

License Management Guide for Floating Network License

(Using License File Based Method)



This document details how to activate, view and renew the CAMWorks license for a [Floating Network](#) installation using the [License File based Method](#).

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Product Version: CAMWorks 2022 SP2



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1. CAMWORKS LICENSE MANAGEMENT OVERVIEW

Procuring the CAMWorks License

Geometric Americas, Inc. sells products and modules under the CAMWorks suite either directly or through a worldwide network of **Value-Added Resellers (VARs)**. Users may choose between single user licenses (also alternatively referred to as [Standalone](#) or [Nodelocked](#) licenses) or multi-user licenses (henceforth referred to as [Floating Network Server](#) licenses in this text).

Information Covered in this Manual

After downloading and installing the CAMWorks application, the next step is to activate your license.

This document provides information on activating and managing a CAMWorks [Floating Network Server license](#) (multi-user) using the [License File Based Method](#).

For information on activating and managing a [Nodelocked \(Standalone\) license](#), refer the following document titled present in the same folder as this document: ***Nodelocked_License_Management_Using_License_File.pdf***.

CAMWorks Licensing Information

Before you activate your [Floating Network Server license](#), you must possess a basic understanding of the licensing related information such as the license type, license duration, license mode, etc. For details, we recommend that you refer to [Appendix A: CAMWorks Licensing Information](#) of this document.

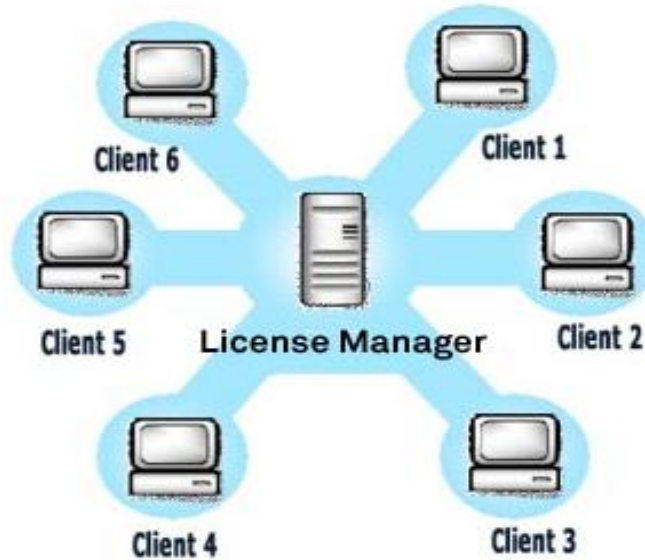
Components of a Floating Network Installation Setup

A Floating Network installation setup consists of the following two installation components:

1. License Server

One computer on the network must be designated as the **License Server**. This computer will be used to submit the license request, install, and run the CAMWorks License Service and activate the floating network license. (All these activities are done via the [CAMWorks License Manager](#) program.) Once the license is activated, it will function as the centralized system that provides licenses to client computers for running the various modules of the CAMWorks application.

If required, a virtual machine can be designated as the CAMWorks License Server for a floating network.



Representative Image of Client- License Server Setup for Floating Network License

2. Clients

The client computers are set up to run the *CAMWorks* application by accessing the floating network license setup on the *CAMWorks License Server*. Unlimited computers can be set up as clients on a network. However, the maximum permissible number of concurrent users is equal to the number of floating licenses that you purchase.

Client Machines can be connected to the *CAMWorks License Server* either via Microsoft Networks or VPN (Virtual Private Networks).

Note:

The [License Server](#) computer can also be set up as a Client. Such a setup on the License Server allows you to verify the license as well as optionally to run the *CAMWorks* application on it.

CAMWorks Modules

The *CAMWorks* application is modular in nature i.e., depending on varied CNC machining requirements, it has separate modules for *2½ Axis Milling*, *3 Axis Milling*, *Rotary Milling*, *3 Axis with Undercut*, *Turning*, *Mill Assembly Machining*, *Machine Simulation*, etc.

When you purchase the *CAMWorks* application, you will be advised on the combination of *CAMWorks* modules best suited to fulfil your machining requirements. The *CAMWorks* license you receive and activate will be configured to run only the specific modules that you have purchased. When you run the *CAMWorks* application, only the user interfaces associated with the specific modules you purchased will be activated. As Floating Network Licenses



that are multi-user in nature, the licenses for *CAMWorks* modules can be selectively activated or released back to the floating network on the client computers to make them available for other clients.

Refer [Appendix B: CAMWorks License Modules](#) for the following information related to *CAMWorks* modules:

- [Viewing the CAMWorks Modules you are licensed to run](#)
- [Selectively activating CAMWorks modules on a Floating Network](#)

Licensing Methods for CAMWorks License

The *CAMWorks* license can be activated using one of the following three methods:

i. Online Activation

The *Online License Activation* method (introduced from ***CAMWorks 2022 SP0*** version onwards) employs *Activation IDs* that function as software keys for activating the *CAMWorks* application and its various licensed modules and products. Depending on the number of products ordered, one or more Activation IDs will be emailed to end users upon processing of a *CAMWorks* related Purchase Order.

Once received via email, these Activation ID(s) must be input by the user in the relevant user interface of the *CAMWorks License Manager* tool for license activation purposes and then validated online for successful license activation.

- For details on how to activate and manage *CAMWorks* licensing for a [Nodelocked \(Standalone\) installation](#) using the ***Online Activation Method***, refer the following document that is present in the same folder as this document: ***Nodelock_Online_License_Management_Guide.pdf***.
- For details on how to activate and manage *CAMWorks* licensing for a [Floating Network installation](#) using the ***Online Activation Method***, refer the following document that is present in the same folder as this document: ***Floating_Network_Online_License_Management_Guide.pdf***.

ii. Hardware Dongle

The licensing method employs a Hardware Dongle device for *CAMWorks* licensing. Upon processing of your *CAMWorks* related Purchas Order, a license file (with *.COD file extension) will be emailed to you. The license file you receive is programmed to run the *CAMWorks* modules that you have purchased. This license file must then be activated and placed within the Hardware dongle device using the *CAMWorks License Manager* tool. When the Hardware dongle is plugged into the USB port of a Windows system on which the *CAMWorks* application and associated programs are installed, it



authorizes the use of those applications on that system. This licensing method can be used only for Nodelocked (single user) licensing.

For details on how to use this licensing method, refer the following document that is present in the same folder as this document: ***License_Activation_Using_Hardware_Dongle.pdf***.

iii. License File (Using FlexLM Software Encryption)

The License File based method uses ***FlexLM Software Encryption***. This is a built-In software encryption technology for generating licenses and can be used for both [Nodelocked \(Standalone\)](#) and [Floating Network](#) licenses.

Upon processing of your CAMWorks related Purchase Order, a license file (with *.lic file extension) will be emailed to you. This license file you receive is programmed to run the [CAMWorks modules](#) that you have purchased. It contains the following information:

- CAMWorks Serial Number
- Expiry Date of your license (i.e., the [duration](#) of the license)
- License Type ([Standalone](#) or [Floating](#))
- [CAMWorks modules](#) and products the user is licensed to run
- Expiry date of your [User Subscription Plan](#)

Once received via email, the license file must be activated of the *CAMWorks License Manager* program.

