, ConductoDict, FlowDict, FilterDict-Media, FilterDict-Element, AddiDict, SatuDict and AcoustoDict.

GeoDict's parallel solvers use the MPI library from Microsoft.

If Microsoft MPI is not already installed, the Microsoft MPI redistributable is installed into **C:\Program Files\Microsoft MPI** during the installation of GeoDict 2026.

1.3 Install GeoDict on Linux

The necessary files to install GeoDict on your computer can be downloaded from [GeoDict's web site](#).

For Linux, the installer of GeoDict is available for download in three alternative formats, as deb package, rpm package or gzipped tar archive:

- GeoDict2026-1-1-Linux-x86_64-Release.deb
- GeoDict2026-1-1-Linux-x86_64-Release.rpm
- GeoDict2026-1-1-Linux-x86_64-Release.tar.gz

Additionally to the GeoDict package, we recommend to install the GeoDict Tools package. This package contains open source tools which are licensed under the GNU Public License (GPL). In Linux, it consists of x264, a free software library and application for encoding video streams into the H.264 or MPEG-4 AVC compression format. Without installing the GeoDict Tools package, you cannot export movies from GeoDict in these formats. The GeoDict Tools package is also available as deb package, rpm package or gzipped tar archive.

- GeoDict2026-1-1-Linux-x86_64-Release-Tools.deb
- GeoDict2026-1-1-Linux-x86_64-Release-Tools.rpm
- GeoDict2026-1-1-Linux-x86_64-Release-Tools.tar.gz

It is important to install the GeoDict package first, then (optionally) the GeoDict Tools package.



Note! The name of the files will be different for later released Service Packs, the numbers after GeoDict2026 show the minor revisions. The installation of versions named 'Service Pack' works identical to the 'Release' version and does not require a prior installation of the 'Release' version.

The web page also offers gray value data set examples for download. The file **GeoDict2026-GrayValueDataSets.zip** contains them in a zipped format. Simply select a folder of your choice to store the data sets and unzip the downloaded file there - there is no special installation process required for this file.

Steps to install GeoDict on Linux

- [Install the Debian Package](#)¹³
Install GeoDict on ubuntu.
- [Install the RPM Package](#)¹³
Install GeoDict on Red Hat or OpenSuSE Linux.
- [Install the tar.gz Archive](#)¹⁴
Install GeoDict on any linux system that uses a glibc version 2.17 or higher.
- [Parallel Computing and MPI for Linux](#)¹⁵
Installation of the MPI (Message Passing Interface) package is necessary to run parallel

Steps to install GeoDict on Linux

computations.

1.3.1 Install the Debian Package

The .deb packages have been tested for:

- Ubuntu 20.04
- Ubuntu 22.04
- Ubuntu 24.04

To install them, you need administrator privileges. Install them as usual by using apt:

```
sudo apt install GeoDict2026-1-1-Linux-x86_64-Release.deb  
sudo apt install GeoDict2026-1-1-Linux-x86_64-Release-Tools.deb
```

The apt installer will check for dependencies and, if required, download and install additional packages from the Ubuntu repositories.

GeoDict will be installed in `/opt/geodict2026/`. The content of the GeoDict Tools package will be installed in `/opt/geodict2026/Tools/`.

After installation, start GeoDict by typing `/opt/geodict2026/geodict2026` in the command shell.



Note! If you install a Service Pack after a previous installation of GeoDict 2026, the new package will install into the same location and update the installed files.

1.3.2 Install the RPM Package

The .rpm packages have been tested for

- RHEL / Rocky Linux 8
- RHEL / Rocky Linux 9
- RHEL / Alma Linux 10
- openSUSE Leap 15.3
- openSUSE Leap 15.4
- openSUSE Leap 15.5
- openSUSE Leap 15.6

To install them, you need administrator privileges. Install them as usual by using yum (RHEL):

```
yum install GeoDict2026-1-1-Linux-x86_64-Release.rpm  
yum install GeoDict2026-1-1-Linux-x86_64-Release-Tools.rpm
```

or zypper (openSUSE):

```
zypper install GeoDict2026-1-1-Linux-x86_64-Release.rpm  
zypper install GeoDict2026-1-1-Linux-x86_64-Release-Tools.rpm
```

The installer will check for dependencies and, if required, download and install additional packages from the respective Linux repository.

GeoDict will be installed in `/opt/geodict2026/`. The content of the GeoDict Tools package will be installed in `/opt/geodict2026/Tools/`.

After installation, start GeoDict by typing `/opt/geodict2026/geodict2026` in the command shell.

1.3.3 Install the tar.gz Archive

You can install GeoDict by simple extracting the gzipped tar archive. This approach does not use an installer, and therefore does not check for dependencies from other Linux packages. We therefore recommend to install GeoDict either from the [.deb package](#)^[13] or the [.rpm package](#)^[13], if possible.

If you install by extracting the .tar.gz file, you have to take care of the dependencies manually:

- GeoDict requires that the installed glibc library is version 2.27 or higher. To find out which version runs on your Linux system, open a terminal and type in the command line `getconf GNU_LIBC_VERSION` and get (for example) glibc 2.27 as output. In this case you may install GeoDict. If the glibc version of your Linux system is lower than 2.27, you cannot install GeoDict on this system.
- GeoDict uses 3D graphics, so it requires that X11 and OpenGL libraries are installed.
- GeoDict requires that libgomp, libgfortran, libdbus, libglib2 and libpcre2-16 are installed.
- The executables BESTer, BESTmicro and FeelMath that are part of the GeoDict package require libstdc++ version higher than 3.4.26. This library can be found, e.g., in the GeoDict installation folder in the `compat_libs/` subdirectory. The library can be copied into the `BESTer/`, `BESTmicro/` and `FeelMath/` subdirectories after the GeoDict installation if it is missing on your Linux system.

To install GeoDict, open a terminal and move the file to the folder where you want to install GeoDict (we recommend installation in `/opt`) and extract GeoDict by typing

```
tar -xzf GeoDict2026-1-1-Linux-x86_64-Release.tar.gz
tar -xzf GeoDict2026-1-1-Linux-x86_64-Tools-Release.tar.gz
```

The tar command unzips the file and creates the folder `geodict2026` in the working directory. This installation folder contains all GeoDict files. The GeoDict Tools package is unpacked into the `geodict2026/Tools` folder and contains the x264 video encoder. It is important that both GeoDict and GeoDict Tools package are unpacked in the same folder.

Launch GeoDict from the command line by starting

```
./geodict2026
```

from this installation folder or start it by browsing to the installation folder and clicking on the `geodict2026` executable.



Note! We recommend that you create a link in `/usr/local/bin` or any other location that is in the binary search path to the `geodict2026` executable such that it can be

easily started by all users.

1.3.4 Parallel Computing and MPI for Linux

GeoDict uses the MPI message passing interface protocol to run parallel computations. The MPI interface and the required **mpiexec** executable can be provided through different packages from different vendors. Unfortunately, these packages are not compatible with each other.

The installation package of GeoDict 2026 contains solver executables that can either use Mpich 3 or OpenMPI 1.10.7. This means that one of these two libraries must be installed.

To allow for an easy installation, the packages

- `mpich-3.2.1.tar.gz`
- `openmpi-1.10.7.tar.gz`

and a shell script can be found in the GeoDict installation folder:

- `setupMPI.sh`

To install the MPI libraries, simply run the `setupMPI.sh` script. The script will unpack, configure, make, and install the libraries. If the script is called without any command line argument, the libraries are installed locally in the GeoDict installation folder. If the script is called with the command line argument 'root'

```
sudo ./setupMPI.sh root
```

the libraries are installed in `/usr/local`. For this, root privileges are required.

The compilation and installation of MPI will take approximately 15 to 30 minutes. After the installation, check if the OpenMPI and Mpich3.2 executables have been created, as the script will not return an error message if one of the installations fails.

More details on using and configuring MPI can be found in the [High-Performance Computing User Guide](#).

1.4 License Server Installation

If GeoDict is used with a floating license, you have to install the floating license server before you can start using GeoDict.



Note! If GeoDict is used with a node-locked license, no license server is needed. In that case, you do not have to install the RLM license server.

GeoDict uses RLM to manage floating licenses and thus a RLM server must be installed to use GeoDict. RLM (Reprise License Manager) is a software licensing system from Reprise Software Inc. (www.reprisesoftware.com). All files needed for the installation are packaged with GeoDict, it is not necessary to download an installer from the RLM homepage.

The operating system of the computer on which you install the RLM server is independent of the operating system under which GeoDict is installed. For example, you may run GeoDict on a Windows computer while the RLM server is installed on a Linux computer, and vice versa. The RLM server and GeoDict may also be installed on the same computer.



Important! We do not support installing the RLM license server on a virtual machine. Math2Market's ISV server will not start on virtual license servers.

(An ISV server is a custom license server process configured by a software vendor to host licenses for its products. To host GeoDict licenses, the **m2m** ISV server is used.)

Overview

- [Join a Pre-Installed RLM Server](#)¹⁷
RLM is used by many vendors. Thus, you might already have a RLM server running that you can use to host your GeoDict license.
- [Start RLM as User](#)¹⁷
Learn how to start the RLM license server without administrator privileges (not recommended).
- [Install RLM as Service in Windows](#)¹⁸
Learn how to set up the RLM license server as a service in Windows (Requires administrator privileges, recommended installation).
- [Install RLM as Service in Linux](#)¹⁹
Learn how to set up the RLM license server as a service on a linux host (requires administrator privileges).
- [Firewall Settings](#)²⁰
GeoDict must be able to access the license server, therefore the ports used by the RLM server must be opened.
- [License Usage Reports](#)²⁰
Enable license usage reports by setting the right parameters in the .ini file of the license server.

Overview

- [The RLM Web Interface](#)^[21]
Define access roles for users and administrators that allow all GeoDict users to see who is currently using the license.
- [Managing User Access and Priorities](#)^[22]
As administrator, you may restrict access to the GeoDict licenses to certain groups or users.

1.4.1 Join a Pre-Installed RLM Server

A RLM server may be used to manage software licenses of different vendors, so it is possible that you might want to use an already installed server to manage also your GeoDict licenses. This is possible if the RLM server is version 14 or newer (V14.0 was released in Nov 2019).

To make the RLM server automatically detect the new license files, it is necessary that the currently used server was started with the `-c` option and a folder as argument (not a single license file).

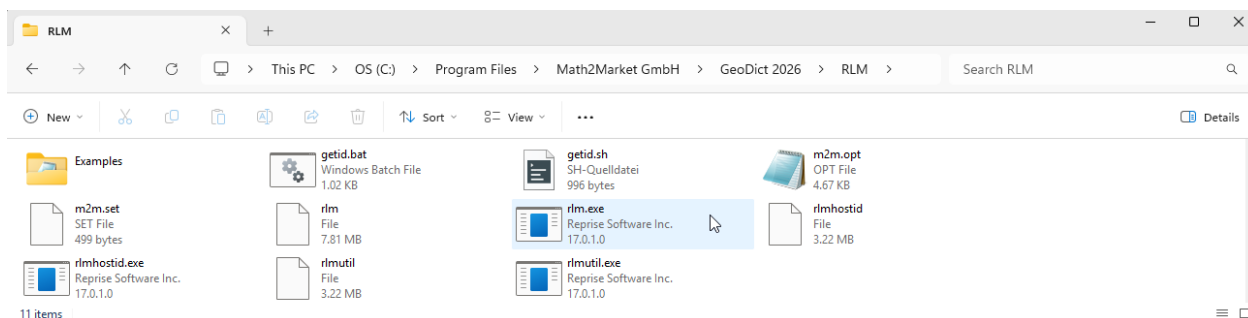
1. Copy the ISV server file named `m2m.set` from the GeoDict installation folder to a location where the RLM server will find it. Usually, you have to place it in the folder where the `rlm` executable file is located.
2. Copy the received *.lic GeoDict license file to the folder that also contains your other license files. If you want to use an [ISV options file](#)^[20], name this file `m2m.opt` and copy it also in this folder.
3. Then, click on Reread/Restart Servers in the web interface to import the license.

By default, GeoDict will use the ISV server port 42825 and therefore, you have to open this port, if the server is behind a firewall. The port number used by the ISV server can be changed by the server administrator, please refer to the RLM License Administration manual.

1.4.2 Start RLM as User

The RLM server is a single executable file. In principle, it can be started like any other executable by simply clicking on it. However, if started like this, the server will stop running when the user that started it closes the terminal window in which the server is running, or logs out, or shuts down the computer. This is not the behavior needed from a license server, which should be accessible at any time. So, the difficulty in installing a license server is to make sure that the server is running all the time and is accessible from all computers with a GeoDict installation. This is typically achieved by [running rlm as a service](#)^[18] and must be done by a system administrator.

