



# **LICENSE GUIDE**

## Release Note



## Table of Contents

License Manager.....	1
Licensing – Client Side .....	2
3DXpert.....	4
Get Node IDs – Client Side.....	5
License Manager – Client Side.....	6
License Manager - Client Side: Activate License .....	9
Local-Node (Standalone) License .....	10
Floating License .....	11
Mixed Mode License.....	13
Package Manager – Client Side .....	14
Geomagic, 3D Sprint & Others .....	15
License Manager – Client Side.....	16
License Manager - Client Side: Activate License .....	18
License Manager - Client Side: Deactivate License .....	20
License Manager - Client Side: Update License.....	22
Floating License .....	24
Licensing – Server Side .....	26
License Service (CimLmService).....	26
License Server Monitor .....	26
Configuration tab.....	27
Group Manager .....	28
Remove User .....	33
License Manager – Server Side.....	34
Client Activities tab.....	45
Access Errors tab .....	46
Licensing Troubleshooting.....	47
License Server Installation.....	48
Hardware Requirements.....	48
Software Requirements .....	49
Installation Procedure .....	50



## License Manager

A flexible licensing system enables you to make the most efficient use of your software licenses. The system supports two types of licenses; **Local-Node License** (also called a Node-Locked or Standalone license) and **Floating License** (also called a Network license). A Local-Node and Floating license can be used together; this is called **Mixed Mode**.

The Licensing is enabled on the Client Side and also on the Server Side. Server side activation is needed only for a floating license.

### On the Client Side

The **License Manager** defines the path to the local license file (received from your Provider or Reseller), or allows the user to enter the activation code, so that your product can verify the license, and also displays license information per product and version number.

The **License Manager** dialog is displayed showing installed 3D Systems software, from the Client computer.

### On the Server Side

The **License Server** runs the **License Service (CimLmService)** which manages client requests for licensing services from the floating license.

For additional information, see:

Licensing - Client Side on page 2.

Licensing - Server Side on page 26.

## Licensing – Client Side

A flexible licensing system enables you to make the most efficient use of your software licenses. The system supports two types of licenses; **Local-Node License** (also called a Node-Locked or Standalone license) and **Floating License** (also called a Network license). A Local-Node and Floating license can be used together; this is called **Mixed Mode**.

The procedure for acquiring and setting up the license depends on your 3D Systems product and is detailed below.

### For 3DXpert:

To use this product, you require a license file. The license file is sent to you by your local Provider or Reseller. This license is issued for a specific computer and Hasp number.



**Note: The license file is only relevant for 3DXpert.**

1. Get Node IDs - Client Side; see page 5.

To receive the license file, you first have to run the **Get Node IDs** utility. This utility creates a text file that should be sent to your Provider or Reseller. This text file contains data about your computer required by the system to issue you your license file. In return, you will receive your license file.

Extract and save the license file on the computer from which the **Node IDs** utility was run.

2. License Manager - Client Side; see page 6.

The **License Manager** is a tool to manage your license. You can either view your license, set your local license or connect to your server license (setting its name or IP).

The **License Manager** defines the path to the local license file (received from your Provider or Reseller), so that your product can verify the license, and also displays license information per product and version number.

3. Package Manager - Client Side; see page 14.

Once the license is defined, use the **Package Manager** to select a **Base Package** in order to work.

Any valid license must contain at least one base package. Select a base package from the list of available base packages displayed in the **Package Manager** dialog.

If there is only one Base Package available in all the valid licenses, it is automatically selected and the **Package Manager** dialog is not displayed. However, if there is more than one Base Package available for you, the Package Manager is displayed listing the available Packages and you are required to select one.

Once you have selected a Base Package, it is automatically loaded the next time you run the product, unless all the available licenses of this package are already grabbed by other users. In this case, the system will require you to select a different Base Package, if one is available (if no Base Package is available, the Package Manager dialog is displayed empty).

**For Geomagic, 3D Sprint & Others:**

1. License Manager - Client Side; see page 6.

The **License Manager** is a tool to manage your license. You can either view your license, activate, deactivate or update your local license or connect to your server license (setting its name or IP).

See Licensing Troubleshooting on page 47.



**Note:** For additional information on licensing, contact your Provider or Reseller.

## 3DXpert

The procedure for acquiring and setting up the license depends on your 3D Systems product and is detailed below.

### For 3DXpert:

To use this product, you require a license file. The license file is sent to you by your local Provider or Reseller. This license is issued for a specific computer and Hasp number.



**Note: The license file is only relevant for 3DXpert.**

1. Get Node IDs - Client Side; see page 5.

To receive the license file, you first have to run the **Get Node IDs** utility. This utility creates a text file that should be sent to your 3D Systems Provider or Reseller. This text file contains data about your computer required by the system to issue you your license file. In return, you will receive your license file.

Extract and save the license file on the computer from which the **Node IDs** utility was run.

2. License Manager - Client Side; see page 6.

The **License Manager** is a tool to manage your license. You can either view your license, set your local license or connect to your server license (setting its name or IP).

The **License Manager** defines the path to the local license file (received from your Provider or Reseller), so that your product can verify the license, and also displays license information per product and version number.

3. Package Manager - Client Side; see page 14.

Once the license is defined, use the **Package Manager** to select a **Base Package** in order to work.

Any valid license must contain at least one base package. Select a base package from the list of available base packages displayed in the **Package Manager** dialog.

If there is only one Base Package available in all the valid licenses, it is automatically selected and the **Package Manager** dialog is not displayed. However, if there is more than one Base Package available for you, the Package Manager is displayed listing the available Packages and you are required to select one.

Once you have selected a Base Package, it is automatically loaded the next time you run the product, unless all the available licenses of this package are already grabbed by other users. In this case, the system will require you to select a different Base Package, if one is available (if no Base Package is available, the Package Manager dialog is displayed empty).

See Licensing Troubleshooting on page 47.



**Note:** For additional information on licensing, contact your Provider or Reseller.



## Get Node IDs – Client Side

**This procedure is only relevant for 3DXpert.**

To use this product, you require a license file. The license file is sent to you by your local Provider or Reseller. This license is issued for a specific computer and Hasp number.

To receive the license file, you first have to run the **Get Node IDs** utility. This utility creates a text file that should be sent to your Provider or Reseller. This text file contains data about your computer required by the system to issue you your license file. In return, you will receive your license file.



**Note: The license file is only relevant for 3DXpert.**

The **Get Node IDs** utility is supplied on the installation DVD.

The **Get Node IDs** dialog is displayed with the relevant data:



**Note:** In order to create the text file, you must have a plug or a physical LAN Ethernet address.

<b>HASP ID</b>	The Hasp ID value is the "long" Hasp ID number.
<b>Node ID</b>	The Node ID value is the "short" Hasp ID number.
<b>Key</b>	Displays the machine key.
<b>Ethernet Address</b>	Displays the Ethernet address.
<b>Send To</b>	Create a text file and automatically send it to the email address entered in the adjacent field. The <b>Send To</b> button is available once an email address is entered. The text file contains data about your computer required to issue you your license file (see below, in the <b>Save to File</b> explanation). The email address should be that of your Provider or Reseller. An appropriate message is displayed when the email is successfully sent or if a problem occurs. The selected email address is saved in the Registry for the next time the tool is used.
<b>Save to File</b>	Save the text file containing data about your computer required to issue you your license file. This file should then be manually emailed to your Provider or Reseller.
<b>Close</b>	Close the application.

## License Manager – Client Side

A flexible licensing system enables you to make the most efficient use of your software licenses. The system supports two types of licenses; **Local-Node License** (also called a Node-Locked or Standalone license) and **Floating License** (also called a Network license). A Local-Node and Floating license can be used together; this is called **Mixed Mode**.

The **License Manager** is a tool to manage your license. You can either view your license, set your local license or connect to your server license (setting its name or IP).

The **License Manager** defines the path to the local license file (received from your 3D Systems Provider or Reseller), so that your 3D Systems product can verify the license, and also displays license information per product and version number.

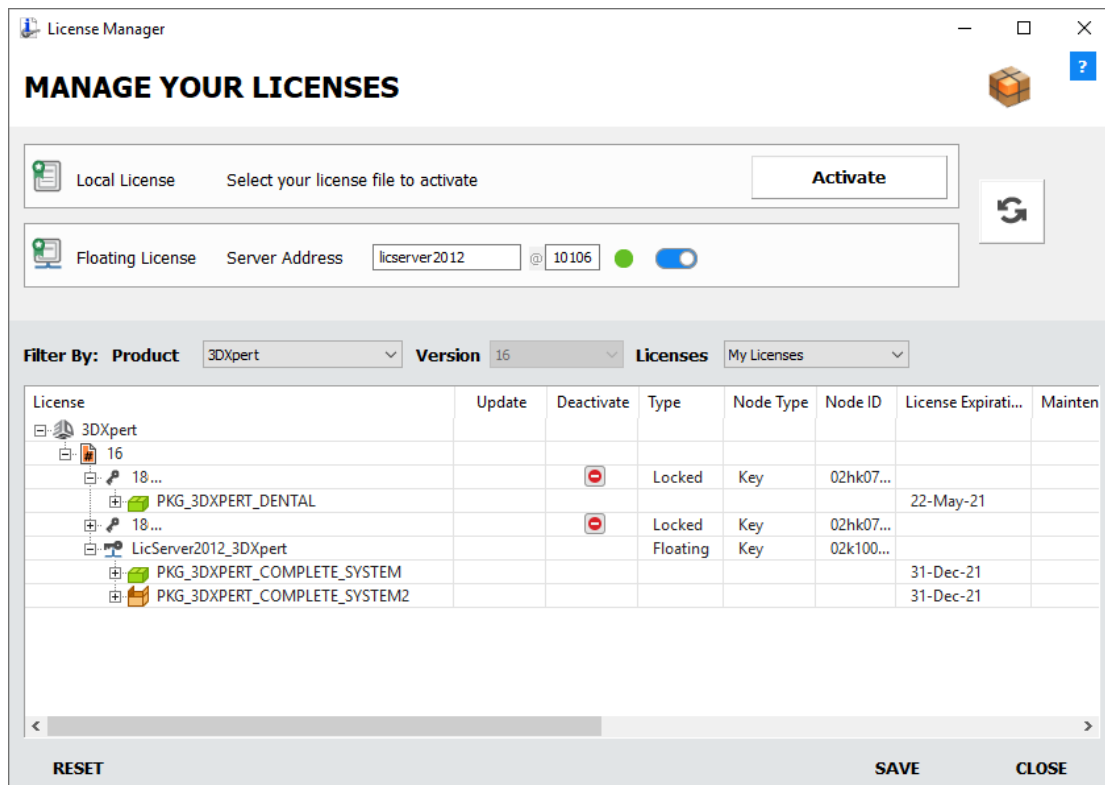


**Note:** The license file is only relevant for 3DXpert.

To use this 3D Systems product, you require a license file. The license file is sent to you by your local 3D Systems Provider or Reseller. This license is issued for a specific computer and Hasp number.

The License Manager can be invoked from the License Server Monitor (see page 26) and shows the license information and version number, per product. Either display your own licenses or all user licenses.

The **License Manager** dialog is displayed showing the installed software, from the Client computer – the example below shows 3DXpert license information.



Note that the example shows the **Deactivate** icon  for the Locked license.

See the explanation for the Dialog Options and Dialog Buttons below.

The License Manager dialog enables you to view multiple license files. Toggling the Licenses dropdown list from "All Licenses" to "My Licenses" filters those licenses which match the Machine Key and HASP\_ID of the protection device connected to the PC.

The file **CimLmLib\_Client.log** tracks any possible errors, in case a license is unavailable for some reason.

License files (node-locked licenses and floating licenses) can be placed in the same folder.

### Dialog Options

The following fields are displayed in the License Manager dialog:

#### License File Locations:

<b>Local License: Select your license file to activate</b>	For a <b>Local-Node License</b> , click the <b>Activate</b> button to browse and select the license file(s) received from your 3D Systems Provider or Reseller - see Get Node IDs on page 5. For additional information on activation, see page 9.
<b>Floating License: Server Address (Port)</b>	For a <b>Floating License</b> , enter the license server address (<the server IP address or the server name> and also the Port).

#### Filter By:



<b>Product</b>	Select the product whose licenses you wish to display. A dropdown list contains all the relevant 3D Systems products on your computer. If only one product is installed, the product name is displayed and the dropdown list is grayed out.	
<b>Version</b>	Select the <i>version</i> of the product whose licenses you wish to display. A dropdown list contains all the versions (of the products) on your computer. If only one version of the product is installed, the version number is displayed and the dropdown list is grayed out. The following options are available in the dropdown list:	
	<b>All</b>	Display all your licenses.
	<b>&lt;&lt;Product_Name&gt; version #&gt;</b>	Display only the licenses relevant to the product version number selected. The number of versions that are displayed in the list depends on the number of valid licenses on your computer.
<b>Licenses</b>	Display licenses (for the selected product and version) from a dropdown list. The following types are available:	
	<b>My Licenses</b>	Display all your licenses.
	<b>All Licenses</b>	Display the licenses of all users.
	<b>Floating Licenses</b>	Display all your floating licenses.

### License Display Area:

Displays the licenses and license contents according to the previously selected parameters.

Licenses displayed in red are invalid licenses. These are licenses that have expired or licenses that do not match the Node ID of your protection device.

### Deactivate

When a license is activated, a **Deactivate** icon  is displayed in the **Deactivate** column of the license in the License Manager dialog. To deactivate a license, click the relevant **Deactivate** icon .

### In Use Column

The **In Use** column shows the number of packages or modules that are currently grabbed, out of the total available.

*This information is only shown for a floating license, see page 12.*

### Customer ID




Displays the customer ID number.

### Remarks

Displays comments.

### Dialog Buttons

The following buttons appear in the **License Manager** dialog:

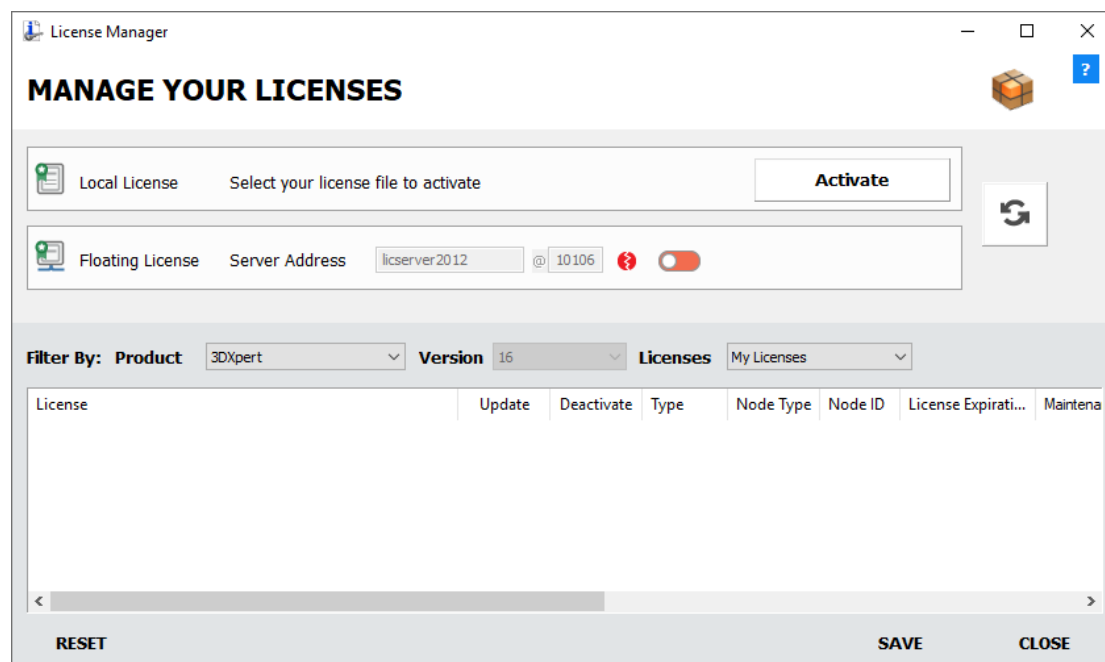
	<b>Help:</b> Open the Help.
	<b>Package Manager:</b> Display the Package Manager – Client Side dialog.
	<b>Refresh View:</b> Refresh the dialog contents after you have changed a setting.
<b>Reset</b>	<b>Load Defaults:</b> Retrieve the last saved settings in the dialog.
<b>Save</b>	<b>Save Settings:</b> Save the current dialog settings.
<b>Close</b>	Close the <b>License Manager</b> dialog.