- How to activate and manage CAMWorks licensing for a [Floating Network installation](#) using this ***License File Based Method*** is explained in this document.
- For details on how to activate and manage CAMWorks licensing for a [Nodelocked installation](#) using the ***License File Based Method***, refer the following document that is present in the same folder as this document: ***Nodelocked_License_Management_Using_License_File.pdf***.

User Subscription Plan

When you purchase a CAMWorks license, you will also be enrolled for a CAMWorks ***User Subscription Plan (USP)*** of a specific duration after paying the applicable fee. You will be briefed about USP when you purchase the desired products/[modules](#) from the CAMWorks suite of applications.

Being enrolled in the *CAMWorks User Subscription Plan* makes you eligible to receive CAMWorks Technical support and training. It also allows you to keep your CAMWorks applications up to date with new features and performance enhancements in CAMWorks released in the form of CAMWorks Releases and Service Packs.



If your USP expires while your CAMWorks license is still active, it may impact your eligibility to install the latest CAMWorks Service Packs. For details, please refer, [Appendix C: User Subscription Plan](#).

License Version Date

Geometric Americas, Inc. periodically releases new *CAMWorks* versions in the form of Service Packs. Every *CAMWorks* version released has a *License Version Date* associated with it. This *License Version Date* indicates whether you are eligible to use the newly released *CAMWorks* version or not.

For details on how to check the License Version Date of the CAMWorks version that you intend to install and you whether you are eligible to run it, refer [Appendix D: Checking the License Version Date](#).

Renewing/Upgrading your Floating Network Server License

Your current license will need to be renewed/upgraded in the following scenarios:

- When you want to replace your current license with an upgraded license (that confers permission for additional number of products and/or [modules](#))
- When you want to reactivate your existing license after it license duration expires
- When you want to renew your [User Subscription Plan \(USP\)](#) after it expires

For details on how to reactivate your Floating Network Server license using the [License File](#) based method, refer [Chapter 4: Renewing/Upgrading Your Floating Network Server License](#) of this document.

CAMWorks License Manager (Software Program)

The *CAMWorks License Manager* software program is used to activate the license as well as to manage its the licensing mechanism. When you run the *CAMWorks* Installer, this tool is automatically installed/upgraded along with the *CAMWorks* application.

Launching the CAMWorks License Manager Program with Admin Rights

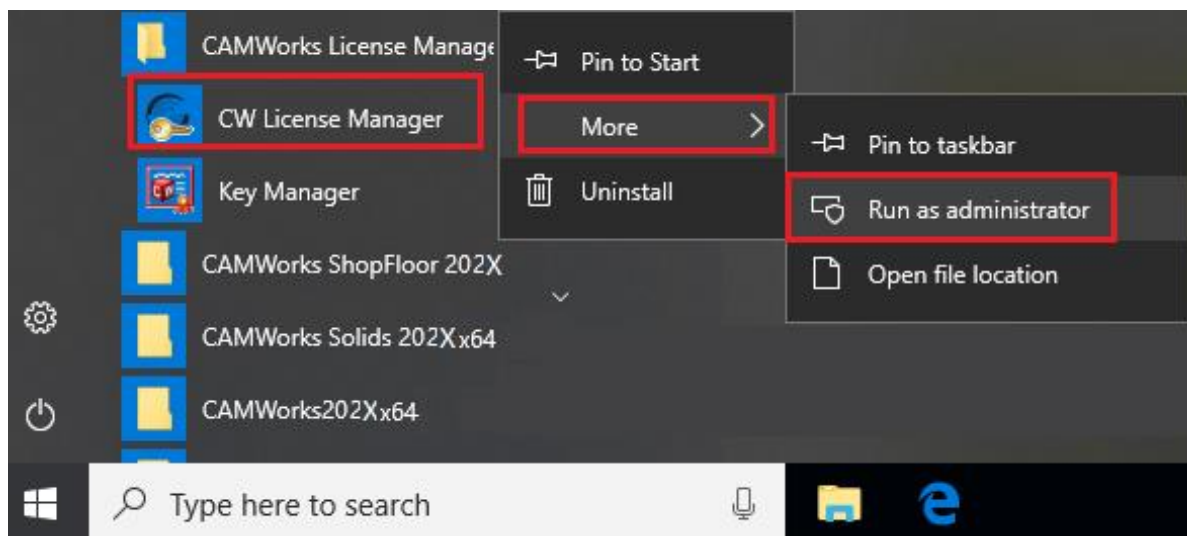
You need to launch the *CAMWorks License Manager* program with administrator privileges in order to activate, change and apply the license configuration settings within it. Without administrator-level rights, any changes done to the license configuration settings will be applicable only to the current user.



Launching CAMWorks License Manager on Windows Systems with Admin Rights

1. Click on the *Windows 10 Start* menu and select **CAMWorks License Manager**.
2. The **CW License Manager** item will be displayed under it. Right-click on **CW License Manager** and select **More>>Run as administrator** from the cascading context menu.

The *CAMWorks License Manager* dialog box will be displayed with full Admin rights.



Launching CAMWorks License Manager Tool with Admin Level Rights

Launching CAMWorks License Manager from within SOLIDWORKS Application

The *CAMWorks License Manager* tool can be launched from the *SOLIDWORKS* or *CAMWorks Solids* environment if the *CAMWorks* application is loaded as an *Add-in*. To launch the *CAMWorks License Manager* tool, click on the **Help** menu and select **CAMWorks 2022>>License Manager**.

The *CAMWorks License Manager* dialog box will be displayed with full Admin rights.

Installing/Upgrading the CAMWorks License Manager Tool

Refer the topic: [Installing/Upgrading the CAMWorks License Manager Tool](#) in [Appendix A: CAMWorks Licensing Information](#) of this document.



2. SUPPORTED PLATFORMS & PRE-REQUISITES

Supported Platforms for Floating Network Setup

Supported OS Platforms for CAMWorks License Server

- Windows 10
- Windows 7 SP1 or higher
- Window Server 2022
- Window Server 2019
- Windows Server 2016
- Windows Server 2012 including R2

Supported OS Platforms for Client Machines

- Windows 10
- Windows 7 SP1 or higher (Home editions are not supported)

Pre-requisites for Activating License for a Floating Network Setup

1. **CAMWorks License Manager:** The presence of the [CAMWorks License Manager](#) program on the [Client](#) and [License Server](#) machine is a pre-requisite for activating the CAMWorks license. For details, refer the topic: [Manually Installing/Upgrading the CAMWorks License Manager Program](#) in [Appendix A: CAMWorks Licensing Information](#) of this document.
2. **Administrator Privileges:** You must be logged in as Administrator when configuring settings in the **CAMWorks License Manager** program.
3. **Microsoft Networks:** The CAMWorks [Floating Network Setup](#) is supported only on Microsoft Windows networks.
4. **Read Permissions:** The folder in which the [CAMWorks License Manager program](#) is installed on a [client computer](#) must be on a local drive of the current computer and must have read permissions in order to access the floating license residing on the [License Server](#).
5. **MAC Addresses:** *MAC (Media Access Control)* addresses are identifiers assigned to most network adapters or network interface cards by the manufacturer for identification. To ensure that the CAMWorks license on the server remains active, it is recommended that:
 - The [License Server](#) computer should contain only one MAC address and it must remain static.
 - This License Server computer should not be moved or reconnected to the network using a different method. For example, from wireless to hardwired after the license has been issued and is running.



