



BricsCAD[®] Licensing Options

Single User & Network Installation Guide

Version 26

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Table of Contents

Installing BricsCAD

- Downloading BricsCAD
- Overview of installation options
- Interactive installation
- Silent Installation
- Installation process of Linux RPM package on KDE desktop environment

Working with Single-User Licenses

- New Online activation (Single-user license)
- New Offline/manual activation (Single-user license)

Upgrading Single-User Licenses

- Upgrading to the next BricsCAD version when having active maintenance (Single-user license)
- Upgrading BricsCAD or extending your subscription (Single-user license)

Working with Network Licenses

- About Network Licenses
- Setting up a Windows Network License Server
- Setting up a Linux License Server
- Online activation (Network license)
- Offline/manual activation (Network license)

Upgrading Network Licenses

- Upgrading to the next BricsCAD version when having active maintenance (Network license)
- Upgrading BricsCAD or extending your subscription (Network license)

Network License Administration

- Setup RLM Login
- Network License Administration
- Opening the web Interface
- Checking the license and server status
- Rereading the license / Restarting the server

Advanced Configurations

- Anti-virus
- Firewall
- Proxy Server

License Pooling

- About
- Editing the options
- Commonly used options
- License File Identifiers
- License pooling by RLM_PROJECT
- Network license usage report

Using a Network License on a Client Computer

- Activating on a client machine

Proxy Settings on a Client Computer

- Configuring the Proxy Settings on a Client Computer
- Configuring the Proxy Settings permanently for Network License use

Roam (check-out) a License

- Roaming a Network License on a Client Computer
- Returning a roamed Network License to the Server

Deactivating or Revoking a BricsCAD License

- Deactivating a License
- Revoking a License

Migrating Licenses

- Migrating a Single License to another computer
- Migrating a Network License to another server

Managing BricsCAD Licenses with Multiple Bricsys Accounts

Installing BricsCAD

Downloading BricsCAD

1. If you have not already done so, browse to the **Bricsys website**, register and log in.
 - Click the **Try BricsCAD for Free** button.
2. The **Download BricsCAD website** opens.
3. Select the platform, language, and version in the drop-down buttons below the **Download BricsCAD** button.

Note: By default, the most recent version is selected. If you click the drop-down arrow, you can choose an older release.

4. Click the **Download BricsCAD** button once the desired version and language are displayed in the button.

Overview of installation options

- BricsCAD comes as a single download file for all license levels.
- When you install a new BricsCAD version for the first time, you can run a 30-day trial mode.
- You can install each new major version next to a previous major version.

Interactive installation

In case of a normal (non-silent) installation, the user provides the necessary installation input via dialog boxes.

The user interface of Windows Installer queries the target system and displays Setup Wizard. Setup Wizard enables the user to change various options that affect the installation.

Silent installation

In case of a silent or quiet installation, the Setup Wizard user interface is disabled and the actions during the user interface sequence are not performed.

For Silent Installation, refer [here](#):

Installation process of Linux RPM package on KDE desktop environment

For Linux Installation, refer [here](#):

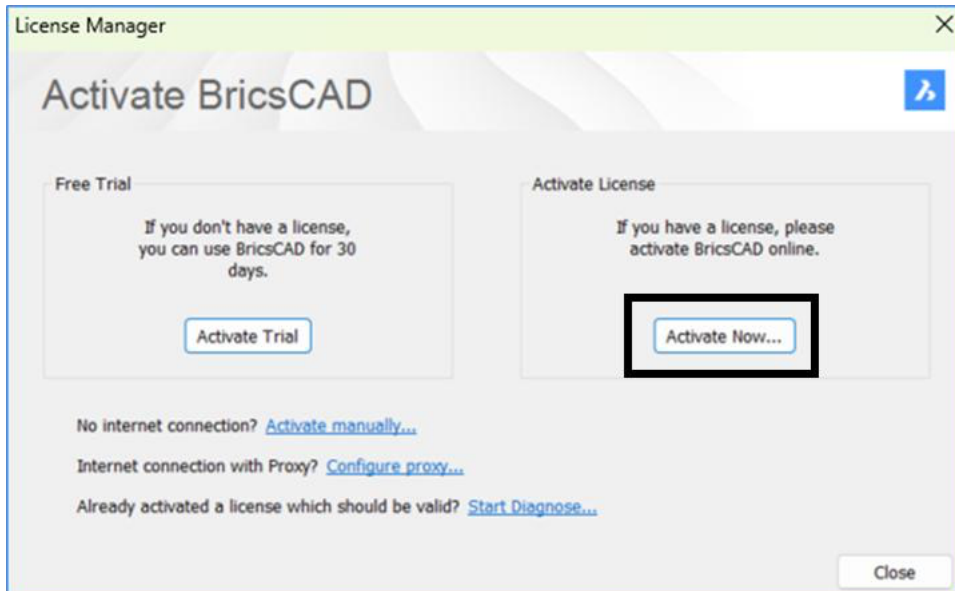
Working with Single-user licenses

New Online activation (Single-user license)

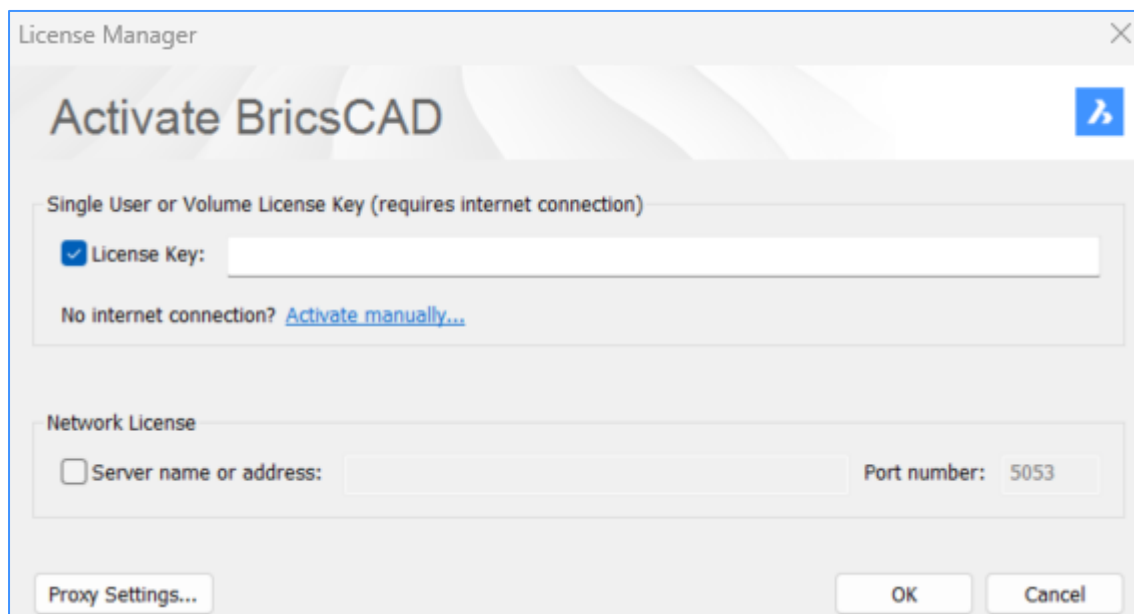
The BricsCAD license activation requires an internet connection.

Note: For online-activated licenses, deactivation and reactivation are unlimited.

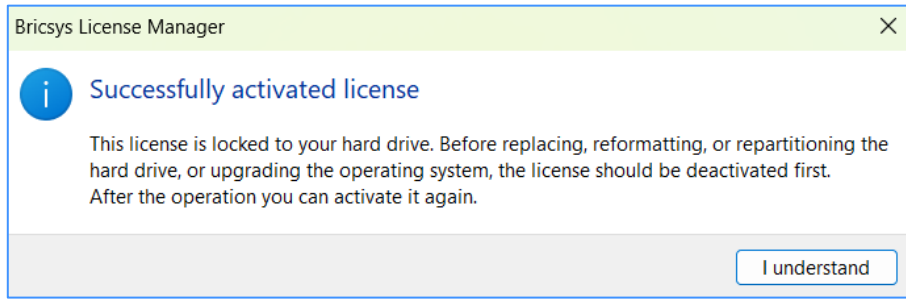
1. Launch BricsCAD.



Note: When your trial period has expired, click the **Activate** button in the **BricsCAD Launcher** dialog box, then click the **Activate Now...** button in the **License Manager > Activate BricsCAD** dialog box



2. Retrieve your key from the [My Licenses](#) section in your account. See also the [Where can I find my licenses?](#) article.
3. Paste your license key in the **License Key** field.
4. Click the **OK** button.
 - o Your license key is registered over the internet.
 - o A dialog displays when the license key is successfully activated.



5. Read the text in the dialog box and click the **I understand** button.

New Offline/manual activation (Single-user license)

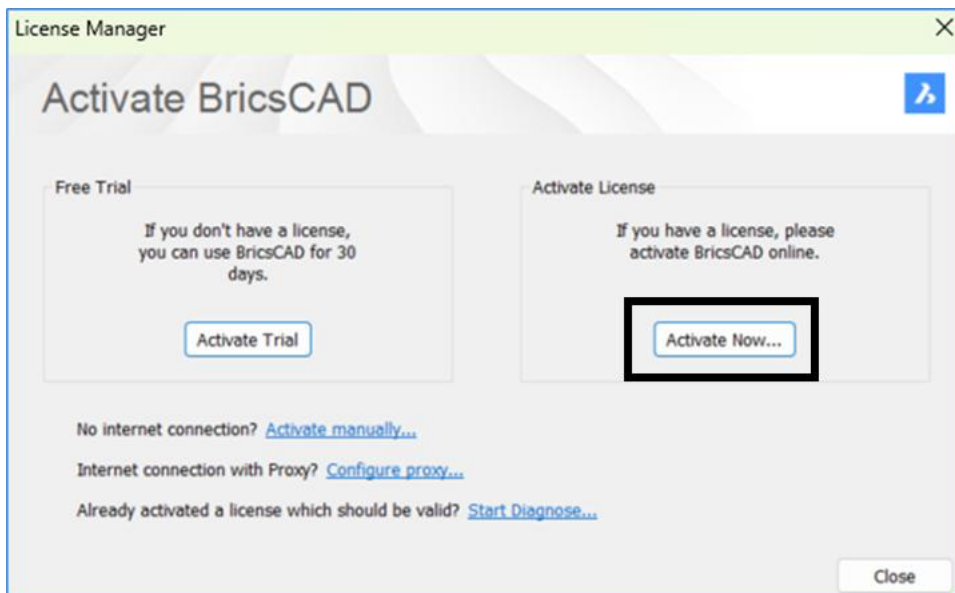
If your computer is not connected to the internet, you can activate the license manually via another computer that is connected to the internet.

Important:

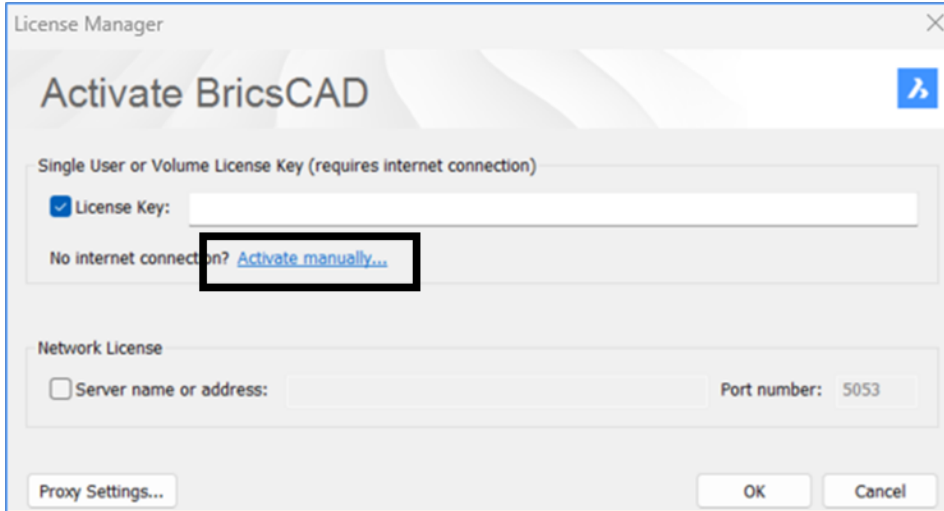
- We strongly recommend activating BricsCAD online.
- When activating offline, the license locks on the computer and the operating system, and deactivation is not possible. For online-activated licenses, deactivation and reactivation are unlimited.

1. Launch BricsCAD.

Click **Activate Now** in the **BricsCAD Launcher** dialog box.

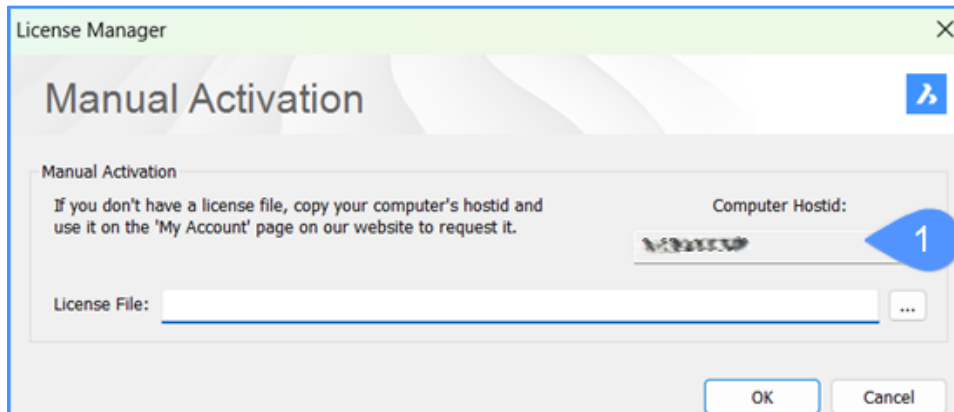


2. Click **Activate manually...** in the **License Manager > Activate BricsCAD** dialog box.



The **License Manager > Manual Activation** dialog box opens.