If you simply want to install RLM locally for yourself for test purposes, you can find the server executables in the GeoDict installation folder:

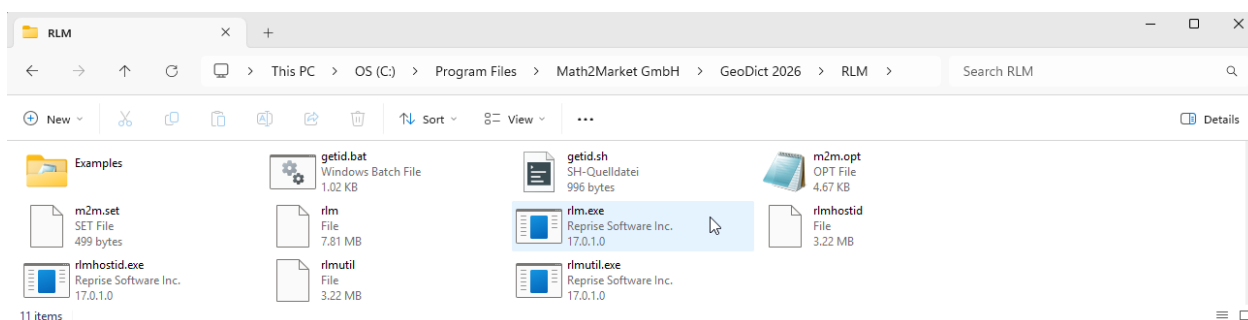


To set up a new RLM license server, copy the whole RLM subfolder to the desired license server host and copy a received GeoDict license file into that folder. Then, start the `rlm.exe` license server by clicking on it. The license is automatically found and imported in the server.

By default, the license server uses IP ports 5053 (main RLM server) and 42825 (Math2Market ISV server) for communication with GeoDict and 5054 for the web interface. Hence, access the web interface by typing `localhost:5054` in the web browser.

1.4.3 Install RLM as Service in Windows

The RLM server executables (Version 17.0 of April 2025) are deployed with GeoDict and can be found in the GeoDict installation folder:



To set up a new RLM license server, copy the whole RLM subfolder to the desired license server host.



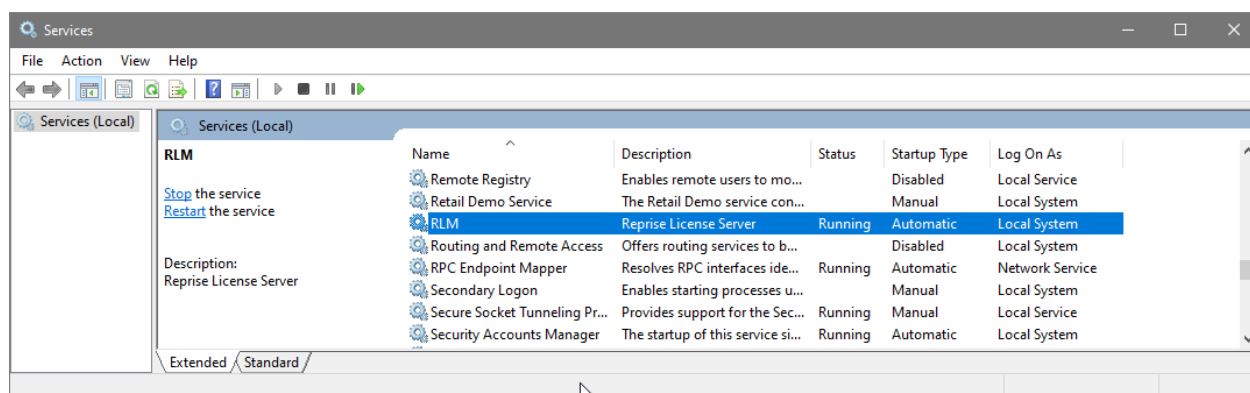
Note! The license server executables deployed with GeoDict 2026 are RLM license server version 17.0 (Release) or 17.1 (Service Pack 1), and it is not necessary to download additional files to run the server. It is possible to download and install a newer version from [Reprise Software](#) if desired. It is not possible to run GeoDict with a version older than version 14.0. The description in this GeoDict User Guide corresponds to version 17.0.

To install RLM as a service that is automatically started when the computer is started, open a command shell as administrator and start `rlm` with the `-install_service` option, e.g., with

```
rlm.exe -install_service -dlog C:\RLM\rlmservice.log -service-name RLM -c C:\RLM\licenses
```

Installing RLM as a service does not start RLM, services are started via the Windows Services control panel, and at boot time. When installing RLM as a service, you should make sure to use

the -c option with a folder as argument, and not with a single license file. If used with a folder as argument, additional GeoDict licenses received later can simply be placed in the same folder without the need to restart the service.



By default, the license server uses IP ports 5053 (main RLM server) and 42825 (Math2Market ISV server) for communication with GeoDict and 5054 for the web interface. Hence, access the web interface by typing localhost:5054 in the web browser.

For more details, please refer to the [RLM License Administration Manual](#).

1.4.4 Install RLM as Service in Linux

Installing a service in Linux requires creating a script that includes functions to start, stop and restart the program that should run as a service. The system administrator must then copy and link the script in the right locations to make it start as a service at boot time.

Unfortunately, this is not completely standardized, and so the exact steps to be taken may differ slightly from distribution to distribution. The commands presented in the following work on Ubuntu 20.04 but may need to be adjusted for other distributions.

Step 1: Decide where RLM binaries, licenses and log files should be placed. You may place all files in one folder, or

- Create a bin folder that contains the rlm executable, the rlmutil executable and the m2m.set ISV server. The ISV server m2m.set must be placed in the same directory as the rlm executable.
- Create a lic folder that contains all license files and the ISV options file m2m.opt.
- Create a log folder that will contain all log files.

Step 2: Modify the ISV options file. The **RLM/Examples** folder contains an example that can be used after changing the paths inside the script to the locations selected in Step 1. Place the ISV options file in the same location as the license files.

Step 3: Create a start script called, e.g., **rlmservice**. The **RLM/Examples** folder contains an example script that can be used after changing the paths inside the script to the locations selected in Step 1.

Step 4: Make **rlmservice** executable with **chmod +x rlmserver** and as administrator copy the file to **/etc/init.d**:

```
sudo cp rlmserver /etc/init.d/
```

Step 5: You may now start rlm as a service with

```
sudo /etc/init.d/rlmserver start
```

and stop or restart it with

```
sudo /etc/init.d/rlmserver restart
```

```
sudo /etc/init.d/rlmserver stop
```

Step 6: To make the service automatically start at boot time, create a symbolic link in `/etc/rc5.d`, which contains symbolic links for all services that should be started at runlevel 5:

```
cd /etc/rc5.d
```

```
sudo ln -s ../init.d/rlmserver S98rlmserver
```

1.4.5 Firewall Settings

For the GeoDict floating license to work, the RLM server must be running and accessible from all computers where GeoDict will be used. That means, if the RLM server is behind a firewall, open the specified TCP/IP ports, such that GeoDict will be able to connect to the server. By default, the following ports are used:

- 5053 - the main RLM server port. GeoDict must be able to reach this port. This port number is also encrypted in the *.glic file, so if you use another port as RLM main server, you must inform Math2Market about this when you request a license.
- 5054 - the RLM web interface. It is not necessary that GeoDict reaches this port, but you may want users to access it to be able to see who is using the GeoDict license. You are free to use another port number here.
- 42825 - the m2m ISV server port. GeoDict must be able to reach this port. You are free to use another port number here by changing the number in the *.lic file (the number is not encrypted in the license).

1.4.6 License Usage Reports

RLM allows to control how log files are created and what level of detail is stored in those files. This is controlled through an "ISV options file" (see also the [RLM License Administration Manual](#)). This text file must be created by the administrator and should be located beside the license files that M2M delivers. An example ISV options file can be found in the GeoDict installation folder at `RLM/Examples/m2m.opt`

The ISV options file for the m2m server must be named 'm2m.opt'. To log the license usage, a text file containing the `REPORTLOG`, `DEBUGLOG` and `ROTATE` parameters is necessary, e.g., similar to the following lines

```
REPORTLOG +/usr/local/rlmserver/logs/m2m-report.log detailed
DEBUGLOG +/usr/local/rlmserver/logs/m2m-debug.log
ROTATE daily
```

In this example, a new log file named `m2m-report.log.YYYY.MM.DD` would be started every day and stored in the `/usr/local/rlmserver/logs/` folder. Make sure to adjust file paths inside the file before using the example file.

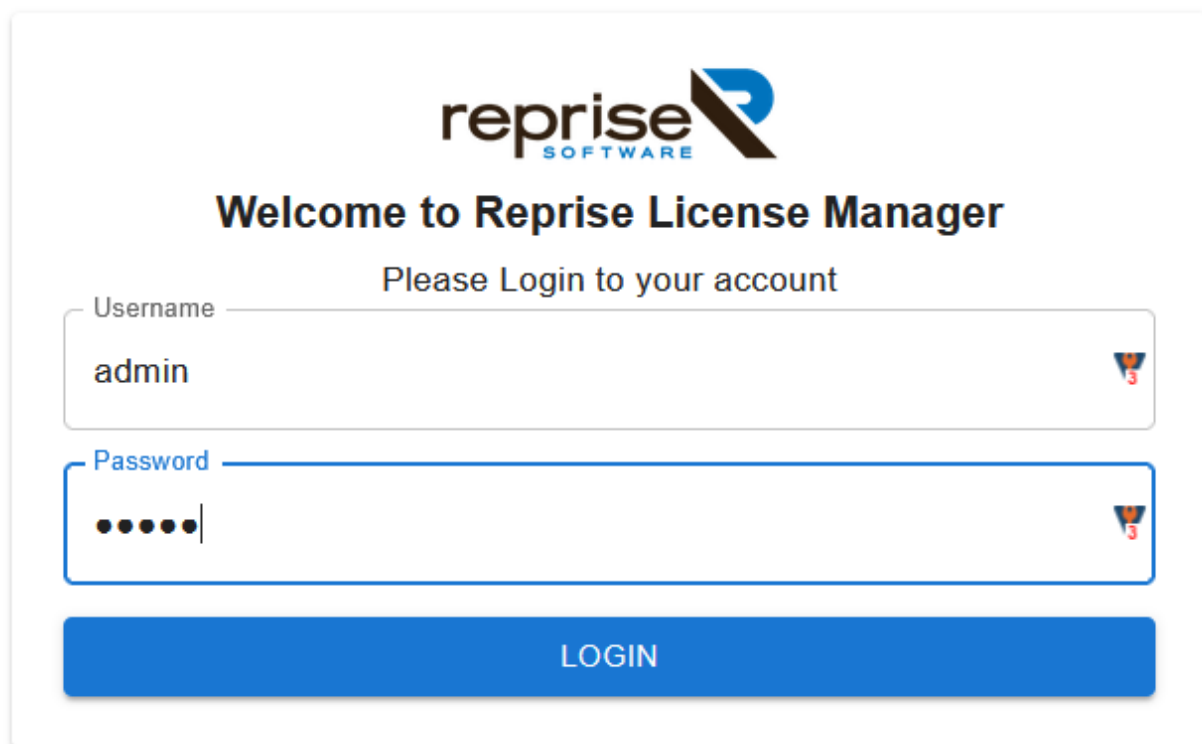
After this file is created and placed beside the license, it is necessary to shut down the RLM server completely and start it again (it is not sufficient to click on reread/restart in the web interface of the server). RLM will then start logging the usage.

RLM's report log file format is also described in the [RLM License Administration Manual](#). The format is not easily human readable and the RLM server does not include tools for a deeper analysis of those files. If such an analysis is needed Math2Market recommends using OpenLM (<http://www.openlm.com>) for this task.

1.4.7 The RLM Web Interface

The RLM server contains an embedded Web Server which can be used to perform most administration of the RLM server itself. The web server allows you to retrieve server and license status and cause the servers to re-read the license files. Using this web-based interface, you can administer the license servers from any platform, and you do not need to install the RLM utilities - you only need a web browser.

Upon first login, you can access the web interface using the username `admin` and the password `admin`.



The screenshot shows the login page of the Reprise License Manager web interface. At the top, there is the 'reprise SOFTWARE' logo. Below it, the text 'Welcome to Reprise License Manager' is displayed in a large, bold, black font. Underneath, the instruction 'Please Login to your account' is shown in a smaller black font. The login form consists of two input fields: 'Username' and 'Password'. The 'Username' field contains the text 'admin'. The 'Password' field contains five dots, indicating a masked password. To the right of each input field is a small icon of a shield with a red 'X'. Below the input fields is a large blue button with the text 'LOGIN' in white capital letters.

