
SolidNetWork License

Installation and Administration Guide

For SolidWorks Education Edition

Introduction

The SolidNetWork License allows users to install more seats of the SolidWorks® software than they have licenses for, by floating the use of those seats without exceeding the number of licenses purchased.

There are four sections in this document to serve different installation and administrative needs:

- [Section 1](#) describes server installations, including license servers, file servers, and triad servers.
- [Section 2](#) describes client installations, including license clients and license and application clients.
- [Section 3](#) describes how to upgrade your SolidNetWork License installation for major versions of SolidWorks. This includes upgrading your SolidNetWork License Manager or upgrading your license file.
- [Section 4](#) describes how to manually stop a client's SolidNetWork License connection (kill the license) to put the license back in the license pool.

Minimum Requirements

The SolidNetWork License has some requirements in addition to the SolidWorks software requirements:

- The SolidNetWork License server and all license clients must be on the same network, using TCP (Transmission Control Protocol).
- The operating system of the SolidNetWork License server must be Windows® NT 4.0, Windows 2000, or Windows XP Professional. (The SolidNetWork License server is not supported on Windows 9x.)
- The GLOBEtrouter® FLEXid™ hardware key (dongle) must be attached to either the parallel port or USB port (depending on the type of dongle you have) of each SolidNetWork License server prior to software installation.

NOTE: USB dongles are not supported on Windows NT 4.0.

- Each SolidNetWork License server must have a license information file (hereafter called a FLEXID file), related to the dongle in its parallel port or USB port.

To obtain a FLEXID file:

1. Go to www.solidworks.com.
2. Click **Services** then **Support**.
3. Under **Support Login**, enter your SolidWorks EDU Serial Number, click **Login**
4. On the left side of the next page, under **Support** select **Registration** (then Enter)
Find **EDU SNL file request**—then enter your **E-mail** address and **Dongle ID** (hardware lock ID) (note: your serial number should be pre-entered for you) then select **Continue**

SolidWorks Education Edition '03-'04

You will receive the FLEXID file via email at the address you entered.

5. Copy the FLEXID file to your hard drive.

License Clients and Application Clients

- An *application client* does not have the SolidWorks application installed; it must run SolidWorks from a file server. During the SolidWorks installation, a “file client” installation must be performed on this computer for it to share the SolidWorks application with a server.
- A *license client* has the SolidWorks application installed, but does not have a license to run the program. It must obtain a license from the SolidNetWork License server each time it starts SolidWorks. This process is invisible to the user unless all licenses are in use and permission is denied.
- An *application and license client* does not have the SolidWorks application installed. During the SolidWorks installation, a “file client” installation must be performed on this computer for it to share the SolidWorks application with the server. Each time the client runs the SolidWorks application from the file server, it must also obtain a license from a SolidNetWork License server. (The application and the license may be served by the same computer or different computers.)

Section 1: Server Installations

This section details typical SolidNetWork server installations on a network. The network may consist of both *license clients* and *application and license clients*.

The SolidNetWork License server may do one of the following:

- distribute only the SolidWorks license
- distribute the SolidWorks license and the SolidWorks application

NOTE: Install the license server first. When the clients are installed, they must confirm that contact can be made with the SolidNetWork License server.

License Server Installation

The SolidNetWork License server supports multiple license clients. It distributes licenses to clients on the network.

To perform a SolidNetWork License server installation:

1. Insert the SolidWorks Education Edition **CD #2** (not #1) into your CD-ROM drive.
2. Using Windows Explorer browse to the CD-ROM drive and find the folder:
wSolidWorks License Manager
Open this and find the file **setup.exe** and double click it to start the install process.
3. Follow the on-screen directions until the **SolidNetWork License File Wizard** dialog box appears.
4. Under **Server Type**, select **Single** or **Triad**.
5. Click **Next**.

The **Server Information** box appears.