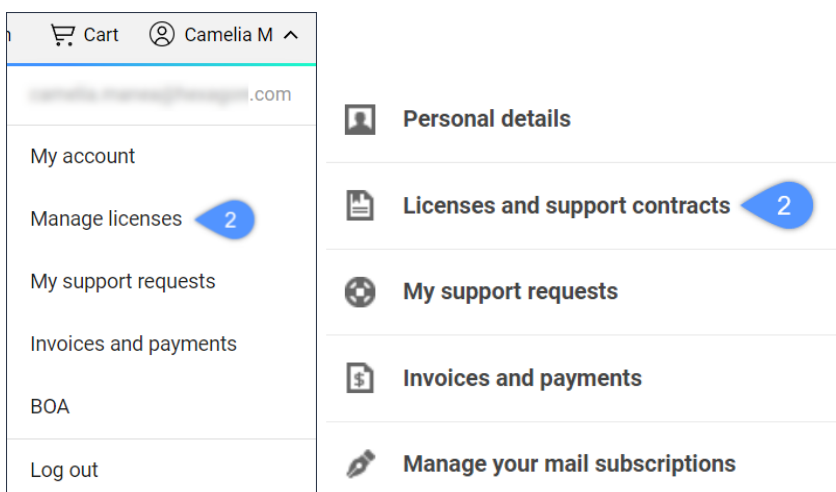
3. Copy the full content of the **Computer Hostid (1)** field.



4. Log in to the Bricsys website with the computer connected to internet.

Make sure you log in with the Bricsys account, which contains your licenses.

5. Click your user name and select **Manage licenses (2)** in the drop-down menu.



6. Hover over the license key you want to activate and click the pencil icon (✎) (3).

- ✓ **BricsCAD V26 Ultimate**
- ✓ 9275-7384-9025-493765-5045

The **License details** page displays.

7. Click **Manual activation**.
8. In the **Host ID** field, paste the host ID of the computer you want to install BricsCAD on.
9. Click the **Activate** button.

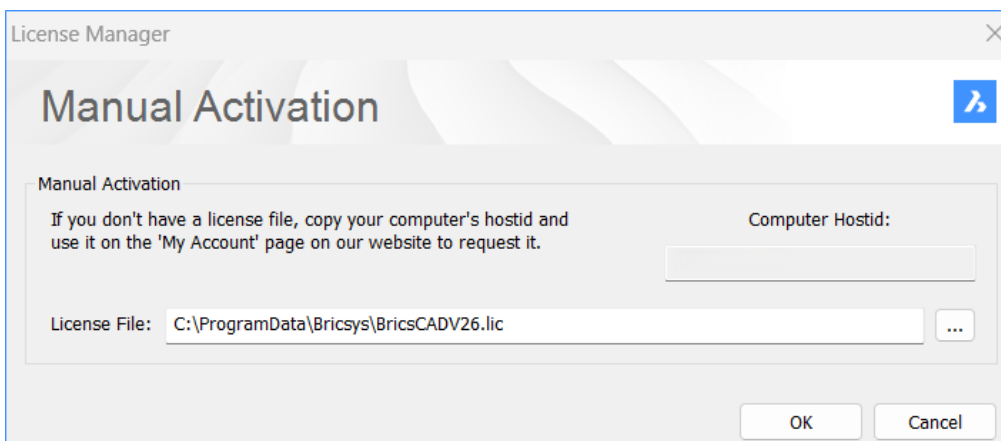
A license file is generated and made available for download.

10. Click the **Download License File** button.

The license file **BricsCADVxx.lic** is downloaded to your default download folder.

11. Copy the license file to the computer you want to install BricsCAD on.

12. In the **License Manager > Manual Activation** dialog box, click the browse button (⋮). Open the folder where you copied the **BricsCADVxx.lic** license file to and select the file.



13. Click the **OK** button.

BricsCAD is launched.

Upgrading a Single-user license

Upgrading to the next BricsCAD version when having active maintenance (Single-user license)

BricsCAD license upgrades no longer generate new license keys. Your current license key remains valid for future upgrades.

When a new major BricsCAD version is released, all licenses covered by an active maintenance contract are updated to run the newly released version.

After installing BricsCAD V26, a pop-up showing the updated version is displayed upon launch.

Important:

- If the license was activated offline, you need to revoke it first. See the [Revoking](#) a BricsCAD article for more information. If no more revokes are available, you have to contact support.

Remember. Only 2 revokes are possible. For online-activated licenses, deactivation and reactivation are unlimited.

- Communicator for BricsCAD licenses are not automatically updated. You need to enter the key in the **License Manager** dialog box. See also the [Communicator for BricsCAD - Getting started](#) article.

If the update of your license was not automatically detected, retrieve your key from the **My Licenses** section in your account. Next, go to the **License Manager** dialog box, select **Activate Now**, and enter your key.

Upgrading BricsCAD or extending your subscription (Single-user license)

BricsCAD license upgrades no longer generate new license keys. Your current license key remains valid for future upgrades.

Important:

- We strongly recommend activating or upgrading BricsCAD online.
- If the license was activated offline, you need to revoke it first. See the [Revoking a BricsCAD license \(limited operation\)](#) article for more information.

Remember. Only 2 revokes are possible. For online-activated licenses, deactivation and reactivation are unlimited.

Upgrading BricsCAD license online

Upgrading BricsCAD version

When you have purchased a version upgrade for BricsCAD you need to install the new version and launch it. A pop-up showing the updated version is displayed.

Extending your subscription

When you have purchased an extension for your subscription, a pop-up showing the updated expiration date is displayed after you launch BricsCAD. The pop-up is displayed only after your initial subscription expires.

Upgrading BricsCAD level

When you have purchased a level upgrade, you need to reactivate your BricsCAD key following the next steps:

1. Launch BricsCAD.
2. Run the LICENSEMANAGER command to open the **Bricsys License Manager** dialog box.
3. Click the **Manage License** button to open the **License Manager > Licensing Information** dialog box.
4. Click the **Modify...** button to open the **License Manager > Activate BricsCAD** dialog box. Your key is already prefilled in the **License Key** field.
5. Click the **Ok** button to reactivate your BricsCAD key.

Upgrading BricsCAD license offline

To upgrade your BricsCAD license when you cannot connect to the internet, follow the procedure described in the [Offline/manual activation \(Single-user license\)](#) article.

Working with Network licenses

About Network Licenses

A network license allows multiple users on the same TCP/IP network to share access to product licenses. The Bricsys Network License Server manages how licenses are distributed to users.

When you launch BricsCAD, it requests a license from the license server through the network. If a license is available, the Bricsys Network License Server assigns a license to the computer, and the number of available licenses on the license server is reduced by one.

When you close BricsCAD, the license returns to the pool.

To make a network license available in BricsCAD on a client computer, the network administrator needs to install the Bricsys Network License Server, which contains the Bricsys Network License Manager, powered by a recent version of RLM framework (V15.2).

Overview and control over the license usage can be done via web-interface, while license activation and license update can be done via Bricsys Network License Manager dialog box.

The Bricsys Network License Server needs a license file that you can activate online or manually. The network license can only be activated once, and it will be locked to the machine.

Once the Bricsys Network License Server is set up and has an active license, it can distribute that license to the client computers that have BricsCAD installed. The number of computers that can use a license simultaneously is limited by the number of seats available on the network license.

Setting up a Windows Network License Server

In general, Bricsys Network License Server downloading, deployment and configuration is a duty for the network/system administrator.

Downloading Bricsys Network License Server

Download the Bricsys Network License Server (Windows) from [here](#).

Important:

- Starting with RLM V15.1, a default user with the username *admin* and password *admin* is created if *rlm.pw* does not already exist in the Bricsys Network License Server folder.
- If the *admin* password is still the default and/or there are any users without passwords for longer than 10 minutes, the server will shut down automatically.

See also the **Setup RLM login** article.

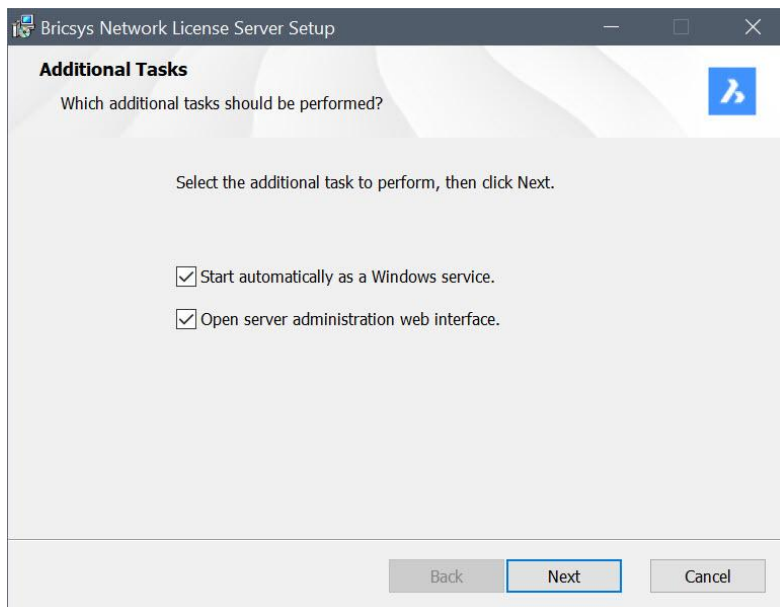
Note:

- The Bricsys Network License Server contains the RLM server and the Bricsys Network License Manager.
- The Bricsys Network License Server is powered by a recent version of RLM framework (V15.2). See more information in the [Bricsys Network License Server - Release Notes](#).

Remember: Bricsys Network License Manager does not support updating licenses that are manually merged into one complex file, it supports the default setup: one Bricsys software license per file.

New installation of Bricsys Network License Server

In the **Bricsys Network License Server Setup** dialog box, make sure to tick all the checkboxes.



Start automatically as a Windows service

After the installation, the **Bricsys Network License Manager** dialog box opens. Click the **Add License** button to open the **Activate New Network License** dialog box and enter your network license to activate it. See more information in the [Online activation \(Network license\)](#) article.

You can later open the **Bricsys Network License Manager** dialog box using the **Bricsys Network License Manager** desktop shortcut.

Note: If no active license is detected on your system, the **Activate New Network License** dialog box will show first.

Each time you start Windows, the license server is automatically started as a service. You can do this later with the following command in the elevated command prompt: `rlm.exe -dlog rlm.log -install_service`.

Open server administration web interface

After the installation, the Reprise License Server Administration web interface opens. It allows you to manage the network license. You can open the Reprise License Server Administration later by clicking the **License Server Administration** shortcut in the Start menu.

Upgrading Bricsys Network License Server

Download and install the Bricsys Network License Server on the computer used as Network License Server.

Note: The installation restarts the license server.

Installation from the Command line

See more information on command line installations, refer [here](#):

Setting up a Linux License Server

In general, Bricsys Network License Server downloading, deployment and configuration is a duty for the network/system administrator.

For Linux server installation refer [here](#):

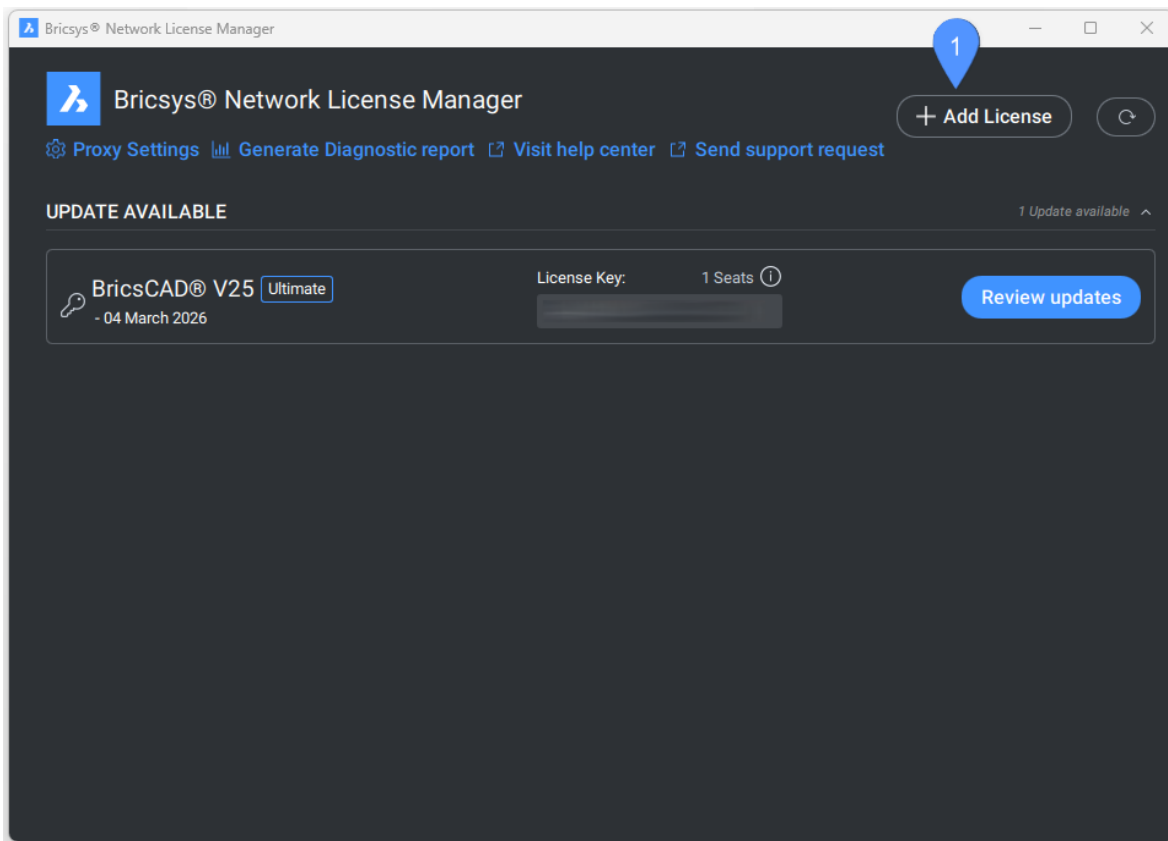
Online activation (Network license)

The BricsCAD license activation requires an internet connection at the moment of activation.