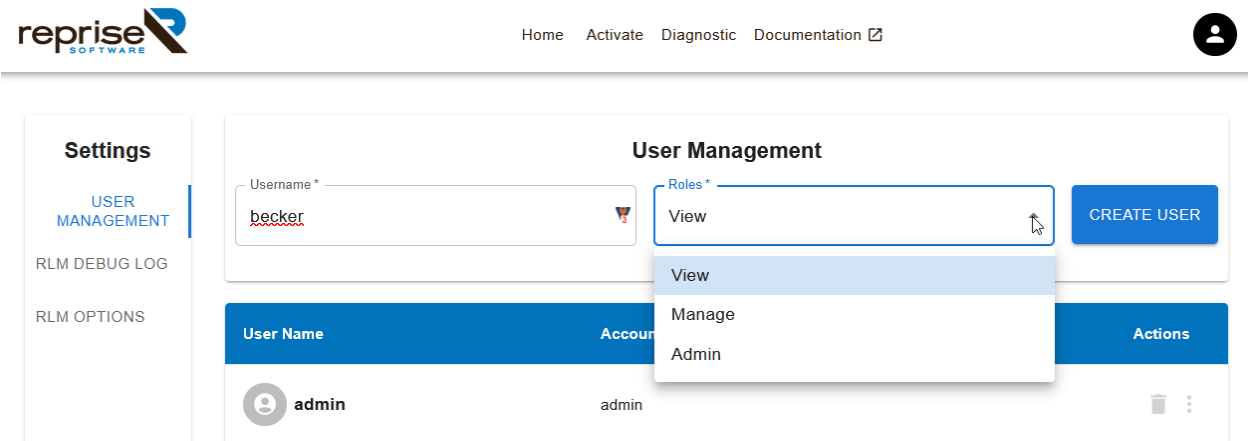
You will be prompted to set a new password on first login. See the [RLM License Administration Manual](#) for details.



Important! The web server layout has changed significantly between RLM version 15 (shipped with GeoDict 2025) and 17 (shipped with GeoDict 2026). Also, access control is handled different from previous versions of RLM.

The Web Interface is not only useful for license administrators, it can also be used to by GeoDict users to check if a license is currently in use and to get informed who is using the license and on which host.

We therefore recommend to give all GeoDict users access to the RLM web interface using the **View** role.



1.4.8 Managing User Access and Priorities

By placing an ISV options file called `m2m.opt` besides the GeoDict licenses (*.lic), you may specify certain rules how the license can be used within your organization. For a complete description of the available options we refer to the [RLM License Administration Manual](#).

An example ISV options file is delivered within the GeoDict installation folder at `RLM/Examples/m2m.opt`. You may modify this file and copy the modified file besides your GeoDict licenses (*.lic).

Settings Priorities

When several users want to use the same license, the RLM server will grant the license to the first request. Subsequent requests will wait in a queue until the license becomes available. By default, this is handled on a first-come-first-serve principle and a user requesting a license will have to wait until all previous requests have been fulfilled.

If you want to prefer certain requests over others, you can give these requests higher priorities. This is especially helpful, if you want license requests from a GeoDict job queue server to be preferred over requests from a user's laptop or desktop machine. For this, set the `PRIORITY` to 1 for each license as shown in the example `m2m.opt` file:

```
PRIORITY 1 geodictbase           project GEODICT_JOBQUEUE
PRIORITY 1 fibergeo             project GEODICT_JOBQUEUE
PRIORITY 1 fibergeo-processes   project GEODICT_JOBQUEUE
```

These entries assign the highest priority to license requests associated with the project `GEODICT_JOBQUEUE`.

On the machine that should receive priority, define the following [environment variable](#):

```
RLM_PROJECT=GEODICT_JOBQUEUE
```

This ensures that all license requests from this computer are tagged with the GEODICT_JOBQUEUE project variable. Once configured, any queued license requests from this machine will be prioritized over requests from other machines.

In addition to project-based prioritization, RLM also allows you to assign priority based on user, host, group, host_group, or IP address. For further details, refer to the [RLM documentation](#).

Restricting Access for Users and Groups

The license administrator can control which users may use a certain license, or how many licenses a user may use at the same time. An INCLUDE line in the ISV options file states that a certain module can only be used by the defined users, e.g., with

```
INCLUDE elastodict user joe
```

only the user “joe” may use the module ElastoDict.

An EXCLUDE line in the ISV options file states that a certain module cannot be used by the defined users, e.g., with

```
EXCLUDE elastodict user charlie
```

the user “charlie” is not allowed to use the module ElastoDict.

A GROUP line in the ISV options file defines a group of users, and the group can then be used to define access rights for the whole group:

```
GROUP departmentA charlie joe john
```

```
INCLUDE elastodict group departmentA
```

A MAX line in the ISV options file defines the maximum number of licenses a certain user or group may use, e.g., the line

```
MAX 4 elastodict-processes user joe
```

limits the number of parallel ElastoDict processes that the user “joe” can use to 4.

These options can be used to reserve some licenses for certain departments or user groups. A license administrator can modify the ISV options file at any time. To apply the updated file, click Reread/Restart for the m2m ISV server in your RLM web interface.

Be aware that there are several more options available, e.g., it is possible to restrict the usage to certain IP addresses or hostnames. For a reference of all options confer the “ISV Options File” section in the RLM License Administration manual.

1.5 GeoDict Licensing

The GeoDict license controls who is entitled to use the software, what he may use, how he may use it, how many instances of the software he may use, how long he may use it, and where he may use it.

GeoDict licenses can be node-locked or floating.

- A Node-Locked license is bound to the hardware (ethernet/MAC address) of a specific computer. GeoDict can only run on this computer.
- A Floating license is also bound to the hardware of a specific computer. Here, the license server can only run on this computer. GeoDict can run on any computer that connects to the license server. The license server controls how many GeoDict instances can run at the same time.

In both cases, you must provide information about the hardware to enable Math2Market to create a license. The topics below explain how you provide these information in your license request and how you install the license after you received it.

Overview

- [Request a Node-Locked License](#)^[24]
Learn how to collect hardware information and send them to Math2Market.
- [Install a Node-Locked License](#)^[26]
Install a node-locked license locally for a single user or as administrator for several users.
- [Request a Floating License](#)^[28]
Learn how to collect license server information and send them to Math2Market.
- [Install a Floating License](#)^[30]
Install a floating license as license administrator for multiple users of your organization.
- [Install a License Hosted by M2M](#)^[31]
Install a license hosted on M2M's web server.
- [Use the Floating License](#)^[32]
Select licenses of the modules you need and release unused licenses.

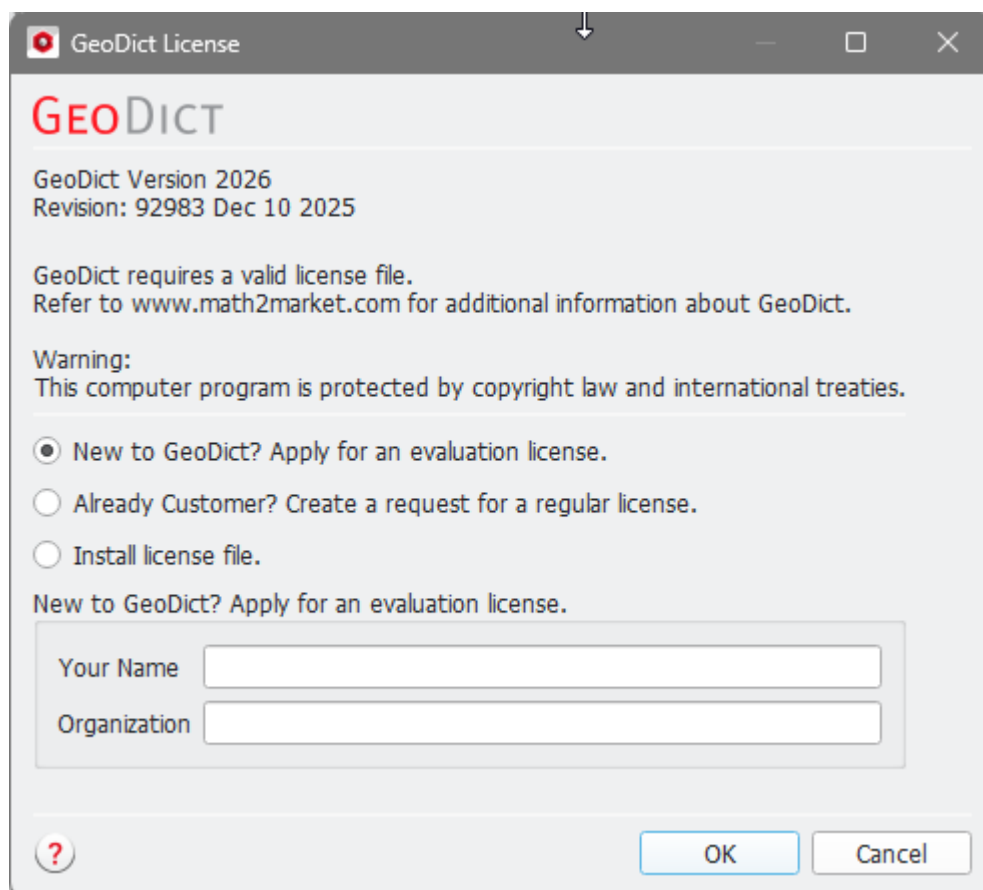
1.5.1 Request a Node-Locked License

Start GeoDict. You can do this by double-clicking the GeoDict icon on your Windows desktop or, in Linux, calling `./geodict2026` from the installation folder.

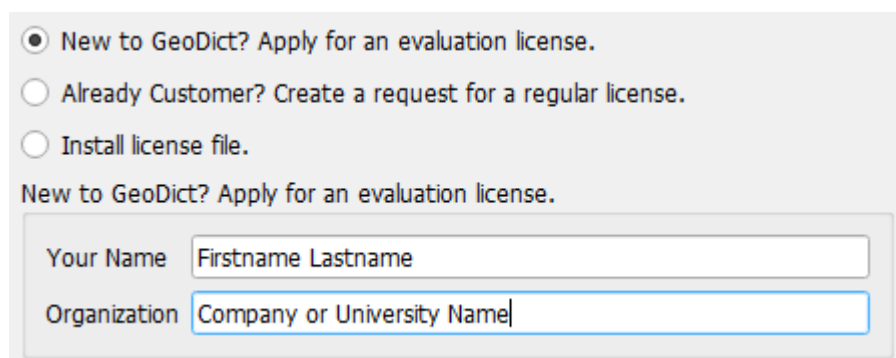


Important! The requested license will be valid on this computer only. You cannot use GeoDict on another machine with the received license later.

If GeoDict 2026 is started for the first time, and no license is installed yet, the GeoDict License dialog opens automatically. Later, you can open this dialog at any time from the main menu bar by selecting **File** → **Choose License File....**

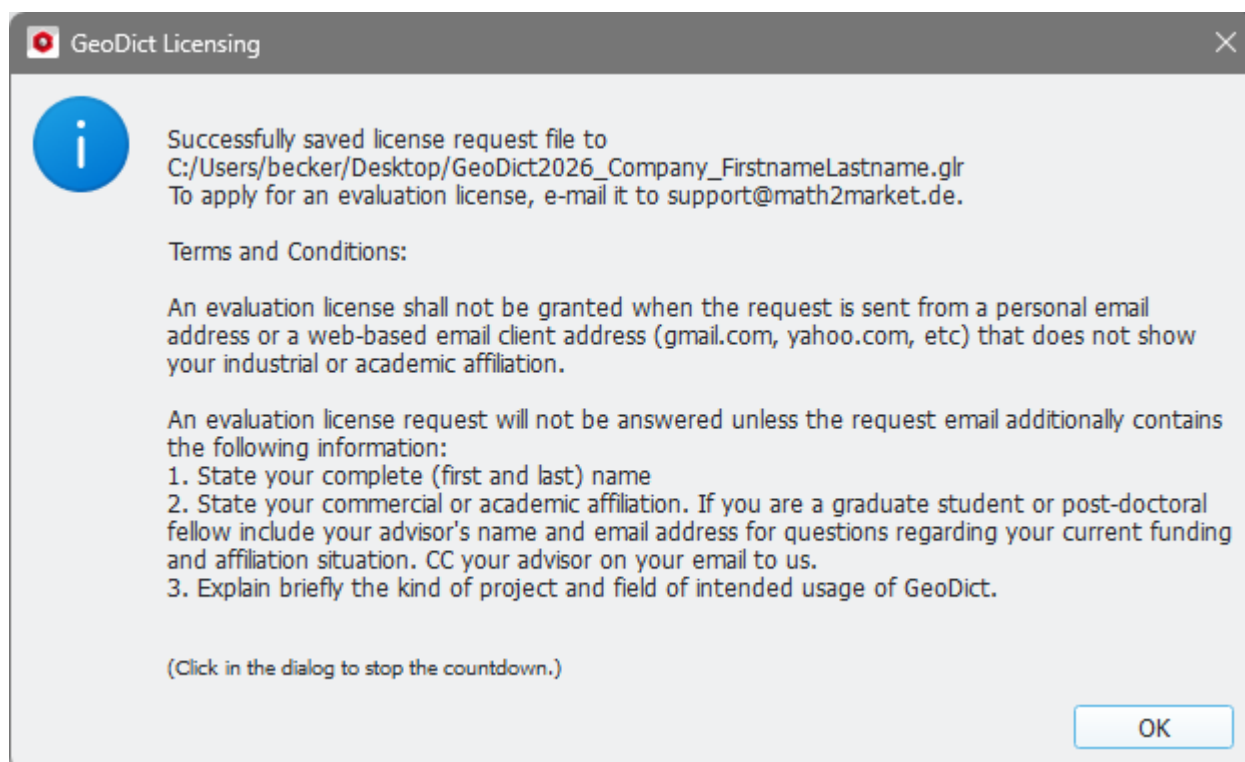


Check the option that describes your situation. If you are new to GeoDict or already a customer of Math2Market applying for or renewing a license, check one of these options. Type **Your Name** and the name of your **Organization** (Company, University, Institute, etc.), and then click **OK**.