3. ACTIVATING YOUR FLOATING NETWORK SERVER LICENSE

Given in this chapter are the steps to activate a [Floating Network License Setup](#) using the [License File](#) based [method of CAMWorks licensing](#).

Steps to Activate the Floating Network License Setup

Step 1: Supported Platforms, Pre-requisites, and Activations IDs

1. Ensure that the [License Server](#) and [Clients](#) on the Floating Network have a [supported OS platforms](#) (refer [Chapter 2 of this document](#)).
2. Ensure that all the pre-requisites for activating the license on a Floating Network setup are met (refer [Chapter 2 of this document](#)).

Step 2: Installing CAMWorks License Manager Tool on License Server

The CAMWorks licensing activation and management mechanism is controlled using the *CAMWorks License Manager* tool. This tool needs to be installed on the *License Server* and *Clients* in order to activate the license.

- In case you intend to also use the Windows system designated as the License Server as a Client system on which the CAMWorks application will be run, then download and install the CAMWorks application on the License Server. The *CAMWorks License Manager* tool will be automatically installed along with the CAMWorks application when you run the CAMWorks Installer.
- In case you intend to use the License Server only for license management with respect to CAMWorks, then you don't need to install the CAMWorks application on the License Server. Only install the *CAMWorks License Manager* tool from the *CAMWorks Installer Package*. For details on how to install this software program from the *CAMWorks Installer Package*, refer the topic: [Manually Installing/Upgrading the CAMWorks License Manager Program](#) in [Appendix A: CAMWorks Licensing Information](#) of this document.

Step 3: Requesting the License on the CAMWorks License Server

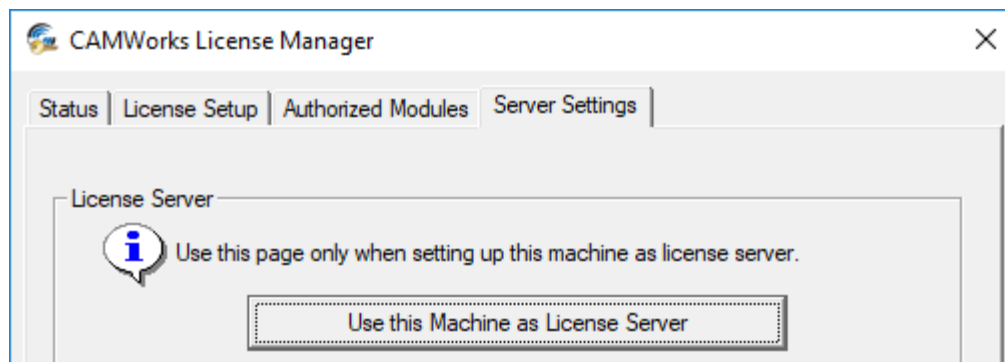
1. On the Windows system designated as the [CAMWorks License Server](#), [launch the CAMWorks License Manager program](#).
2. The *CAMWorks License Manager* dialog box will be displayed. Click on its **License Setup** tab.
3. In the *License method*, dropdown list, ensure that the **Floating Network** option is selected.
4. Click on the **Server Settings** tab.



License Activation Using Online Activation Method

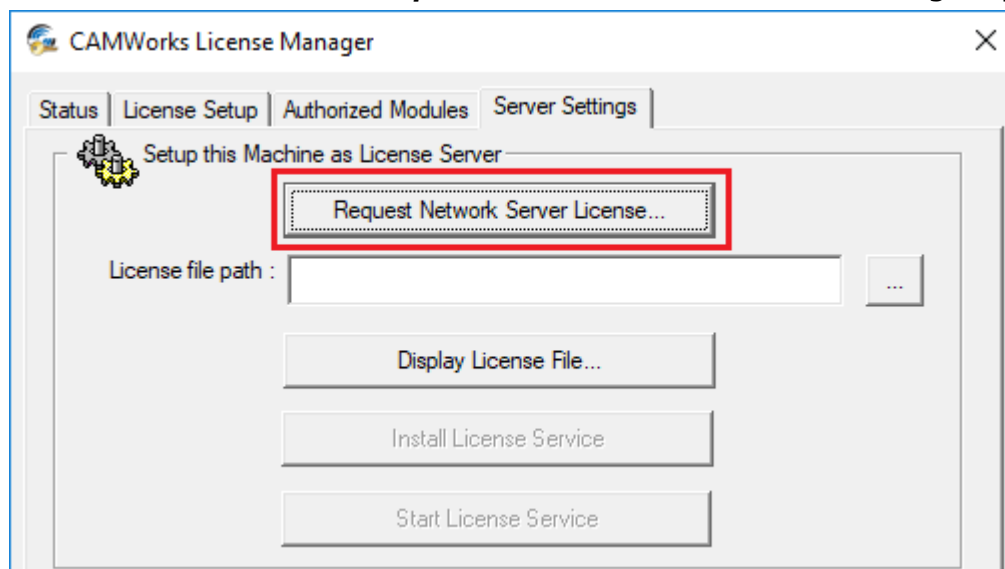
The *Server Settings* tab is to be strictly used only for requesting the license for a floating network and setting up the current *Windows* machine as the CAMWorks License Server.

5. As the current machine has not yet been setup as the license server, the ***Use this Machine as License Server*** button will be displayed within the ***License Server*** group box of this tab. Click on this button.



'Use this Machine as License Server' button in Server Settings Tab

6. Clicking on this button displays within this tab the parameters and settings required for configuring the current *Windows* machine as the [CAMWorks License Server](#).
7. To request the floating network license, click on the ***Request Network Server License...*** button within the ***Setup this Machine as License Server*** group box.



'Request Network Server License' button in Server Settings Tab



8. The **License Request: Server** form will be displayed. You must complete and submit this form in order to receive the license file required to activate your license.

License request : Server

* Denotes required field

User Information

CAMWorks Serial Number*: ☒ I do not have/know the CAMWorks serial number

First name*:

Last name*:

Company*:

Address:

City:

State / Province*:

Zip / Postal Code:

Country*:

Work phone*:

Fax:

E-mail to receive license codes*:

Alternate E-mail:

Server License

Server port for floating license:

☒ I have read HCL Technologies [Privacy Policy](#) and agree to its terms and conditions. By providing my contact information and submitting a license request, I authorize HCL Technologies to store my contact details and contact me via email, phone, or mail, with CAMWorks license, product information emails, product upgrade mailers, and promotional offers associated with my CAMWorks licenses.