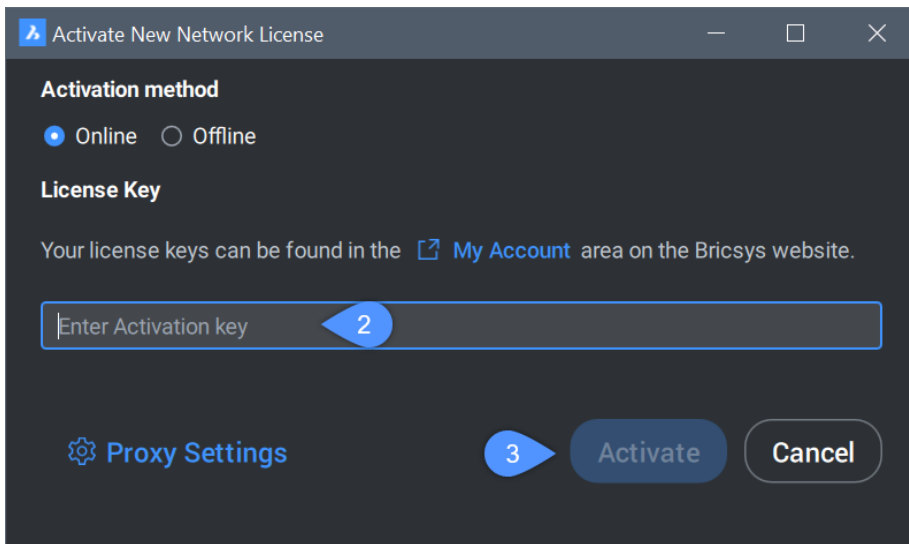
1. You can either:
 - Click the **Bricsys Network License Server** desktop shortcut.
 - Click the **Bricsys Network License Server** shortcut in the operating system Start menu.

C:\Program Files\Bricsys\Bricsys Network License Server\NetworkLicenseManager.exe

2. The **Bricsys Network License Manager** dialog box opens.
3. Click the **Add License** button (1) to open the **Activate New Network License** dialog box.



Enter the new network license in the **Enter Activation key** field (2) and click **Activate** (3). Use the license key from your Bricsys account. See also the **Where can I find [my licenses?](#)** article.



Note: If no active license is detected on your system, the **Activate New Network License** dialog box will show first.

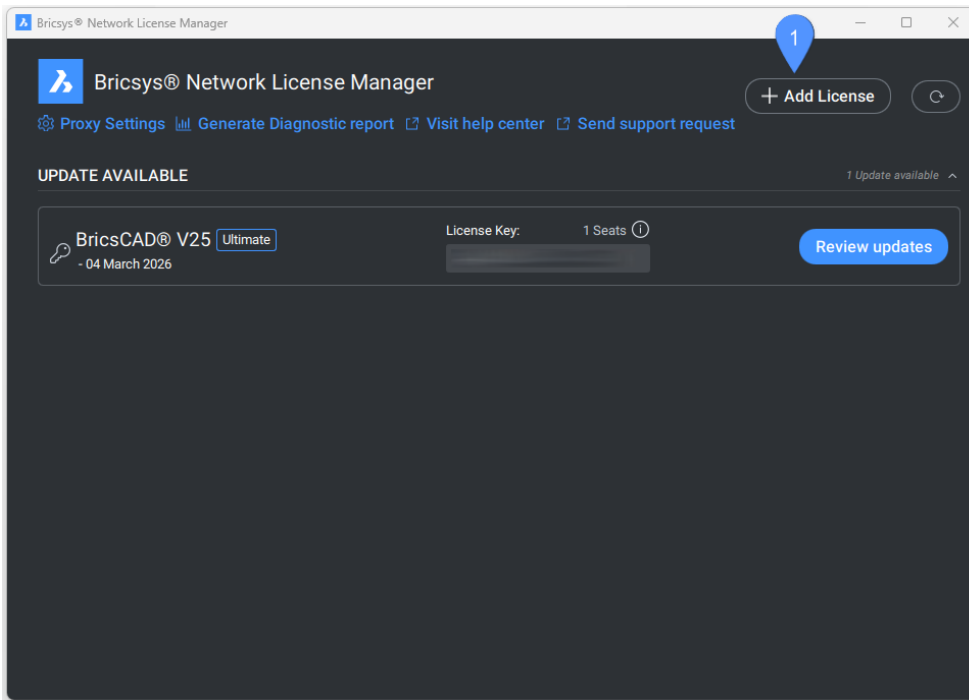
Offline/manual activation (Network license)

If your computer is not connected to the internet, you can activate the license manually via another computer that is connected to the internet. If you can have an internet connection available, even only during activation, we recommend using the online activation process.

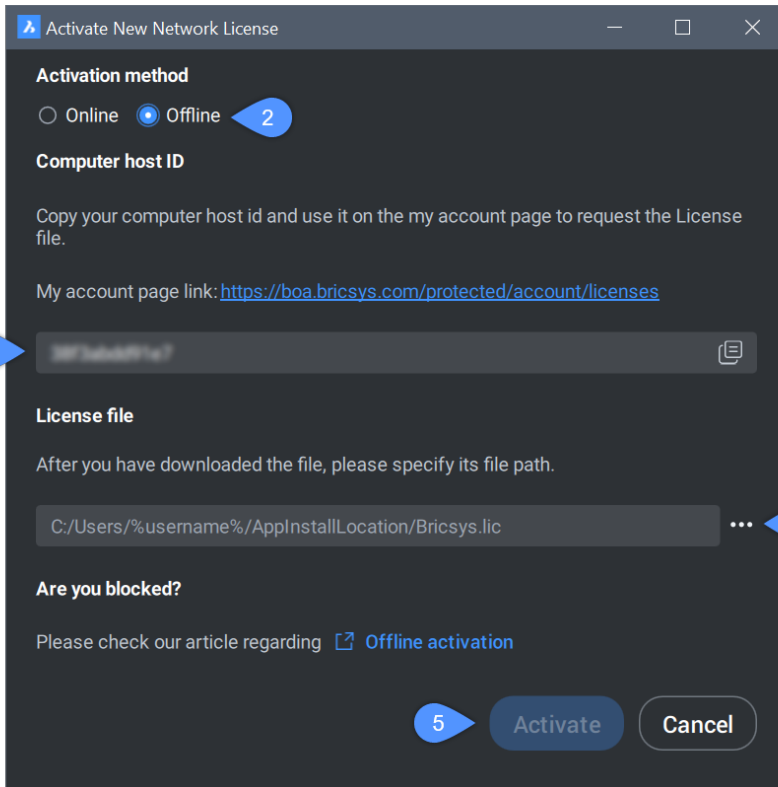
1. You can either:
 - Click the **Bricsys Network License Server** desktop shortcut.
 - Click the **Bricsys Network License Server** shortcut in the operating system Start menu.

C:\Program Files\Bricsys\Bricsys Network License Server\NetworkLicenseManager.exe

2. The **Bricsys Network License Manager** dialog box opens.
3. Click the **Add License** button (1) to open the **Activate New Network License** dialog box.



Select the **Offline** option (2) in the **Activate New Network License** dialog box and copy the full content of the **Computer Hostid** field (3).



Note: If no active license is detected on your system, the **Activate New Network License** dialog box will show first.

4. Log in to the [Bricsys website](#) with a computer connected to internet.
5. Click your name in the upper right corner and select **Manage licenses** from the menu.

Make sure you log in with the Bricsys account of your company, which contains the Network license. Contact your Bricsys account manager if needed.

6. Hover over the license key you want to activate and click the pencil icon (✎).

The **License details** page displays.

7. Click **Manual activation**.
8. In the **Host ID** field, paste the computer host ID of the computer you want to install Bricsys Network License Server on.
9. Click the **Activate** button.

A license file is generated and made available for download.

10. Click the **Download License File** button.

The license file **BricsCAD.lic** is downloaded to your default download folder.

11. Go back to the **Activate New Network License** dialog box and click the browse button (4) to open the **Select BricsCAD license** dialog box. Select the previously downloaded LIC file and click **Open**.
12. Click the **Activate** button (5) to activate the license offline.

Upgrading a Network license

Upgrading to the next BricsCAD version when having active maintenance (Network license)

BricsCAD license upgrades no longer generate new license keys. Your current license key remains valid for future upgrades.

Install the new Bricsys Network License Server, which contains the Bricsys Network License Manager. In general, Bricsys Network License Server downloading, deployment, and configuration is a duty for the network/system administrator. See the [Setting up a Windows Network License Server](#) article for more information.

Note:

- The new Bricsys Network License Manager uninstalls the old one automatically, and all the files from the old **Bricsys Network License Manager** folder are moved to the **Bricsys Network License Server** folder.

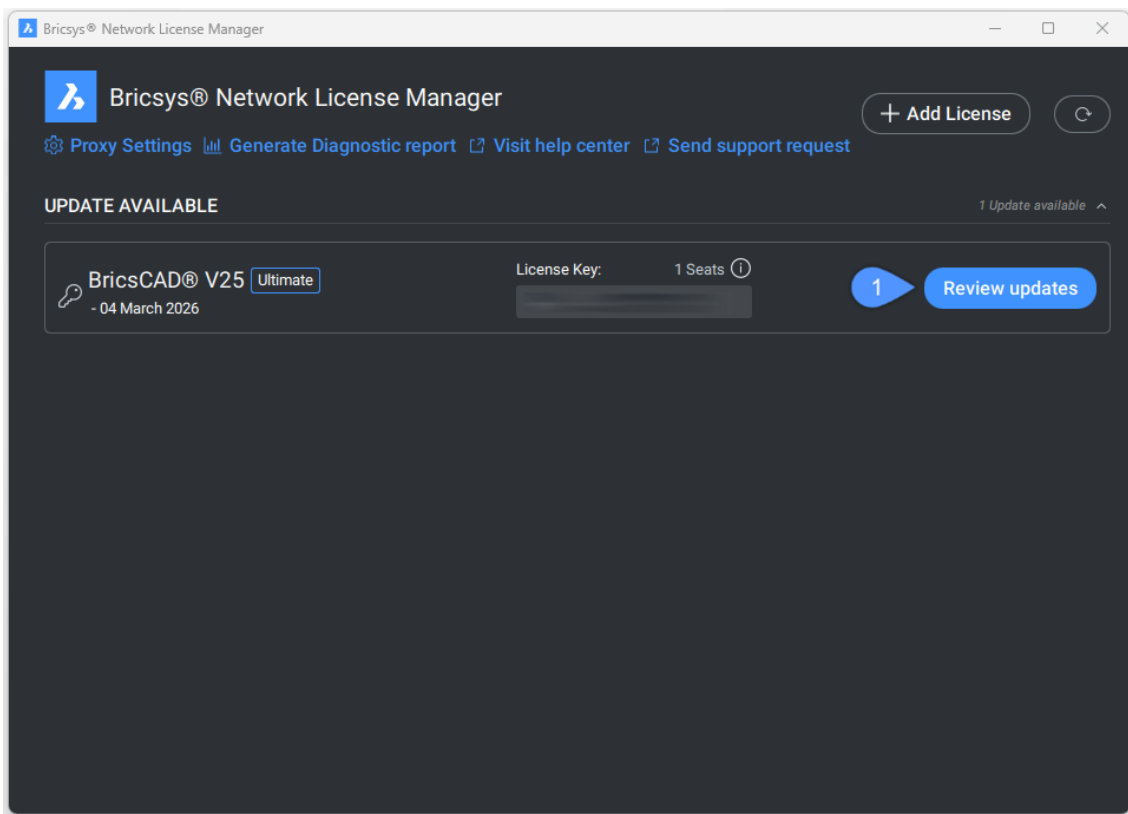
Important:

- Starting with RLM V15.1, a default user with the username *admin* and password *admin* is created if *rlm.pw* does not already exist in the Bricsys Network License Server folder.
- If the *admin* password is still the default and/or there are any users without passwords for longer than 10 minutes, the server will shut down automatically.
- If you created a *rlm.pw* file with RLM V14.2 or earlier, that PW file is no longer valid. To fix this, you must delete the old PW file and create a new one.