This generates a .glr (GeoDict license request) file that is saved in the default location (/Documents/MyFirstGeoDictProject) or in a specified location.

The saved .glr file contains information that identifies the computer on which it was generated and that is needed to issue a license file that is exclusive for the computer. The license file cannot be used on a different computer.



Now, as indicated in this message:

1. Write an e-mail with the subject line **License request**, and
 - a. If you are new to GeoDict, follow the instructions shown in the message and enter all the information needed in the body of the e-mail.
 - b. If you are a customer of Math2Markt who is renewing the license or has contacted us otherwise and we have agreed to provide you with a trial license, there is no need to enter the complete information.
2. Attach the saved .glr (GeoDict license request) file to the e-mail (here: GeoDict2026_CompanyorUniversityName_FirstnameLastname.glr).
3. Send the e-mail to **support@math2market.de**

After processing your request, Math2Market will send an email with the license file attached (*.glic) to you. Install the license as described in the [next page](#).

1.5.2 Install a Node-Locked License

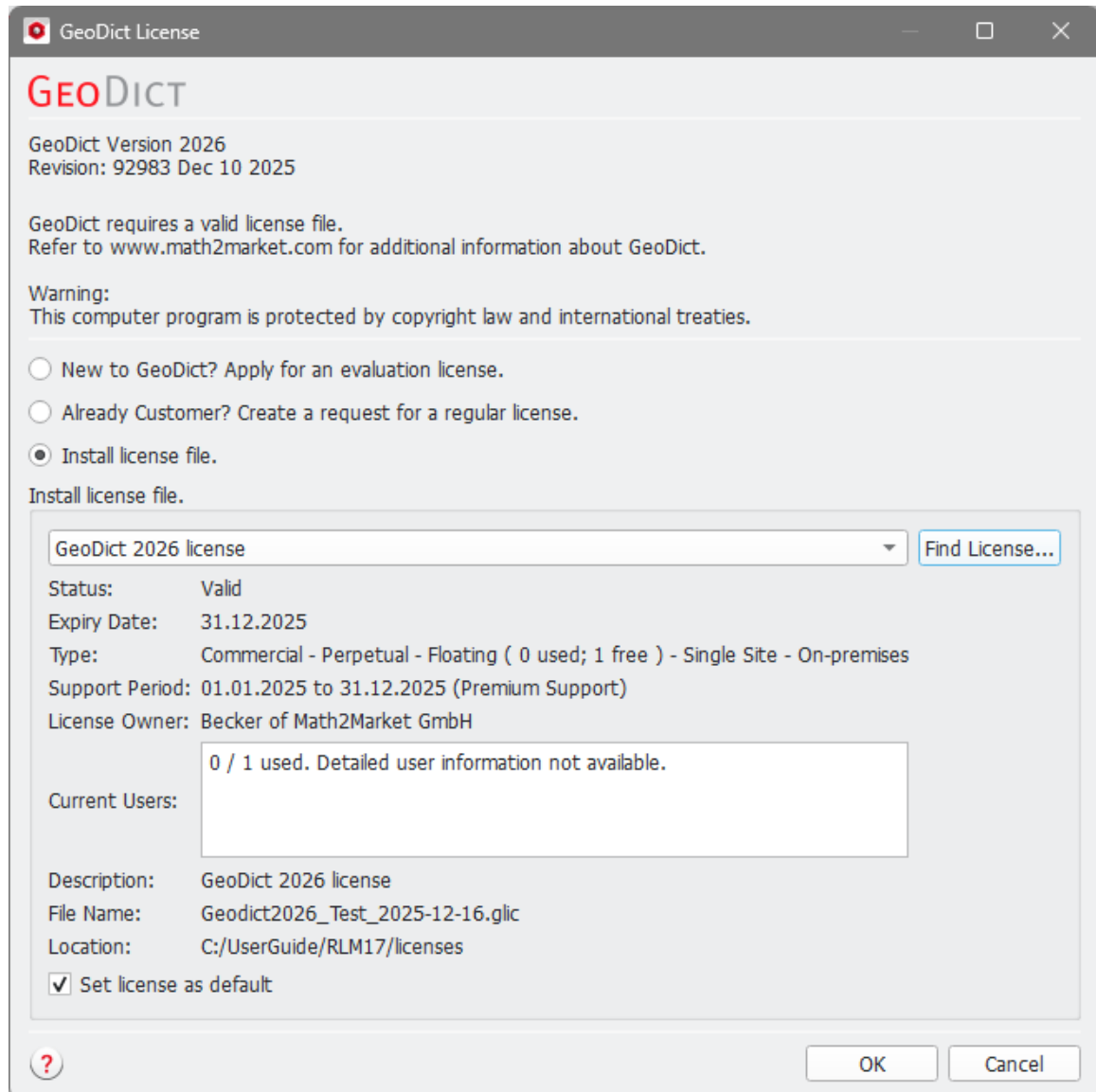
Having received a GeoDict license file (*.glic), you are ready to load and install the license and begin using GeoDict.

As administrator, you can install the license for all users by copying it to a specific location. Or alternatively, as a user, you can select the license file in GeoDict - in this case the license is only installed for you, and each user has to install the license for himself.

✓ Installation as User

Start GeoDict and open the **GeoDict License** dialog. The dialog opens automatically if no license is installed yet. Or open the dialog from the main menu bar by selecting **File** → **Choose License File...**

This time, check **Install License file** and click **Find License...**. In the opening **Select File** dialog box, select the received license file, and click **Open** to install the license.



Back in the **GeoDict License** dialog box, keep **Set license as default** checked, so that GeoDict starts immediately when clicking its icon once the license is installed. If checked, GeoDict will copy the license file into the users' home directory into the folder `C:\Users\username\GeoDict2026\License\`. If unchecked, it would be necessary to click **Find License...** and to repeat the process of finding the license every time you start GeoDict.

After finding and loading the license, the license information is updated to reflect the **Status: Valid**, the license **Expiry Date**, the **Type** of license, the **License Owner**, its

Description, the license **File Name**, and the path to the **Location** of the installed license.

The [GeoDict License Agreement](#)^[40] appears. After accepting and clicking **OK**, a message confirms that the license was installed successfully. Click **OK** to close the message. The complete GeoDict GUI appears automatically, and you are all set to work with GeoDict.

✓ Installation as Administrator

The GeoDict installation folder (C:\Program Files\Math2Market GmbH\GeoDict 2026 by default) contains an empty folder **License**.

To install a GeoDict license for all users, put the received license into this folder. Afterwards, the license is automatically installed for all users. Make sure that only one license file (*.glic) is present in this folder. If multiple license files are present in this folder a warning appears when GeoDict is started and the user will have to select a license file manually.

A user may override this behavior and manually select and install another license file as described in the section [Installation as User](#)^[26]. If the user selects **Set license as default**, this manually selected license will be copied to his GeoDict settings folder c: \Users\username\GeoDict2026\License\.

Afterwards, this license will be used. Any license file in the installation folder will be ignored for as long as a valid license is present in the local users' settings folder.

1.5.3 Request a Floating License

Before you can request a floating license, you have to [install the floating license server](#)^[18]. To create a license for the RLM server, Math2Market requires the following information about the server and its host:

- The IP address and hostname of the server.
- The IP port used by the license server (by default, the RLM license server will use the IP port 5053 for communication with GeoDict and 5054 for the web interface.)
- The host ID used by RLM to identify the server.

To provide these information, you have two options.

✓ Option 1: collect information through the provided script

To collect this information automatically, you can run one of the scripts provided.

In Windows, run getid.bat:

```
PS C:\UserGuide\RLM17> .\getid.bat
Please wait, gathering information...
Wrote hostid.txt. Please send this file to math2market to receive a GeoDict license for your RLM server.
PS C:\UserGuide\RLM17> |
```

In Linux, run getid.sh.

Both scripts will create a file named hostid.txt, containing the information required to create a floating license. Please send this file to support@math2market.de to receive a floating license.

✓ Option 2: collect information by server screenshot

In this case, the simplest way to collect the server information is to open the web interface of the RLM server and click on the user symbol at the top right to open the drop down menu. There, select System Info, and make a screenshot of the web page shown:

The screenshot shows the Reprise Software web interface. At the top, there is a navigation bar with links: Home, Activate, Diagnostic, and Documentation. A user profile icon is in the top right corner, with a dropdown menu open showing options: Settings, Change Password, System Info (highlighted with a mouse cursor), About, and Logout. The main content area is titled "RLM Info for System: LaptopJB2". It contains two panels: "Platform" showing "x64_w4" and "Version: 17.0BL1", and "Hostids" showing "Disk Serial Number", "32-bit", "Ethernet", and "IP Address". Below this, a section titled "RLM processes running on this machine (in the last 24 hours)" displays three process cards with details like Version, PID, Port, Web Port, Alt Port, ISV(s), Command, and Working Directory.

Please send this screenshot to support@math2market.de to receive a floating license.

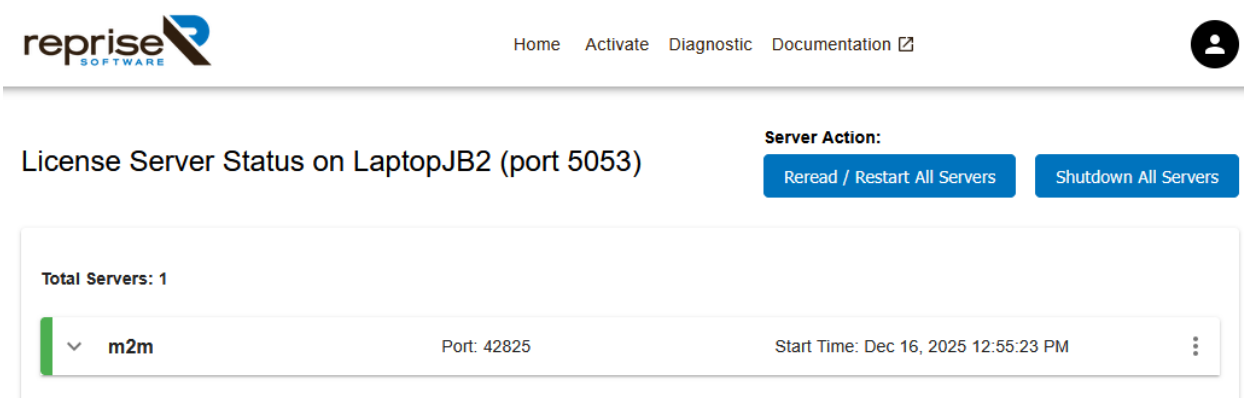
A reply e-mail is sent with two license files (*.glic and *.lic) attached. Install the license files as described on the [next page](#)³⁰.

1.5.4 Install a Floating License

After emailing the server information (either the hostid.txt file or a screenshot of the System Info page) to support@math2market.de, two license files are sent from Math2Market: a *.glic license file, used to operate GeoDict, and a *.lic license file, used to operate the RLM Server.

First, install the .lic file on the RLM server. For this, copy the received *.lic file into the folder where RLM searches for the license. If you have installed the RLM server as a service, this is the folder that you specified with the -c option when installing the server. If no folder was specified during the server installation, place the *.lic file in the folder that contains the `rlm` executable and the ISV server file (`m2m.set`).