E-mail request via

'License Request: Server' Form

9. When filling this form, take care of the following:



- i. **Compulsory Fields:** Asterisks (*) indicate required fields. You will not be able to generate a License Request file unless all fields marked with an asterisk (*) are filled in.
 - ii. **CAMWorks Serial Number:**
 - a. If you are a first-time user, there will be no serial number associated with your CAMWorks license as no license file has yet been given to you. In such a case, place a check in the checkbox labelled ***I do not have/know the CAMWorks serial number*** at the top of the form.
 - b. If you are submitting a license request in order to renew/enhance an existing license, then the serial number associated with your current CAMWorks license will be auto retrieved and populated in the ***CAMWorks Serial Number*** field of the form. In case this field is not auto populated, click on the *Status* tab of the *CAMWorks License Manager* to view your *CAMWorks Serial number* and input this serial number in the *CAMWorks Serial Number* field. If no serial number is displayed in the *Status* tab, then place a check in the checkbox labelled ***I do not have/know the CAMWorks serial number*** below the *CAMWorks Serial Number* field.

When you receive the license file, the serial number associated with your CAMWorks license will be embedded in the encrypted license file.
 - iii. **Server port for floating license:** Use this field in the *Server License* group box to indicate the port number of the port that will be used exclusively for CAMWorks Floating Network Licensing.
 - iv. **HCL Technologies Privacy Policy:** Place a check in the checkbox at the bottom of the field after reading *HCL Technologies' Privacy Policy* (link to the policy is provided within the form). You cannot submit the license request without checking this checkbox.
10. **Emailing the License Request:** You need to email the License request once the form is filled.
- If you use the *Microsoft Outlook* application for emails, you can click the ***Create E-mail using Outlook...*** button to submit the license request form. Clicking on this button generates the license request file (*.cwreq) and adds it as an attachment to a new Outlook email item. Email this license request to the address (register@camworks.com) auto populated in the *To* field.
 - If you use a different email software application, click the ***Open in Windows Explorer...*** button within the form. A message box will display the folder location where the generated license request file has been saved. You can either click the **OK** button within this message box to




close the message or click the **Open File Location** button to close the message box and open the folder location where license request file has been saved. You need to email in this file as an attachment to register@camworks.com.

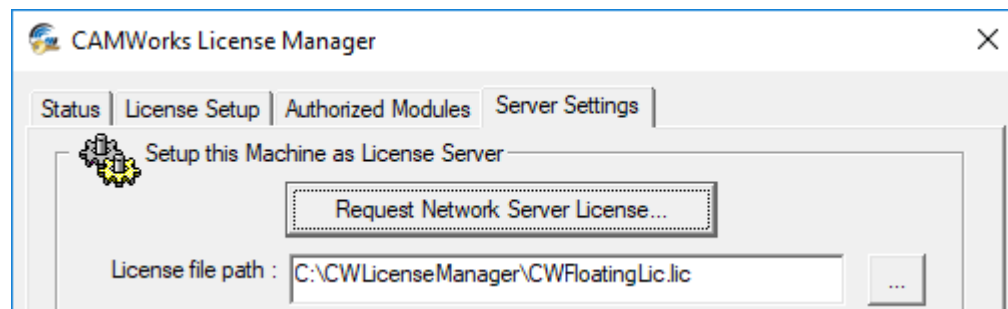
11. Click the **Close** button to exit the *License Request: Server* form. You can also close the *CAMWorks License Manager* dialog box.

The license for the *CAMWorks* application can be activated once you receive the license file from *Geometric Americas, Inc.* You will receive the license file within one U.S. business day after emailing the **License Request file**.

Step 4: Installing and Activating License Service on the License Server

Once you receive the license file from *Geometric Americas, Inc.*, copy the license file to a folder on the *Windows* machine that has been designated as the [License Server](#).

1. On the [CAMWorks License Server](#), once again [launch the CAMWorks License Manager program with Admin-level rights](#).
2. The *CAMWorks License Manager* dialog box will be displayed. Click on the **Server Settings** tab.
3. In the **Setup this Machine as License Server** group box of this tab, set the **License file path**. To do so, click on the **Browse** button  adjacent to the **License file path** field.
4. The *Windows File Explorer* dialog box will be displayed. Use this dialog box to navigate to the folder where the license file has been saved. Select the license file and click on the **Open** button.
5. The *Windows File Explorer* dialog box will close, and the user interface will revert to the *Server Settings* tab. Observe that the file path to the selected license file is now displayed in the **License file path** field.




'License Path Field' in Server Settings Tab



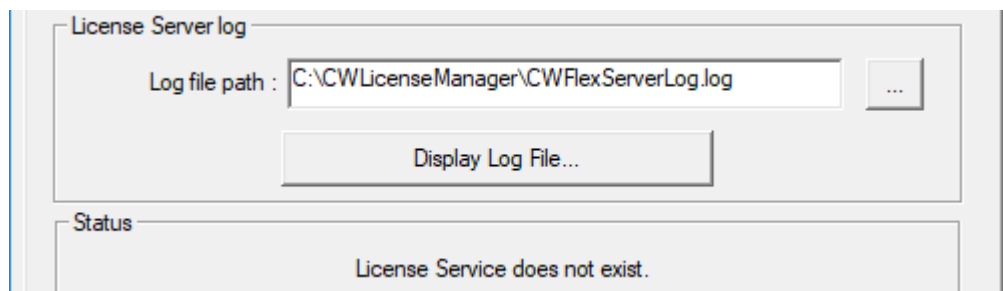
License Activation Using Online Activation Method

6. In the License Server log group box, set the **Log file path**. A default location is already set in this field. (This default folder location is the same location as the *CAMWorks License Manager* program.) If desired, you can change this default location to a user-defined folder location to suit your requirements.

Use the *Browse* button  adjacent to the **Log file path** field for this purpose.

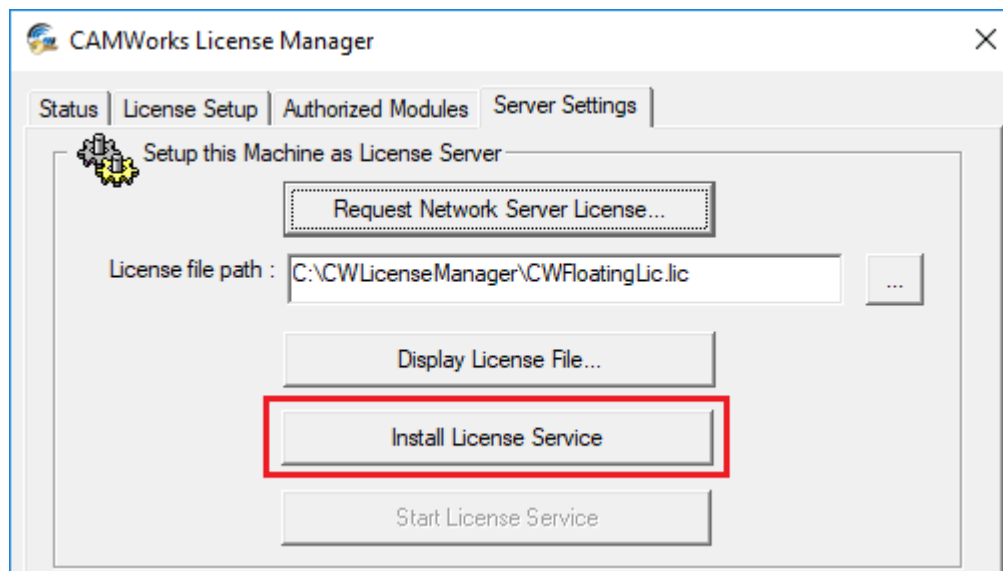
When assigning the log file path, the following must be adhered to:

- The log file must reside on the License Server that is running the *CAMWorks License Service*.
- The log file folder and the log file *must* have read/write permissions.