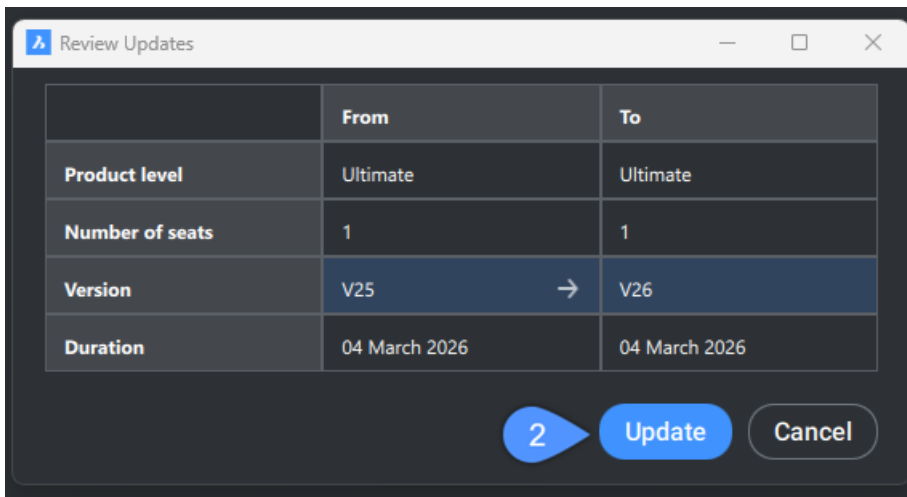
See the [Setup RLM login](#) article for more information.

- The active licenses are kept and displayed in the new **Bricsys Network License Manager** dialog box.

All licenses under maintenance, where you are entitled to a version upgrade, are shown under the **Update available** category.



Click the **Review updates** button (1) to open the **Review Updates** dialog box to have an overview of which updates are available for that license.



Click the **Update** button (2) to update the license on your Network License Server.

Note: If the **Bricsys Network License Manager** dialog box was already open, you might need to click the refresh button (↻) to have the **Review updates** button available.

If the update of a license is not automatically detected, retrieve the license key in the **My licenses** section under your account. See the **Where can I find [my licenses?](#)** article for more information. Next, enter the key in the **Bricsys Network License Manager** dialog box manually using the **Add a license** button.

For licenses that were offline-activated:

- If the license was activated offline, but the Network License Server has an internet connection, the update of the license will be detected automatically. The update process will be as described above.
- If the Network License Server still does not have an internet connection:
 1. You need to revoke the license first. See the **[Revoking a BricsCAD license \(limited operation\)](#)** article for more information. If no more revokes are available, you need to contact support.

Remember: Only 2 revokes are possible per license.

2. Retrieve the license key in the **My licenses** section under your account. See the **Where can I find [my licenses?](#)** article for more information.
3. Activate the license using the offline process. See also the **[Offline/manual activation \(Network license\)](#)** article.

Important: Make sure you permanently delete all copies (including copies of older license files) of the BricsCAD Network license files that are currently on your company's servers (including those of your employees, contractors, etc.) in excess of those that you are entitled to. This means that you need to ensure that even copies of old Network licenses, which have been upgraded to newer versions, are deleted.

Note: Communicator for BricsCAD licenses behave the same as BricsCAD licenses.

Benefits of the new Bricsys Network License Server

The new Bricsys Network License Server brings the following benefits:

- It detects licenses that are covered by an active maintenance contract and provides the option to upgrade them on the **Bricsys Network License Manager** dialog box.
- It has an improved User Interface that provides a good overview of all licenses deployed on a server.
- It guides users to useful resources, such as Bricsys Help Center, Bricsys Support, RLM diagnostic tools, etc.

Upgrading BricsCAD or extending your subscription (Network license)

BricsCAD license upgrades no longer generate new license keys. Your current license key remains valid for future upgrades.

Install the new Bricsys Network License Server, which contains the Bricsys Network License Manager. In general, Bricsys Network License Server downloading, deployment and configuration is a duty for the network/system administrator. See the [Setting up a Windows Network License Server](#) article for more information.

Note:

- The new Bricsys Network License Manager uninstalls the old one automatically and all the files from the old **Bricsys Network License Manager** folder are moved to the **Bricsys Network License Server** folder.

Important:

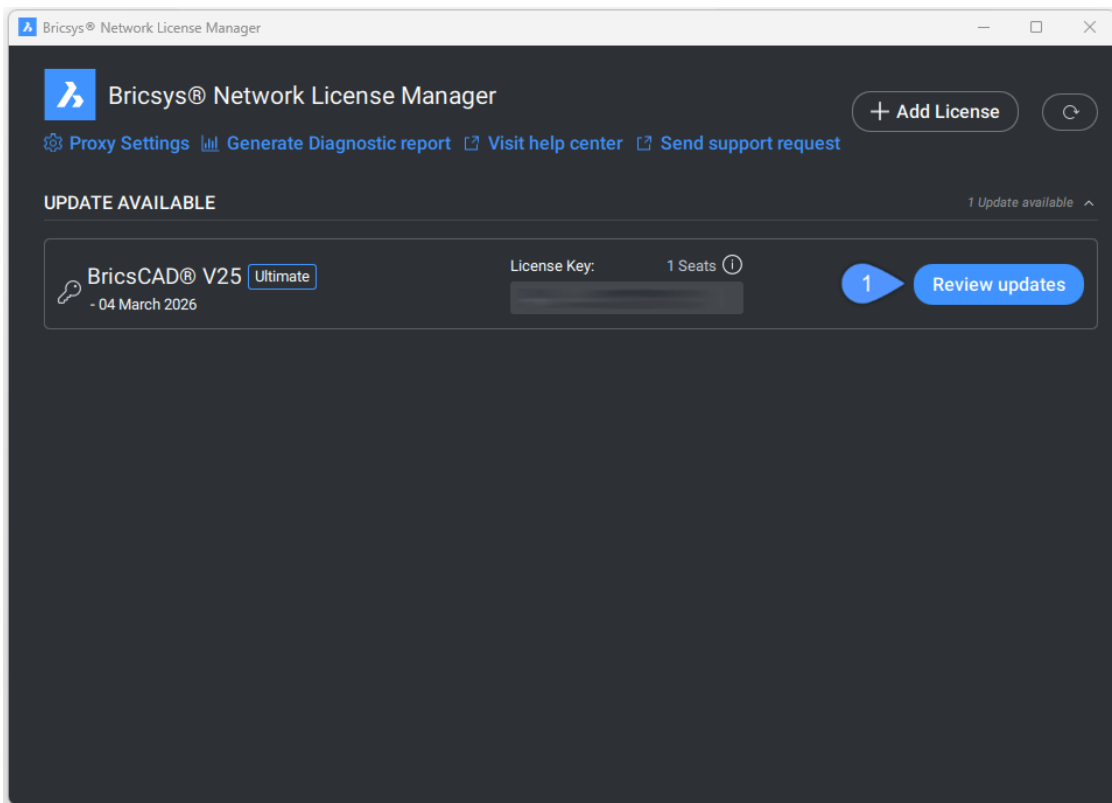
- Starting with RLM V15.1, a default user with the username *admin* and password *admin* is created if *rlm.pw* does not already exist in the Bricsys Network License Server folder.
- If the *admin* password is still the default and/or there are any users without passwords for longer than 10 minutes, the server will shut down automatically.
- If you created a *rlm.pw* file with RLM V14.2 or earlier, that PW file is no longer valid. To fix this, you must delete the old PW file and create a new one.

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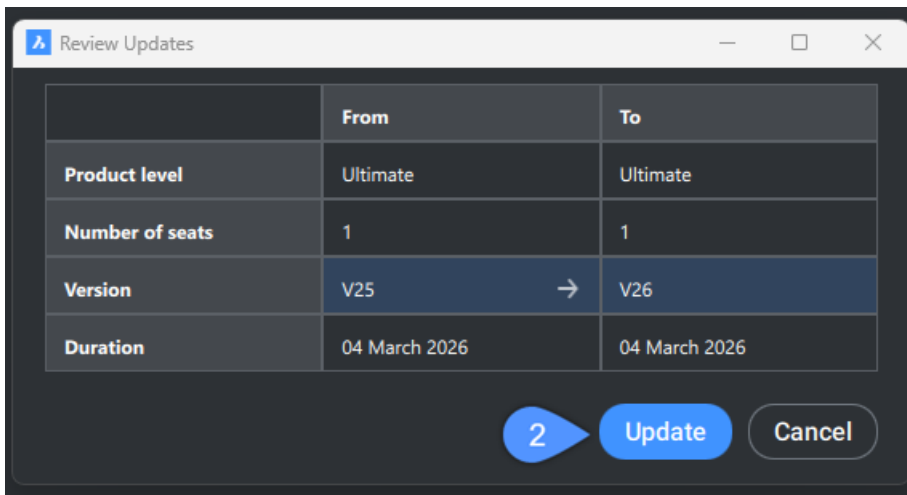
- The active licenses are kept and displayed in the new **Bricsys Network License Manager** dialog box.

When you have purchased a version upgrade, product upgrade, seats upgrade or have extended your subscription license for Network license, and you are connected to the internet

For network licenses, all updates are detected automatically and are shown under the **Update available** category.



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Remember: Only 2 revokes are possible per license.

2. Retrieve the license key in the [my licenses](#) section under your account. See the **Where can I find my licenses?** article for more information.
3. Activate the license using the offline process. See also the [Offline/manual activation \(Network license\)](#) article.

Important: Make sure you permanently delete all copies (including copies of older license files) of the BricsCAD Network license files that are currently on your company's servers (including those of your employees, contractors, etc.) in excess of those that you are entitled to. This means that you need to ensure that even copies of old Network licenses, which have been upgraded to newer versions, are deleted.

Benefits of the new Bricsys Network License Server

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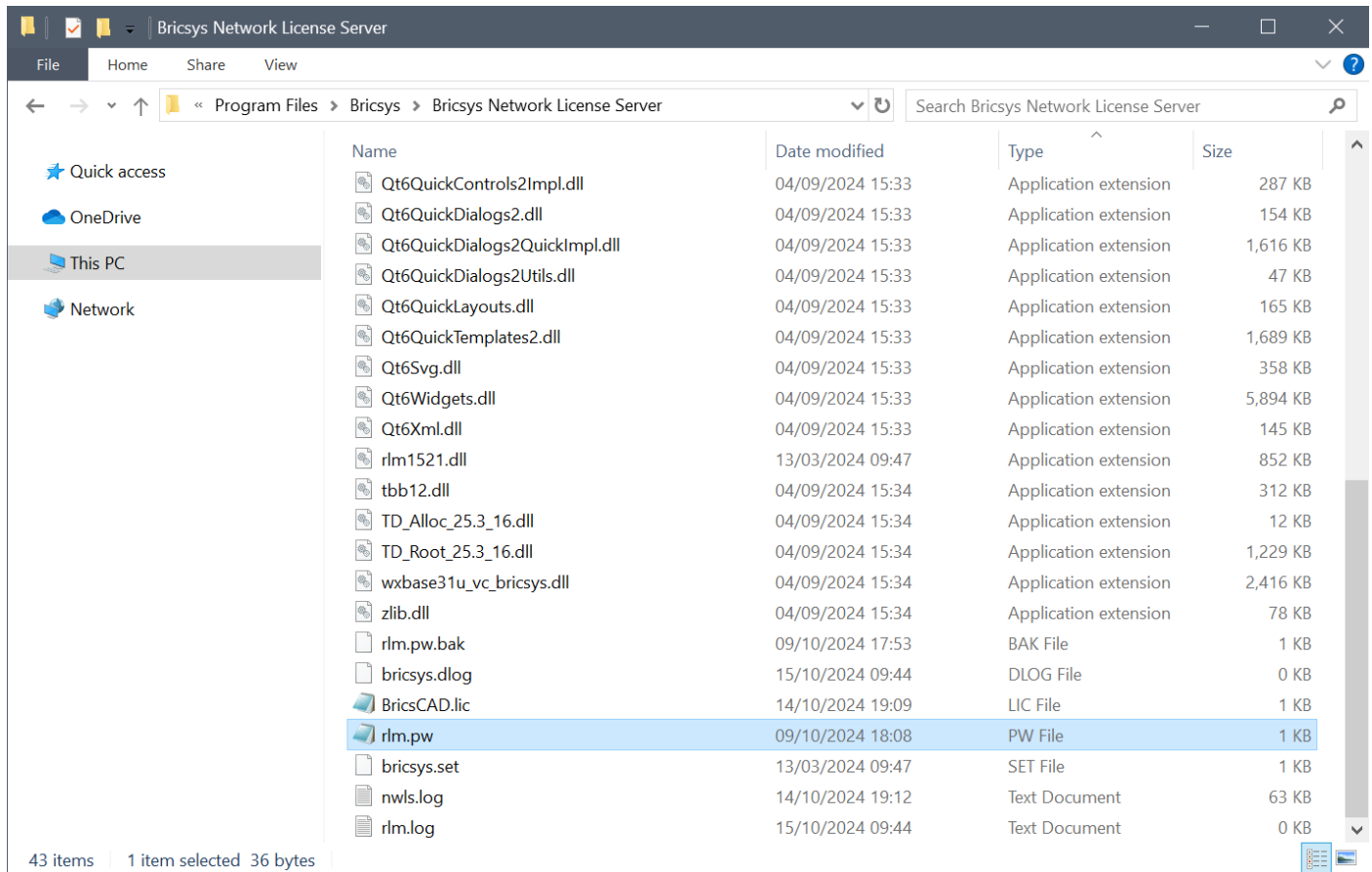
Updating network licenses in terminal mode

See more information on Updating network licenses in terminal mode, refer [here](#):

Network License Administration

Setup RLM login

Starting with RLM V15.1, a default user with the username *admin* and password *admin* is created if *rlm.pw* does not already exist in the Bricsys Network License Server folder (by default C:\Program Files\Bricsys\Bricsys Network License Server).



Important: If the *admin* password is still the default and/or there are any users without passwords for longer than 10 minutes, the server will shut down automatically.

Note:

- When upgrading from the old versions of RLM framework (14.2 and earlier), the old PW files are no longer valid. To fix this, you must delete the old PW file and create a new one.
- It is recommended to protect access to this file so that regular users cannot edit it. Both the RLM password file and the directory that contains it must be read-write to the RLM process.