NOTE: The port number is a TCP/IP port number in the range 1024 - 60000 that cannot be used by any other process. The default, 16560, is normally suitable and is unlikely to be the same as any other FLEXlm[®] server process currently on your license server.

SolidWorks Education Edition '03-'04

6. Click **Next**.
7. Click **Read** to enter your license information.
The **Read Licenses** dialog box appears.
8. Click **Browse**.
The **Select a file containing license information** dialog box appears.
9. Browse to your license file, then click **Open**.
The **Read Licenses** dialog box appears.
10. Click **OK**.
The licenses appear in the **SolidNetWork License File Wizard**.
11. Click **Finish**.
The **Setup complete** dialog box appears.
12. Click **Finish**.

SolidNetWork License Server and File Server Installation

The license server and file server installation supports one computer on the network to distribute both the SolidNetWork License and the SolidWorks application. The clients obtain a license from the license server and then run the SolidWorks application from the same computer.

NOTE: This configuration requires the license server and file server installations on the same computer.

To perform the license server and file server installation:

1. Install the SolidNetWork License server, as described in “SolidNetWork License server installation.”
2. Insert SolidWorks Education Edition CD #1 into your CD-ROM drive.
The **SolidWorks Master Setup** dialog box appears.
3. click **Install**.
4. Follow the on-screen directions until the **Installation Type Selection** dialog box appears.
5. Select **Server**, then click **Next**.
6. Follow the on-screen directions to complete the installation.

SolidWorks Education Edition '03-'04

Additional SolidNetWork License Server Information

The SolidNetWork License Manager is a convenient means of configuring a FLEXlm server, and it includes common configuration installs. However, the FLEXlm software provides additional options. For more information, see:

<SolidNetWork License Manager install folder>\docs\flexuser\alltoc.htm

For example, SolidWorks can register idle time with the server so that licenses that have not been used for a certain amount of time are returned to the free license pool. You must create the text file:

<SolidNetWork License Manager install folder>\Licenses\slwks_d.opt

and edit it to contain the following line:

TIMEOUTALL *seconds*

Replace *seconds* with a number greater than or equal to 900 (15 minutes), which is the minimum time allowed.

Triad Server Specific Installation Information

SolidNetWork License supports a three-server redundancy known as triad servers.

- Install triad servers on stable computers. Do not install on computers that are frequently rebooted or shutdown.
- The three servers should be on the same subnet. Never configure triad servers with slow communications or dialup links.
- The system administrator should detect when a server goes down and restart it as soon as possible. If only two servers are running, the situation is worse than a single license server, because there are two points of failure. You are twice as likely to lose all licenses than if you had a single license server.

NOTE: Triad servers should not be used in the following circumstances:

- Sites with no system administrators, because triad servers require administrative attention.
- Sites where a single computer is a point of failure for the system. If all end-user data is on a single file server, there is no benefit in using triad servers.

To install the SolidNetWork License on a triad server:

Installing the first triad server:

1. Install the first triad server by completing steps 1 to 3 in “SolidNetWork License server installation.”
2. In the **SolidNetWork License File Wizard**, under **Server Type**, select **Triad**.
3. Click **Next**.

The **Server Information** box appears.

4. Click **Next**.
5. Enter the **Computer Name** and **Dongle ID** for the Triad Partner 1 and Triad Partner 2 servers.

NOTE: This ensures that if one of the servers becomes unavailable, the client will still be able to get a license from the two other servers (as long as they are available).

6. Click **Next**.

SolidWorks Education Edition '03-'04

7. Click **Read** to enter your license information.
The **Read Licenses** dialog box appears.
8. Click **Browse**.
The **Select a file containing license information** dialog box appears.
9. Browse to your license file, then click **Open**.
The **Read Licenses** dialog box appears.
10. Click **OK**.
The licenses appear in the **SolidNetWork License File Wizard**.
11. Click **Finish**.
The **SolidNetWork License File Wizard** warning dialog box appears.
12. Click **OK**.
13. Click **Finish**.