'Log file path' Filed in 'License Server Log' group box in Server Settings Tab

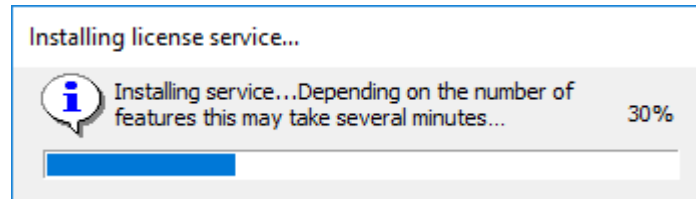
7. Observe the status message at the bottom of the tab. It reads **"License Service does not exist."** The next step is to install the license service. To do so, click on the **Install License Service** button within the *Setup this Machine as License Server* group box. This command will install the License Service.



'Install License Service' button in Server Settings Tab

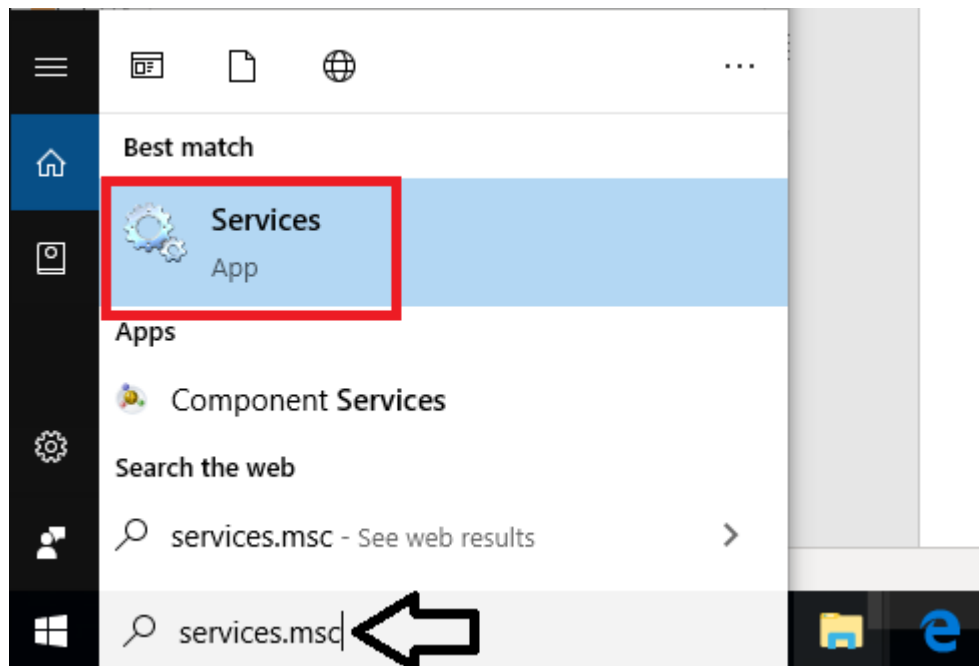


8. Installation of the license service will take a few seconds to a few minutes. A progress bar will indicate the progress of the installation.



Progress bar indicating progress of the License Service Installation

9. Exit the *CAMWorks License Manager* dialog box by clicking on the *OK* button.
10. In the *Search* box adjacent to the Windows **Start** menu, type **Services.msc**. Click on the **Services** app displayed in the results.

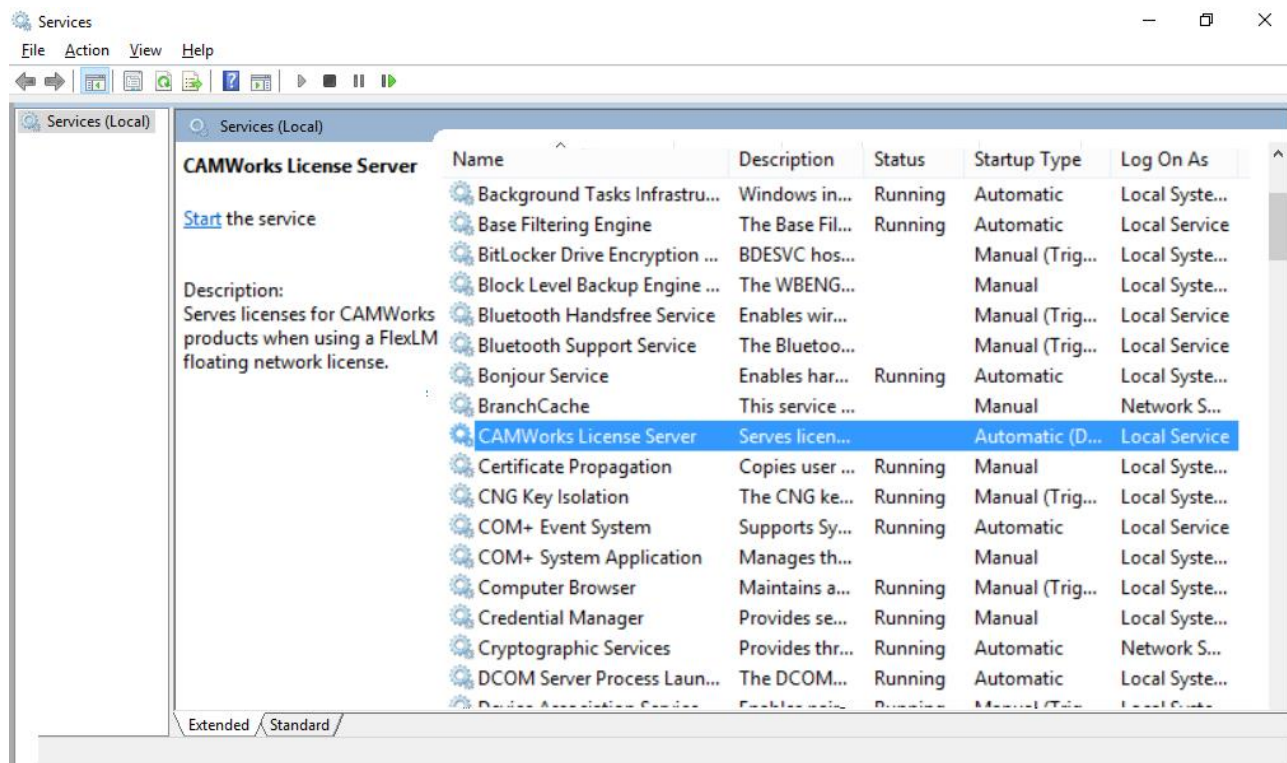


Launching Services.msc

11. The *Services* window will be displayed. This window displays a list of all the services currently installed on the system in alphabetical order. Locate the service named *CAMWorks License Server*.