To import the license, you now have to restart the ISV server. Do this by selecting **Reread/Restart All Servers** in the menu of the RLM web interface, or open the menu of the **m2m** ISV server and select the **Reread/Restart Server** option.



reprise SOFTWARE

Home Activate Diagnostic Documentation

License Server Status on LaptopJB2 (port 5053)

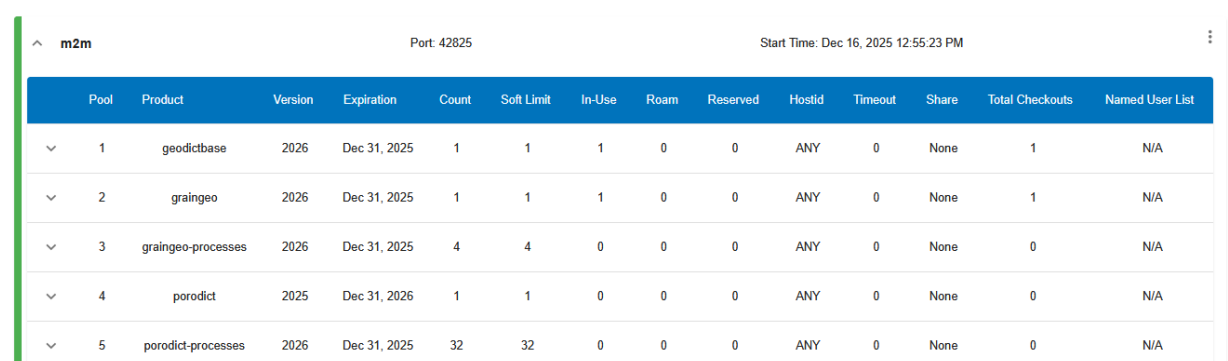
Server Action:

Reread / Restart All Servers Shutdown All Servers

Total Servers: 1

▼ m2m Port: 42825 Start Time: Dec 16, 2025 12:55:23 PM

Expand the m2m ISV server and check that the new licenses are shown in the list below. All licenses contained in the license file are listed here. Check that the amount of licenses, the version and the expiry date are as expected.



Pool	Product	Version	Expiration	Count	Soft Limit	In-Use	Roam	Reserved	Hostid	Timeout	Share	Total Checkouts	Named User List
1	geodictbase	2026	Dec 31, 2025	1	1	1	0	0	ANY	0	None	1	N/A
2	graingeo	2026	Dec 31, 2025	1	1	1	0	0	ANY	0	None	1	N/A
3	graingeo-processes	2026	Dec 31, 2025	4	4	0	0	0	ANY	0	None	0	N/A
4	porodict	2025	Dec 31, 2026	1	1	0	0	0	ANY	0	None	0	N/A
5	porodict-processes	2026	Dec 31, 2025	32	32	0	0	0	ANY	0	None	0	N/A

Afterwards, install the .glic file for GeoDict as described for [node-locked licenses](#)²⁶.

The .glic file is an encrypted file. Besides other information, it contains the address (hostname or IP and port number) under which the GeoDict client will find the RLM license server.

Therefore, it is not possible to change the address or port number of the RLM license server after installation (it is possible to change the port number of the ISV server, though).

1.5.5 Install a License Hosted by M2M

Instead of using a RLM license server hosted by the user (or the user's company or organization), licenses may also be configured to use a license server hosted by M2M. This may be the case for

- trial licenses
- licenses for pay-per-use licensing models
- licenses for cloud computing

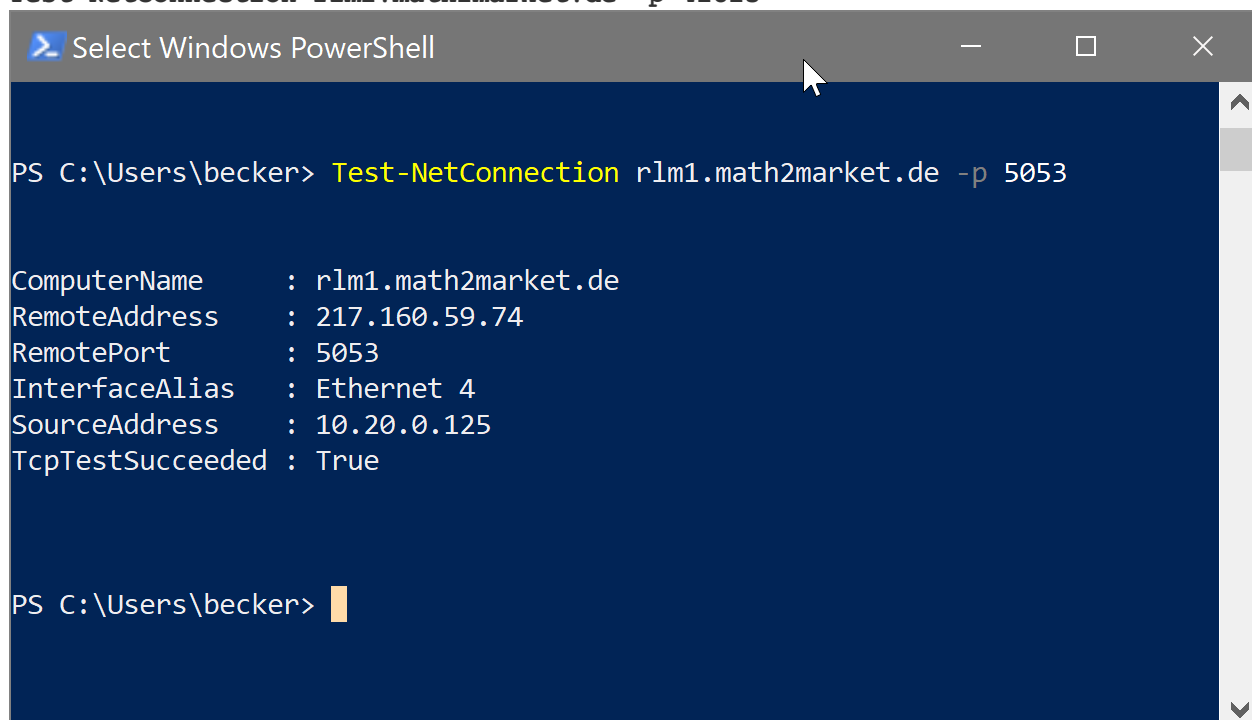
Also, M2M may host floating licenses on their server upon customer request.

In this case, a single *.glic license files from Math2Market is provided. Install the .glic file for GeoDict as described for [node-locked licenses](#) ²⁶.

The .glic file is an encrypted file. Besides other information, it contains the address under which the GeoDict client will find M2M's license server and a specific key which identifies the user and gives him access to a specific license on the web server which is not accessible to other users. Therefore, any firewall active on the computer or domain where GeoDict is installed, has to allow the geodict.exe executable to access both servers rlm1.math2market.de and rlm2.math2market.de through TCP/IP ports 5053 and 42825.

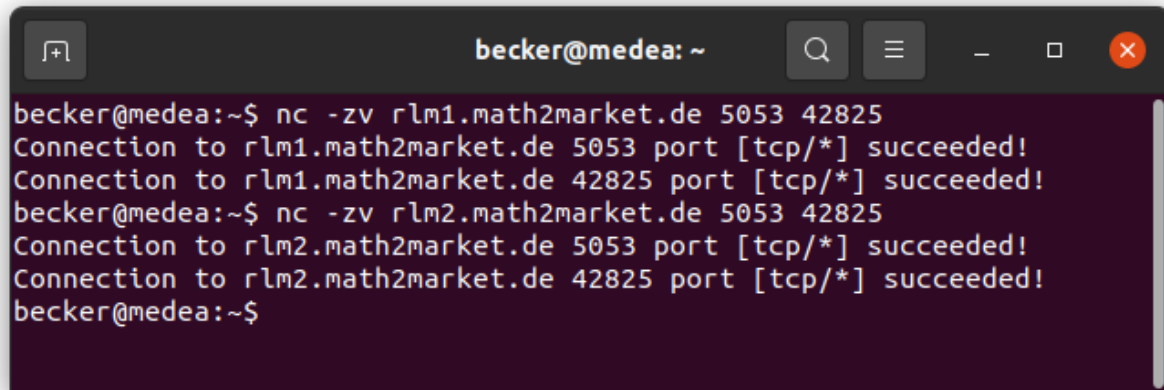
To test the access to the M2M license server under Windows run in the power shell:

```
Test-NetConnection rlm1.math2market.de -p 5053
Test-NetConnection rlm1.math2market.de -p 42825
Test-NetConnection rlm2.math2market.de -p 5053
Test-NetConnection rlm2.math2market.de -p 42825
```



To test the access to the M2M license server under Linux run in a terminal:

```
nc -zv rlm1.math2market.de 5053 42825
nc -zv rlm2.math2market.de 5053 42825
```

A terminal window titled 'becker@medea: ~' with standard window controls. The terminal output shows two successful connections to the license server. The first connection is to rlm1.math2market.de on ports 5053 and 42825, both succeeding. The second connection is to rlm2.math2market.de on ports 5053 and 42825, also succeeding. The prompt 'becker@medea:~\$' is visible at the end of each command line.

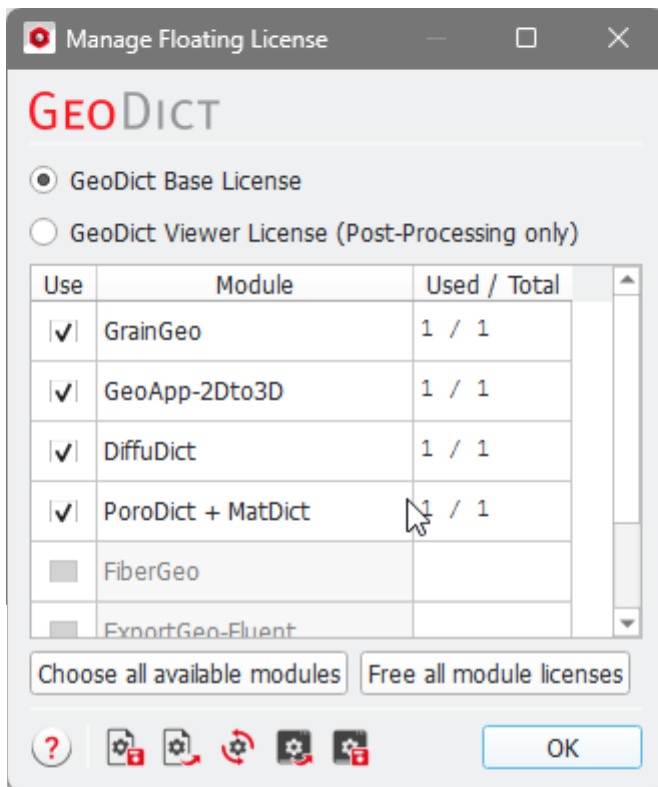
```
becker@medea:~$ nc -zv rlm1.math2market.de 5053 42825
Connection to rlm1.math2market.de 5053 port [tcp/*] succeeded!
Connection to rlm1.math2market.de 42825 port [tcp/*] succeeded!
becker@medea:~$ nc -zv rlm2.math2market.de 5053 42825
Connection to rlm2.math2market.de 5053 port [tcp/*] succeeded!
Connection to rlm2.math2market.de 42825 port [tcp/*] succeeded!
becker@medea:~$
```

In this licensing model, GeoDict cannot run if there is no internet connection or if the communication between GeoDict and the license server is blocked in any way. Be aware that the license server logs the usage of each license and can create detailed usage reports (as is a requirement to bill customers based on the usage of their license).

1.5.6 Use the Floating License

A floating license contains individual licenses for the GeoDict-Base and for each purchased GeoDict module. To run GeoDict, a user requires one GeoDict-Base license. To use a GeoDict module, one license of this module is needed.

When a floating license is installed, the **Manage Floating License** dialog appears:



In this dialog, you may choose between a **GeoDict Base License** and a **GeoDict Viewer License**, which allows only to visualize and post-process structures and result files. When **GeoDict Base License** is selected, choose the modules you want to use.

By default, all modules for which a license is available are chosen. Uncheck all modules that you do not plan to use in this session. These modules will stay free for others to use. Click **OK** when you have made your choice.

You may open the **Manage Floating License** dialog anytime later and change your choice of modules. The dialog can be opened by choosing **File → Manage Floating License...** in the main menu.

A single license allows to open multiple GeoDict user interfaces (GUI) in one session on the same computer.