Installing the other two servers:

NOTE: Before installing the second and third triad servers, make sure the license file of the first server is visible on the second and third servers.

1. Complete steps 1 to 3 in “SolidNetWork license server installation.”
2. In the **SolidNetWork License File Wizard**, under **Server Type**:
 - Select **Triad**.
 - Select the **Synchronize server/license information** check box.
3. Click **Next**.
The **Triad Server Information** box appears.
4. Click **Next**.
5. Click **Read** to enter your license information.
The **Read Licenses** dialog box appears.
6. Click **Browse**.
The **Select a file containing license information** dialog box appears.
7. Browse to **sldwks_d.lic** on the first triad server, then click **Open**.
The **Read Licenses** dialog box appears.
8. Click **OK**.
The licenses appear in the **SolidNetWork License File Wizard**.
9. Click **Finish**.
The **SolidNetWork License File Wizard** warning dialog box appears.
10. Click **OK**, then click **Finish**.
11. Repeat steps 1 to 10 for the remaining server.

SolidWorks Education Edition '03-'04

Section 2: Client Installations

This section guides you in license client, and license and application client installations.

License Client Installation

You must install the SolidNetWork License server prior to installing a license client.

To perform a license client installation:

1. Insert SolidWorks Education Edition **CD #1** into your CD-ROM drive.
The **SolidWorks Master Setup** dialog box appears.
2. Click **Install**.
3. Follow the on-screen directions until the **Installation Type Selection** dialog box appears.
4. Select **Individual**.
5. Click **Next**.
6. Follow the on-screen directions until the **SolidNetWork License Administrator** dialog box appears.
7. Click **Add**.
The **Add Server** dialog box appears.
8. Type the SolidNetWork License server's address in the form:
port@ComputerName
NOTE: The port number must be the same one used for the server. The default is 16560 as described in "SolidNetWork License server installation."
8. Click **OK**.
9. Follow the on-screen directions to complete the installation.

License and Application Client Installation

You install a license and application client the same as a file client computer.

To perform a file and license client installation: (changed with SW 2001Plus)

1. Insert CD 1 and run the install process---choose Client
2. Type or browse to the location of the SolidWorks server installation when prompted.
NOTE: This server folder must be shared and accessible to the file client.
3. Follow the on-screen directions until the **SolidNetWork License Administrator** dialog box appears.
4. Click **Add**.
The **Add Server** dialog box appears.

SolidWorks Education Edition '03-'04

5. Type the SolidNetWork License server's address in the form:

port@ComputerName

NOTE: The port number must be the same one used for the server. The default is 16560 as described in "SolidNetWork License server installation."

6. Click **OK**.
7. Follow the on-screen directions to complete the installation.

Section 3: Upgrading your SolidNetWork License installation for major versions of SolidWorks

If your SolidNetWork License expires, you must upgrade to a new license.

NOTES:

- It is recommended that you upgrade your SolidNetWork License Manager in order to run a new major SolidNetWork License version of SolidWorks (not a SolidWorks service pack).
- You must upgrade your license file prior to running a new major version of SolidWorks (not a SolidWorks service pack). For example, you cannot run SolidWorks 2003 with a SolidNetWork License created for SolidWorks 2001Plus. However, you can run SolidWorks 2001Plus with a SolidNetWork License created for SolidWorks 2001.
- Before you upgrade your SolidNetWork License Manager, make sure:
 - You have received your new SolidNetWork License file. Subscription customers receive a new license file via email before their current license expires. Non-subscription customers can upgrade only their license file, not the SolidNetWork License Manager, because they do not receive new major versions of the SolidWorks application. See "To upgrade your license file without upgrading your SolidNetWork License Manager."
 - No clients are running SolidWorks. To check for this, in the Windows **Start** menu, click **Programs, SolidNetWork License Manager, SolidNetWork License Administrator**. The **License Usage** tab displays any clients that are running SolidWorks.