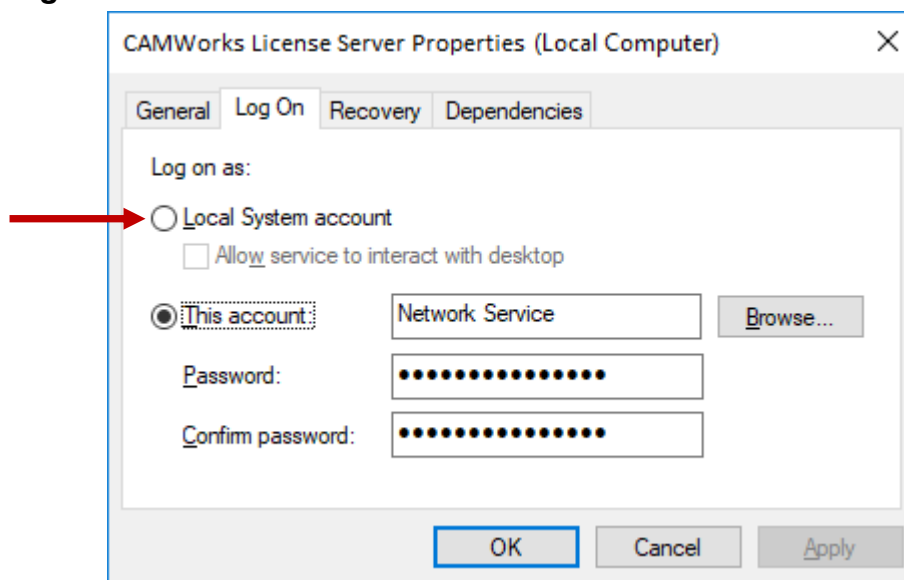


License Activation Using Online Activation Method



‘CAMWorks License Server’ service listed in list of Services

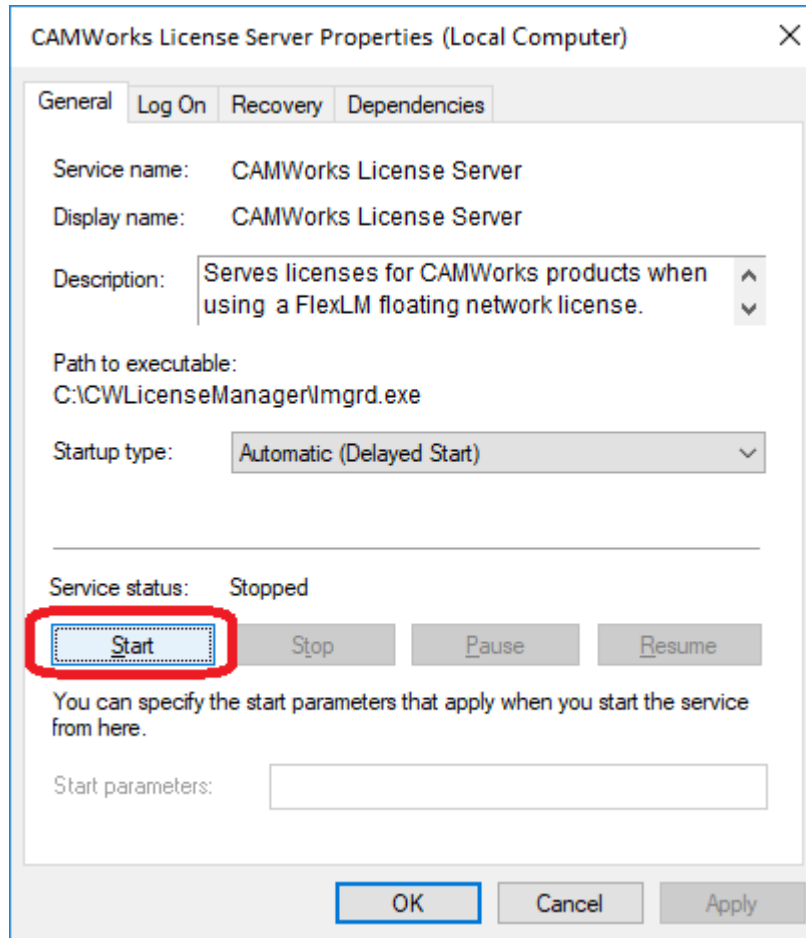
- Right-click on the *CAMWorks License Server* item listed in the *Services* window and select **Properties** from the context menu.
- The **CAMWorks License Server Properties** dialog box will be displayed. Click on the **Log On** tab.



Log On tab of CAMWorks License Server Properties dialog box

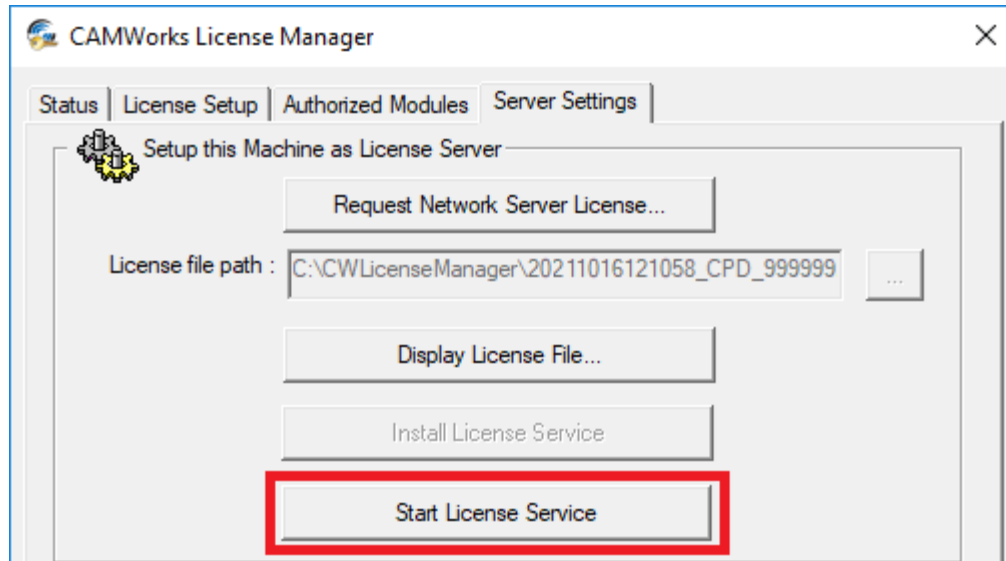


14. Two options will be displayed within this tab viz. **Local System account** and **This account**. Ensure that the **Local System account** option is selected. If not selected, then ensure that this option is selected.
15. Click on the **General** tab of this dialog box. Press on the **Start** button.



General tab of CAMWorks License Server Properties dialog box

16. Click on the OK button of this dialog box to apply the changes and close the dialog box.
17. Exit the Services Window.
18. [Launch the CAMWorks License Manager program with Admin-level rights](#) once again.
19. Click on the **Server Settings** tab. Observe that the **Start License Service** button is enabled. Click on this button to initiate this service.