**Note:** For additional information on licensing, contact your 3D Systems Provider or Reseller.

### License Manager - Client Side: Activate License

To obtain a local license you must click the **Activate** button. The following example is for 3DXpert. The License Manager dialog before activating the license is displayed as follows:

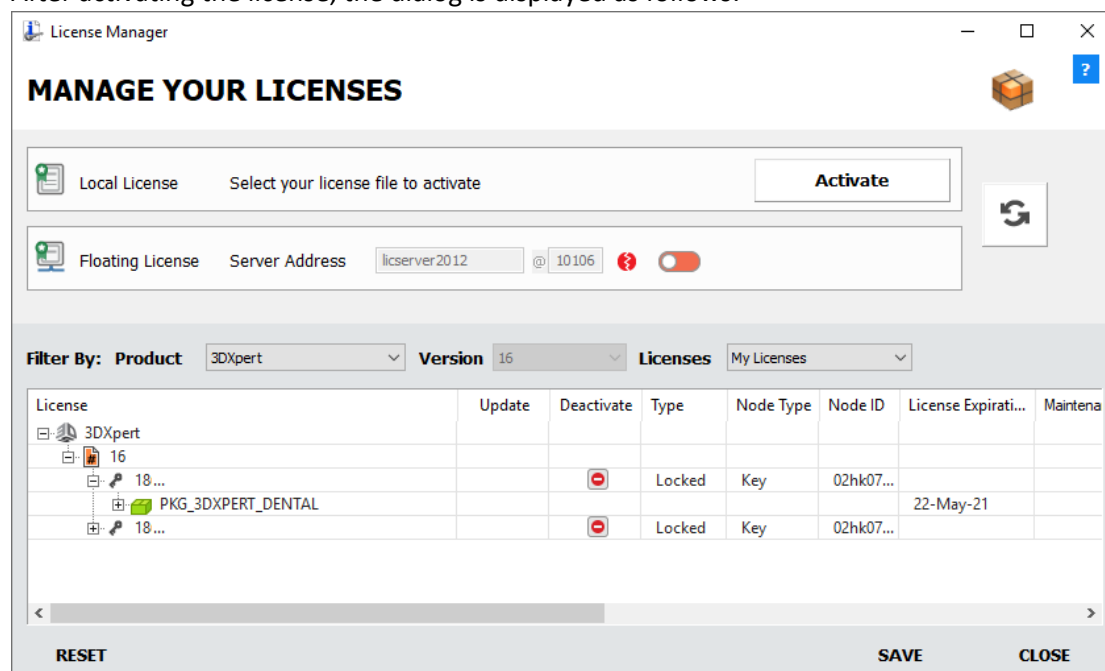



To set up the Local License:

1. Press the **Activate** button.

For a **Local-Node License**, click the **Activate** button to browse and select the license file(s) received from your 3D Systems Provider or Reseller - see Get Node IDs on page 5.

After activating the license, the dialog is displayed as follows:



When a license is activated, a **Deactivate** icon  is displayed in the **Deactivate** column of the license in the License Manager dialog. Click this button to deactivate the license.

### Local-Node (Standalone) License

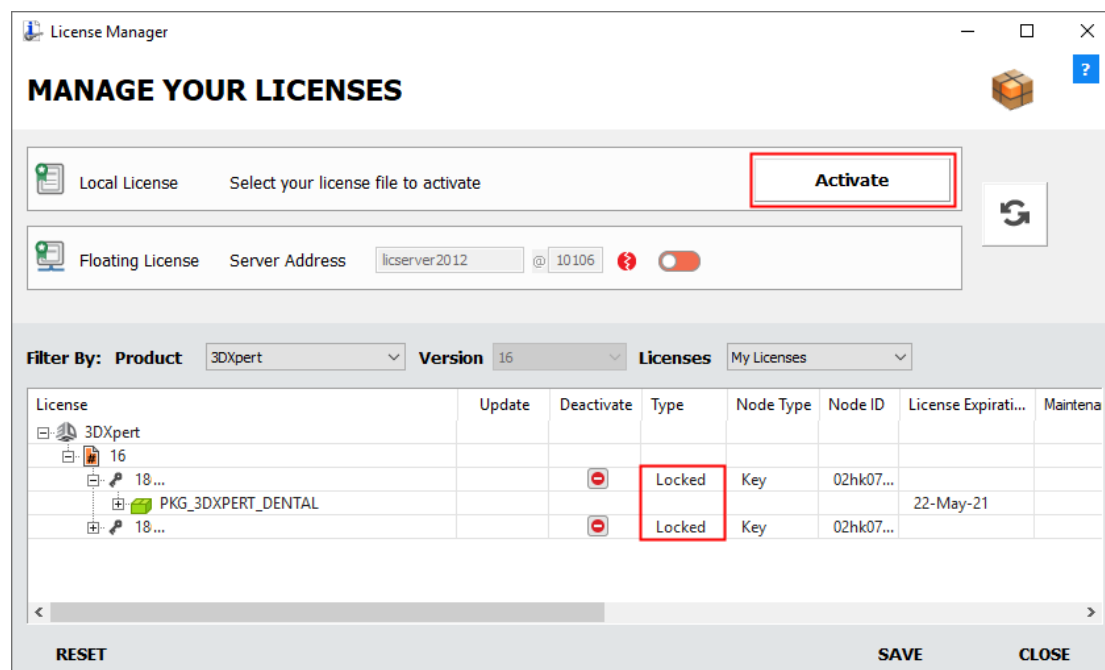
This 3D Systems product supports **Local-Node Licensing** (a Local-Node license is also called a Node-Locked or Standalone license). The license file configuration determines the available licenses.

The **License Manager** defines the path to the local license file (received from your 3D Systems Provider or Reseller), so that your 3D Systems product can verify the license, and also displays license information per product and version number.



**Note:** The license file is only relevant for 3DXpert.

The example below shows 3DXpert license information.



To set up the Local-Node License Information:

1. Invoke the **License Manager** tool. An empty **License Manager** dialog is displayed showing installed 3D Systems software, from the Client computer.  
For an explanation of this dialog, see the **License Manager Dialog Options** and **License Manager Dialog Buttons**, on pages 7 and 8 respectively.
2. Click the **Activate** button to browse and select the license file(s) received from your 3D Systems Provider or Reseller - see **Get Node IDs – Client Side** on page 5.  
The License Manager shows the license configuration of all the license(s) located in the Local License Folder.  
For additional information on activation, see page 9.
3. Press the **Save** button.
4. Press **Close** to close the **License Manager** dialog.

### Floating License

This 3D Systems product supports **Floating Licensing**. The license file configuration determines the available licenses.

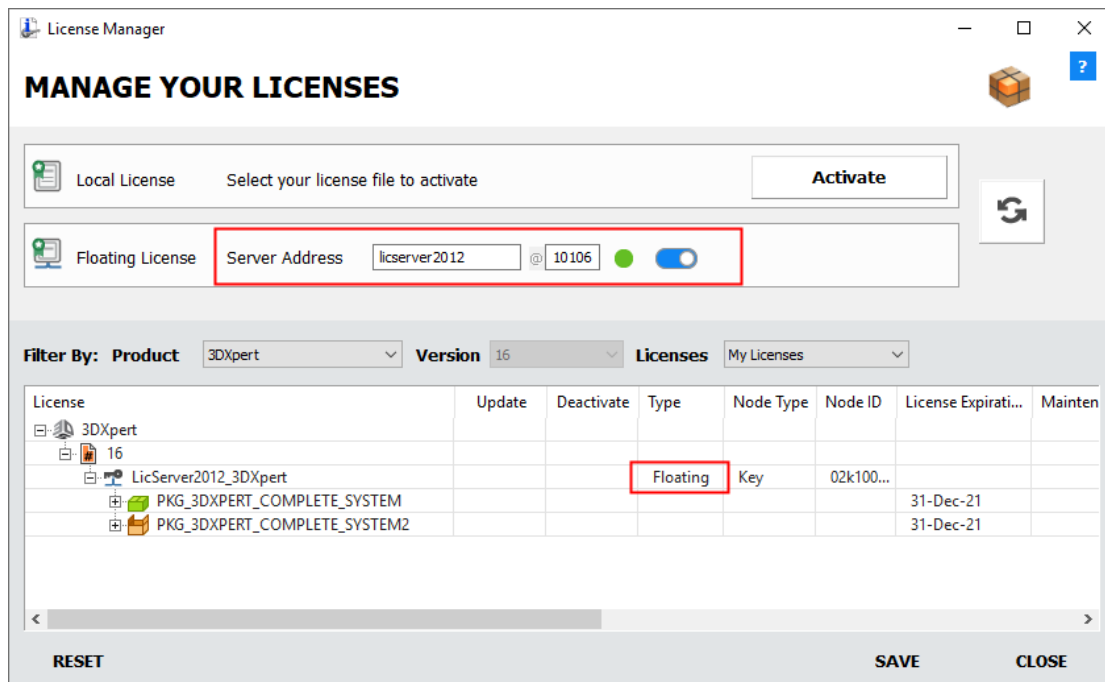
To work with a Floating License, you should set the client computer to connect to a certain server and set the server license port number according to the CimLmService Monitor.

The product supports floating licensing via a TCP/IP port number. This port number (10106) is the default port that is used to communicate between the floating license **server** and the **clients**. The server and the clients must be configured to the same port. This means that if you change this port number in the floating license server (via the CimLmService Monitor, see page 26), you also need to change the port number on the client side (via the License Manager dialog), and vice versa.



**Note:** The server and the clients must be configured to the same port!!!

The example below shows 3DXpert license information.





To set up the Floating License Information (Client Side):



**Note:** To set up the floating license from the **server side**, contact your 3D Systems Provider or Reseller.

1. Invoke the **License Manager** tool. An empty **License Manager** dialog is displayed showing installed 3D Systems software, from the Client computer.  
For an explanation of this dialog, see the **License Manager Dialog Options** and **License Manager Dialog Buttons**, on pages 7 and 8 respectively.

2. In the displayed License Manager dialog, slide the floating license button from OFF  to ON . This enables the **Server Address** field; enter the license server address (<the server IP address or the server name> and also the Port). For example: <server IP address>@10106 or <license server name>@10106.

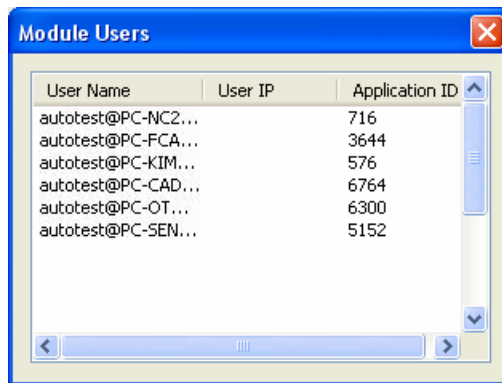


**Note:** A default TCP/IP port number (number.10106) is supplied with the license file.

### In Use Column

The **In Use** column shows the number of packages or modules that are currently grabbed, out of the total available. To retrieve additional information regarding these grabbed packages or modules, right-click on the appropriate row to display the **Module Users** dialog which shows the list of the user and PC names.

*This information is only shown for a floating license.*



3. Press the **Save** button.
4. Press **Close** to close the **License Manager** dialog.



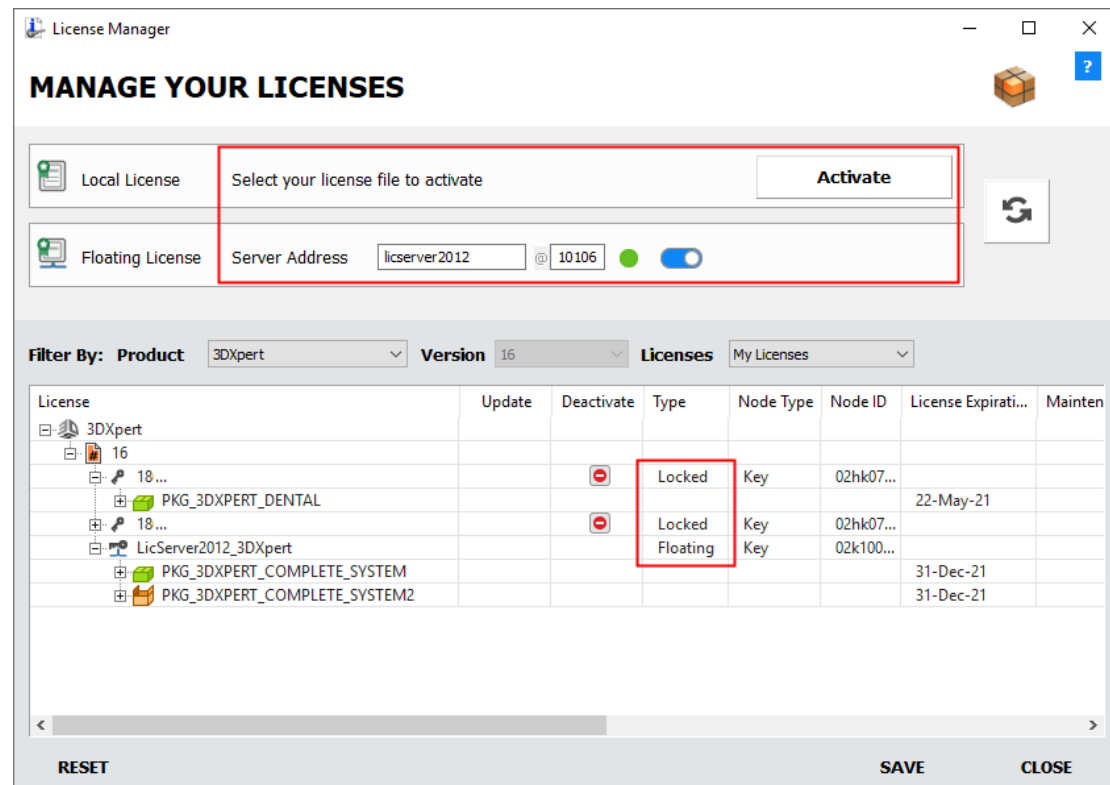
**Note:** For additional information on licensing, contact your 3D Systems Provider or Reseller.



### Mixed Mode License

A Node-Locked and Floating license can be used together; this is called **Mixed Mode**.

The example below shows installed 3D Systems software, from the Client computer - the example below shows 3DXpert license information.



Note that the example shows the **Deactivate** icon  for the Locked license.

For an explanation of this dialog, see the **License Manager Dialog Options** and **License Manager Dialog Buttons**, on pages 7 and 8 respectively.



**Note:** For additional information on licensing, contact your 3D Systems Provider or Reseller.

## Package Manager – Client Side

**This procedure is only relevant for 3DXpert.**

Once the license is defined, you are ready to work. 3D Systems requires the setting of a Base Package in order to work. This is done via the **Package Manager**.

See **Licensing - Client Side** (page 1) for the procedure for acquiring and setting up the license.



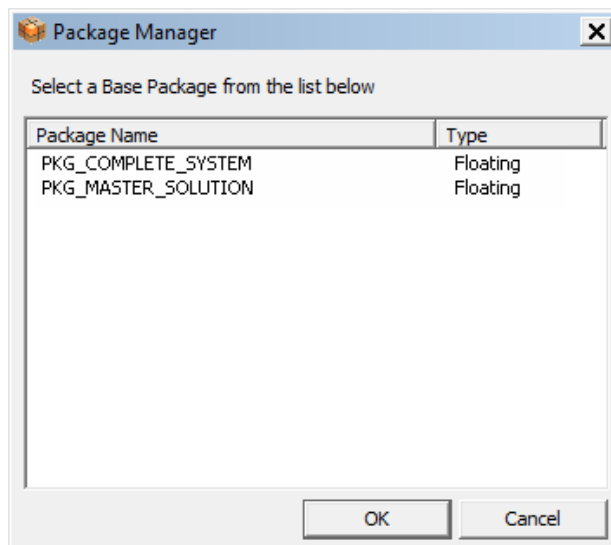
**Note: The license file is only relevant for 3DXpert.**

Any valid license must contain at least one base package. Select a base package from the list of available base packages displayed in the **Package Manager** dialog.

If there is only one Base Package available in all the valid licenses, it is automatically selected and the Package Manager dialog is not displayed. However, if there is more than one Base Package available for you, the Package Manager is displayed listing the available Packages and you are required to select one.


Once you have selected a Base Package, it is automatically loaded the next time you run the product, unless all the available licenses of this package are already grabbed by other users. In this case, the system will require you to select a different Base Package, if one is available (if no Base Package is available, the Package Manager dialog is displayed empty).

The Package Manager dialog is displayed:



To select the required base package:

1. Invoke the **Package Manager** tool. The **Package Manager** dialog is displayed.

To invoke the Package Manager, click the Package Manager button  in the License Manager dialog.

2. Select the required base package and press **OK** to close this dialog.

## Geomagic, 3D Sprint & Others

The procedure for acquiring and setting up the license depends on your 3D Systems product and is detailed below.

For FAQs on migrating to the CimLM license, click the following knowledge base link:

<https://3dssupport.microsoftcrmportals.com/knowledgebase/article/KA-03470//en-us>

### **For Geomagic, 3D Sprint & Others:**

1. License Manager - Client Side; see page 6.

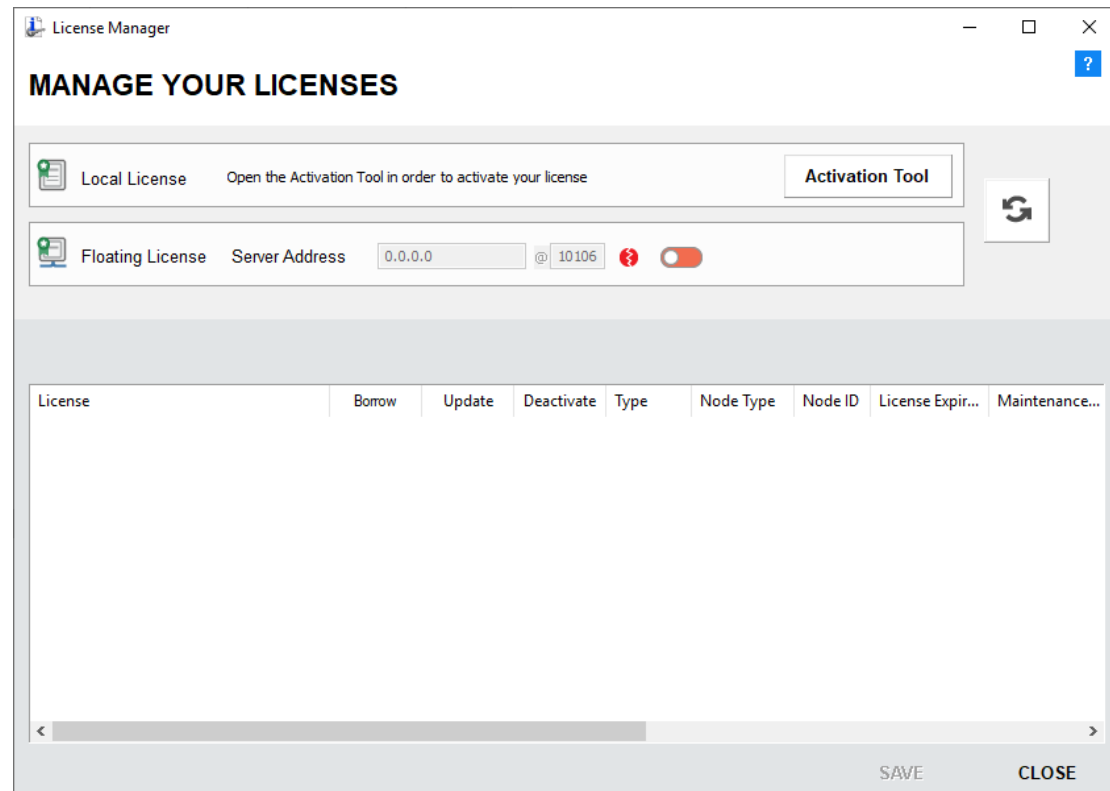
The **License Manager** is a tool to manage your license. You can either view your license, activate, deactivate or update your local license or connect to your server license (setting its name or IP).