1. The RLM password file (*rlm.pw*) has one line for each user, formatted as follows:

```
username::all
```

The username cannot contain a ':' character. The password field is initially left blank. The permissions are generally set to **all**.

RLM.pw

```
admin::all
```

The list-of-permissions field is a comma-separated list of the various privileges which you can assign to users:

- **all**: It is a special privilege name. It enables all privileges.
- **edit_meter**: Modifies count for meter counters.
- **edit_options**: Edits options files for ISV servers.
- **edit_rlm_options**: Edits license files and options files for the rlm server.
- **edit_xfer**: Edits server-server license transfer settings for ISV servers.
- **extend_roam**: Allows you to extend roam duration for already-roaming licenses.
- **logfiles**: Enables the functions that change log files - switch, switchr, newlog.
- **remove**: Allows you to remove a license from a running process.
- **reread**: Gives you access to the functions that do reread commands on license servers.
- **shutdown**: Gives you access to the functions which shut down license servers.
- **status**: Allows you to display the status and debug log information from the license servers.

Note: **edit_meter**, **edit_options**, **edit_rlm_options**, **edit_xfer**, **remove**, and **shutdown** options enable "status" privilege even if not present.

Note: Check the list-of-permissions at the bottom of this page. A user with no privileges assigned will have access to the ACTIVATE LICENSE, DIAGNOSTICS, RLM MANUAL, SYSTEM INFO, ABOUT, CHANGE PASSWORD, and LOGOUT commands.

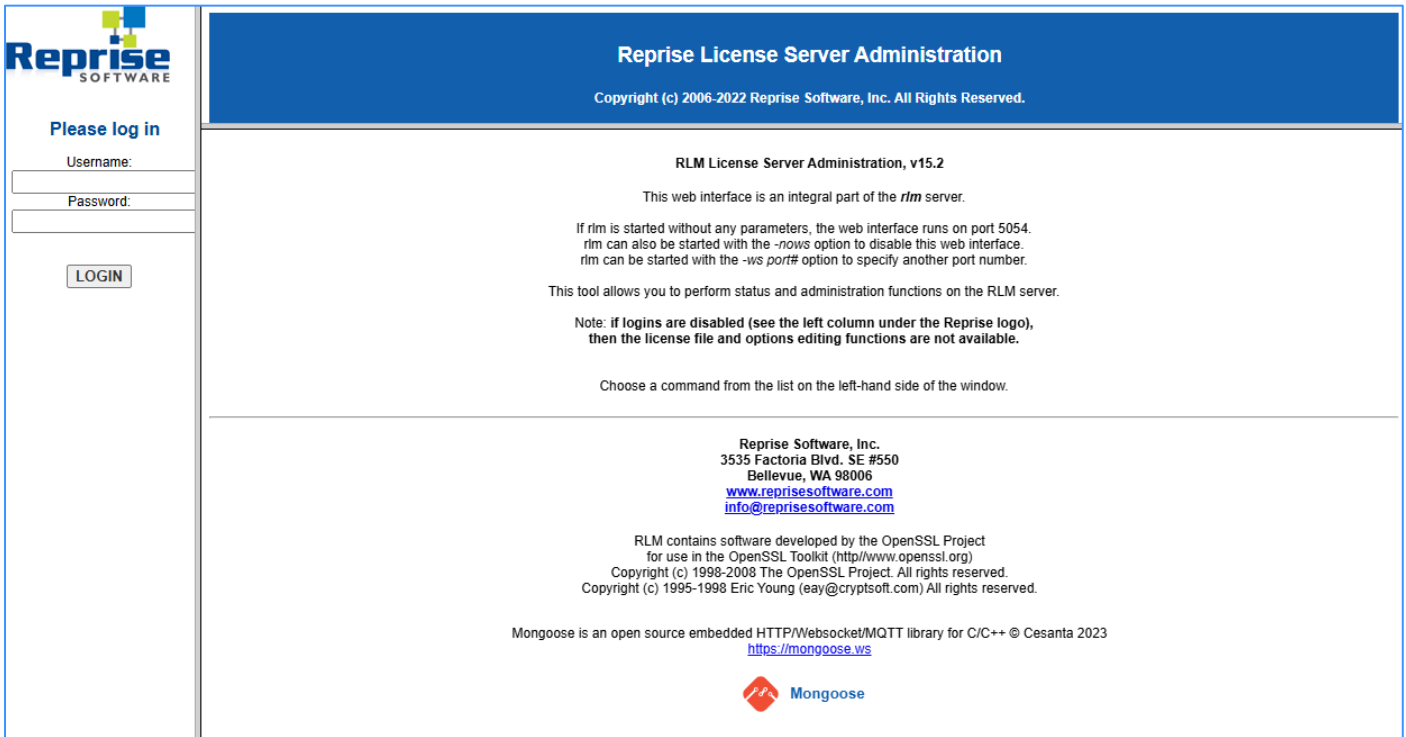
Examples:

```
user1:$5ukMApW1jixwcrGqRALO91:all
```

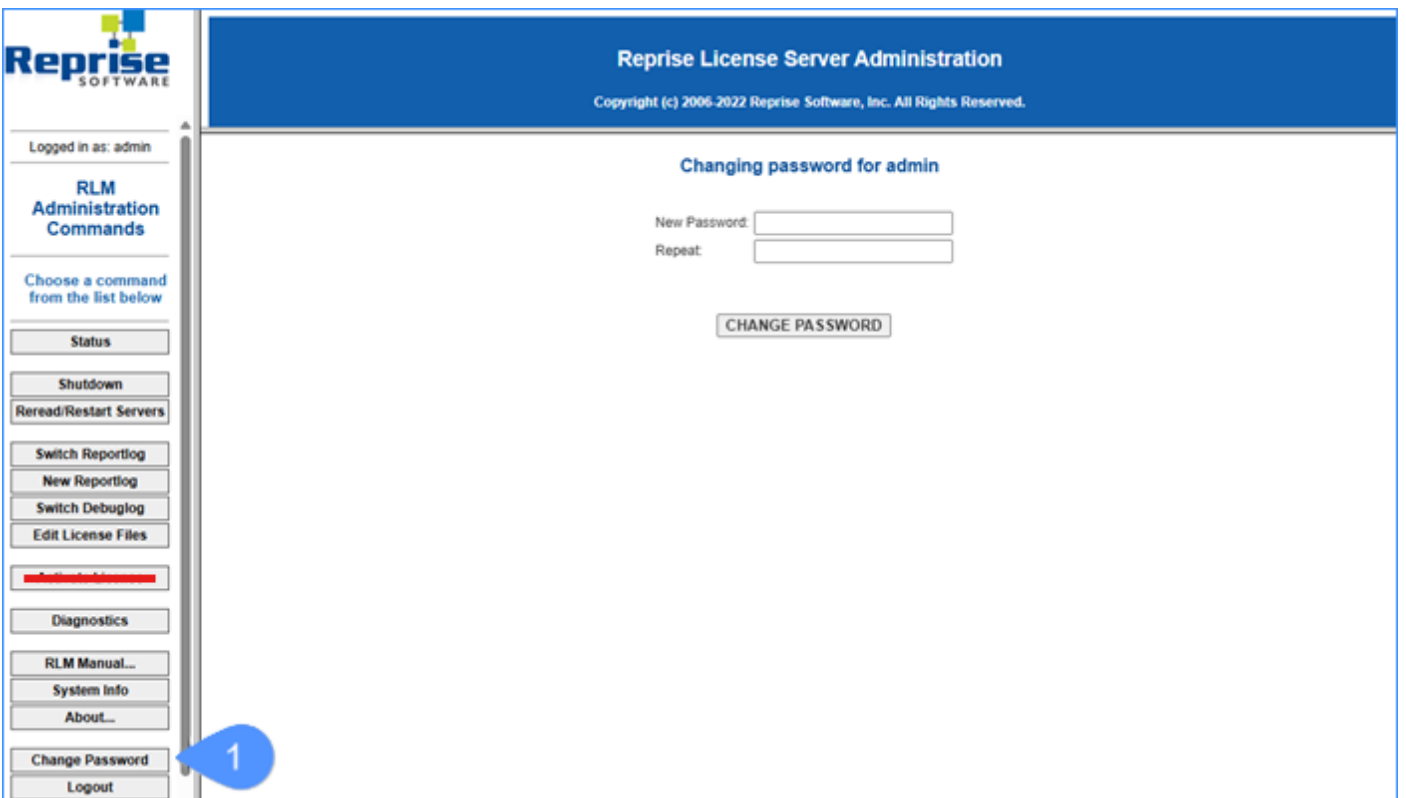
```
user2::edit_options,edit_rlm_options,reread
```

2. Access the license server web portal from the browser by using localhost:5054 in the same system or by using <License_Server_IP>:5054 in other systems.
3. You are prompted for a username and password. You can enter the username and log in without supplying a password since the password field is left empty.

Note: If you do not add a password to the newly created login, the result will be that the RLM will shut down by itself in 10 minutes, and other undesired effects will appear, such as an incomplete Diagnostics file.



4. To set a password or to change it later, select the **Change Password** button (1) once logged in as that user. Enter the new password and click the **CHANGE PASSWORD** button to update it. The new password is written to the rlm.pw file automatically. In the rlm.pw file, the password field is an encrypted hash of the actual password (similar to the Unix password file).



After that, restart the server or simply kill the rlm.exe process and start it again from Windows services. Then, go back to the web UI and log in with the new credentials.

5. Whenever a new user attempts to access the web portal, authentication (username and password) will be requested.

Network License Server administration

When the Network License Server (also named RLM License server) is running, you can configure it in the Reprise License Server Administration web interface. See also the **Setup RLM login** article.

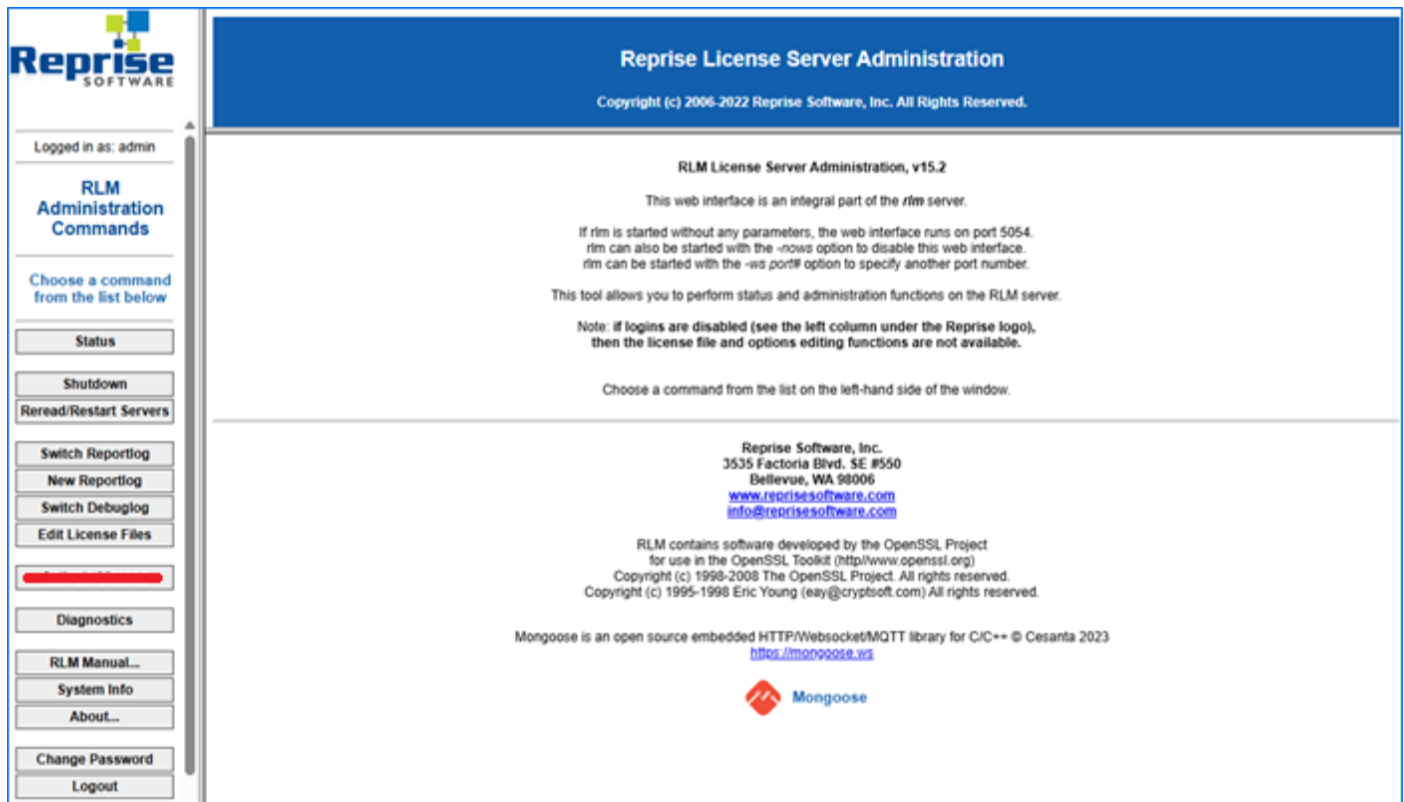
Opening the web interface

1. If the Network License Server is not running, click the **Bricsys Network License Server** desktop shortcut (on Windows 10 or higher: right-click > Run as administrator).

The **Bricsys Network License Manager** dialog box opens.

2. Browse to **http://localhost:5054**.

The Reprise License Server Administration web interface opens.



Note:

- Do not use the **Activate License** button because it is not related to Bricsys licenses.
- To get an overview of all options, click the **RLM Manual...** button on the left or go to the [RLM License Administration Manual](#).