To upgrade your SolidNetWork License Manager on a license server:

1. In the Windows **Start** menu, click **Programs, SolidNetWork License Manager, SolidNetWork License Administrator**.
The **SolidNetWork License Administrator** dialog box appears.
2. On the **Server Administration** tab, under **License Server**, click **Stop**.
3. Click **OK** to close the dialog box.
4. In the Windows **Start** menu, click **Settings, Control Panel**.
5. Double-click **Add/Remove Programs**.
The **Add/Remove Programs Properties** dialog box appears.
6. Select **SolidNetWork License Manager** from the list.
7. Click **Add/Remove**, and confirm that you want to delete **SolidNetWork License Manager**.

SolidWorks Education Edition '03-'04

8. In Windows Explorer, delete the **SolidNetWork License Manager** folder.
9. Install the current SolidNetWork License Manager as described in the previous sections of this document, and browse to the new license file when prompted.

NOTE: You can now install the new major version of the SolidWorks application, as documented in the previous sections.

To upgrade your SolidNetWork License Manager on an application server:

1. Complete steps 1 to 9 in “To upgrade your SolidNetWork License Manager on a license server.”
2. Install the current SolidNetWork License Manager as described in “SolidNetWork License server installation.”

To upgrade your license file without upgrading your SolidNetWork License Manager:

1. In the Windows **Start** menu, click **Programs, SolidNetWork License Manager, SolidNetWork License Administrator**.

The **SolidNetWork License Administrator** dialog box appears.

2. On the **Server Administration** tab, under **License Server**, click **Stop**.
3. Under **License File**, click **Modify**.

The **SolidNetWork License File Wizard** dialog box appears.

4. Click **Next**.

The **Server Information** box appears.

5. Click **Next**.

The **Licenses** box appears.

6. Click **Read**.

The **Read Licenses** dialog box appears.

7. Click **Browse** to browse to your new license file, then click **OK**.

8. Click **Finish**.

9. In the **SolidNetWork License Administrator** dialog box, under **License File**, click **Reread**.

10. Click **OK**.

NOTES:

- You can now install the new major version of the SolidWorks application, as documented in the previous sections.
- You can delete your expired license, but it is not necessary to do so.

To delete your expired license:

1. In the Windows **Start** menu, click **Programs, SolidNetWork License Manager, SolidNetWork License Administrator**.

2. Under **License File**, click **Modify**.

The **SolidNetWork License File Wizard** dialog box appears.

SolidWorks Education Edition '03-'04

3. Click **Next**.
The **Server Information** box appears.
4. Click **Next**.
The **Licenses** box appears.
5. Select your expired license, then click **Remove**.
6. Click **Finish**.
The expired license is deleted.

Section 4: Stopping a client's SolidNetWork License connection

If you want to terminate a client's SolidNetWork License connection, you can manually "kill" the license. For instance, if you have the timeout feature enabled for two hours (the default), but want to end a client's session before it expires, you can kill their license.

NOTE: The client must be logged on to the license server for at least two minutes to kill the SolidNetWork License.

To kill a client's SolidNetWork license:

1. In the Windows **Start** menu on the license server, click **Programs, Command Prompt**.
2. At the command prompt, use the `cd` (change directory) command and enter:
`<SolidNetWork License Manager install folder>\utils`
3. At the command prompt, type:
`lmutil lmremove <feature user host display>`
where *feature* is the application, *user* is the username, and *display* is the server name.
For example, to kill the SolidWorks license of user = doc, display = corp, type:
`lmutil lmremove solidworks doc corp corp`

NOTES:

- In Windows, the *display* name is the same as the *host* name.
- Each add-in (PhotoWorks, FeatureWorks, and so on) must be removed separately.
- You may want to configure the SolidNetWork License timeout feature to the 15 minute minimum. That way, after 15 minutes of idle time, the license is put back in the free license pool, as discussed in "Additional SolidNetWork License Server Information."