## License Manager – Client Side

The **License Manager** is a tool to manage your license. You can either view your license, activate, deactivate or update your local license or connect to your server license (setting its name or IP).

The **License Manager** dialog is automatically invoked while the product is launching and no valid license is found.

It can also be invoked from the application menu.



See the explanation for the Dialog Options and Dialog Buttons below.

The file **CimLmLib\_Client.log** tracks any possible errors, in case a license is unavailable for some reason.

## Dialog Options

The following fields are displayed in the License Manager dialog:

### License File Locations:

<b>Local License:</b> <b>Open the Activation Tool to activate your license</b>	Click the <b>Activation Tool</b> button to enter your activation code. For additional information on activation, see page 18.
<b>Floating License:</b> <b>Server Address (Port)</b>	For a <b>Floating License</b> , enter the license server address (<the server IP address or the server name> and also the Port).

### License Display Area:

Displays the licenses and license contents according to the previously selected parameters.



Licenses displayed in red are invalid licenses. These are licenses that have expired or licenses that do not match the Node ID of your protection device.


### Borrow

To borrow a local license, click the **Borrow** icon  in the **Borrow** column of the license.

Borrowed licenses are temporary licenses borrowed by a user. These temporary licenses are valid for 7 days. Beyond the initial 7 day period, the borrowed license is automatically returned. Only floating (Network) licenses may be borrowed.

To borrow a license, the following conditions are required:



- The borrower must be connected to the internet and connected to the network license (License Server).
- Borrowing is allowed. The Allow License Borrowing checkbox has been turned ON ☒ in the License Server Monitor, by the System Administrator. When this checkbox is ON ☒, the **Borrow** icon  is displayed in the Borrow column of the License Manager dialog. When a license is borrowed, the Borrow icon is toggled to the **Return** icon .
- Seats for the license are still available for use (the maximum number of users of the license has not been reached).

To return a borrowed license, click the **Return** icon  in the **Borrow** column of the License Manager dialog.

### Update

To update a local license, click the **Update** icon  in the **Update** column of the License Manager dialog.

### Deactivate



When a license is activated, a **Deactivate** icon  is displayed in the **Deactivate** column of the license in the License Manager dialog. To deactivate a license, click the relevant **Deactivate** icon . See page 20 for additional information.



**Note:** Deactivation through both the activation-tool or when uninstalling the product while the Deactivate message is displayed, will deactivate all the versions of the product.

### Dialog Buttons

The following buttons appear in the **License Manager** dialog:

	<b>Help:</b> Open the Help.
	<b>Refresh View:</b> Refresh the dialog contents after you have changed a setting.
<b>Save</b>	<b>Save Settings:</b> Save the current dialog settings.
<b>Close</b>	Close the <b>License Manager</b> dialog.

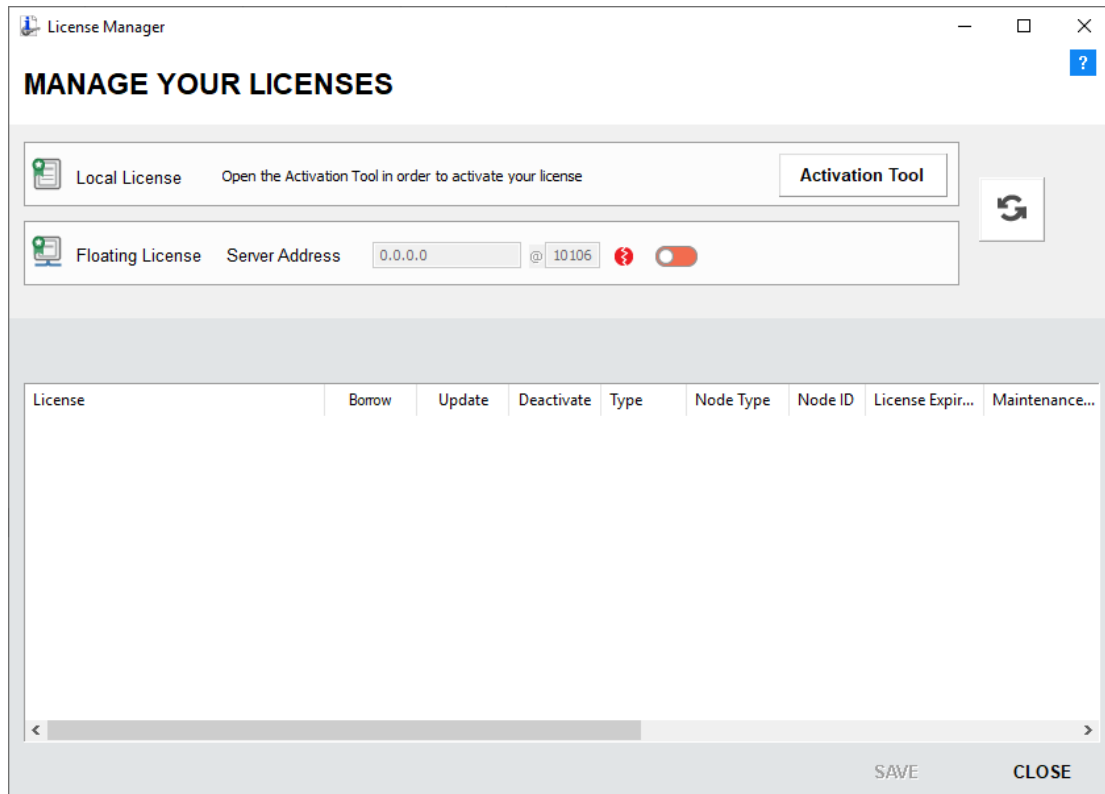


**Note:** For additional information on licensing, contact your 3D Systems Provider or Reseller.

### License Manager - Client Side: Activate License

To obtain a local license you must enter the **Activation Tool**. The following example is for Geomagic.

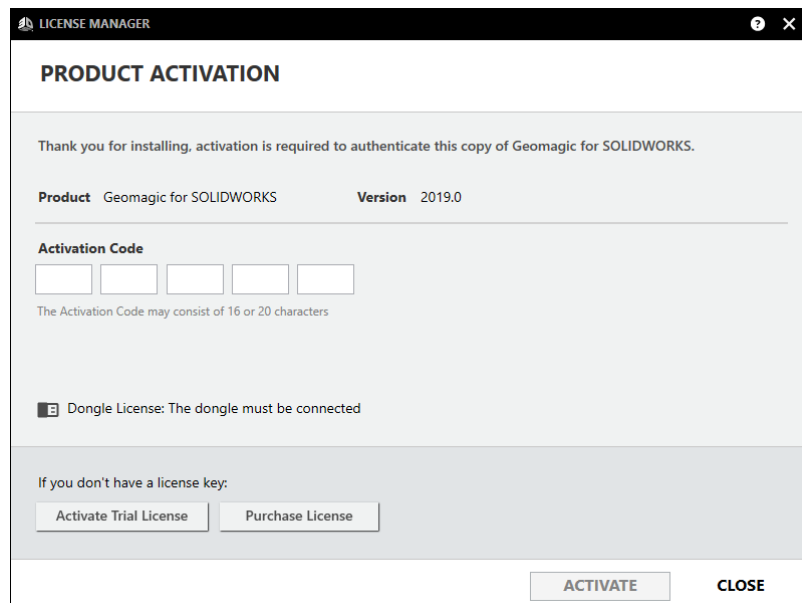
The License Manager dialog before activating the license is displayed as follows:



To set up the Local License:

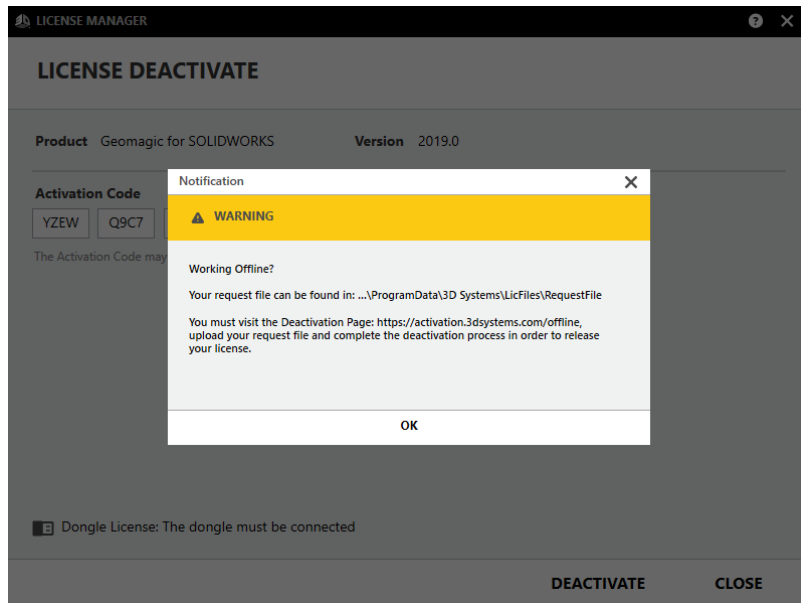
2. Press the **Activation Tool** button.

The Product Activation dialog is displayed, where you enter your activation code.

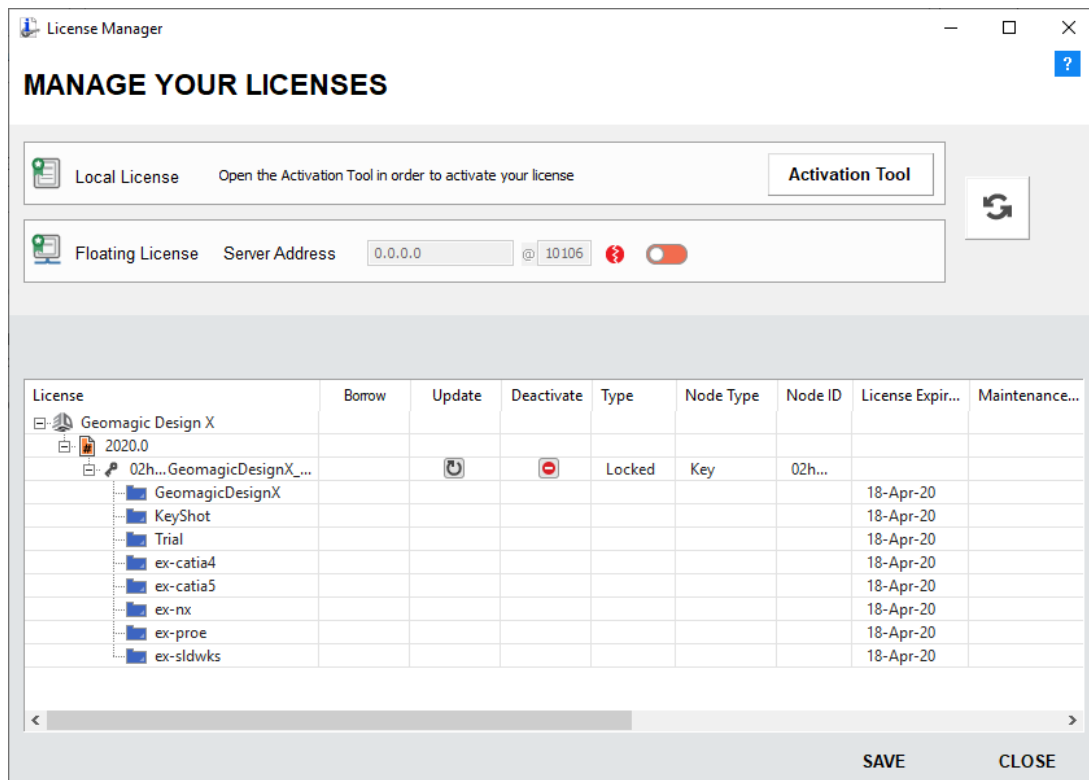



3. Press the **Activate** button to activate your license.

- If you are offline, the following message is displayed with instructions how to activate from the 3D Systems web page.



After activating the license, the dialog is displayed as follows:




When a license is activated, a **Deactivate** icon  is displayed in the **Deactivate** column of the license in the License Manager dialog. Click this button to deactivate the license. See **Deactivate License** on page 20 for additional information.



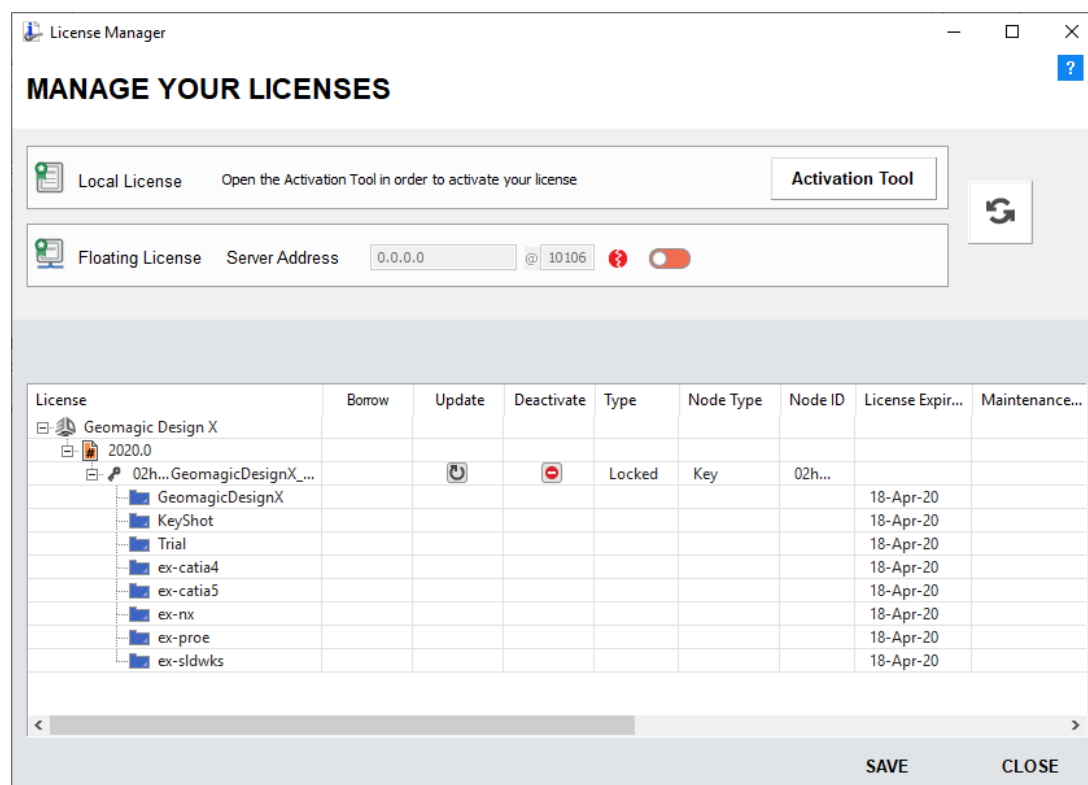
**Note:** Deactivation through both the activation-tool or when uninstalling the product while the Deactivate message is displayed, will deactivate all the versions of the product.

### License Manager - Client Side: Deactivate License


To deactivate a local license, click the **Deactivate** icon  in the **Deactivate** column of the license. The following example is for Geomagic.

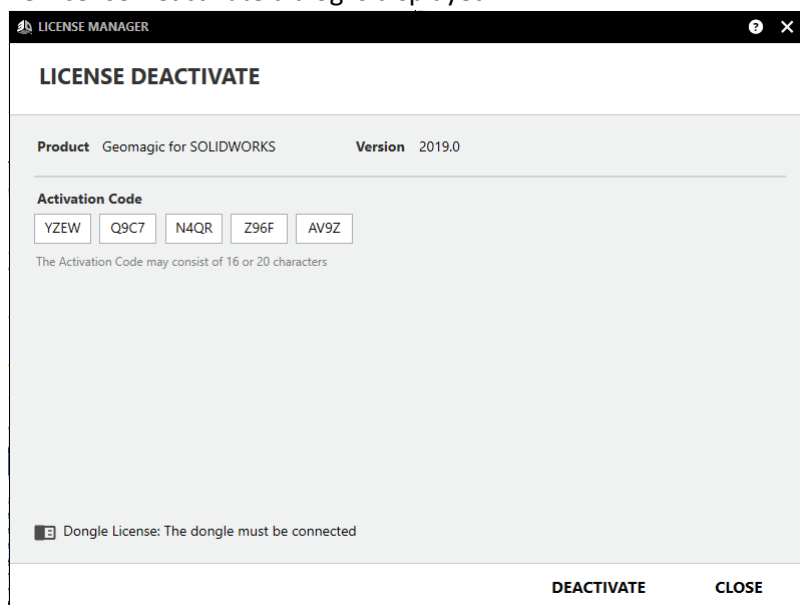


**Note:** Deactivation through both the activation-tool or when uninstalling the product while the Deactivate message is displayed, will deactivate all the versions of the product.