Checking the license and server status

You can check the status of all network licenses on the server.

1. Click the **Status** button (1) on the left.

The **Status for "rlm" on LicenseServer (port 5053)** page opens.

Reprise License Server Administration
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Logged in as: admin

RLM Administration Commands

Choose a command from the list below

Status (1)

Shutdown

Reread/Restart Servers

Switch Reportlog

New Reportlog

Switch Debuglog

Edit License Files

Activate License

Diagnostics

RLM Manual...

System Info

About...

Change Password

Logout

Status for "rim" on HEX-WHCXS7H4 (port 5053)

RLM software version	v15.2 (build:1)
RLM comm version	v1.2
debug log file	rim.log
license files	BricsCAD.lic

rim Statistics	Since Start	Since Midnight	Recent
Start time	01/22 08:51:07	01/22 08:51:08	01/22 09:21:37
Messages	25 (0/sec)	25 (0/sec)	0 (0/sec)
Connections	21 (0/sec)	21 (0/sec)	0 (0/sec)

EDIT rim Options

SHOW rim Debug Log

ISV Servers												
Name	port	Running	Restarts	Server Status	License Usage	Debug Log	REREAD	OPTIONS	TRANSFER	SHUTDOWN	ACTIVATE	
bricsys	53954	Yes	0	bricsys (2)	bricsys	bricsys	bricsys	bricsys	bricsys	bricsys	bricsys	bricsys

- Click the **bricsys** button (2) in the **Server Status** column of the ISV Servers table to view the status of the Bricsys Network license.

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Logged in as: admin

RLM Administration Commands

Choose a command from the list below

Status

Shutdown

Reread/Restart Servers

Switch Reportlog

New Reportlog

Switch Debuglog

Edit License Files

Activate License

Diagnostics

RLM Manual...

System Info

About...

Change Password

Logout

ISV bricsys status on HEX-WHCXS7H4 (port 53954)

bricsys software version	v15.2 (build:1)
bricsys comm version	v1.2
debug log file	bricsys.dlog
report log file	_n/a_

bricsys Statistics	Since Start	Since Midnight	Recent
Start Time	01/22 09:06:19	01/22 09:06:21	01/22 09:36:50
Messages	27 (0/sec)	27 (0/sec)	2 (0/sec)
Connections	9 (0/sec)	9 (0/sec)	1 (0/sec)
Checkouts	3 (0/sec)	3 (0/sec)	0 (0/sec)
Denials	0 (0/sec)	0 (0/sec)	0 (0/sec)
License Removals	0 (0/sec)	0 (0/sec)	0 (0/sec)
Current Connections	0		

License pool status

Product	Pool	Ver	Expires	count	soft lim	inuse	res	roam	timeout	share	checkouts	Show Usage
bricscad	1	26	02-may-2026	1	1	1	0	1	0	User&Host	3	usage...

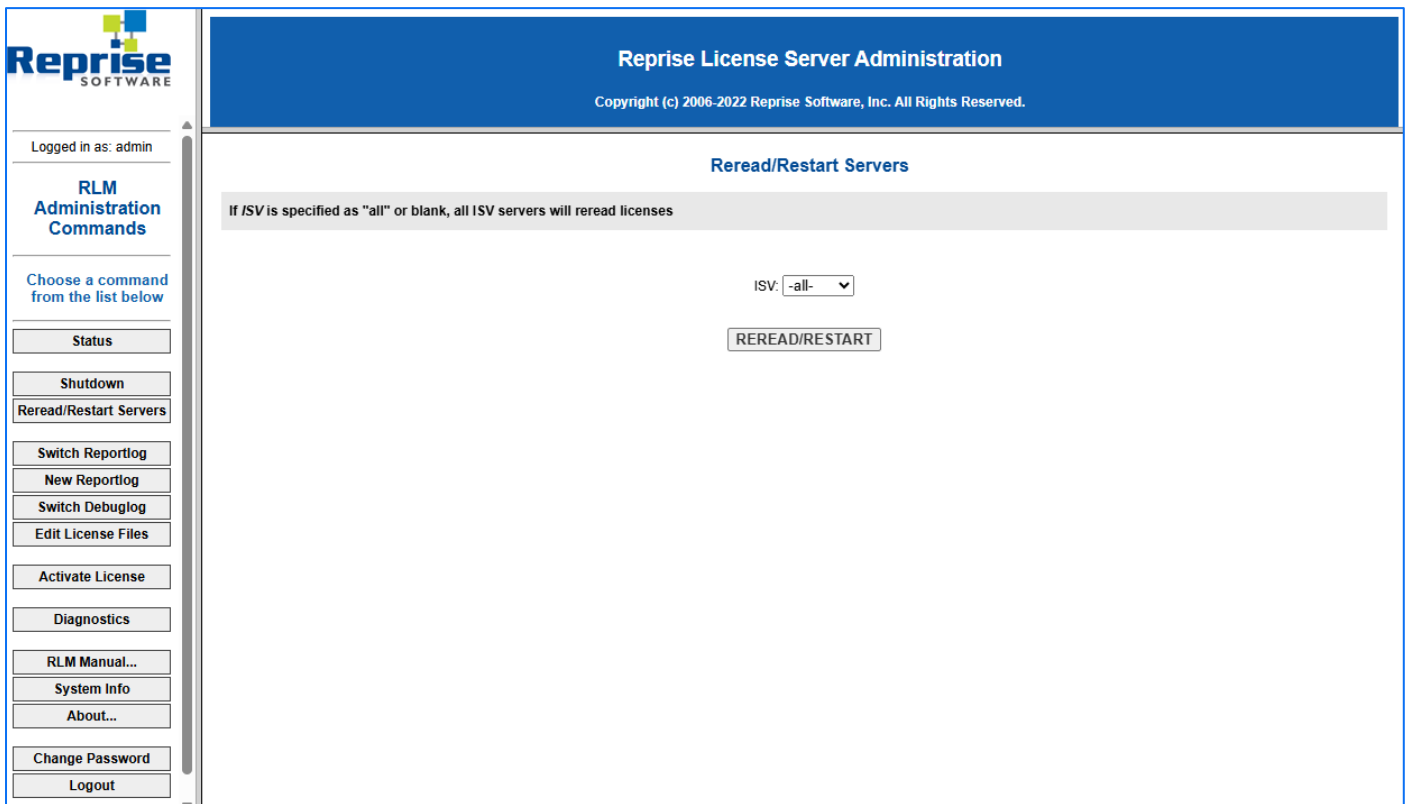
Enter license password to select license results. Only licenses with matching passwords (or with no passwords) will be displayed above.

Rereading the license / Restarting the server

If you want to restart the server, for example, after modifying the bricsys.opt file, follow the next steps:

1. Click the **Reread/Restart Servers** button (3) on the left.

The **Reread/Restart Servers** page opens.



2. Click the **REREAD/RESTART** button (4).

The server restarts and rereads the Network license.

For video instructions on installing a BricsCAD Network License Server, please refer [here](#):

Advanced configurations

Once the Network License Server is set up, BricsCAD may report error -17 when trying to connect to the server.

The presence of firewalls, proxy servers, anti-virus software, and other security measures may be the cause.

For a list of common BricsCAD Error Codes, please refer [here](#):

Anti-virus

If anti-virus software is running on the server and blocking the license server program (**rlm.exe** on Windows, **rlm** on Linux), you need to unblock the RLM service in the anti-virus configuration.

Check your anti-virus configuration on how to unblock services.

Firewall

If a firewall is installed between the server and BricsCAD, 2 port numbers need to be opened in the firewall: the port number 5053 and the port number assigned to the Bricsys license server.

This port number is dynamically assigned when the license server starts. To open this port in the firewall, it must first be set in the BricsCAD.lic file on the server:

1. Open the Reprise License Server Administration web interface at **http://localhost:5054**.
2. Click the **Status** button (1) on the left. The **Status for "rlm" on [LicenseServer] (port 5053)** page opens.
3. Look up the port number in the ISV Servers table. The port number is displayed in the bricsys row in the 2nd column (2).
4. Copy this port number.
5. Open the BricsCAD.lic file in a text editor (for example, Notepad, Gedit, etc.). The default location of the file is C:\Program Files\Bricsys\Bricsys Network License Server.

You can fix the port number by modifying the line ISV bricsys into: ISV bricsys port=[port number] (3), where [port number] must be replaced by port number copied from the ISV Servers table.

Reprise License Server Administration
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Status for "rlm" on HEX-WHCXS7H4 (port 5053)

RLM software version	v15.2 (build:1)
RLM comm version	v1.2
debug log file	rlm.log
license files	BricsCAD.lic

rlm Statistics	Since Start	Since Midnight	Recent
Start time	01/22 08:51:07	01/22 08:51:08	01/22 09:21:37
Messages	25 (0/sec)	25 (0/sec)	0 (0/sec)
Connections	21 (0/sec)	21 (0/sec)	0 (0/sec)

EDIT rlm Options
SHOW rlm Debug Log

ISV Servers	Name	port	Running	Restarts	Server Status	License Usage	Debug Log	REREAD	OPTIONS	TRANSFER	SHUTDOWN	ACTIVATE
	bricsys	53954	Yes	0	bricsys	bricsys	bricsys	bricsys	bricsys	bricsys	bricsys	bricsys

```
HOST localhost 123456789ccc 5053
ISV Bricsys port=53954
LICENSE bricsys bricscad 26 permanent 5 share=uh
contract=xxxx-xxxx-xxxx-xxxx options="LA:xx_XX TY:FCO LE:PLA
EF:"_ck=6c0f5133fb sig="....."
_id=1234567
```

6. In the firewall, open both numbers 5053 and the port number you added to the BricsCAD.lic file.

7. Shut down and restart the license server program.

Note: If this does not solve the problem, add the license server program (rlm.exe on Windows, rlm on Linux/macOS) as an exception to the firewall exceptions and restart the license server.

Remember. The Network License Manager tool, located in the C:\Program Files\Bricsys\Bricsys Network License Server\NetworkLicenseManager.exe folder must be able to reach the **license.bricsys.com/actpro** port **80** and **https://api.bricsys.com/** port **443**.

Proxy server

If a proxy server exists between BricsCAD and the Network License Server, proxy settings should be configured in BricsCAD.

See more information in the **Configuring the proxy settings permanently for network license use** section in the [Proxy settings on a client computer](#) article.

License pooling

About

When multiple license levels are available, the Bricsys Network License Server allocates the seats to BricsCAD machines in the order of the ID number in the LIC file. If you want to control this action in detail, you can edit the options file: **bricsys.opt**.

Editing the options

You can edit the options in 2 ways:

- In the **bricsys.opt** file, located in the Bricsys Network License Server installation folder.
- On the web interface (**Reprise License Server Administration**).
 - Browse to <http://localhost:5054> on the Network License Server.
 - Click **Status** in the menu on the left side.
 - Click **bricsys** in the OPTIONS column for the **bricsys** ISV row.

Once edited, **Reread/Restart** the license server.

Commonly used options

Groups can be used to define a list of usernames, hostnames, or IP-addresses.

The name can later be used to apply rules for that group.

Important: If the number of reserved seats for multiple GROUPs equals all seats of the license, then only the first GROUP can access the licenses, and the rest of GROUPs will get the **error -22: All licenses in use**.

More options can be found in the RLM end user manual, under the **The ISV Options File** chapter.

Option	Description	Syntax	Example
GROUP	Defines a group of usernames.	GROUP name list-of-usernames	GROUP engineers userA userB userC
HOST_GROUP	Defines a group of hostnames.	HOST_GROUP name list-of-hostnames	HOST_GROUP firstFloor machineA machineB machineC
INTERNET_GROUP	Defines a group of IP-addresses.	INTERNET_GROUP name list-of-ip-addresses	INTERNET_GROUP networkGhent 192.168.1.* 192.168.2.* Note: The wildcard character (*) can be used in IP addresses.
RESERVE	Reserve a number of seats to a specific (group of) user(s).	RESERVE num product user host group host_group internet internet_group project who [id=nnn]	RESERVE 20 bricscad GROUP engineers id=nnn
MAX	Limit the number of seats available to a specific (group of) user(s).	MAX num product user host group host_group internet internet_group project who [id=nnn]	MAX 5 bricscad HOST_GROUP firstFloor id=nnn
INCLUDE	Only allow licenses for a product to a specific (group of) user(s). Anyone not specified by the INCLUDE line is not allowed to use the product.	INCLUDE product user host group host_group internet internet_group project who [id=nnn]	INCLUDE bricscad GROUP bricscadusers id=nnn

Option	Description	Syntax	Example
EXCLUDE	Disallow licenses for a product to a specific (group of) user(s).	EXCLUDE product user host group host_group internet internet_group project who [id=nnn]	EXCLUDE bricscad INTERNET_GROUP networkGhent 192.168.1.* id=nnn Note: The wildcard character (*) can be used in IP addresses.
TIMEOUT	Sets the inactivity timeout per product.	TIMEOUT secs [product [id=nnn]]	TIMEOUT 3600 bricscad id=nnn Note: The default minimum TIMEOUT in RLM is 3600 seconds.
TIMEOUTALL	Sets the inactivity timeout for all licenses present on the server.	TIMEOUTALL secs	TIMEOUTALL 3600 Note: The default minimum TIMEOUTALL in RLM is 3600 seconds.

License file identifiers

Note:

- After activation of a new network license, an '_id=nnn(*)' field is auto-generated, and it is added at the end of the license file. The ID number can be modified.

Note: (*) nnn is the number of the generated ID.

- After upgrading an existing network license, its original Identifier number remains unchanged.

This '_id' is used to identify each license file, and it will be used for license pooling options.

When specifying an [id=nnn] parameter for an added OPTION, that OPTION will only have effect on the pooling of the seats from the corresponding license.