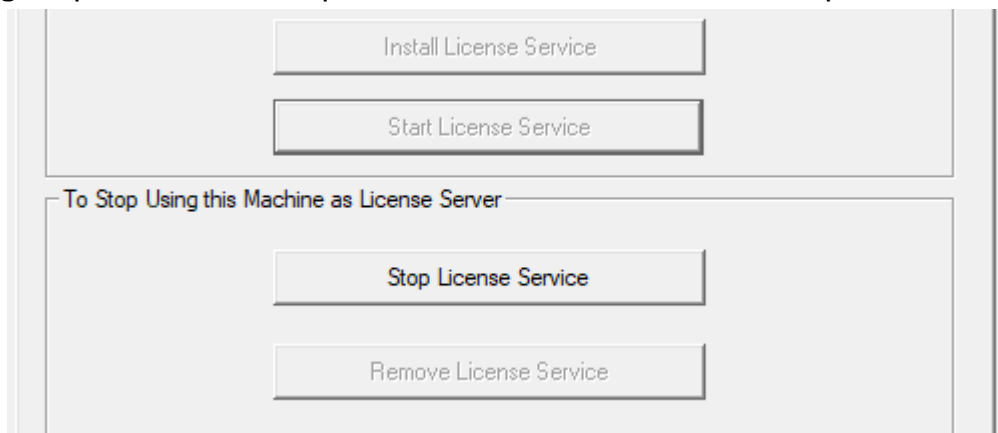


'Start License Service' button in Server Settings Tab

20. Once the License service is successfully up and running, the **Start License Service** button will be disabled and the group box **To Stop Using this Machine as License Server** will be displayed in the **Server Settings Tab**. This group box contains the **Stop License Service** and **Remove License Service** buttons.

- Use the **Stop License Service** button when you wish to stop the license service.
- Use the **Remove License Service** button when you wish to remove the license service. This button will be enabled only after license service is stopped.

Do not use the buttons within the **To Stop Using this Machine as License Server** group box as we require the license service to be up and running.



'To Stop Using this Machine as License Server' group box

21. Observe the status message at the bottom of the dialog box again. The message now indicates that the **License Service is running**.



The *Status* group box also indicates info about the Server Host Name and Port Number settings to be assigned in the *License Setup* tab for client computers. Note that this port number is identical to the port number that was specified in the [Server port for floating license](#) field of the **License Request: Server** form.



Status message at the bottom of the Server Settings Tab

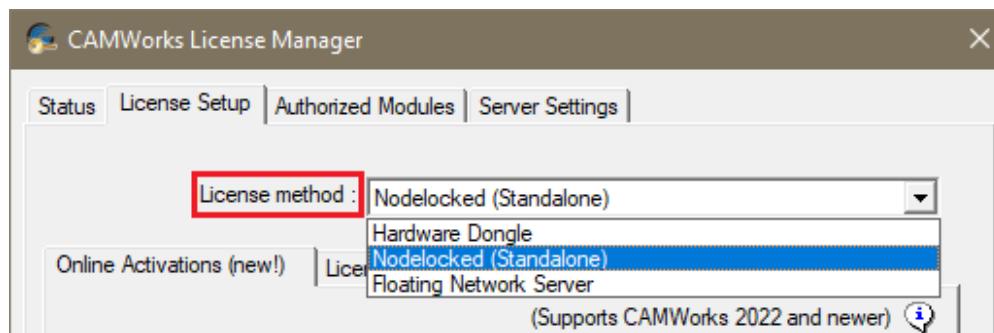
Step 5: Enabling Access to Floating Network License on Client Systems

After the *CAMWorks License Service* is installed and successfully running on the [License Server](#), you can activate the license for the CAMWorks application on the client computers. This license activation is achieved by enabling the Clients to access the *License Service* running the [License Server](#) via the Floating Network.

The [CAMWorks License Manager](#) tool (which is used to activate and manage the licensing mechanism) is automatically installed on all the [client](#) computers when the *CAMWorks* application is installed. On client computers, the activation of the license can be performed remotely, if required.

Following are the steps to activate the Floating Network license on each client:

1. On the client, [launch the CAMWorks License Manager tool with Admin-level rights](#).
2. The *CAMWorks License Manager* dialog box will be displayed. Click on the *License Setup* tab.
3. Under this tab, select the **Floating Network Server** option in the *License Method* dropdown list.



Select 'Floating Network Server' option for License Method under License Setup Tab



License Activation Using Online Activation Method

4. Two contextual tabs will now be displayed under this tab viz. *Online Activations (New!)* and *License Based Activation*. Click on the contextual tab labelled **License Based Activation**.
5. In the *Configure FlexLM License* group box under this contextual tab, assign the followings settings for the parameters under **Set Server Host name and Port number for floating license**.
 - Type the name of the [License Server](#) computer in the **Server Host name** field.
 - Assign the port number in the **Port number** field.
(For *Server Host Name* and *Port number*, refer the **Status** group box at the bottom of the *Server Settings* tab.)

Parameters under 'Set Server Host name and Port number for floating license' in 'Configure FlexLM License' group box of License Setup Tab

Note:

The **Server Host name** must be the Host name of the **License Server** computer, and not the **Host name** of the client computer.

For *Server Host Name* and *Port number*, refer the *Status* group box at the bottom of the *Server Settings* tab in *CAMWorks License Manager* dialog box of the License Server.

Note:

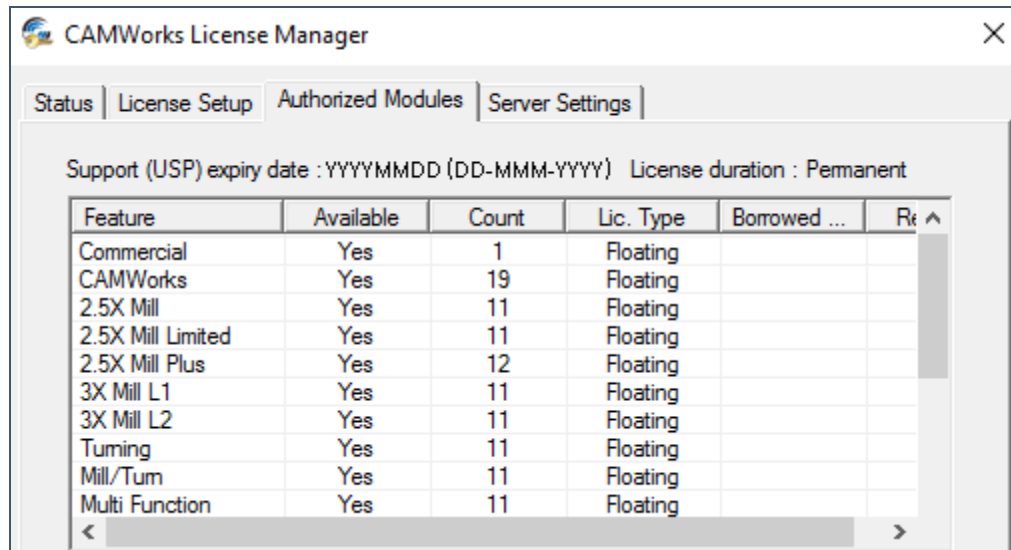
The Floating Network license allows a client computer to borrow a license for use when not connected to the network. This feature of borrowing licenses on a client computer mandatorily requires the Port number of the Server computer to be input in the *License Setup* tab of the *CAMWorks License Manager* dialog box on the client computer.