✓ How to release unused licenses during GeoDict computations

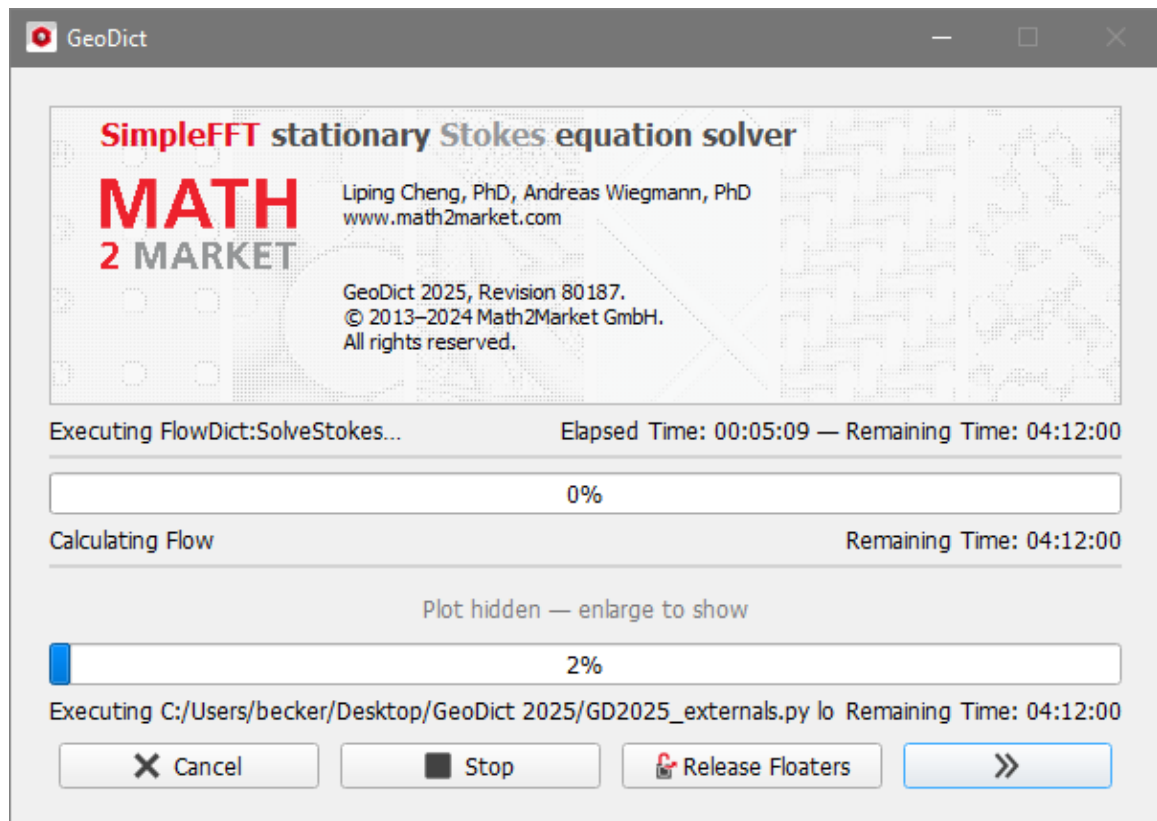
While GeoDict runs, a GeoDict Base license is always required. To have access to each module's section and settings dialogs, a license of the respective module is also required.

While a (parallel) computation runs, the respective number of licenses for the parallel processes are required. For example, a FlowDict computation using 8 parallel processes will require 8 "FlowDict-Processes" licenses. If the computation is started from the graphical user interface of GeoDict, the user interface is blocked during the computation. It is possible to free all module licenses except the needed ones before

starting the computation such that other users may take them as described above. However, this step is inconvenient to do and often forgotten.

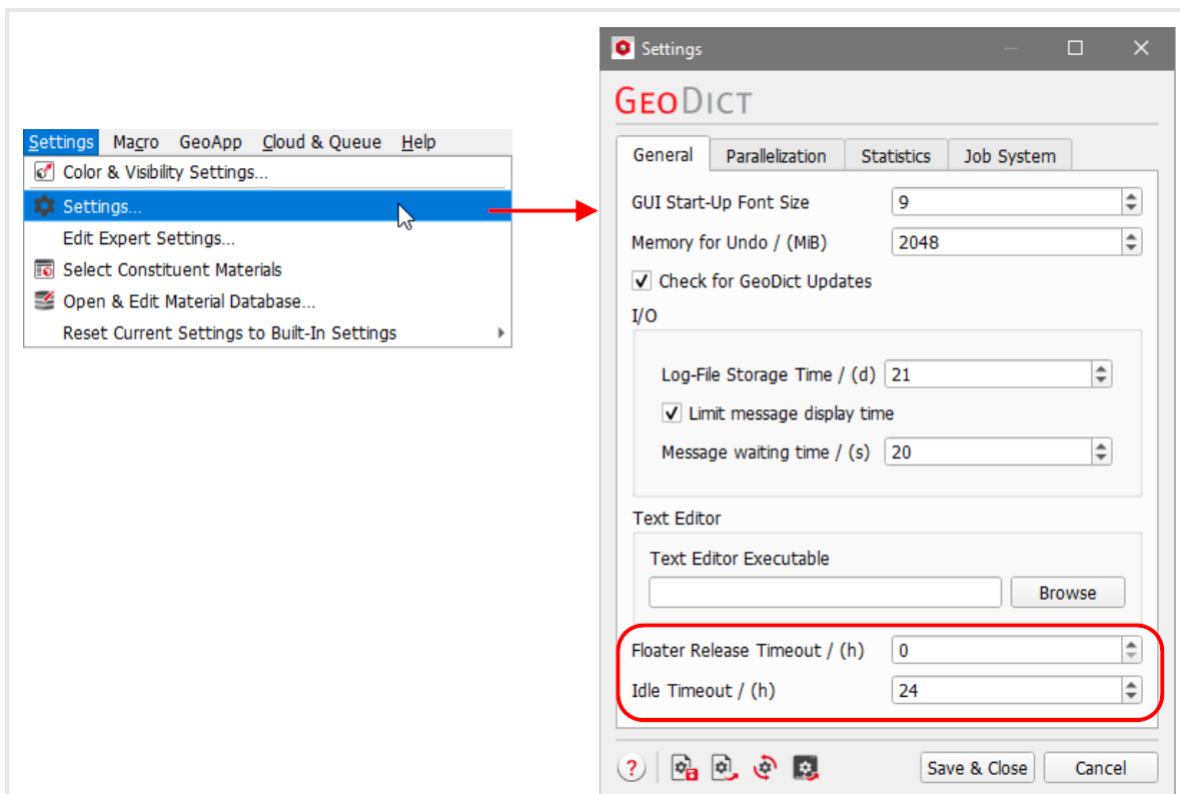
Therefore, GeoDict offers the possibility to free all unused modules while a computation runs:

All progress bar windows contain a button **Release Floaters**. Click on this button to return all module licenses held by this instance of GeoDict that are not in use for this computation.



Be aware that this means that after the computation has finished the respective module sections will no longer be available in this GeoDict instance and you have to lock them again through the **Manage Floating License** dialog as described above.

It is also possible to set up GeoDict such that the floaters are automatically released after a certain time. Select **Settings** → **Settings...** in the main menu.



In the dialog, you may set the **Floater Release Timeout**. The given time interval (in hours) determines after which runtime of a process unused floaters will be released (the behavior is identical to clicking on the Release Floaters button). A value of 0 switches off this feature. Do not forget to click on the **Set current settings as startup settings** button to store these settings afterwards.

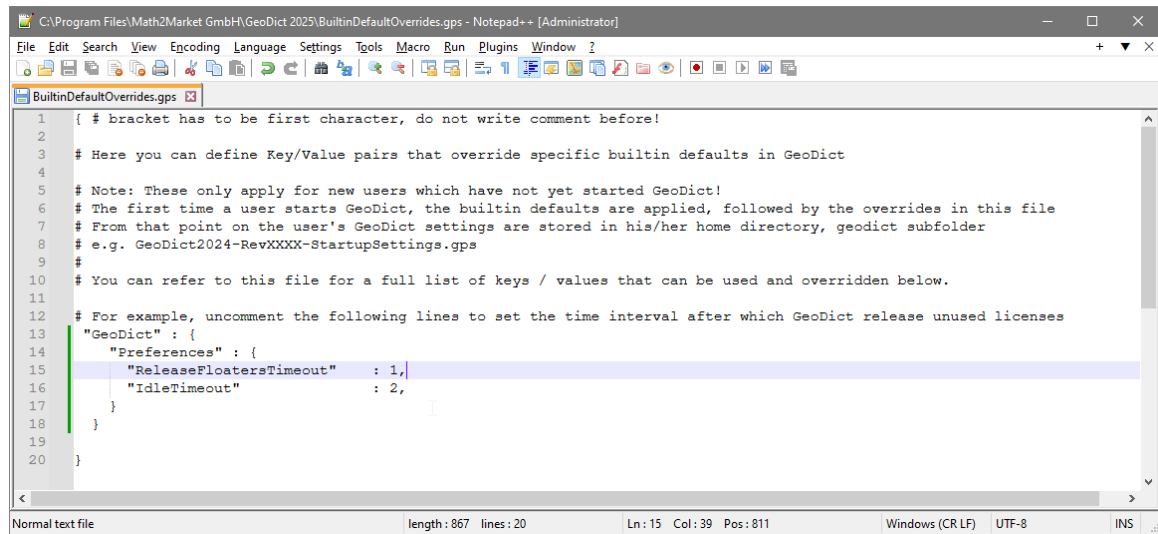
It may easily happen that users forget to close GeoDict after they have finished using the software. In these cases, the GeoDict executable continues to block a license, even if it does not do any computations. Therefore, it makes sense to define an **Idle Timeout**. The given time interval (in hours) determines after which idle time (i.e., no running computation and no user interaction with the software) GeoDict will release all licenses to the server. A value of 0 switches off this feature.

When GeoDict automatically gives back the license it does not close. Unsaved data is therefore not lost. Rather, GeoDict displays a blocking pop-up window that lets you reacquire the license and continue to work anytime later.

✓ How to define default license settings for your organization (as administrator)

It is possible to change the default values of the **Floater Release Timeout** and the **Idle Timeout** for all GeoDict users. For this, an administrator has to set these values in c: \Program Files\Math2Market GmbH\GeoDict 2026\BuiltinDefaultOverrides.gps. In this file, it is possible to override the default values selected by Math2Market to your own company's defaults. The example file already contains the lines needed as a commented-out example how to use the file.

Remove the # characters and set the values of the **ReleaseFloatersTimeout** and **IdleTimeout** keys as desired.



```
1 { # bracket has to be first character, do not write comment before!
2
3 # Here you can define Key/Value pairs that override specific builtin defaults in GeoDict
4
5 # Note: These only apply for new users which have not yet started GeoDict!
6 # The first time a user starts GeoDict, the builtin defaults are applied, followed by the overrides in this file
7 # From that point on the user's GeoDict settings are stored in his/her home directory, geodict subfolder
8 # e.g. GeoDict2024-RevXXXX-StartupSettings.gps
9 #
10 # You can refer to this file for a full list of keys / values that can be used and overridden below.
11
12 # For example, uncomment the following lines to set the time interval after which GeoDict release unused licenses
13 "GeoDict" : {
14     "Preferences" : {
15         "ReleaseFloatersTimeout" : 1,
16         "IdleTimeout" : 2,
17     }
18 }
19
20 }
```

Normal text file length: 867 lines: 20 Ln: 15 Col: 39 Pos: 811 Windows (CR LF) UTF-8 INS

1.6 Licensing Error Messages

GeoDict may not recognize the license file and give one of the following error messages:

License error: You cannot run two different GeoDict versions simultaneously on the same host with your license.

Reason: Another GeoDict version is currently running on this host, possibly by another user.

Solution: Make sure all other GeoDict instances are closed before installing the license. If you have multiple floating licenses available, and need to use different GeoDict versions simultaneously, ask support@math2market.de to provide a license that allows simultaneous usage of different versions on the same host.

License error: corrupt

Reason: The chosen file is not a GeoDict license file, or the license file has been modified. This might happen if GeoDict and your e-mail program are used on different operating systems, and a transfer program has changed line ends when saving or moving the .lic file.

Solution: Make sure that the license file is the original file delivered by Math2Market GmbH.

License error: expired / License error: license period has not started yet

Reason: The license is used outside of its licensed time period.

Solution: Contact support@math2market.de to receive a new license file.

License error: -1744 (Wrong GeoDict version or revision)

Reason: This license is either valid for another version of GeoDict or you need to install a newer Service Pack of your current version.

Solution: Download the correct version of GeoDict for the license file.

License error: -1701 (or another number)

Reason: Modifications to the computer hardware have resulted in the license file to become invalid for the computer. Node-locked license files are issued for a specific computer and configuration.

Solution: Contact support@math2market.de with any questions and, if asked to do so, send a newly generated GeoDict License Request (.glr) file following the procedure outlined [here](#)²⁴.

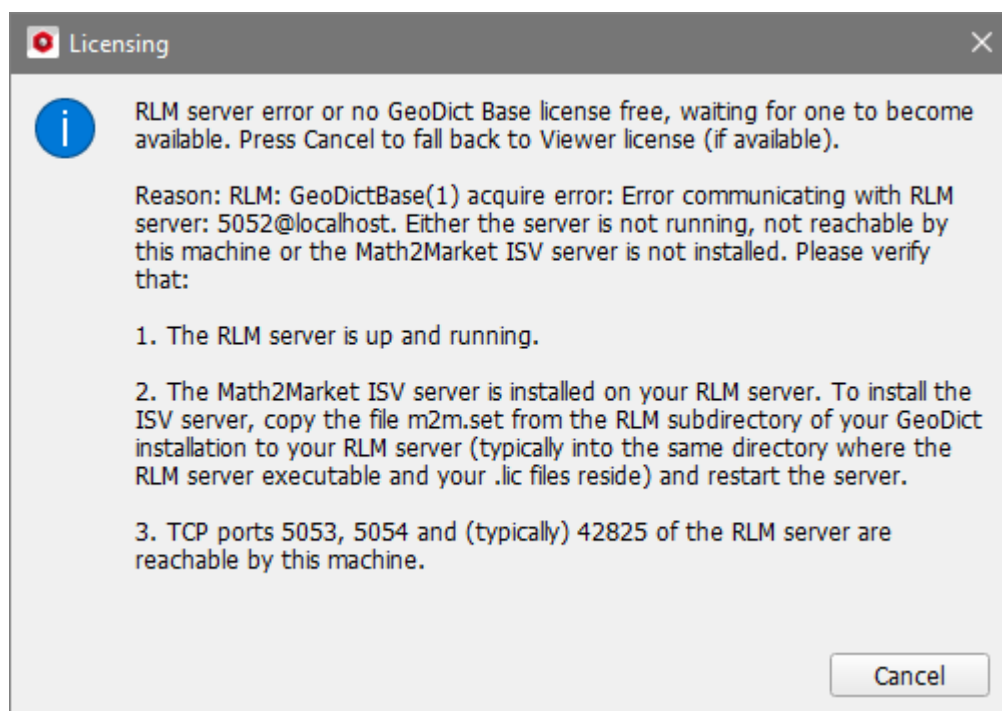
RLM: acquire error: Bad RLM server host name

Reason: GeoDict cannot connect to the given hostname.