Example of using the GROUP option with an Identifier:

Here we have created a GROUP called engineers, identified by their usernames. INCLUDE specifies that these users are allowed to use the product Identified by _id=nnn. Anyone not specified in the INCLUDE line, is not allowed to use this product

Bricsys.opt

```
GROUP engineers Eng1 Eng2 Eng3
INCLUDE BricsCAD GROUP engineers id=1234567
```

BricsCAD.lic

```
HOST localhost 123456789ccc 5053
ISV Bricsys port=53954
LICENSE bricsys bricscad 26 permanent 5 share=uh
  contract=xxxx-xxxx-xxxx-xxxxxx-xxxx options="LA:xx_XX TY:FCO LE:PLA
  EF:" _ck=6c0f5133fb sig="....."
_id=1234567
```

License pooling by RLM_PROJECT

The following applies to cases where multiple levels of network licenses are activated on the same RLM server. Consequently, the users are able to decide what license level to acquire when activating BricsCAD.

The user can obtain a specific BricsCAD license level, based on the RLM_PROJECT environment variable which should match the ISV server options. The license seats will be reserved on the ISV server for the specific PROJECT users by an Identifier.

Note: Please be aware that the following actions are to be executed by an IT department person.

1. RLM server actions

Having two license files with different Identifiers (Lite _id=xxxxxxx and Pro _id=yyyyyyy), add RESERVE options (in the **bricsys.opt** file) for all the licenses seats:

```
RESERVE 5 BRICSCAD PROJECT bc_lite id=xxxxxxx  
RESERVE 5 BRICSCAD PROJECT bc_pro id=yyyyyyy
```

2. BricsCAD user actions

1. Create a script that *SETS* a temporary environment variable RLM_PROJECT on the user machine, which will allow BricsCAD to negotiate with the RLM server the PROJECT license pool.
2. Executing a specific script will allow BricsCAD to pull the desired license level.

It can be *.CMD (command prompt) files:

BricsCADLite.cmd

```
@echo off  
set RLM_PROJECT=bc_lite  
call "C:\Program Files\Bricsys\BricsCAD V26 en_US\bricscad.exe"
```

BricsCADPRO.cmd

```
@echo off  
set RLM_PROJECT=bc_pro  
call "C:\Program Files\Bricsys\BricsCAD V26 en_US\bricscad.exe"
```

or it can be *.PS1 (powershell) files:

BrcsCADLite.ps1

```
o $env:RLM_PROJECT = "bc_lite"  
o Start-Process -FilePath "C:\Program Files\Bricsys\BricsCAD V26 en_US\bricscad.exe"
```

BricsCADPro.ps1

```
o $env:RLM_PROJECT = "bc_pro"  
o Start-Process -FilePath "C:\Program Files\Bricsys\BricsCAD V26 en_US\bricscad.exe"
```

Since all license seats are reserved in the RLM options, BricsCAD will not be able to acquire a license when the RLM_PROJECT variable does not exist, or when it has a value which does not match the ISV server options.

Raising the available seats above 5 or lowering the RESERVE count below 5 would let some licenses be available freely.

The RLM_PROJECT also works with the other (EXCLUDE/INCLUDE/...) options so a lot of configurations are possible.

Network license usage report

There are several possibilities to check the network license usage:

- From the RLM web UI:

Browse to <http://localhost:5054/> and go to **Status > License Usage > bricsys**.

- From the **bricsys.dlog** file which contains the IN/OUT information. This file is in the RLM folder: C:\Program Files\Bricsys\Bricsys Network License Server.
- REPORTLOG option. This option is described on pages 79 and 106 in the [RLM License Administration](#) manual.

It should be added to the **bricsys.opt** file like this:

```
REPORTLOG +C:\your_path\BCLogs\BCLog.log
```

Next, perform a Reread/Restart Servers.

The + sign means the new data is appended to the file, otherwise the file will be overwritten.

- RLM License Administration Bundle:

<https://reprisesoftware.com/admin/software-licensing-downloads.php>

- JTB FlexReport:

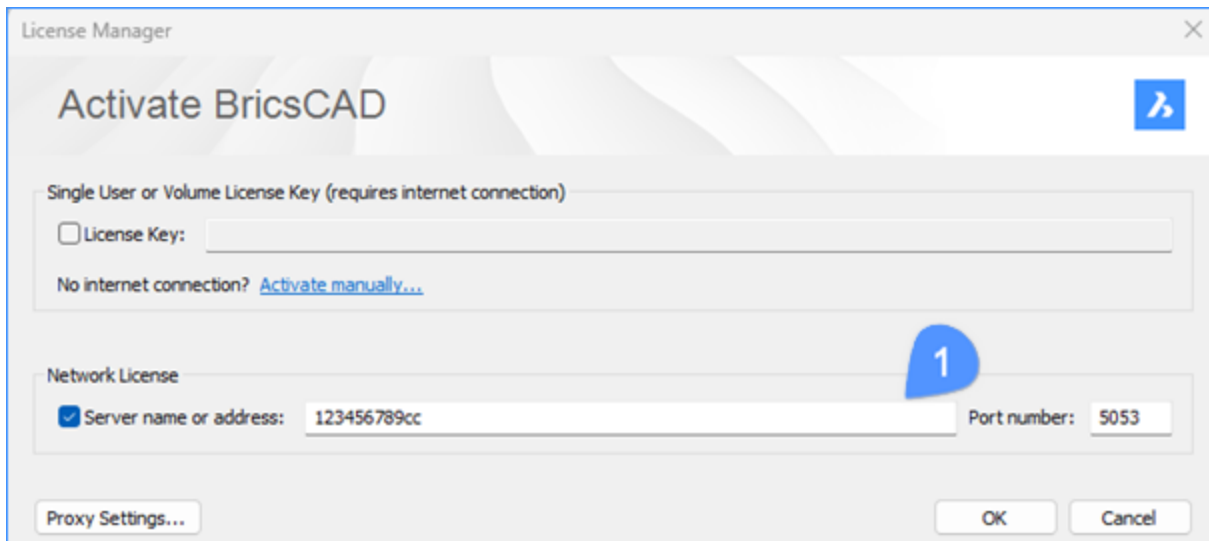
<https://jtbworld.com/jtb-flexreport>

Using a Network license on a client computer

Activating on a client machine

The client machine must be:

- In the same **LAN** with the Bricsys Network License Server, physically or by VPN connection.
 - Able to communicate with the Bricsys Network License Server on port **5053** by the **TCP/UDP** protocol. Once the network license is activated on the license server, it can be used on client computers.
1. Do one of the following:
 - If you start BricsCAD for the first time, click the **Activate** button in the **BricsCAD Launcher** dialog box.
 - If you replace or upgrade an existing license, launch the LICENSEMANAGER command, click **Manage License** and click **Modify**.
 2. Check the **Network License** option in the **License Manager > Activate BricsCAD** dialog box.
 3. Type the host name or IP address of the license server in the **Server name or address** field (1).



4. (Optional) Type the port number in the **Port Number** field.
5. If your computer is connected to the license server through a proxy server, click the **Proxy Settings** button to configure the proxy settings for a network license.

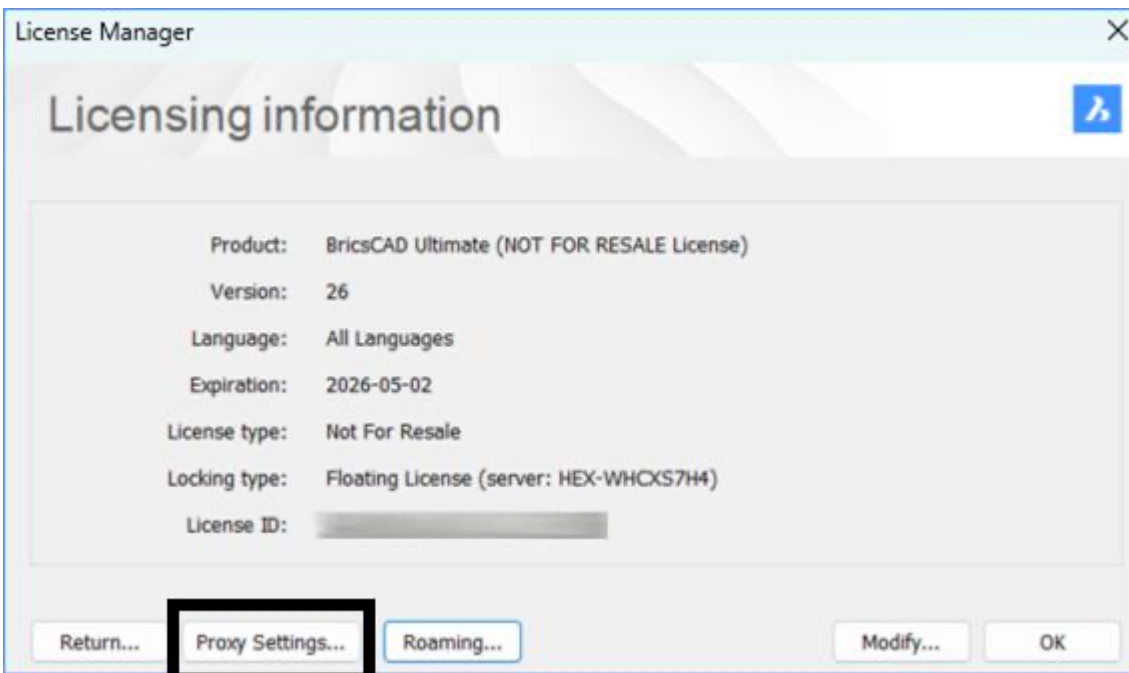
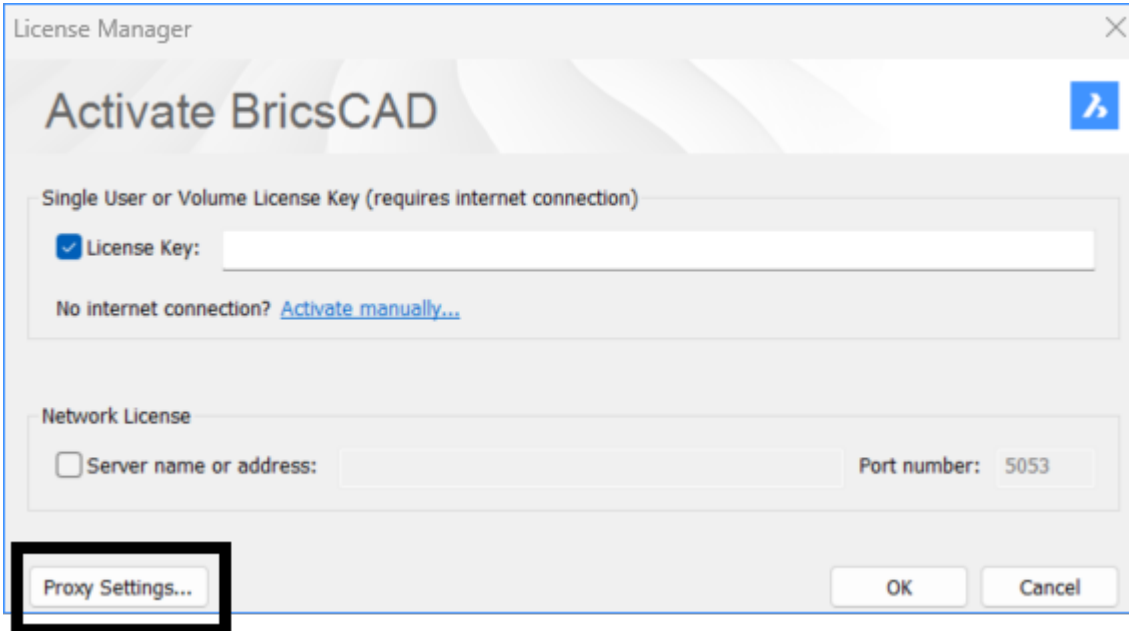
Note: **Proxy Settings** are also configurable from the **Settings** dialog box.

6. Click the **OK** button.

Proxy settings on a client computer

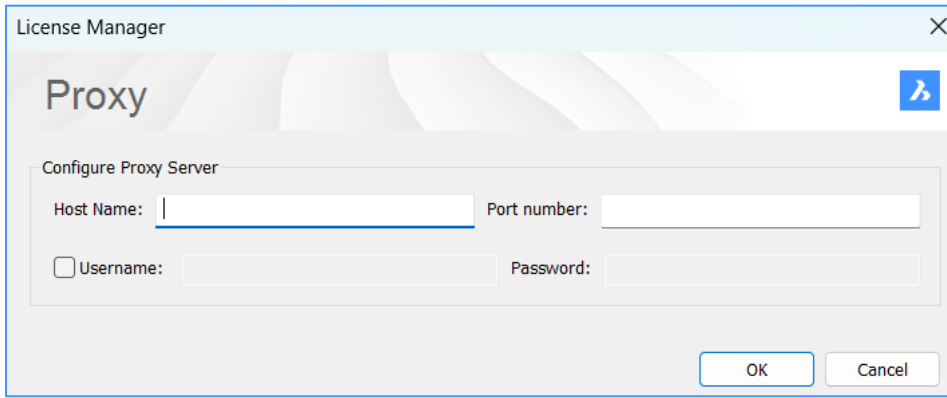
Configuring the proxy settings

1. Click the **Proxy Settings...** button in the **License Manager > Activate BricsCAD** or the **Licensing Information** dialog box.



The **License Manager > Proxy** dialog box opens.

2. Complete the necessary fields in the **License Manager > Proxy** dialog box.



3. Click the **OK** button to continue.

Note:

- The proxy settings configuration remains active for the current BricsCAD session only. If you need to reactivate or deactivate a license in a future session, you will have to reconfigure the proxy settings.
- The proxy server is also configurable from the **Proxy settings** section in the **Settings** dialog box.