To deactivate the Local License:

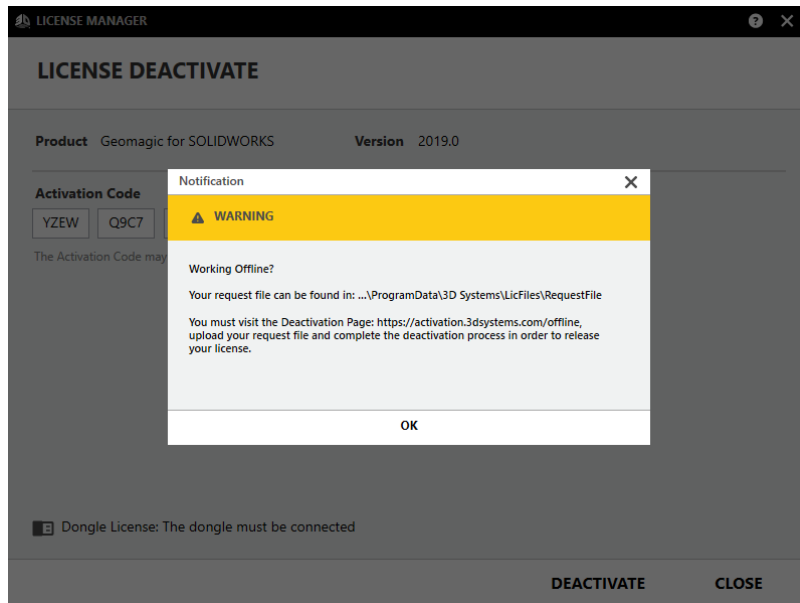
1. Click the **Deactivate** icon  in the **Deactivate** column of the license. The License Deactivate dialog is displayed.




2. Press the **Deactivate** icon to deactivate your license.

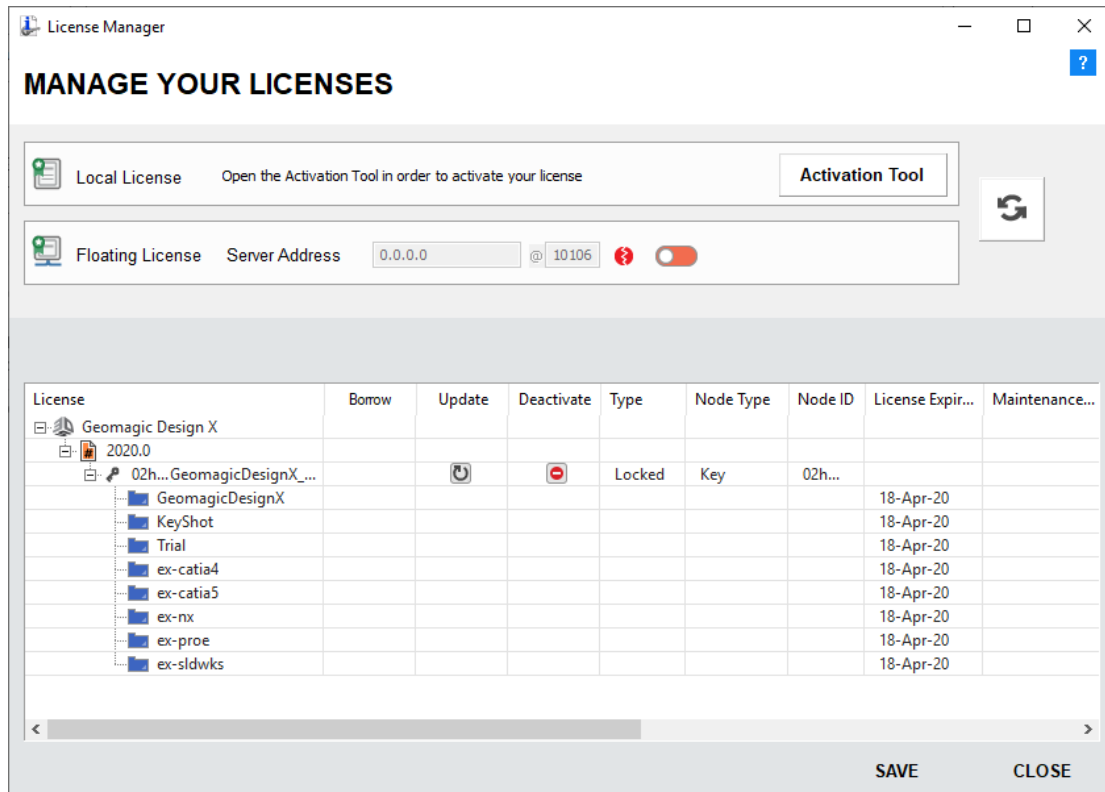


3. If you are offline, the following message is displayed with instructions how to deactivate from the 3D Systems web page.




### License Manager - Client Side: Update License

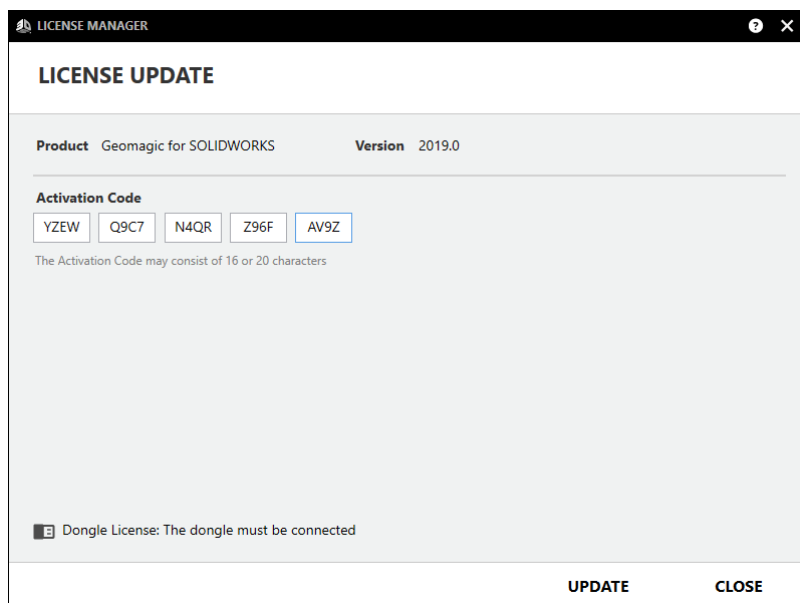
To update a local license, click the **Update** icon  in the **Update** column of the license. The following example is for Geomagic.



To update the Local License :

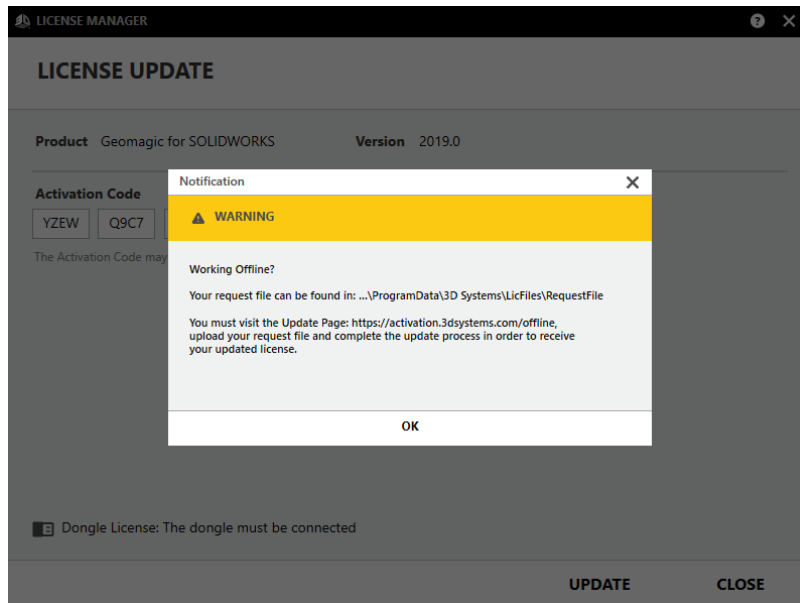
1. Click the **Update** icon  in the **Update** column of the license.

The License Update dialog is displayed.



2. Press the **Update** icon to update your license.

3. If you are offline, the following message is displayed with instructions how to update from the 3D Systems web page.



### Floating License

This 3D Systems product supports **Floating Licensing**.

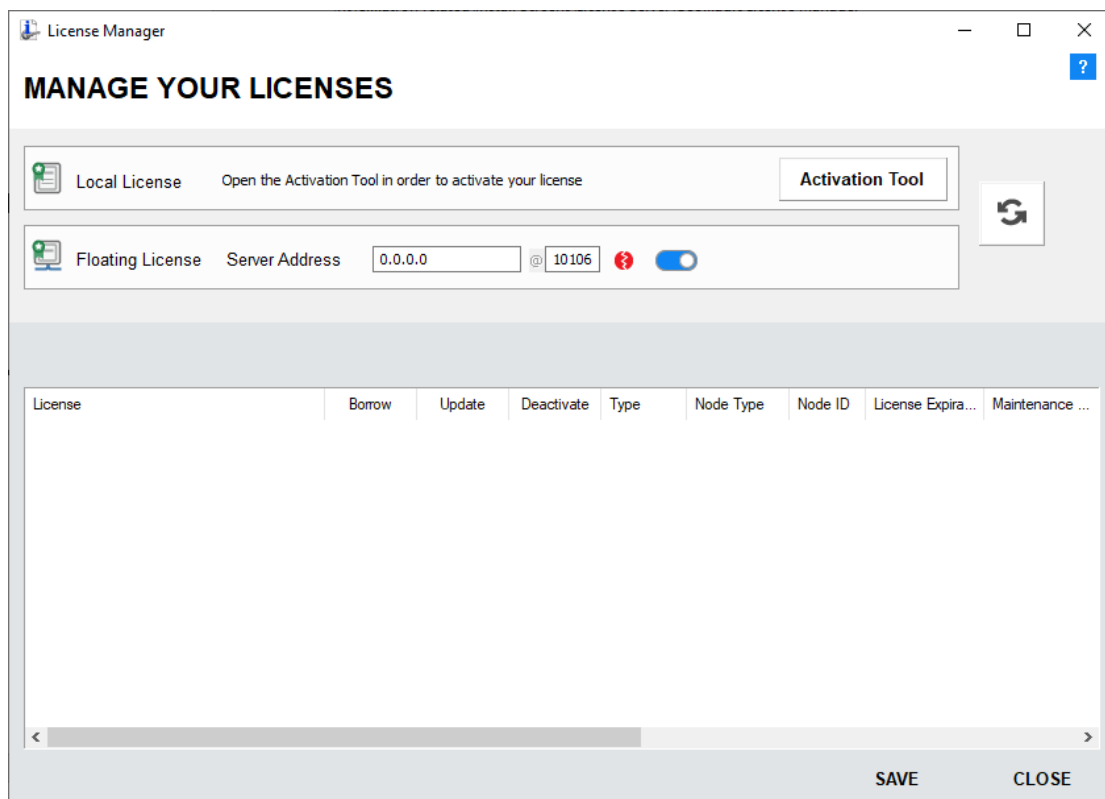
To work with a Floating License, you should set the client computer to connect to a certain server and set the server license port number according to the CimLmService Monitor.

The product supports floating licensing via a TCP/IP port number. This port number (10106) is the default port that is used to communicate between the floating license **server** and the **clients**. The server and the clients must be configured to the same port. This means that if you change this port number in the floating license server (via the CimLmService Monitor, see page 26), you also need to change the port number on the client side (via the License Manager dialog), and vice versa.





**Note:** The server and the clients must be configured to the same port!!!

The License Manager dialog before connecting to the server is displayed as follows:



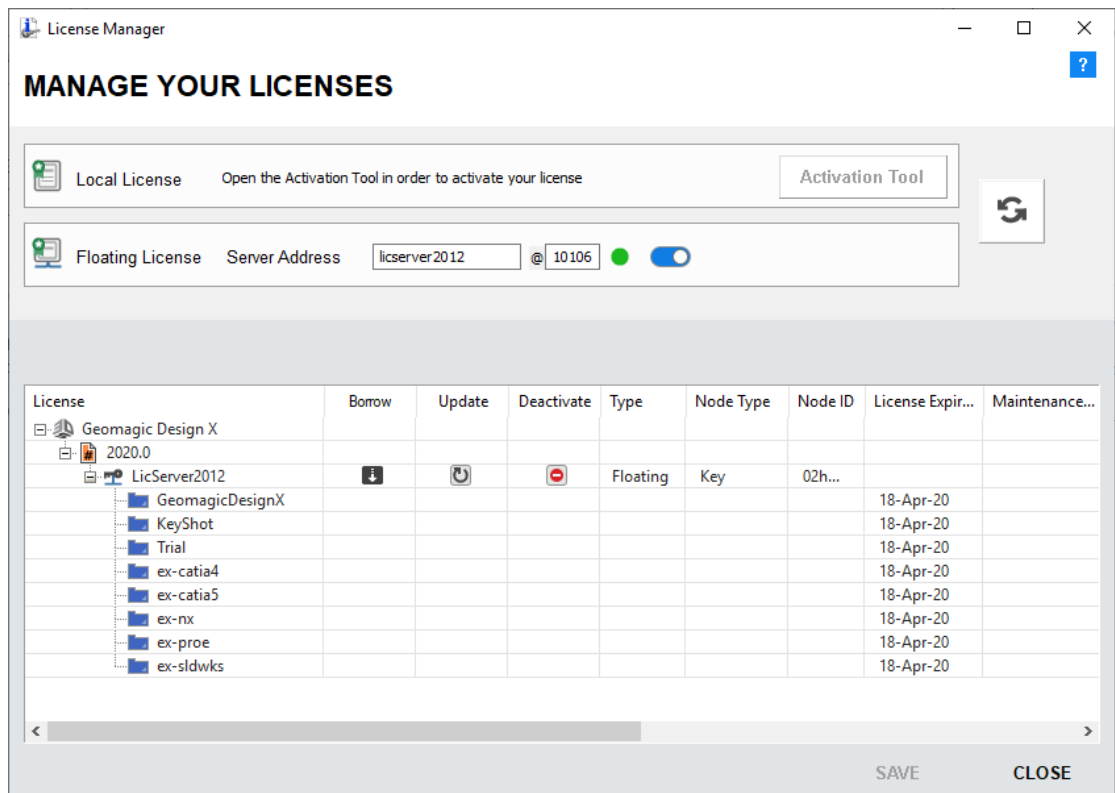
To set up the Floating License Information (Client Side):

1. In the displayed License Manager dialog, slide the floating license button from OFF  to ON . This enables the **Server Address** field; enter the license server address (<the server IP address or the server name> and also the Port). For example: <server IP address>@10106 or <license server name>@10106.



**Note:** A default TCP/IP port number (number.10106) is supplied with the license file.

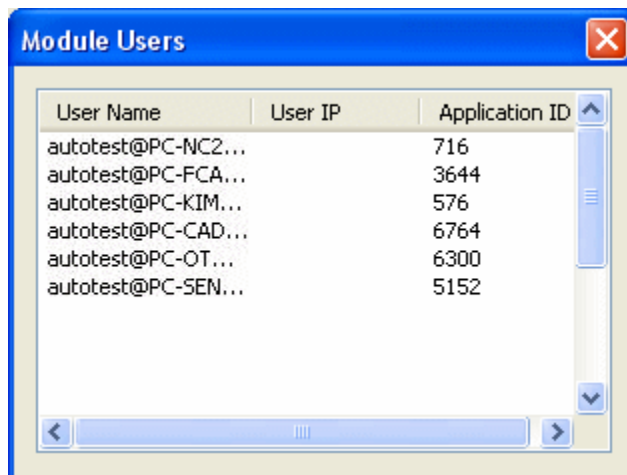
The License Manager dialog after connecting to the server is displayed as follows:



### In Use Column

The **In Use** column shows the number of packages or modules that are currently grabbed, out of the total available. To retrieve additional information regarding these grabbed packages or modules, right-click on the appropriate row to display the **Module Users** dialog which shows the list of the user and PC names.

*This information is only shown for a floating license.*



2. Press the **Save** button.
3. Press **Close** to close the **License Manager** dialog.

## Licensing – Server Side

The **License Server** runs the **License Service (CimLmService)** which manages client requests for licensing services from the floating license.

**Before installing a new version of the License Server, the previous version should be uninstalled.**

### License Service (CimLmService)

The **License Service (CimLmService)** manages client requests for licensing services from the floating license. The **License Service** runs on the **License Server**.

The License Server is installed in the following folder and will be automatically started after installation: **<Program Default>\3D Systems\License Server\**.

To check if the License Server is installed and running, use the License Server Monitor (see page 26). Depending on your 3D Systems product, either use the License Server Monitor to select the license file or enter the Activation code. The usage of only one floating license is supported. If multiple licenses are found, the first one is used.

While the License Server is running, a log file is created in the same location as the CimLmService, under the “Log” folder.

A **TCP/IP** port number (number **10106**) is the default port that is used to communicate between the floating license server and the clients (see **Licensing Troubleshooting** on page 47). The server and the clients must be configured to the same port. This means that if you change this port number in the floating license server (via the **License Server Monitor**, see page 26), you also need to change the port number on the client side (via the **License Manager** dialog, see page 2), and vice versa.

To change the port number in the License Server Monitor, you need to stop the service, change the port and restart the service.



**Note:** The server and the clients must be configured to the same port!!!

### License Server Monitor

The License Server Monitor controls the License Server and enables the System Administrator to control the licensing for 3D Systems products at a user site. The License Server Monitor is installed into the same location as the CimLmService.