Solution: Check whether the floating license server is set up correctly as described below.

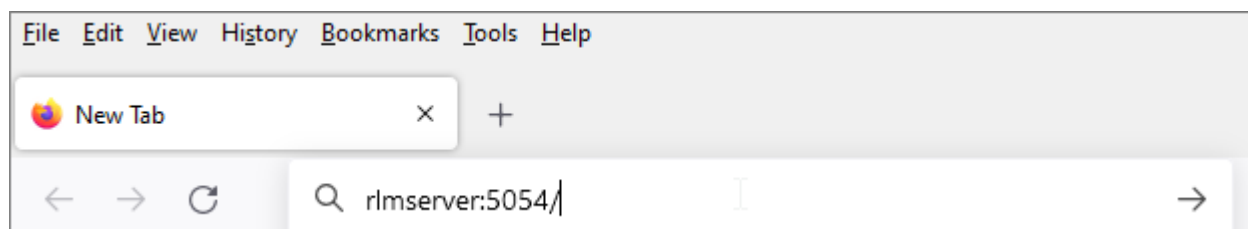
RLM: <License> acquire error: Error communicating with RLM server

Reason: GeoDict cannot find or cannot connect to the floating license server.



Solution: Check whether the floating license server is set up correctly, as follows:

1. Open a web browser on the computer where GeoDict is installed.
2. Enter the IP address (or hostname) and web interface port number of the license server (use your own IP address and web interface port number instead of rlmserver:5054).



If the license server is reachable, the license server's web interface will appear. If the web interface does not appear,

- a. make sure that the license server is running,
- b. check if the firewall settings prevent access of the server,

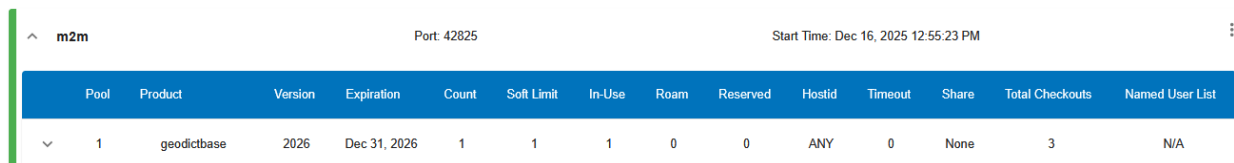
c. make sure to use the correct server address and port number.

If the web interface appears, click on the **Status** button and check that

a. the RLM software version is 14 or higher,

b. the **m2m** ISV Server is running,

c. and at least one **geodictbase** license is listed.



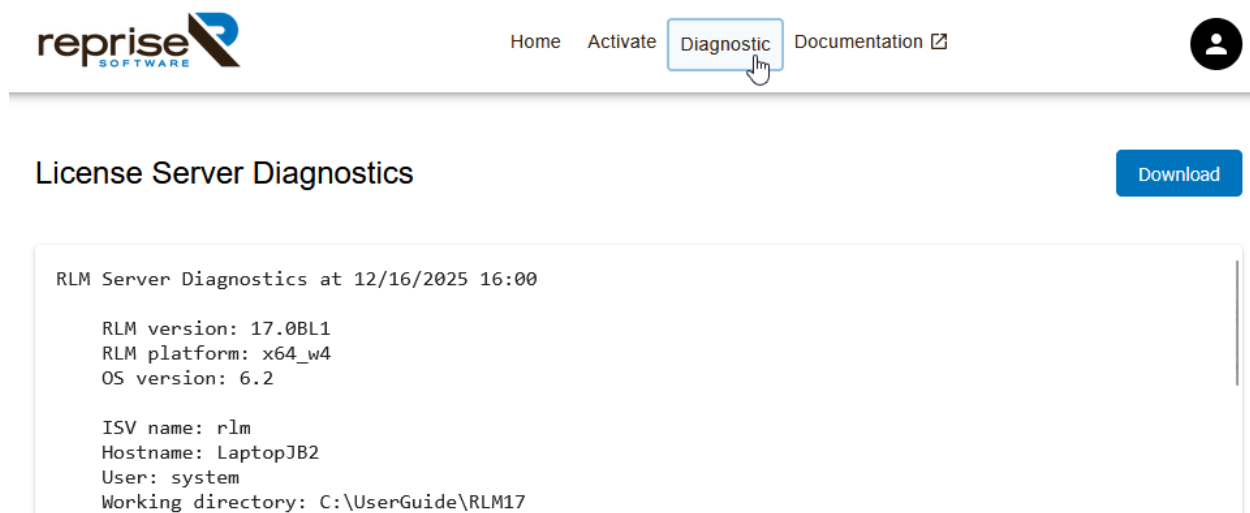
The screenshot shows the m2m web interface. At the top, it says 'm2m', 'Port: 42825', and 'Start Time: Dec 16, 2025 12:55:23 PM'. Below this is a table with the following columns: Pool, Product, Version, Expiration, Count, Soft Limit, In-Use, Roam, Reserved, Hostid, Timeout, Share, Total Checkouts, and Named User List. The table contains one row with the following data: Pool: 1, Product: geodictbase, Version: 2026, Expiration: Dec 31, 2026, Count: 1, Soft Limit: 1, In-Use: 1, Roam: 0, Reserved: 0, Hostid: ANY, Timeout: 0, Share: None, Total Checkouts: 3, and Named User List: N/A.

Pool	Product	Version	Expiration	Count	Soft Limit	In-Use	Roam	Reserved	Hostid	Timeout	Share	Total Checkouts	Named User List
1	geodictbase	2026	Dec 31, 2026	1	1	1	0	0	ANY	0	None	3	N/A

If everything is ok on the RLM server, and GeoDict still does not run, most likely the server address encrypted in the .glic file is not correct (e.g., because the port number was changed after the license file was requested). Inform support@math2market.de about the correct server address and port number. The information can be found on the [System Info](#) page of the server.

None of the above messages, but the RLM floating license does not work

Licensing requires communication between the GeoDict executable and the rlm executable over the local network, and various reasons may cause this to fail. To enable our support team to quickly track the problem, you can create a **License Server Diagnostics** file by clicking first on the **Diagnostic** button and then on **Download** to save the file. Please send this file to support@math2market.de together with a short description of the issue.



The screenshot shows the Reprise Software web interface. At the top, there is a navigation bar with the Reprise Software logo, and links for Home, Activate, Diagnostic (highlighted with a mouse cursor), and Documentation. A user profile icon is visible on the right. Below the navigation bar, the page title is 'License Server Diagnostics'. On the right side of this section is a blue 'Download' button. The main content area displays the following text:

```
RLM Server Diagnostics at 12/16/2025 16:00

RLM version: 17.0BL1
RLM platform: x64_w4
OS version: 6.2

ISV name: rlm
Hostname: LaptopJB2
User: system
Working directory: C:\UserGuide\RLM17
```

1.7 GeoDict Software License Agreement

between

Math2Market GmbH, Huberstr. 7, 67657 Kaiserslautern, Germany (the LICENSOR)

and You (the LICENSEE).

1. DEFINITIONS:

1.1 LICENSED SOFTWARE: GeoDict as installed by the downloaded installer program. The software package comprises of executable programs, example images, example movies, scripts, spreadsheets and library files.

1.2 LICENSED MODULES: The functionality and features of GeoDict made accessible via the provided license key and specified in LICENSOR's GeoDict PRODUCT OFFER. This offer has been accepted by LICENSEE and integrates this License Agreement as an integral part.

1.3 PRODUCT: The LICENSED SOFTWARE/LICENSED MODULES both are referred to in short as PRODUCT.

1.4 DOCUMENTATION: The GeoDict User's guide and other explanatory materials accompanying the PRODUCT in electronic form and being retrievable on LICENSOR's website.

2. OWNERSHIP / INTELLECTUAL PROPERTY RIGHTS

2.1 LICENSEE acknowledges that ownership and all intellectual property rights related to the PRODUCT and to the DOCUMENTATION, including patents, copyright, company or trade secrets, and, in particular, the trademark GeoDict, remain with the LICENSOR.

2.2 LICENSEE promises to keep and not to modify the copyright and trademark notices of the LICENSOR.

3. SCOPE OF LICENSE

3.1 LICENSOR grants to LICENSEE a non-exclusive, non-transferable and non-sublicensable right to use the PRODUCT. The contractual use includes the installation as well as the loading, displaying and running of the installed Software.

3.2 The PRODUCT can only be installed on Windows and Linux operating systems. LICENSEE is responsible for providing the system environment in accordance with the system requirements set forth in the DOCUMENTATION

3.3 Without LICENSOR'S prior written permission, LICENSEE may not

- rent or lease the PRODUCT and DOCUMENTATION to any third party;
- make the PRODUCT and DOCUMENTATION available in whole or in part to any third party.
- modify, adapt, or translate the PRODUCT in whole or in part;

- reverse engineer, decompile, or disassemble the PRODUCT;
- create software with substantially identical functionality as the PRODUCT;
- distribute a computer program to any third party that consists of a neural network or any AI technology which has been trained using data (e.g., 3D structure models, computational results) generated with the PRODUCT.;

4. LICENSE TYPE

The PRODUCT OFFER specifies the license to be either COMMERCIAL, NPO or ACADEMIC.

4.1. A COMMERCIAL license allows the LICENSEE a commercial use of the PRODUCT.

4.2. A NPO license is granted to LICENSEES qualifying as non-profit (research) organization and allows for a commercial use of the PRODUCT.

4.3. An ACADEMIC license is granted to academic institutions under the following restriction of use:

- The PRODUCT may only be used in the context of the LICENSEE's strict scientific or academic educational work. Only work whose goal is advancing knowledge and technology on a non-profit basis is academic research. Any other use for or by -- including but not limited to -- private, public or governmental bodies is not allowed. In particular, any direct or indirect commercial use, such as but not limited to providing consulting services is not allowed.
- LICENSEE shall make reference to the PRODUCT and to the trademark GeoDict in all of its publications and other dissemination activities relating to the use or to the results achieved by the use of the PRODUCT.

4.4. The scope of the ACADEMIC license can be upgraded upon request to a temporary NPO LICENSE. For this period the license agreement of the NPO LICENSE applies. The cost for this upgrade is based on the difference between the NPO and the ACADEMIC LICENSE fee on a monthly basis.

4.5. LICENSOR may grant licenses of any type as TRIAL LICENCE to LICENSEE for a short time period. For such a TRIAL LICENCE, LICENSOR will select the appropriate licensed modules, the license mode ([§6](#)⁴²), the support type ([§5](#)⁴¹), the licensed users ([§7](#)⁴²), and the cloud access type ([§8](#)⁴³) at his own discretion. If the PRODUCT is provided free of charge for trial or evaluation purposes, the PRODUCT is provided strictly on an "as is" basis. LICENSOR shall have no obligation to provide support, maintenance, error correction, defect remedies or updates. Any liability is excluded to the maximum extent permitted by applicable law. A TRIAL LICENCE shall only be used by LICENSEE to evaluate the usefulness of the PRODUCT for LICENSEE's application case(s). In particular, LICENSEE shall not use results obtained with an TRIAL LICENSE for scientific or other publications. No consulting may be performed based on an TRIAL LICENCE, neither within LICENSEE's organization nor with third parties.

5. SUPPORT

The PRODUCT OFFER specifies the license to contain BASIC SUPPORT or PREMIUM SUPPORT for a specified SUPPORT PERIOD.

5.1 BASIC SUPPORT includes:

- Online access to the PRODUCT DOCUMENTATION, e.g., to user guide and tutorials
- LICENSEE's users get accounts at the GeoDict forum and may post questions in the forum.
- LICENSEE may report bugs via email to support@math2market.de.

5.2 PREMIUM SUPPORT additionally includes

- Telephone support during CET business hours (9am to 5pm).
- LICENSEE may ask questions through individual emails to support@math2market.de.