Configuring the proxy settings permanently for network license use

If you use a network license, BricsCAD needs to connect to the license server each time a session is opened. Therefore, the proxy settings must be configured permanently.

Proceed as follows on the computer where BricsCAD is running:

1. Create the **HTTP_PROXY** variable: `HTTP_PROXY=[LicenseServer]:[PortNumber]`.
2. (Optional) If the proxy server supports basic authentication, create the **HTTP_PROXY_CREDENTIALS** variable: `HTTP_PROXY_CREDENTIALS=[UserName]:[Password]`.

Roam (check-out) a license

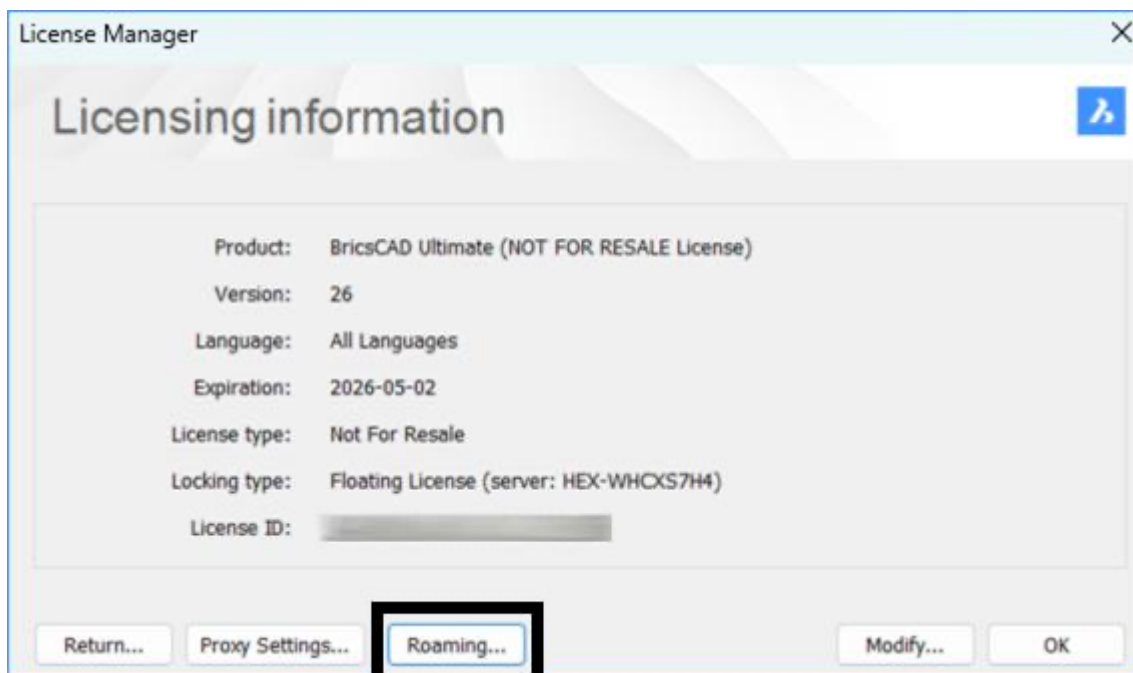
With a network license, you can set a floating license to roam to a system which will subsequently be disconnected from the network. The resulting license can be used for the number of days specified when the license was set to roam. After this period, the license is checked back in automatically. If needed, you can return the roamed license to the license pool early.

The license file(s) on the Network License Server contain(s) a parameter **max_roam_count**. This is set to the total number of seats on a network license by default.

Roaming a Network license on a client computer

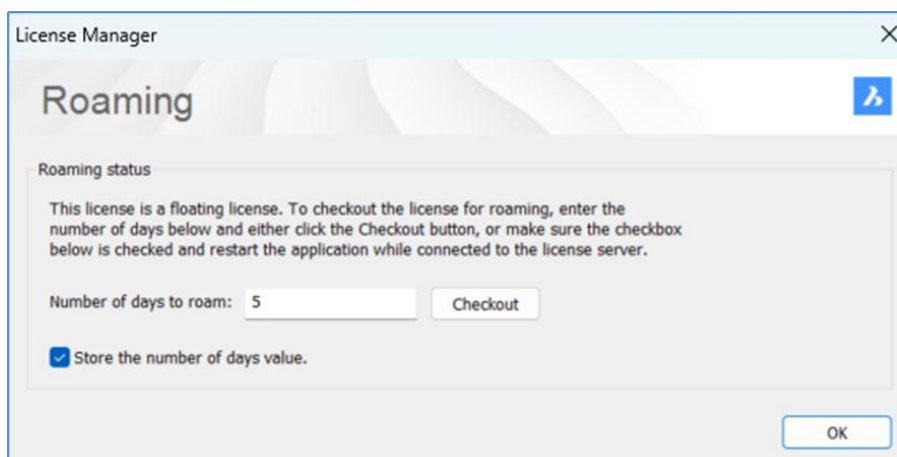
A network license can be roamed to use BricsCAD without connection to the license server (work outside of the office, at home, etc.).

When a network license is used on a client computer, the **Roaming...** button is displayed in the **License Manager > Licensing information** dialog box.



1. If your computer is connected to the license server through a proxy server, click the **Proxy Settings** button to configure the proxy settings for a network license.
2. Click the **Roaming...** button.

The **License Manager > Roaming** dialog box opens.



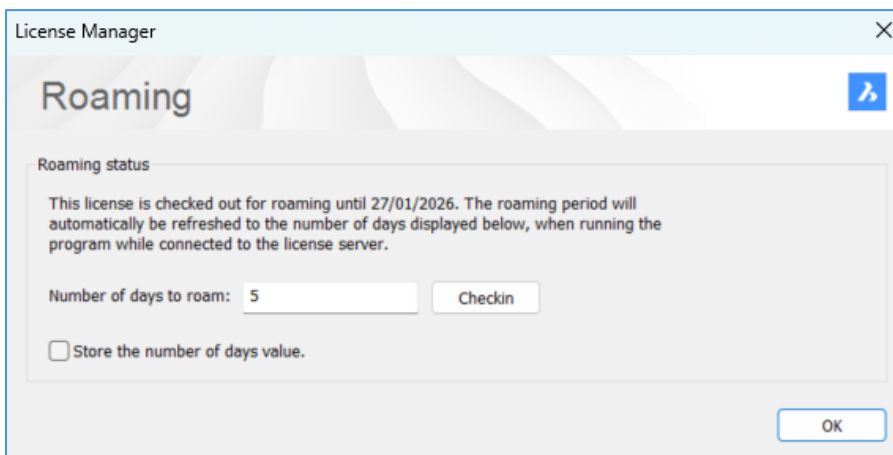
3. Enter the number of days you want to check out the license for roaming and click the **Checkout** button.
4. (Optional) Tick the checkbox if you want to automatically refresh the roaming period when your computer is connected to the server.
5. Restart BricsCAD to apply the changes.

Returning a roamed Network license to the server

If you are connected to the license server, you can return a roamed license to the server.

1. Click the **Roaming...** button in the **License Manager > Licensing information** dialog box.

The **License Manager > Roaming** dialog box opens.



2. Click the **Checkin** button.
3. Restart BricsCAD to apply the changes.

Deactivating and Revoking a License

Deactivate a BricsCAD license

Make sure you deactivate a license before:

- Migrating a license to another computer.
- Permanently removing BricsCAD from a computer.
- Installing a new hard disk.
- Restructuring the disk partitions.
- Upgrading the operating system.

To deactivate a BricsCAD license, an internet connection is required. You cannot manually deactivate a license via another computer that is connected to the internet.

Note: You cannot deactivate:

- Single-user licenses that are manually activated.
- Network licenses.
- Trial licenses.

If it is not possible to deactivate a BricsCAD license, you can revoke the license.

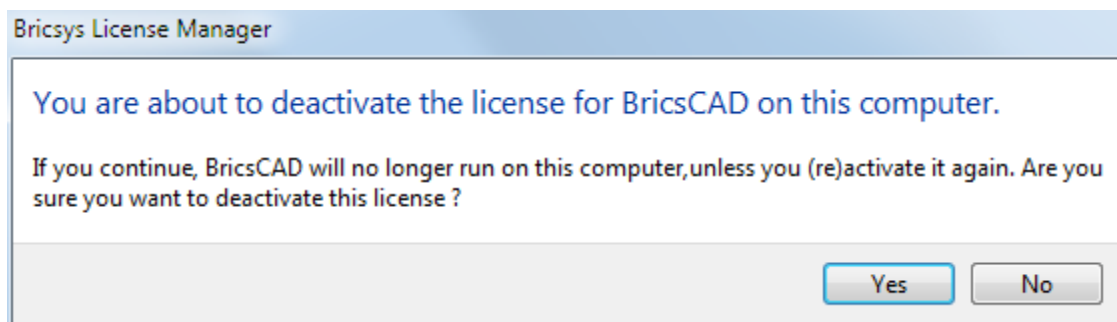
Important: The revoke possibility is limited to two per key and the action cannot be undone. Consult also the **Revoke a BricsCAD license (limited operation)** article.

To deactivate a license:

1. Launch the LICENSEMANAGER command. Click the **Manage License** option in the **Bricsys License Manager** dialog box.

The **License Manager > Licensing information** dialog box displays.

2. If your computer connects to the license server through a proxy server, click **Proxy Settings...** to configure the proxy settings.
3. Click **Deactivate...**



4. Click the **Yes** button in the confirmation dialog box to deactivate the license.

The license is deactivated and can be activated on another computer.

Note:

- The number of times you can deactivate is unlimited. To move a license, always use the deactivate and reactivate options.
- When you uninstall BricsCAD, the **Bricsys License Manager** dialog box appears, giving you the option to deactivate the current local license or keep it active.

Tip: The deactivation of BricsCAD licenses can be automated with the LicTool application. See more information in the [How to automate activation and deactivation of local BricsCAD licenses using the LicTool application](#) article.

Revoke a BricsCAD license (limited operation)

Warning:

- Only revoke a license if deactivation is not possible.
- Support must be contacted first before revoking a license.
- The revoke possibility is limited to two per key.
- There is no return possible if you revoke a license.

Use this procedure to:

- Migrate a network license to a new server.
- Revoke a single-user license that was manually activated.
- Reactivate BricsCAD after a hard disk crash.

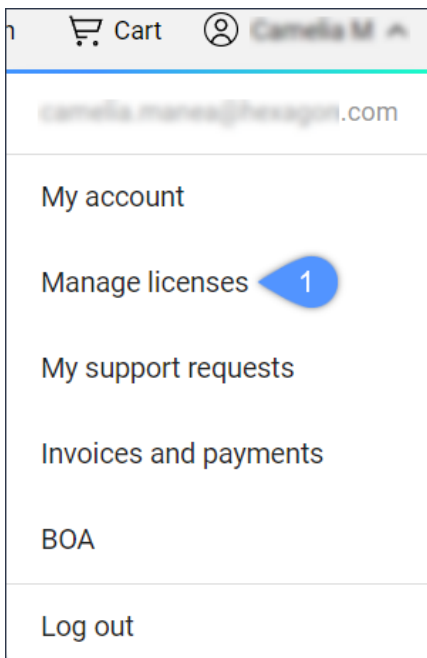
Important: When in doubt, [submit a support request](#) in the **Licensing > Revoke license** category. See also the [How to submit a support request](#) article.

To revoke a license:

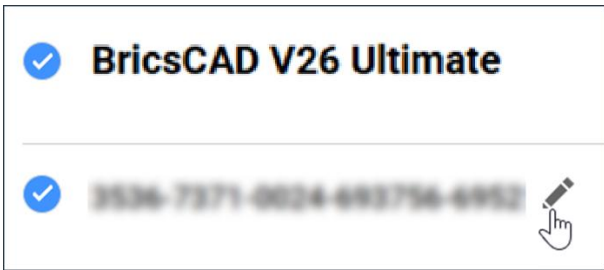
1. Log in to the Bricsys website.

Make sure you log in with the Bricsys account containing your licenses.

2. Click the **My Account** icon (👤) and select **Manage licenses** (1) in the menu.



3. Hover over the license key of the license you want to revoke and click on the pencil icon (✎).



4. Scroll down and click the X icon to revoke the license.

[Show details](#)



Note: If you are a Maintenance user, contact support to review your additional revoke request.

Migrating Licenses

Migrating a Single-user license to another computer

All your valid licenses can be found on the Bricsys website (login required):

<https://www.bricsys.com/protected/account/licenses>.

1. Deactivate the license on the old computer.
2. Launch BricsCAD on the new computer.
3. Activate the license on the new computer.

Migrating a Network license to another server

Do the following:


1. Revoke the license. See the **Revoke a BricsCAD license (limited operation)** article for more information.
2. Activate the license on your new server. See the **Online activation (Network license)** article for more information.
3. Shut down the license manager on the old server and delete the license file on the old server.

Note: The revoke possibility is limited to two per key. Contact support if you cannot revoke the license.

Managing BricsCAD licenses with multiple Bricsys accounts

You can share licenses with one or more other Bricsys accounts to allow them to view, activate, and revoke your license(s).

Do the following:

1. Log in to the Bricsys website.
2. Click your user name and select **Manage licenses** in the drop-down menu.
3. Hover over the license you want to share and click the Pencil icon (.

The **License details** page displays.

4. Under **Managers**, click **Add Manager**.
5. Type the login email address* of the new manager, then click the plus icon.

The new manager has been added.

An email is sent to inform the new manager.

The **X** icon after the name allows you to remove the manager.

* Managers must have a Bricsys account.