Using the License Server Monitor, the Administrator can:

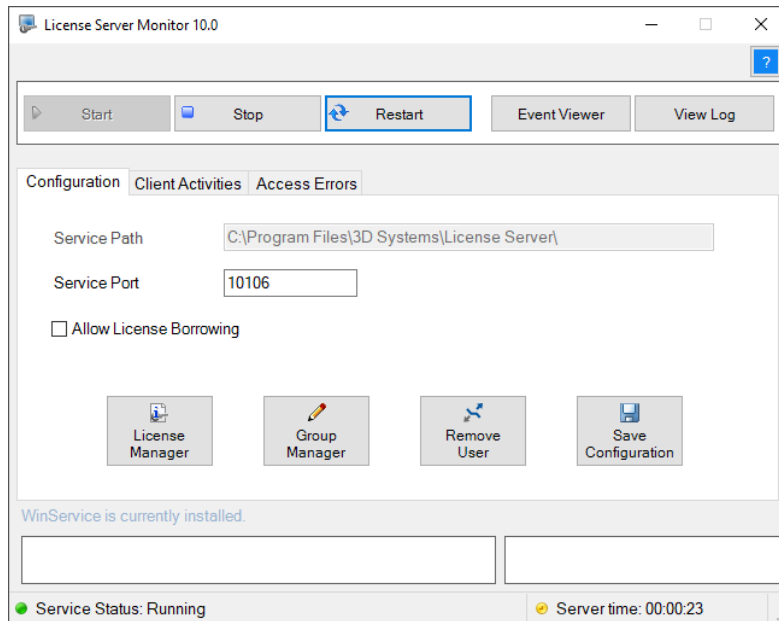
- activate a license
- start/stop the service
- view the recent activities of all the connected clients
- check for any access errors.

Any change to the settings in the **Configuration** tab (see page 27), requires you to stop the service before the change and then to restart it (using the Start and Stop buttons).

To configure and start the service, use the tabs of the License Server Monitor dialog, shown below: **Configuration** tab, **Client Activities** tab and **Access Errors** tab.

## Configuration tab

The **Configuration** tab of the **License Server Monitor** dialog is where the license is defined.



The following buttons appear in all the tabs of the License Monitor dialog.

<b>Start, Stop, Restart</b>	Start, stop and reload a license service.
<b>Event Viewer</b>	Shortcut to the event viewer of the operating system.
<b>View Log</b>	Displays the service log file.

<b>Service Path</b>	Browse to the location of the floating license. <b>Note:</b> You can browse to only one floating license.
<b>Service Port</b>	Enter the service port details. <b>Note:</b> The server and the clients must be configured to the same port!!!
<b>Allow License Borrowing</b>	When this checkbox is ON <input checked="" type="checkbox"/> , license borrowing by users is permitted.

<b>License Manager</b>	View the contents of the floating license. This is displayed in the License Manager – Server Side dialog. (This is a version of the License Manager dialog that is invoked from the License Server Monitor).
<b>Group Manager</b>	Manage groups of users. The <b>Groups/Users Manager</b> dialog is displayed, enabling the System Administrator to configure which packages or modules are available to users. See page 28.
<b>Remove User</b>	Remove a user from a license. The System Administrator may remove a user from a license if the license is not being used by the user; for example, if a user occupies a license and goes on vacation. Removing a user from a license enables the System Administrator to free the license for use by another user. A user that borrows a license cannot be removed. See Remove User on page 33.
<b>Save Configuration</b>	Save the current settings.

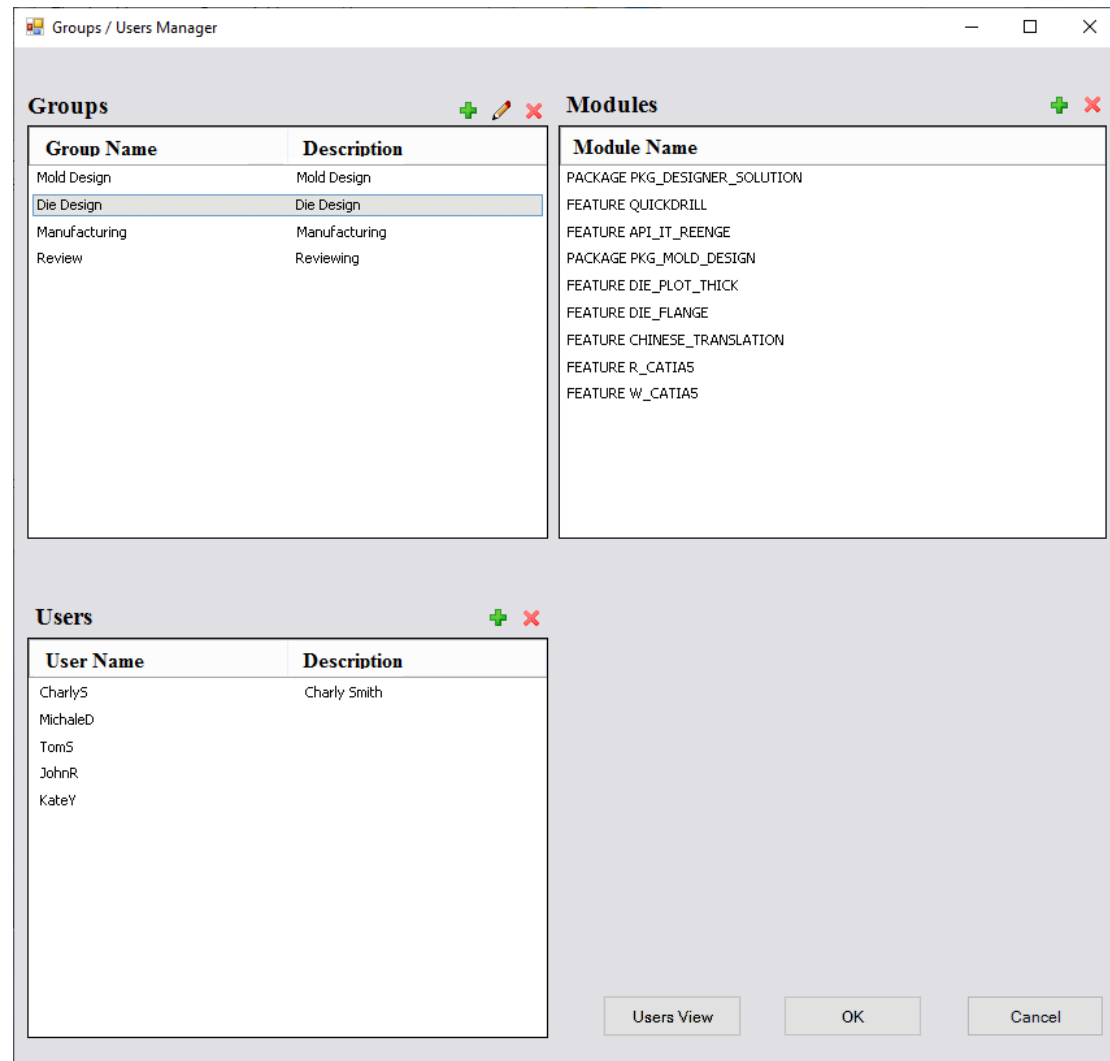


**Note:** For additional information on licensing, contact your 3D Systems Provider or Reseller.

### Group Manager

In a floating license environment, the Group Manager utility enables a System Administrator to configure which packages or modules are available to which users. This prevents users accidentally grabbing modules they do not need, depriving them from others who must have them.

The **Groups/Users Manager** dialog is displayed, enabling the System Administrator to define the groups of users and the packages or modules available to those groups.



For each pane in the dialog, Add (+), Edit (pencil) or Delete (X) items.



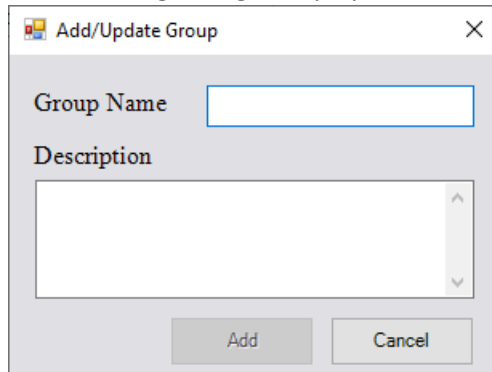
When assigning groups, the following principles apply:

- Each group has a unique descriptive name.
- For each group, the Administrator is able to define the list of packages and modules available to that group (out of the overall pool available in the license).
- Each group has a list of users assigned to it. A user may belong to one group only (or conflicts may arise).
- Users are identified by their Windows-login name (so access management is by user, not by PC).
- When a user that belongs to a given group opens the 3D Systems product (or the Package-Manager or License-Manager tools), the user only “sees” the packages and modules allowed for his group (as far as the License Server is concerned – there may be other node-locked modules on his PC).
- The limitations do not apply to package/module quantities. In other words, user groups are not assigned “quotas”.
- Users who do not belong to any group see the entire license content.

#### Groups Pane

The **Groups** pane enables the System Administrator to define application groups.

The following dialog is displayed when adding or editing a group:

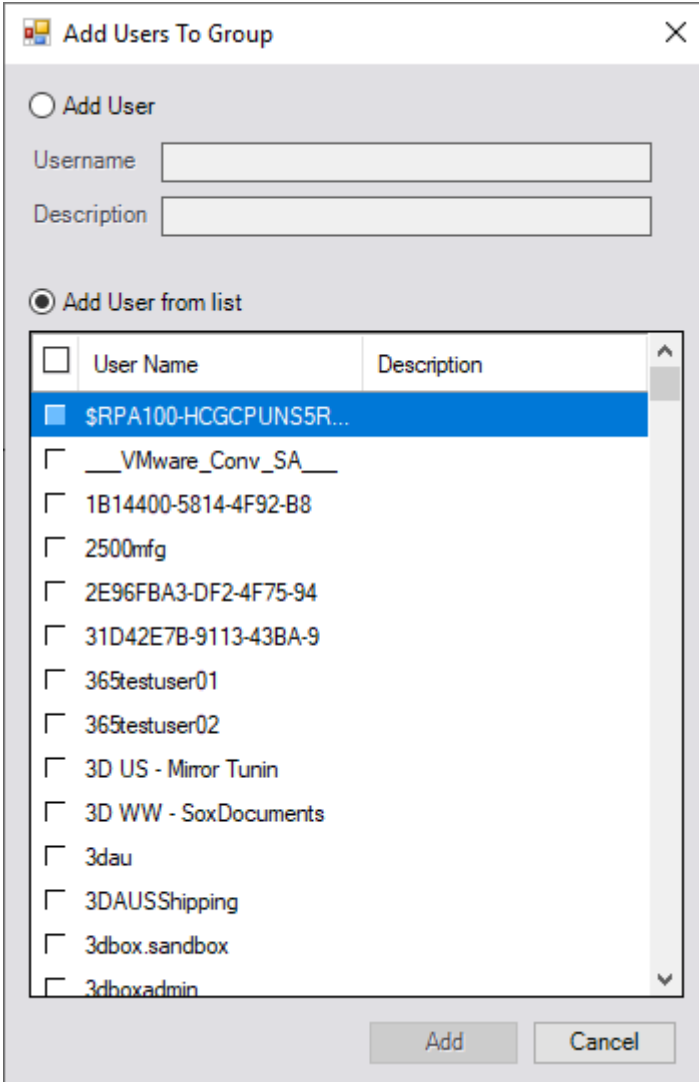


The image shows a Windows-style dialog box titled "Add/Update Group". It contains two input fields: "Group Name" with a single-line text box, and "Description" with a multi-line text box. At the bottom of the dialog are two buttons: "Add" and "Cancel".

## Users Pane

The **Users** pane enables the System Administrator to assign users to groups. A 'Select All' checkbox is available in the header row of the list of users.

The following dialog is displayed when adding or editing a user:



The dialog box is titled "Add Users To Group" and has a close button (X) in the top right corner. It contains two radio buttons: "Add User" (unselected) and "Add User from list" (selected). Below the "Add User" radio button are two text input fields labeled "Username" and "Description". Below the "Add User from list" radio button is a list box with a table structure. The table has two columns: "User Name" and "Description". The first row is selected and highlighted in blue. The list box has a scrollbar on the right side. At the bottom of the dialog are two buttons: "Add" and "Cancel".

User Name	Description
\$RPA100-HCGCPUNS5R...	
__VMware_Conv_SA__	
1B14400-5814-4F92-B8	
2500mfg	
2E96FBA3-DF2-4F75-94	
31D42E7B-9113-43BA-9	
365testuser01	
365testuser02	
3D US - Mirror Tunin	
3D WW - SoxDocuments	
3dau	
3DAUSShipping	
3dbbox.sandbox	
3dbboxadmin	

A user may belong to one group only.

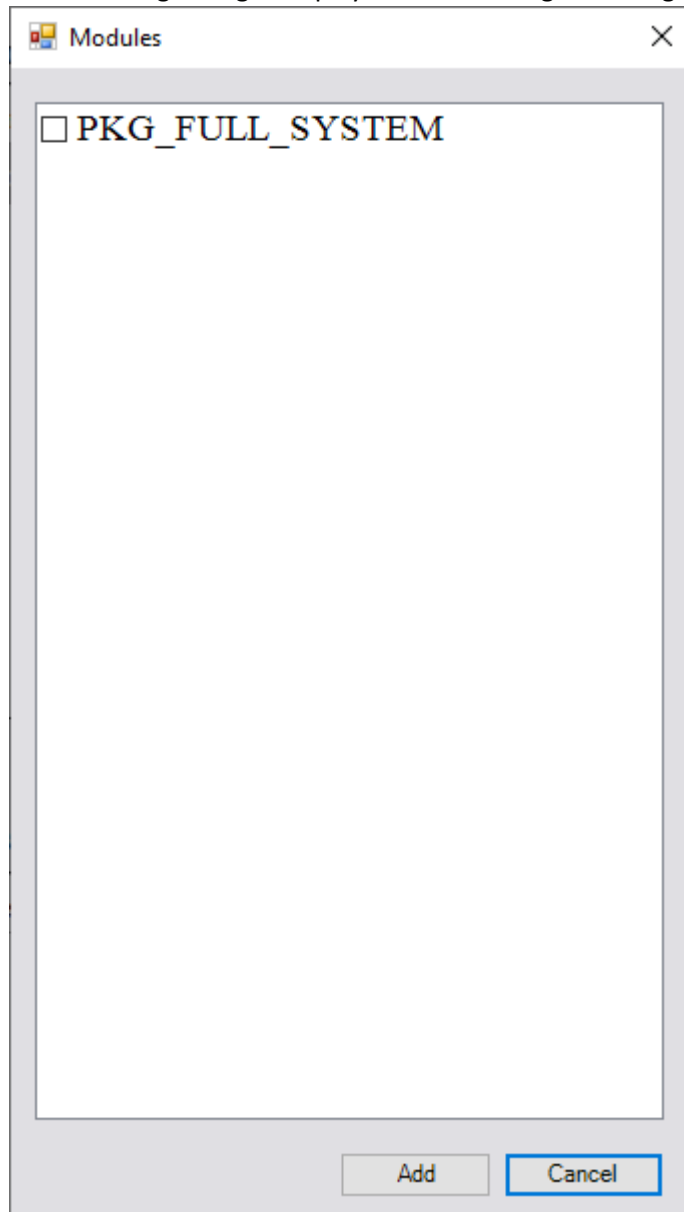
Users are identified by their Windows-login name (so access management is by user, not by PC). A list of login names is displayed from the company domain, which enables the Administrator to select and add them to the group. The initials of a user name can be typed and the selection will jump to the matching initials. The Administrator can also type-in user names (for cases when there is no domain defined).

When trying to add a user who is already assigned to another group, an appropriate warning message is displayed.

### Modules Pane

The **Modules** pane enables the System Administrator to assign modules and packages to groups.

The following dialog is displayed when adding or editing modules:



For each group, the Administrator can add and remove items (packages, modules) from the existing content of the license on the License Server.

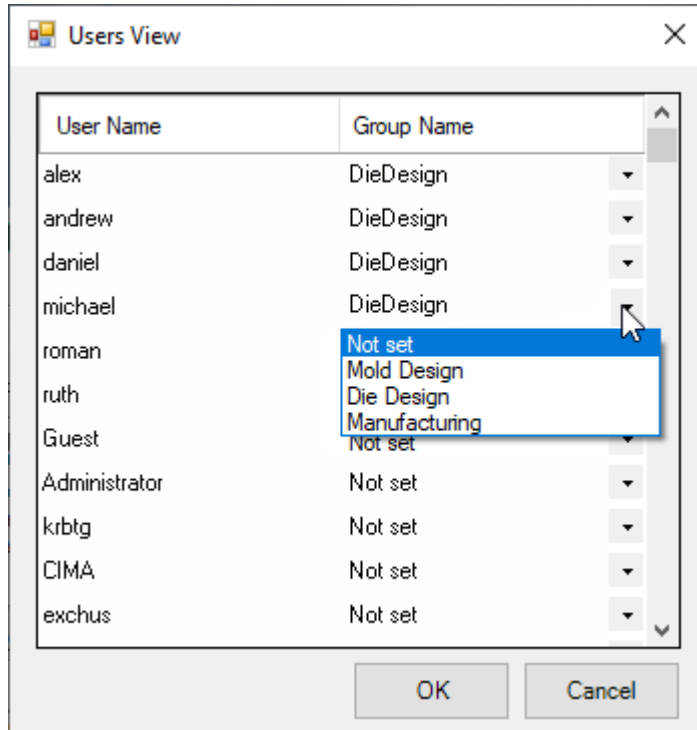
There are no restrictions regarding what goes in a group. A base package is NOT a must (e.g., a group may contain "CATIA5" only). Such groups are useful in case the user has a node-locked base package.

When trying to delete a group or groups which have users assigned to them, an appropriate warning message is displayed.

### Users View button

The **Users View** button enables the System Administrator to view all the users defined in the Group Manager and their assigned group. In the case of a domain, other users (those yet assigned a group) are also displayed.

The following dialog is displayed when adding or editing modules:



Using this dialog, the Administrator can assign or change an assigned group for users. For each user, a dropdown list of existing groups is displayed; the Administrator can select the appropriate group and the user is assigned to that group. If the user was a member of a different group before, the user will be removed from the previous group (since a user may belong to one group only).