6. LICENSE MODE

The PRODUCT OFFER specifies the license to be either NODE-LOCKED or FLOATING

6.1 A NODE-LOCKED license allows one concurrent user to use the PRODUCT on a designated computer. To enable LICENSOR to create a license file, LICENSEE has to provide the requested information about the designated computer, typically in form of a license request file (*.glr) that LICENSEE generates with a copy of GeoDict on the designated computer. LICENSEE may not use the PRODUCT on any other but the designated computer.

6.2 A FLOATING license allows one concurrent user to use the PRODUCT. The PRODUCT may be installed on an unrestricted number of computers. The floating license server can either be installed locally by LICENSEE on a designated computer or LICENSEE may use a license server provided by LICENSOR and accessed through the internet. If installed locally, LICENSEE has to provide the requested hardware information about the designated license server to enable LICENSOR to create a license file.

6.3 LICENSOR will support the transfer of a node-locked license or a floating license server to another computer, if LICENSEE demonstrates the need for such a change. Such transfer will be free of charge during the SUPPORT PERIOD. After termination of the SUPPORT PERIOD, LICENSOR will support the transfer of a node-locked license or floating license server to another computer for three (3) years. LICENSOR will charge a transfer fee for such service. The transfer of a node-locked license or floating license to another computer will not be supported if the SUPPORT PERIOD terminated more than three (3) years ago.

7. LICENSED USERS

The PRODUCT OFFER specifies the license to be SINGLE SITE or MULTIPLE SITES.

7.1 A SITE means LICENSEE'S physical and/or organizationally predefined location as specified in the PRODUCT OFFER.

7.2 Only users employed by LICENSEE at the specified SITE may use and access the PRODUCT.

7.3. Usage of a SINGLE SITE license is restricted to users employed at the single SITE specified in the PRODUCT OFFER. A MULTIPLE SITES license can be used by users employed at any specified SITE.

8. CLOUD ACCESS

The PRODUCT OFFER specifies the license to be ON PREMISES or CLOUD.

8.1 Under a ON PREMISES license, the PRODUCT may only be installed on computers in the LICENSEE'S local area network at LICENSEE's specified SITE. LICENSEE may only use and access the PRODUCT within its local area network or via a secured routing tunnel (mobile office). LICENSEE may not use the PRODUCT on any other but the LICENSEE'S hardware.

8.2 Under a CLOUD license, LICENSEE may install and use the PRODUCT locally or on any real or virtual hardware made available to them through a cloud service provider.

9. SERVICE PACKS

9.1 SERVICE PACKS are updates that improve on the speed, correct errors, or extend the applicability of existing functionality. They also contain general bug fixes. A SERVICE PACK is in general forward and backward compatible to the previously released SERVICE PACK.

9.2 New SERVICE PACKS are generally delivered every one (1) to three (3) months at the discretion of LICENSOR.

9.3. LICENSOR recommends that LICENSEE downloads and installs all SERVICE PACKS released for it's PRODUCT version. The delivered PRODUCT license is valid also for the subsequently released SERVICE PACKs of the same PRODUCT version.

10. NEW VERSIONS (UPGRADES)

10.1 A new VERSION is an upgrade that improves the functionality of the PRODUCT. A new VERSION is in general backward compatible to a previously released VERSION.

10.2 New VERSIONS are generally released once per year at the discretion of LICENSOR.

10.3 The delivered PRODUCT license is not valid for the subsequently released VERSIONS. LICENSEE may upgrade to a new VERSION and LICENSOR will send a license for the new VERSION to LICENSEE for no additional cost during the SUPPORT PERIOD specified in the PRODUCT OFFER.

10.4 After termination of the SUPPORT PERIOD, LICENSEE is no longer entitled to upgrade to new VERSIONS.

11. LICENSE PERIOD

The PRODUCT OFFER specifies the license period to be either PERPETUAL or TIME-LIMITED.

11.1. For a TIME-LIMITED license, the delivered PRODUCT license will be valid for the LICENSING PERIOD specified in the PRODUCT OFFER.

11.2. For a PERPETUAL license, the initially delivered PRODUCT license file will be valid for one year. LICENSOR will renew the license file annually to ensure that LICENSEE can continue to use the PRODUCT or provide a license file to LICENSEE that does not expire.

11.3 The LICENSING PERIOD may exceed the SUPPORT PERIOD. The SUPPORT PERIOD is never perpetual.

12. EXPIRATION

12.1 After expiration of the LICENSE PERIOD, LICENSEE can no longer use the PRODUCT.

12.2. After expiration of the SUPPORT PERIOD, LICENSEE has no access to LICENSORS support services and has no access to new VERSIONS of the PRODUCT.

12.3 If the LICENSING PERIOD is PERPETUAL, and the SUPPORT PERIOD is expired, LICENSEE may continue to use the licensed PRODUCT VERSION without access to support or new VERSIONS. LICENSOR will provide access to installation files for this PRODUCT VERSION and this operating system version for three (3) years after termination of the last SUPPORT PERIOD. LICENSOR is neither responsible and/or liable for, nor guarantees the functionality of this PRODUCT VERSION after any upgrade of the operating system version.

13. AUTO-RENEWAL

13.1 An automatic renewal of LICENSE PERIOD and SUPPORT PERIOD may be offered by LICENSOR in the PRODUCT OFFER. If the LICENSING PERIOD is already PERPETUAL, the AUTO-RENEWAL will only cover the SUPPORT PERIOD.

13.2 For AUTO-RENEWAL contracts, the PRODUCT OFFER specifies the MINIMUM CONTRACT DURATION.

13.3. During the MINIMUM CONTRACT DURATION, LICENSOR will offer its services at the price agreed on in the PRODUCT OFFER.

13.4. After the MINIMUM CONTRACT DURATION, the subscription shall be subject to automatic extension for one additional year periods every year unless either party shall give written notice of termination to the other not less than fifty (50) days prior to the end of the MINIMUM CONTRACT DURATION or any extension.

13.5 After the MINIMUM CONTRACT DURATION, LICENSOR may increase the subscription price. Such price increase must be communicated to LICENSEE not less than fifty (50) days before the price increase applies. Upon being notified of a price increase, LICENSEE has a right to terminate the subscription within thirty (30) days.

14. RIGHTS IN CASE OF DEFECTS (BUGS)

14.1 LICENSOR warrants that the PRODUCT substantially meets the functionality described in the DOCUMENTATION.

14.2 If LICENSEE observes a defect, LICENSEE notifies LICENSOR in writing with a comprehensible description of the error symptoms. The notification of the defect should enable the reproduction of the error.

14.3 Upon notification of a defect, LICENSOR will try to reproduce the error and notify LICENSEE of possible work-arounds. LICENSOR will attempt to fix the defect within a reasonable time frame. LICENSEE will be notified when the error is corrected. Upon this notice, LICENSEE has the option to immediately download a corrected version or to get the correction delivered within the next SERVICE PACK.

14.4 If the defect is not cured within a first-time limit and LICENSEE has set LICENSOR a reasonable second time limit without success or if a reasonable number of attempts to remedy, replacement deliveries or replacement services are unsuccessful, then LICENSEE may, subject to the statutory requirements at its option withdraw from this Agreement or reduce the price and claim damages or reimbursement of costs.

14.5 Rights in case of defects shall be excluded in the case of minor or immaterial deviations from the agreed or assumed characteristics or in the case of just slight impairment of use.

14.6 LICENSEE's rights in case of defects are limited to the duration of the SUPPORT PERIOD. After expiration of the SUPPORT PERIOD; LICENSEE is nevertheless still entitled to download and install SERVICE PACKS generally provided by LICENSOR.

15. RIGHTS IN CASE OF DEFECTS IN TITLE (INFRINGEMENT)

15.1 To the best of LICENSORS knowledge, the PRODUCT is free from the rights of third parties which prevent the use in accordance with this Agreement. If third parties are entitled to such rights and they pursue these, then LICENSOR shall do everything in its power, in order to defend the software at its own expense against the third-party rights claimed. LICENSEE shall inform LICENSOR in writing without delay of the claiming of such rights by third parties and shall give LICENSOR all powers of attorney and authorisations which are necessary in order to defend the software against the third-party rights claimed.

15.2 To the extent that there are defects in title, LICENSOR is (a) entitled at its option to either (i) take legitimate measures to remove the third party rights, which impair the contractual use of the PRODUCT, or (ii) remedy the enforcement of such claims, or (iii) change or replace the PRODUCT in such manner, that it no longer infringes the rights of third parties, provided and to the extent that this does not substantially impair the warranted functionality of the PRODUCT, and (b) under an obligation to reimburse LICENSEE for its necessary refundable costs incurred in the enforcement of legal claims. The aforementioned entitlement under item (iii) generally applies to single features of integrated modules into the PRODUCT, unless the single feature forms an essential part of the PRODUCT for LICENSEE, which needs to be adequately demonstrated by LICENSEE. In this case, there exists a right to terminate the contract for both parties.

15.3 If an indemnification under section 15.2 fails within a reasonable time limit set by LICENSEE, the LICENSEE may, at its option and subject to statutory prerequisites, terminate the contract or reduce the purchase price and demand compensation for damages, which are limited to the license amount actually paid by LICENSEE.

16. LIMITED WARRANTY AND LIABILITY

16.1 LICENSOR's entire warranty and liability shall be effective for a period of one (1) year from the date of delivery of the PRODUCT and shall be, at LICENSOR's option, either return of the license fee paid or repair or replacement of the PRODUCT and DOCUMENTATION.

16.2 The above warranty and liability provisions are the only ones and there are no other warranties and/or liabilities, including but not limited to implied warranties of merchantability or fitness for a particular purpose. The warranty and liability are void if a defect results from accident, abuse or manipulation. LICENSOR shall not be liable for damages resulting from the use of or the inability to use the PRODUCT or DOCUMENTATION. LICENSOR's liability is restricted to the license amount actually paid by LICENSEE.

16.3 Notwithstanding sections 16.1 and 16.2, the liability of the LICENSOR, its legal representatives and employees resulting from breach of duty or tort is restricted to damages caused intentionally or by gross negligence. In case of infringement of obligations, which are essential for this GeoDict Software License agreement, the LICENSOR, its legal representatives and employees are also liable for slight negligence. In any case, the liability is limited by typical, foreseeable, direct damages. The liability is unrestricted for damages of the body, life or health and in cases caused intentionally or by gross negligence.

16.4 Any more extensive liability of LICENSOR is excluded on the merits.

17. TERMINATION

17.1 The Agreement may be terminated in writing by either party without notice for good cause. Good cause entitling the LICENSOR to terminate the Agreement shall exist in particular if the LICENSEE infringes the LICENSOR's rights of use by using the PRODUCT beyond the scope permitted under this Agreement and the PRODUCT OFFER and fails to remedy the infringement within a reasonable period of time following a warning by the LICENSOR.

17.2 In the event of termination, the LICENSEE shall cease using the PRODUCT and DOCUMENTATION and remove all installed copies of the program and/or license key(s) from its computers and, at the LICENSOR's option, immediately return any backup copies together with the license key(s) that may have been made to the LICENSOR or destroy them.

17.3 If the LICENSEE has acquired a fixed-term license for a multi-year period, the Agreement shall remain in force for the entire agreed license term. Ordinary termination prior to the expiration of such fixed term is excluded. LICENSEE remains obliged to pay the full license fee for the agreed term. The right to terminate this Agreement for good cause pursuant to 17.1. remains unaffected.

18. MISCELLANEOUS

18.1 The LICENSEE may transfer claims against the LICENSOR to third parties only with the LICENSOR's written consent.

18.2 The LICENSEE may only set off claims that are undisputed or have become res judicata.

18.3 The LICENSEE's general terms and conditions shall not apply.

18.4 LICENSEE shall not export, re-export, transfer or make the PRODUCT available, directly or indirectly, to any country, entity or person subject to embargoes or sanctions imposed by the EU, the United States or the United Nations. The PRODUCT shall not be used for prohibited military purposes or in connection with weapons of mass destruction. LICENSEE shall obtain, at its own expense, any required export or import licenses and shall provide LICENSOR, upon request, with all information necessary to comply with applicable export control laws.

18.5 This Software License Agreement in English is the original one. The terms of this Agreement can only be modified or amended in writing. This shall also apply to amendments of this written form requirement. In case of interpretation controversies, the terms of this Agreement shall prevail over the respective terms of any other agreements.

18.6 This Agreement is construed under the Law of the Federal Republic of Germany. Therefore, any and all controversies resulting from or out of this Agreement shall be resolved under the Law of the Federal Republic of Germany excluding the German International Private Law Rules. The application of the UN-Convention of the International Sales of Goods (CISG) is explicitly excluded. Exclusive venue of jurisdiction for both parties over all disputes under or in connection with this Agreement shall be Munich, Germany.

18.7 In case that one or several of the terms of this Agreement should be or become invalid or unenforceable, the validity of the other terms shall remain unaffected. In such a case, the parties shall be obliged to cooperate in replacing the invalid or unenforceable condition by another legally effective provision meeting the commercial purpose of the abolished provision to the greatest extent. The same applies in case of a gap of regulation.

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