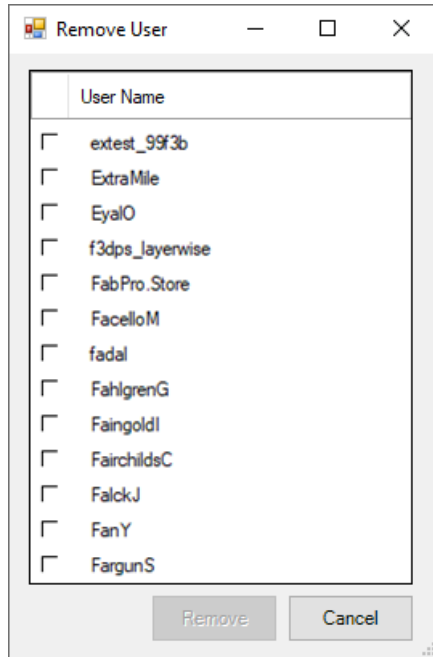
**Note:** For additional information on licensing, contact your 3D Systems Provider or Reseller.

### *Remove User*

Remove a user from a license. The System Administrator may remove a user from a license if the license is not being used by the user; for example, if a user occupies a license and goes on vacation. Removing a user from a license enables the System Administrator to free the license for use by another user.

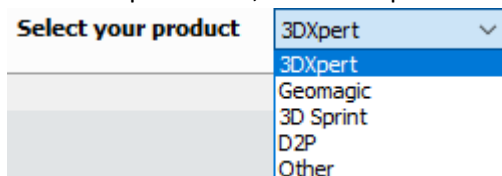
A user that borrows a license cannot be removed.

The **Remove User** dialog is displayed, enabling the System Administrator to remove one or more selected users from occupied licenses.



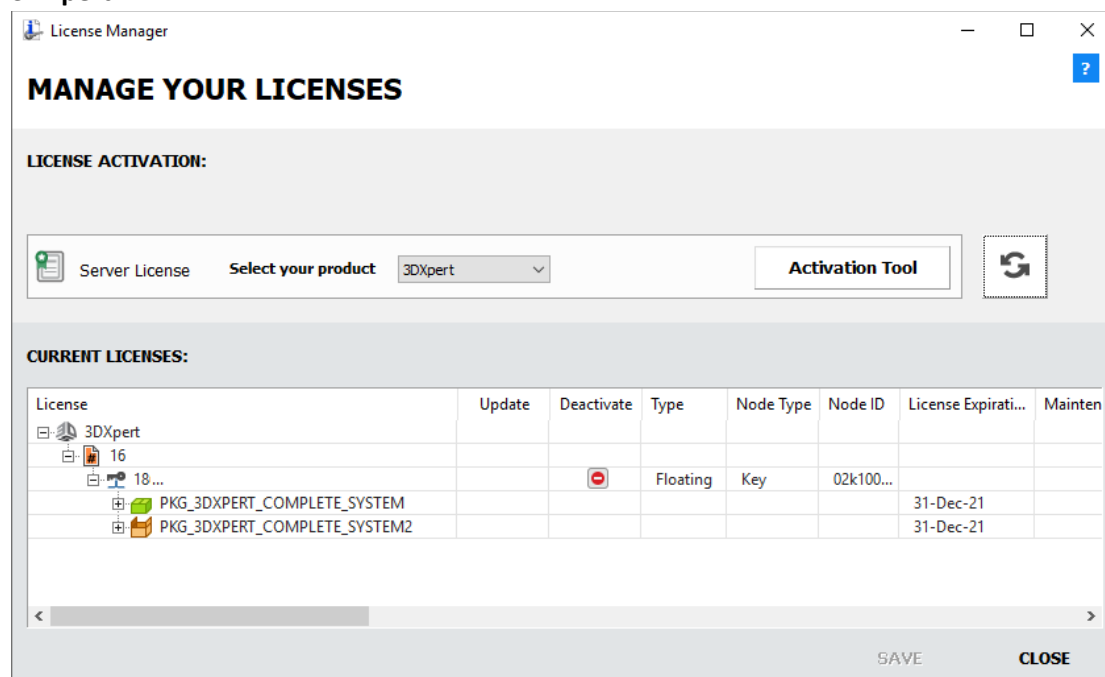
### License Manager – Server Side

The License Manager that is displayed depends on your 3D Systems product. From the product dropdown list, select the product whose License Manager dialog is to be displayed.

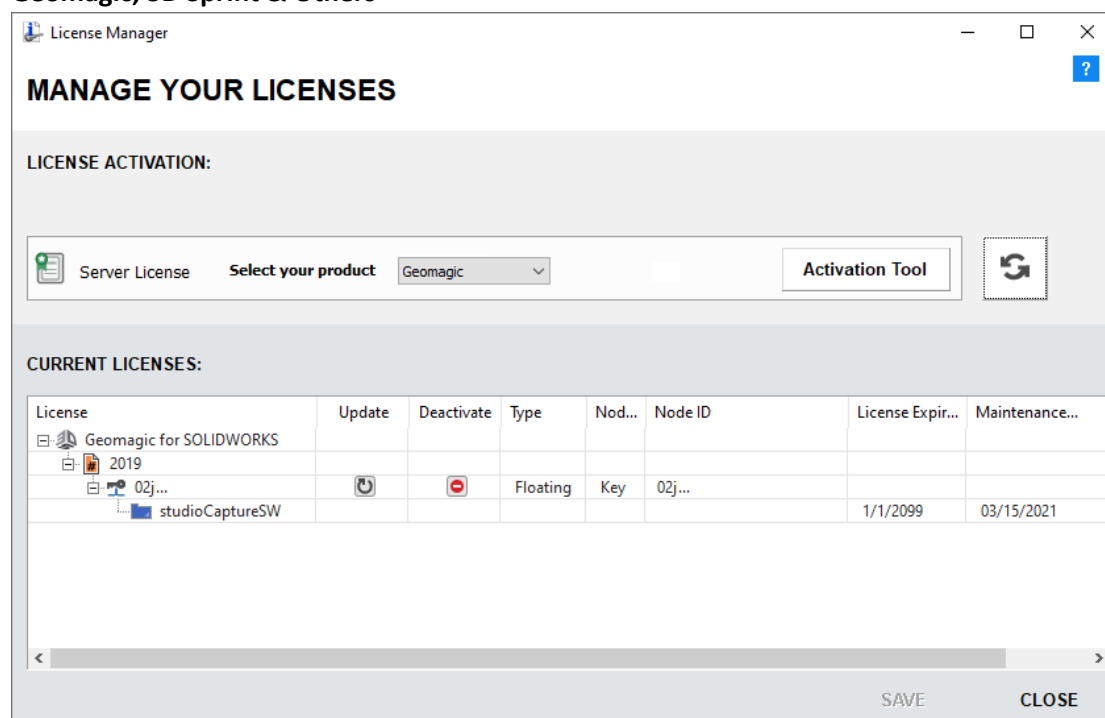


Select a product from the dropdown list, click the activation button and then the Refresh icon.

### 3DXpert



### Geomagic, 3D Sprint & Others

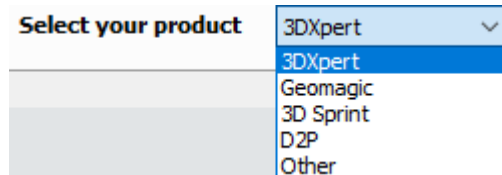


## 3DXpert

The **License Manager** dialog (invoked from the **License Server Monitor**, see page 26) is displayed showing installed 3D Systems software, from the Client computer.

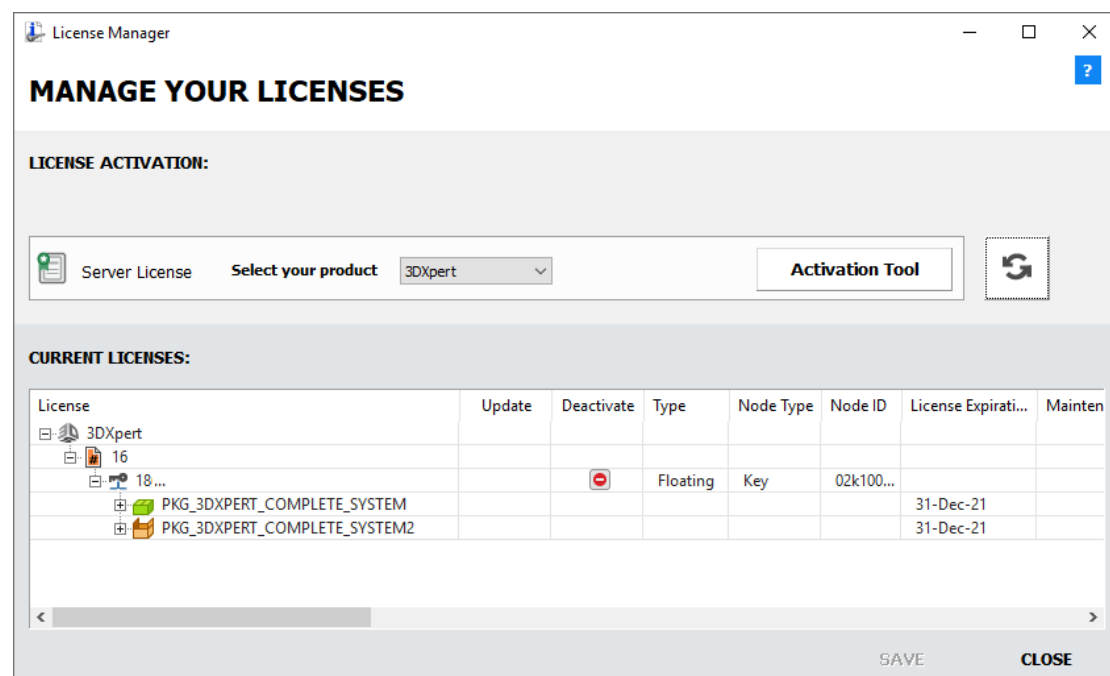
The **License Manager** is a tool to manage your license. You can either view your license, set your local license or connect to your server license (setting its name or IP).

The License Manager that is displayed depends on your 3D Systems product. From the product dropdown list, select the product whose License Manager dialog is to be displayed.



Select a product from the dropdown list, click the activation button and then the Refresh icon.

The following example dialog is displayed if the selected product is 3DXpert and *after* activating the license.



### Dialog Options

The following contents are displayed in the License Manager dialog:

#### License File Locations:



<b>Select your &lt;Product&gt; license file to activate</b>	Select a product from the dropdown list, click the <b>Activation Tool</b> button and browse to the license file folder containing your license file(s) received from your 3D Systems Provider or Reseller - see Get Node IDs on page 5. When finished, click the Refresh icon.
---	--

#### License Display Area:

Displays the licenses and license contents according to the previously selected parameters.

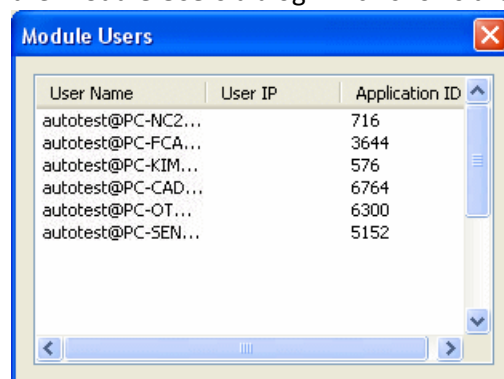
Licenses displayed in red are invalid licenses. These are licenses that have expired or licenses that do not match the Node ID of your protection device.

#### Deactivate

When a license is activated, a **Deactivate** icon  is displayed in the **Deactivate** column of the license in the License Manager dialog. To deactivate a license, click the relevant **Deactivate** icon .



#### In Use Column

The **In Use** column shows the number of packages or modules that are currently grabbed, out of the total available. To retrieve additional information regarding these grabbed packages or modules, right-click on the appropriate row to display the **Module Users** dialog which shows the list of the user and PC names.



### Dialog Buttons

The following buttons appear in the **License Manager** dialog:

	<b>Help:</b> Open the Help.
	<b>Refresh View:</b> Refresh the dialog contents after you have changed a setting.
<b>Save</b>	<b>Save Settings:</b> Save the current dialog settings.
<b>Close</b>	Close the <b>License Manager</b> dialog.



**Note:** For additional information on licensing, contact your 3D Systems Provider or Reseller.

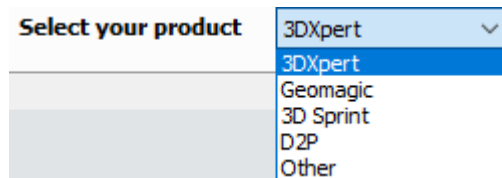


### Geomagic, 3D Sprint & Others

The **License Manager** dialog (invoked from the **License Server Monitor**, see page 26) is displayed showing installed 3D Systems software, from the Client computer.

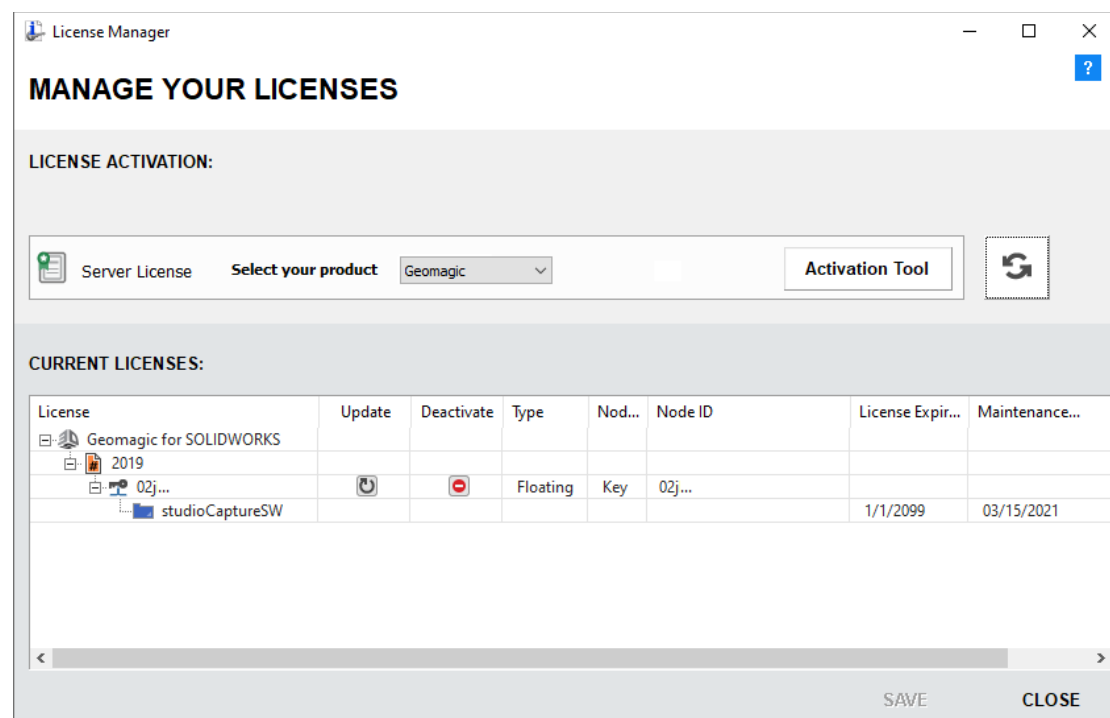
The License Manager is a tool to manage your license. You can either view your license, activate, deactivate or update your local license.

The License Manager that is displayed depends on your 3D Systems product. From the product dropdown list, select the product whose License Manager dialog is to be displayed.



Select a product from the dropdown list, click the activation button and then the Refresh icon.

The following example dialog is displayed if the selected product is Geomagic and *after* activating the license.



See:

License Manager - Server Side: Activate License on page 39.

License Manager – Server Side: Deactivate License on page 41.

License Manager – Server Side: Update License on page 43.

### Dialog Options

The following contents are displayed in the License Manager dialog:

#### License File Locations:

<b>Server License:</b> <b>Open the Activation Tool to activate your license</b>	Click the <b>Activation Tool</b> button to enter your activation code.
--	--



#### License Display Area:

Displays the licenses and license contents according to the previously selected parameters. Licenses displayed in red are invalid licenses. These are licenses that have expired or licenses that do not match the Node ID of your protection device.

#### Update

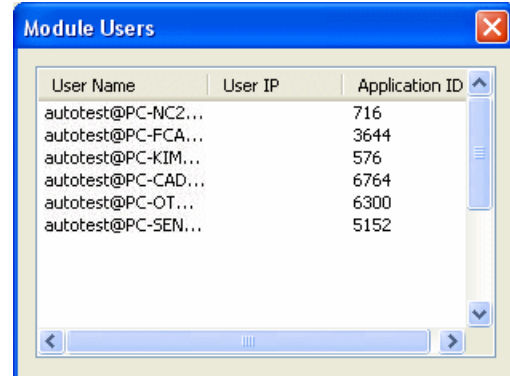
To update a local license, click the **Update** icon  in the **Update** column of the license. See page 43.

#### Deactivate

When a license is activated, a **Deactivate** icon  is displayed in the **Deactivate** column of the license in the License Manager dialog. To deactivate a local license, click the relevant **Deactivate** icon . See page 41 for additional information.



#### In Use Column

The **In Use** column shows the number of packages or modules that are currently grabbed, out of the total available. To retrieve additional information regarding these grabbed packages or modules, right-click on the appropriate row to display the **Module Users** dialog which shows the list of the user and PC names.



### Dialog Buttons

The following buttons appear in the **License Manager** dialog:

	<b>Help:</b> Open the Help.
	<b>Refresh View:</b> Refresh the dialog contents after you have changed a setting.
<b>Save</b>	<b>Save Settings:</b> Save the current dialog settings.
<b>Close</b>	Close the <b>License Manager</b> dialog.

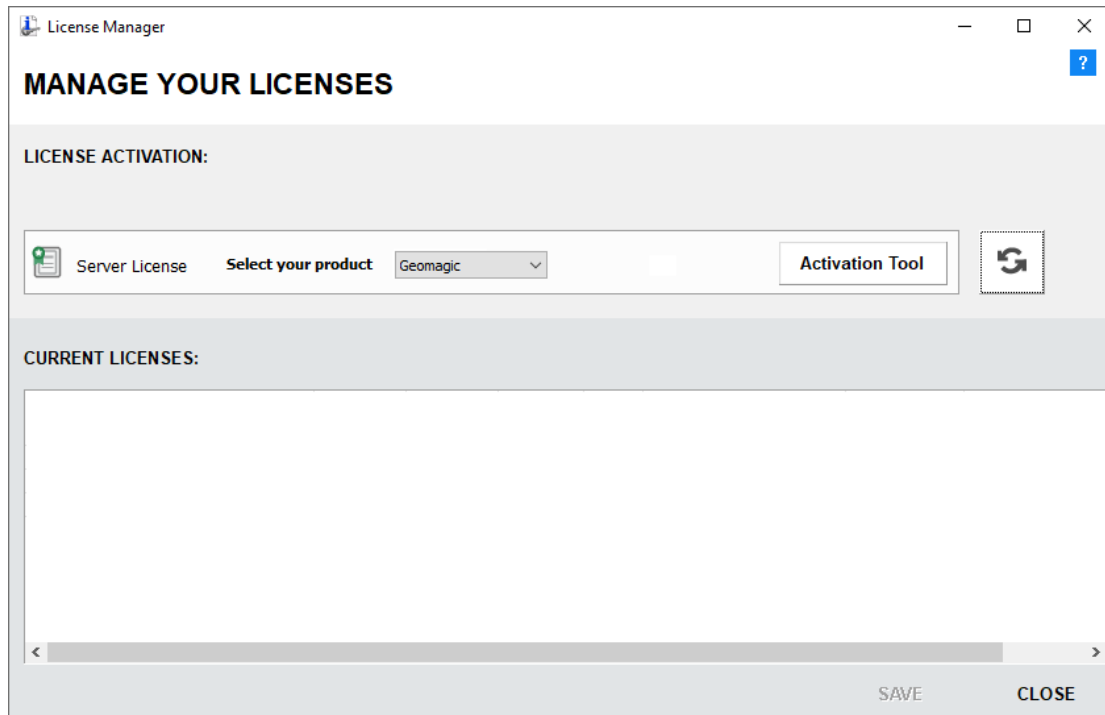


**Note:** For additional information on licensing, contact your 3D Systems Provider or Reseller.

## License Manager - Server Side: Activate License

The License Manager is a tool to manage your license. You can either view your license, activate, deactivate or update your local license.

To obtain a local license you must enter the Activation Tool. The follow activation example is for Geomagic.

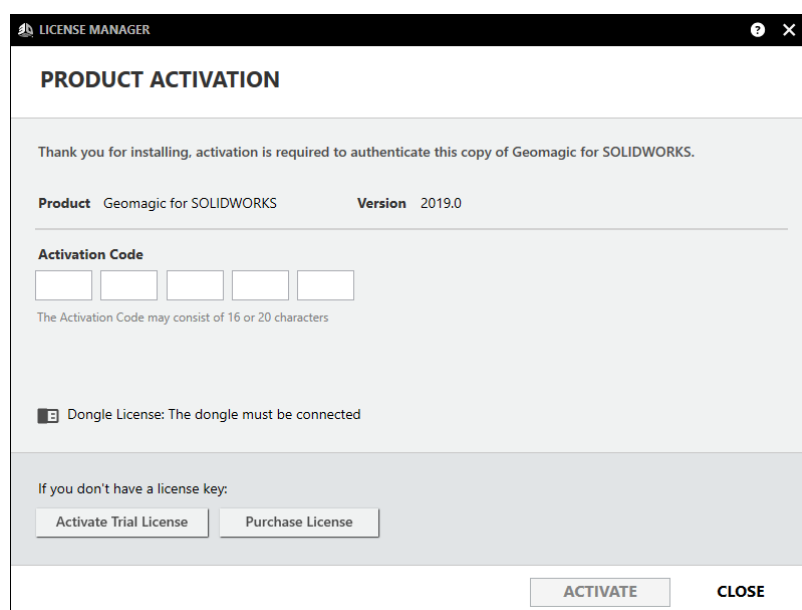


To set up the Local License :

The following example is for Geomagic.

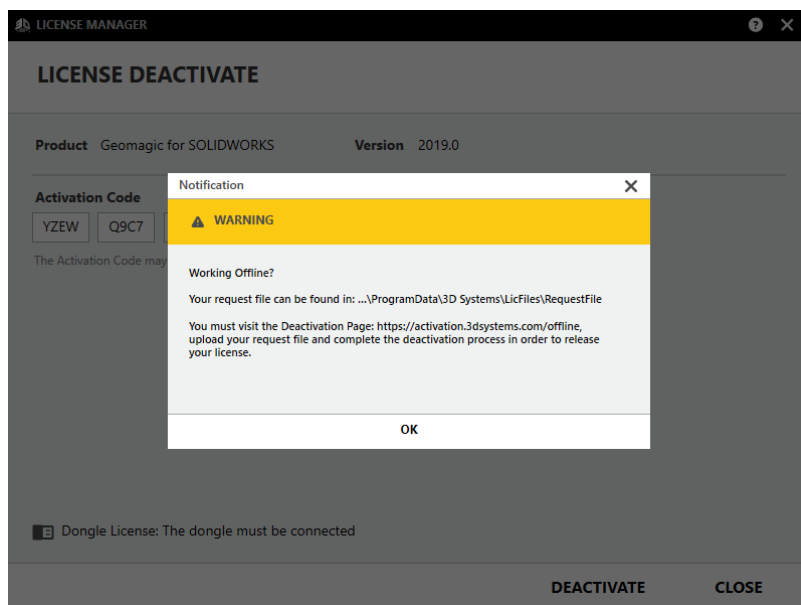
1. Press the **Activation Tool** button.

The Product Activation dialog is displayed, where you enter your activation code.

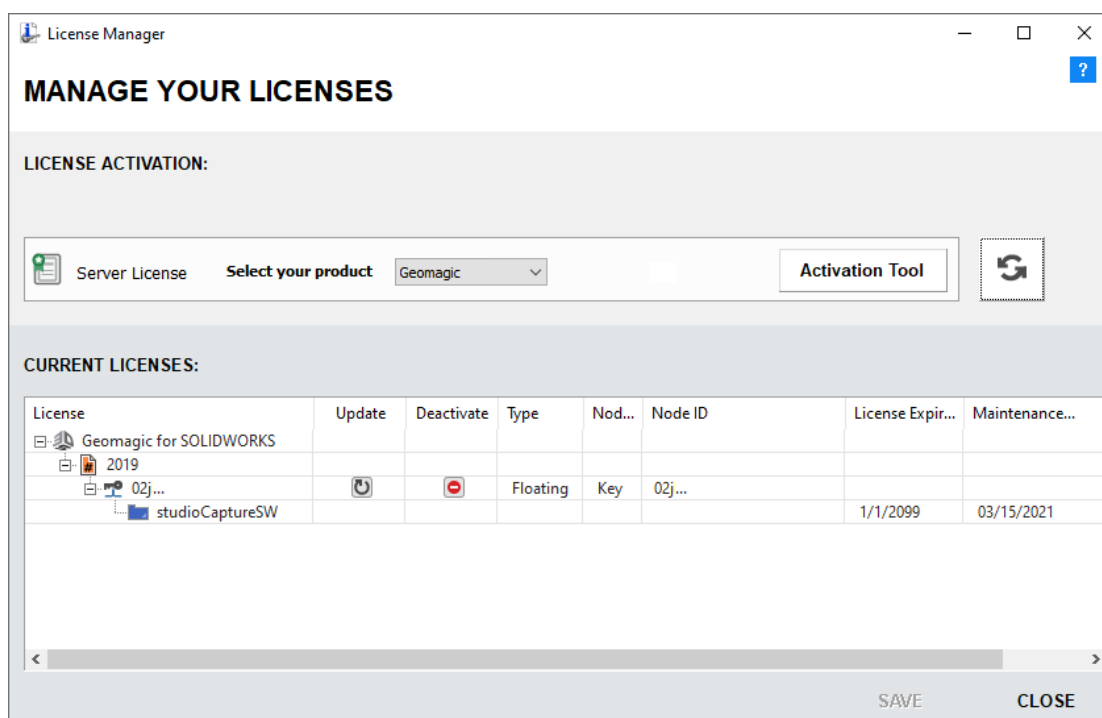


2. Press the **Activate** button to activate your license.

- If you are offline, the following message is displayed with instructions how to activate from the 3D Systems web page.




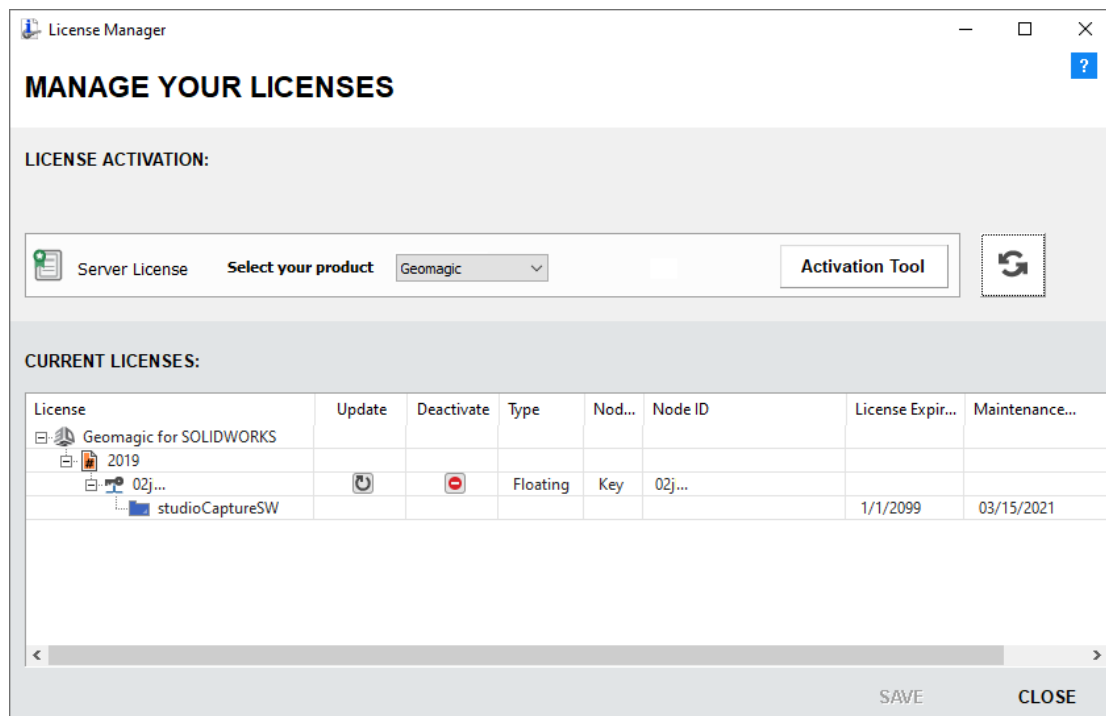
After activating the license, the dialog is displayed as follows:



When a license is activated, a **Deactivate** icon is displayed in the **Deactivate** column of the license in the License Manager dialog. Click this button to deactivate the license. See **Deactivate License** on page 41 for additional information.


## License Manager – Server Side: Deactivate License

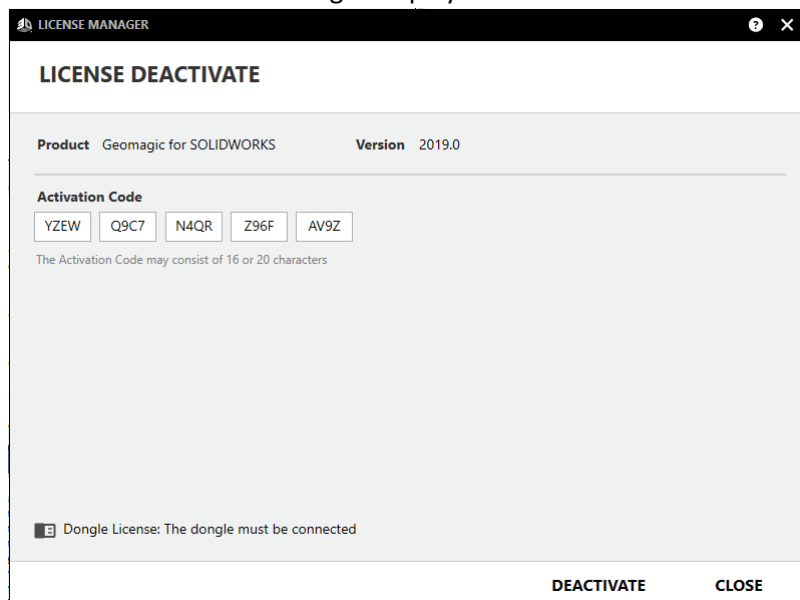
To deactivate a local license, click the **Deactivate** icon  in the **Deactivate** column of the license. The following example is for Geomagic.



To deactivate the Local License :

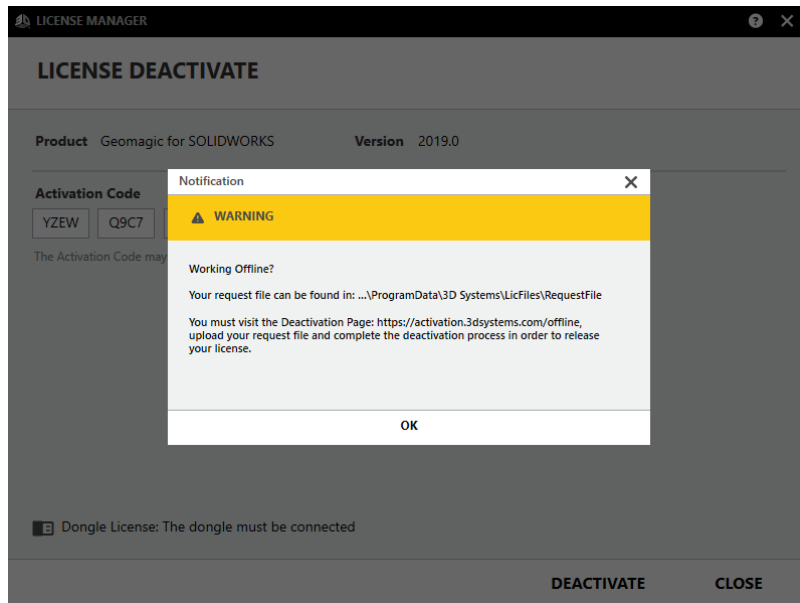
The following example is for Geomagic.

1. Click the **Deactivate** icon  in the **Deactivate** column of the license. The License Deactivate dialog is displayed.




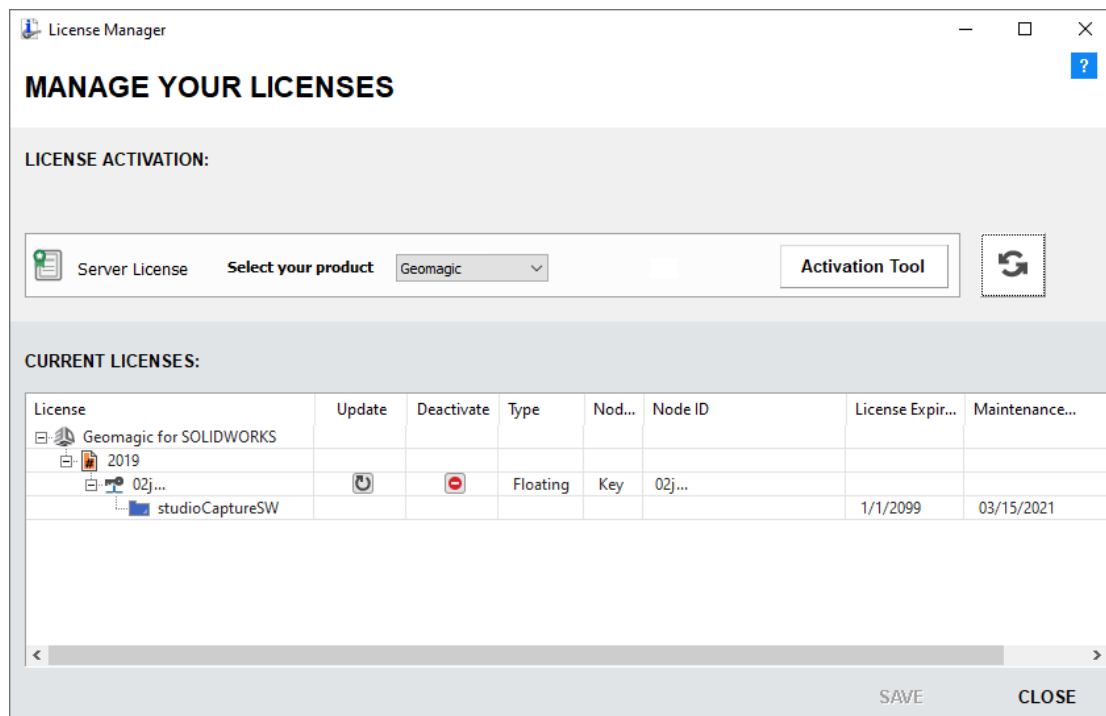
2. Press the **Deactivate** icon to deactivate your license.

3. If you are offline, the following message is displayed with instructions how to deactivate from the 3D Systems web page.




## License Manager – Server Side: Update License

To update a local license, click the **Update** icon  in the **Update** column of the license. The following example is for Geomagic.

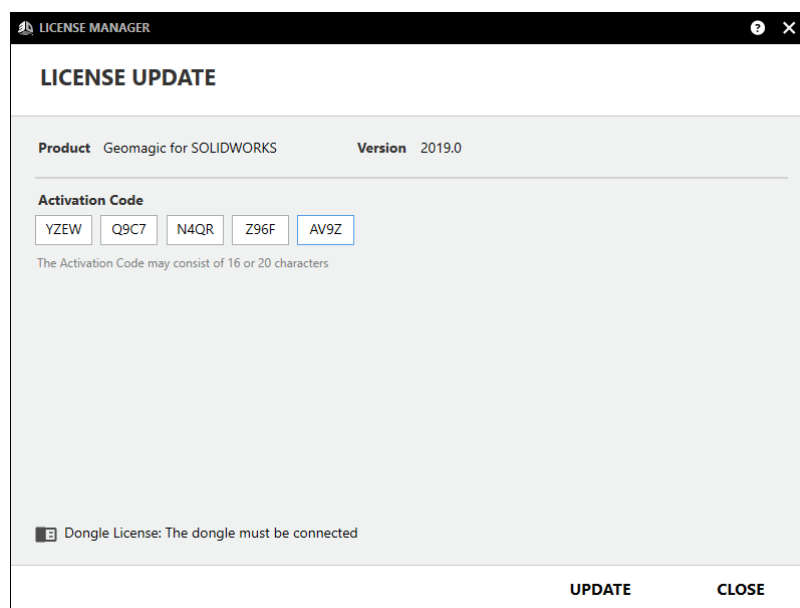


To update the Local License :

The following example is for Geomagic.

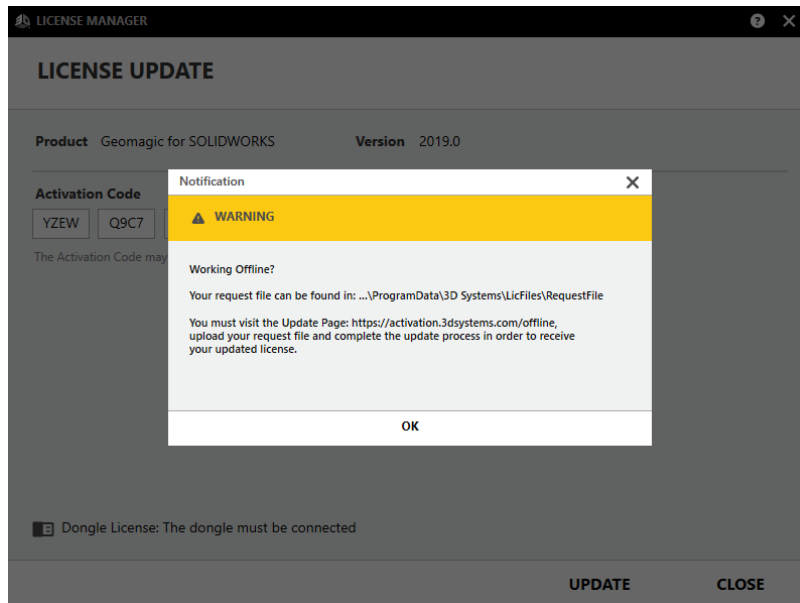
1. Click the **Update** icon  in the **Update** column of the license.

The License Update dialog is displayed.



2. Press the **Update** icon to update your license.

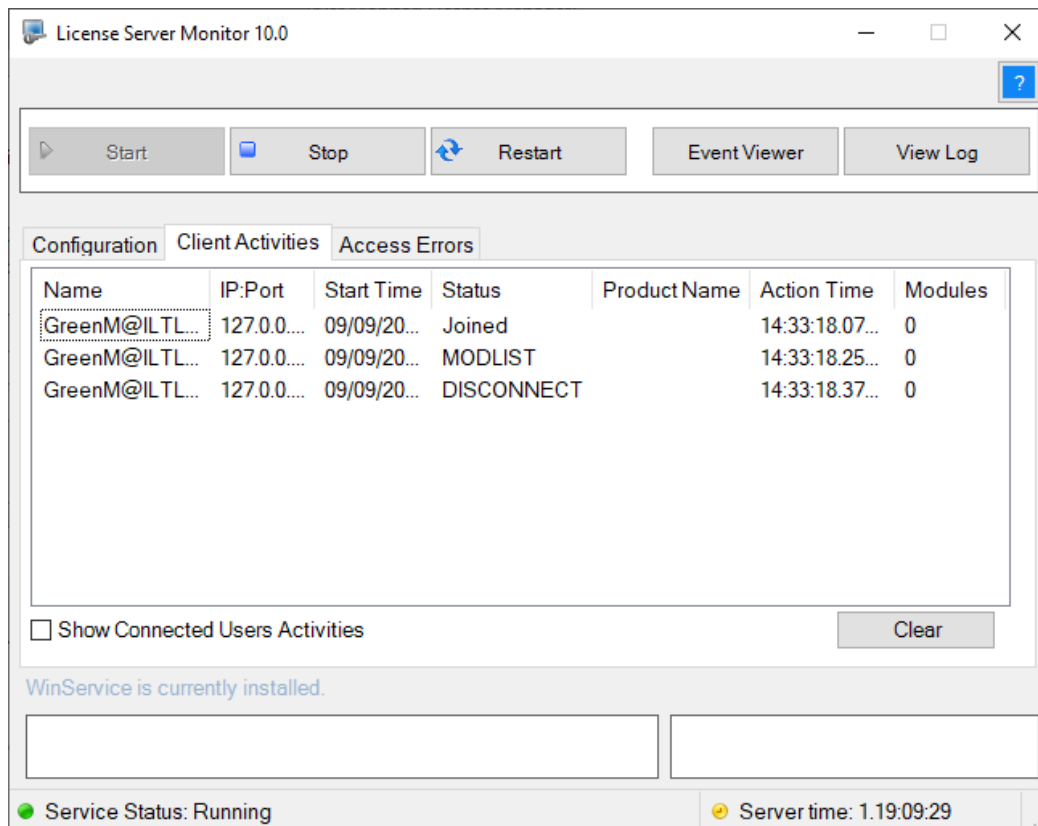
3. If you are offline, the following message is displayed with instructions how to update from the 3D Systems web page.





## Client Activities tab

The **Client Activities** tab of the **License Server Monitor** dialog lists the recent activities of all the connected clients.



### Show Connected Users Activities

When this checkbox is OFF ☐, the list is populated with all the clients activities (Joined, Grab, Disconnect, etc.).

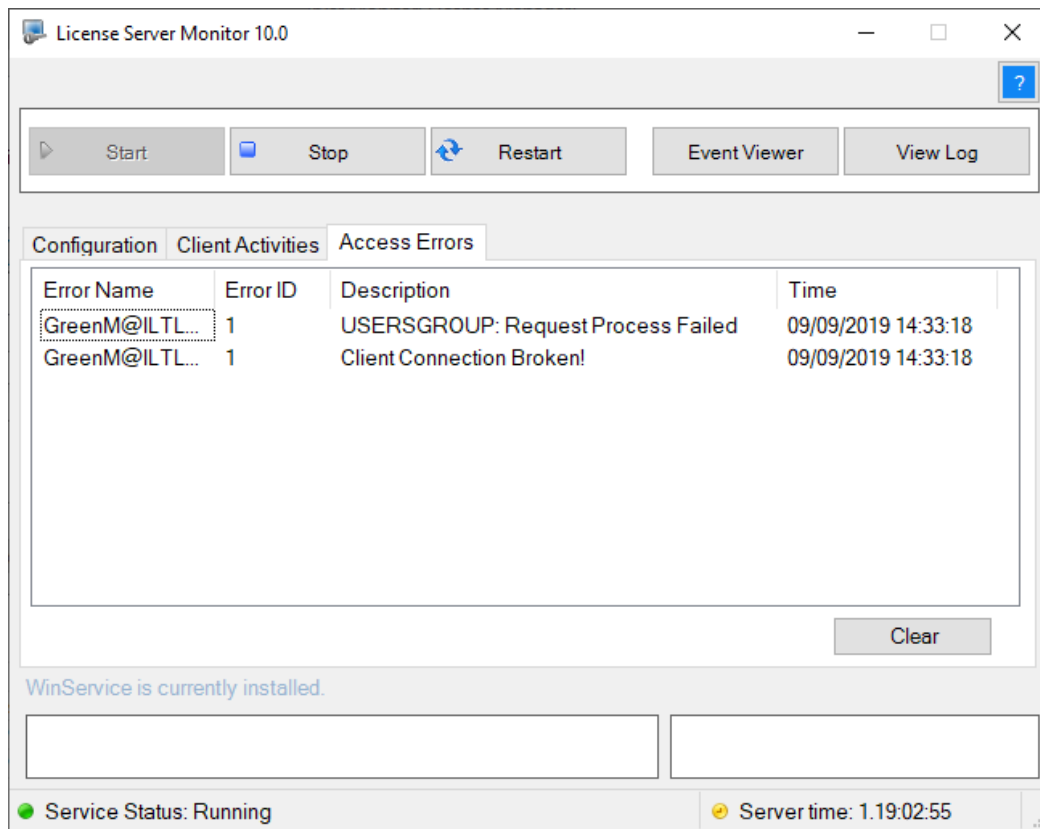
When this checkbox is ON ☒, the list is filtered to show only the activity named "Joined" (so if the original list is very long, by pressing this checkbox you can focus only on a shortened list which shows the "Joined" event only ).



**Note:** For additional information on licensing, contact your 3D Systems Provider or Reseller.

## Access Errors tab

The **Access Errors** tab of the **License Server Monitor** dialog lists the connection or access errors.



**Note:** For additional information on licensing, contact your 3D Systems Provider or Reseller.

## Licensing Troubleshooting

This troubleshooting section provides tips that can help you resolve some of the common problems associated with the **License Manager**.

Before continuing with this troubleshooting data, verify that you have read and completed the Licensing stages.

### Troubleshooting

1. If there is a conflict with the default TCP/IP port number (**10106**), try using another number (refer to the System Administrator for assistance).
2. If the client cannot connect to the floating license server, check that the server and client are connected to the same port.

The product supports floating licensing via a **TCP/IP** port number. This port number (**10106**) is the default port that is used to communicate between the floating license **server** and the **clients**. The server and the clients must be configured to the same port. This means that if you change this port number in the floating license **server** (via the **License Server Monitor**, see page 26), you also need to change the port number on the **client** side (via the **License Manager** dialog, see page 2), and vice versa.



**Note:** The server and the clients must be configured to the same port!!!

3. If the 3D Systems product is installed on the license server computer and a floating license is used, it should be connected to the server license file in the same way as all other clients ("**<Server IP >@<Server Port>**").
4. If the license cannot be found while the product is loading, perform the following:
  - Check that you entered the correct location of the license file.
  - If you are on a client computer (floating license), check that you are communicating with the server over the network.
  - Check that the server license manager has started.
5. If you encounter a problem with the **License Server Monitor** (see page 26), validate that you are an Administrator.
6. Some internet image/sound recorders (e.g. Freecorder from Applian Technologies Inc.) listen to all open ports to intercept transmissions and may cause socket creation problems.
7. Verify that the ICMP protocol is not blocked in the license server firewall.
8. If you are working with a floating server license, and lose connection to the server, please check that the client PC or server machine is not in sleep mode.



**Note:** For 3DXpert, in the case of a virtual machine, connect the HASP to the server PC and run the **Get Node IDs** utility (see page 5); if it is not recognized (as some Virtual Software does not support it) get a license based on the computer's machine key.



**Note:** For additional information on licensing, contact your 3D Systems Provider or Reseller.

## License Server Installation

The **License Server** runs the **License Service (CimLmService)** which manages client requests for licensing services from the floating license.

Before installing a new version of the **License Server**, the previous version should be uninstalled.

The License Server is installed in the following folder and will be automatically started after installation: **<Program Default>\3D Systems\License Server\**.

The License Server Installation installs the following components:

- **.NET Framework 4.6.2** (use the recommended installation defaults).
- **Runtimes:**
  - C++ Redistributable 2017 x64
  - VC2017x64
- **License Server** with built-in monitor.

The hardware / software requirements for the License Server are detailed below:

### Hardware Requirements

*Processor:* **Minimum Requirements:** Intel i3

*Memory:* 8 GB RAM

*Disk Space:* 2 GB



**Note:** Processors with more Cores/Threads will be able to more efficiently handle multiple users connected to the license server.

## Software Requirements

The software requirements for this product are detailed below.

### **Recommended:**

- Windows Server 2012 R2, 2016 or 2019.
- Windows 10, Professional.

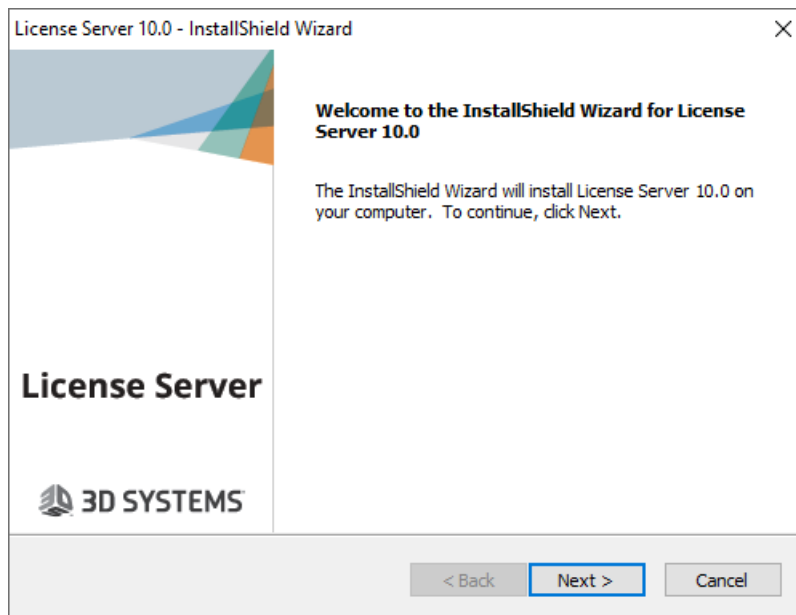
### **Not Supported:**

- Windows 7, 8, 8.1 and Windows Server 2008 are no longer supported, however, the system will still run on them.
  - Windows versions older than Windows 7 are not supported.
- 
- .NET Framework 4.6.2 is an installation prerequisite.
  - If more than 5 users are connected to the license server, it is recommended that you work with one of the Windows Server operating systems mentioned above, and not with the desktop operating systems.

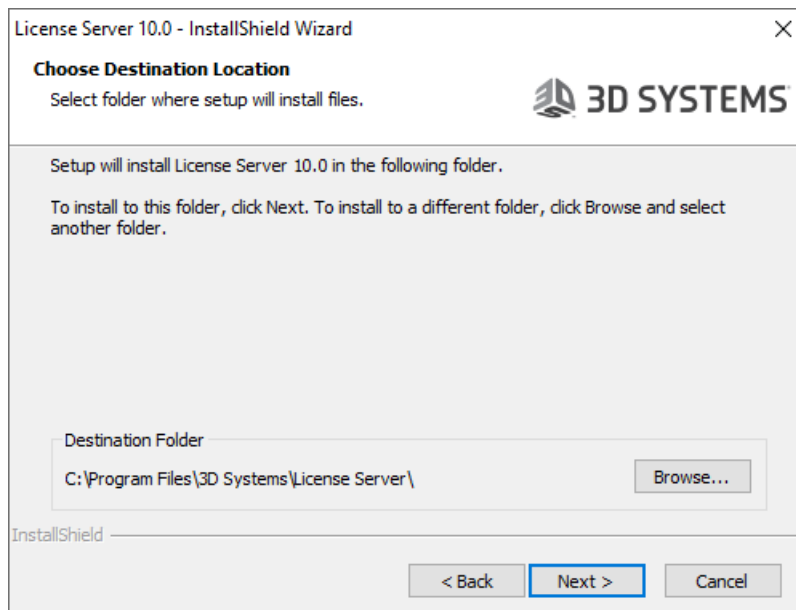
## Installation Procedure

When installing the software product, prepare the computer for installation as follows:

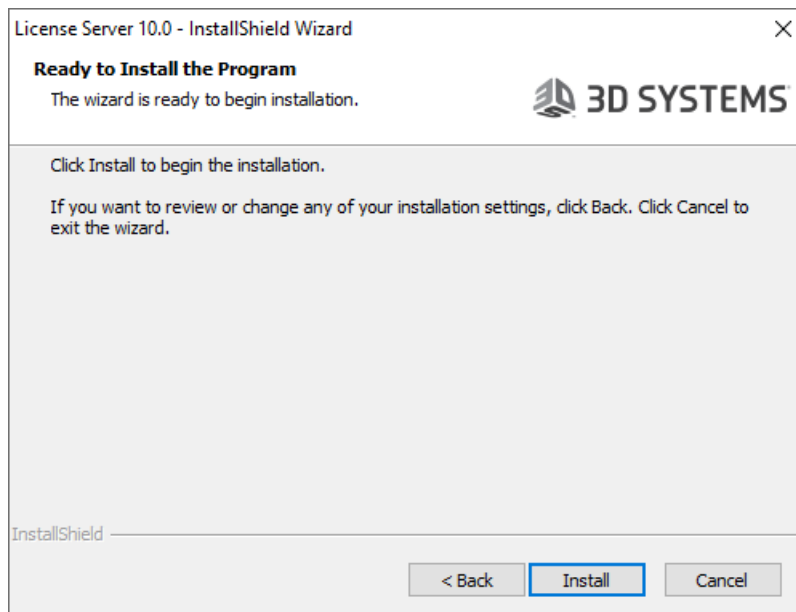
1. Close all other applications.
2. The **License Server Setup Wizard** dialog is displayed. Click **Next**.



3. The **Destination Folder** dialog is displayed. Either accept the default location or browse to select another location. Click **Next**.



4. The **Ready to Install Program** dialog is displayed. Click **Install**.



5. The installation commences. When the installation is complete, click **Finish** to exit the installation procedure.