6. Click on the *Apply* button.
7. Click the *Authorized Modules* tab. All the [CAMWorks modules](#) (including information on their availability, type, borrow status, etc.) will be listed in this tab.
 - If the *Authorized Modules* tab is populated with the [CAMWorks modules](#), it indicates successful activation of the floating network license.



–If the *Authorized Modules* tab is blank, then it indicates that the [License Server](#) may have a firewall that is preventing you from accessing it. You need to reconfigure the firewall so that it allows the client machines on the network to access the **License Service** on the *License Server*. Set the following exceptions in your Firewall:

- Teksoft.exe
- CWLicenseManager.exe
- Lmgrd.exe



Authorized Modules tab populated with CAMWorks modules indicates successful activation of the Floating Network license on a client

8. Click *OK* to close the *CAMWorks License Manager* dialog box. The *CAMWorks* license on the client system is now activated. (No additional information and actions are required for enabling floating network license on a client computer.)

9. Repeat the above steps on each client on the floating network.

Once done, the activation of the *CAMWorks* license on your *Floating Network Setup* is now successfully completed. You can now run the *CAMWorks* application on all the [Clients](#).

Note: If you face any licensing issues with respect to Floating Network Licensing, then for troubleshooting, then refer: [Troubleshooting A: License Activation](#) and [Troubleshooting B: Licensing Issues for Floating Network Licensing](#).



Selectively Activating CAMWorks Modules on Client Computers

The CAMWorks license you receive contains information on all the [CAMWorks modules](#) you are licensed to run. On a floating network, the CAMWorks license file also contains information on the number of licenses allotted for each CAMWorks module.

On a floating network with multiple users, situations may arise where it becomes imperative to activate only those modules that the client requires and release unused modules to other clients that may require them.

To understand how to selectively activate CAMWorks modules on a client computer, read the section: [Selectively Activating CAMWorks Modules](#) within [Appendix A](#).

Updating a Floating Network License

If your [User Subscription Plan](#) and/or Floating Network license [expires](#) or if you upgrade your license to include additional [CAMWorks modules](#) and products, then you need update your existing license. For detail, refer [Chapter 4: Renewing/Upgrading Your Floating Network Server License](#) of this document.

License Server & Client Setup for VPN

Under a Floating Network license setup, when a client runs specific modules of the CAMWorks application, the license for running the CAMWorks module needs to be verified. This is done by fetching the license from the CAMWorks License Server via the network. If the network response is slow(especially on VPNs), it can hamper the license verification and deployment process, thereby rendering the client unable to run the desired [CAMWorks modules](#).

The CAMWorks License Server-Client License Setup can be configured in specific manner to improve overall network response and provide prompt license verification and deployment.

For details, refer the following Appendix within this document: [Appendix E: License Server & Client Setup to Improve Network Response \(VPN\)](#).



4. RENEWING/UPGRADING YOUR FLOATING NETWORK SERVER LICENSE

You need to reactivate your CAMWorks license when your license or [User Subscription Plan](#) expires or when you upgrade your license to include more CAMWorks modules.

Given in this chapter are the steps to reactivate your Floating Network Server License when you use the [CAMWorks Licensing Method](#) of [License File](#).

Steps to Renew/Upgrade the Floating Network License on License Server

Step 1: Receiving the Fresh License File

When you renew/upgrade your Floating Network license or [User Subscription Plan](#), you will receive a fresh license file via email. You need to activate this fresh license file only on the Windows system serving as [CAMWorks License Server](#).

Step 2: Activating the Newly Received License File on the License Server

Follow the below steps to activate the new license file for a floating network installation:

1. Download the fresh License file and save it to a secure location on the CAMWorks License Server.
2. Log off all clients.
3. On the **License Server**, [launch the CAMWorks License Manager program with Admin-level rights](#). The CAMWorks License Manager dialog box will be displayed.
4. Click on the **Server Settings** tab.
5. In the **To Stop using this Machine as License Server** group box under this tab, click on the **Stop License Service** button to stop the **License Service**.
6. Once the license service is stopped, the **Remove License Service** button within this group box will be enabled. Click on this button to remove the License Service and the current license file from the **License file path** field.
7. **Close** the CAMWorks License Manager dialog box.
8. [Relaunch the CAMWorks License Manager program with Admin-level rights](#).



License Activation Using Online Activation Method

9. Once again, click on the **Server Settings** tab. Click on the *Browse* button adjacent to the **License file path** field. **Browse** to the folder containing the new license file.
10. **Select** the new license file and click **Open**.
11. In the **Log file path** field, set the path for the log file.
12. In the **Setup this Machine as License Server** group box, click on the **Install License Service** button.
13. Once the license service is installed, the **Start License Service** button will be enabled. Click on this button to start the License Service and thereby activate the newly selected license.
14. Click **OK** to close the *CAMWorks License Manager* dialog box.

Step 3: Enabling Access to Floating Network Server License on Clients

No changes are required on the client computers for accessing the license as long as the machine designated as the License Server and the assigned Port number remains unchanged. If and when either or both of them are changed, follow the steps given in the topic: [Enabling Access to Floating Network License on Client Systems](#) in [Chapter 3](#) of this document.



APPENDIX A: CAMWORKS LICENSING INFORMATION

Given in this appendix are all relevant details you need to know about *CAMWorks* licensing before you proceed with activating, renewing, or upgrading the license.

Types of CAMWorks License

Based on single-user or multi-user requirements, the *CAMWorks* license can be activated either as a Nodelocked license (for single-user installation) or as a Floating Network Server License (for multi-user installation).

1. The Nodelocked (Standalone) License

A standalone license (node locked) authorizes the use of *CAMWorks* on a single Windows system.

- To learn all the steps involved in activating the *Nodelocked (Standalone)* license using the [Online Activation Method](#), refer the following document: ***Nodelocked_Online_License_Management_Guide.pdf***.
- To learn all the steps involved in activating the *Nodelocked (Standalone)* license using the [License File Based Method](#), refer the following document: ***Nodelocked_License_Management_Using_License_File.pdf***.

Both these documents are present in the same folder as this current document.

2. The Floating Network Server License

The *Floating Network Server* license is ideal in environments where multiple copies of *CAMWorks* are to be run simultaneously on multiple *CAMWorks client* computers. One computer on such a network needs to be designated as the *CAMWorks License Server*. This computer will be used to submit the license request, install, and run the *CAMWorks License Service* and activate the *Floating Network Server* license. (All these activities are done via the [CAMWorks License Manager](#) program.) Once the license is activated, it will function as the centralized system that provides licenses to client computers for running the [CAMWorks modules](#).

Floating Network Server licenses are supported for all Client-Server Setups where the client is connected to the *CAMWorks License Server* via a *Microsoft Computer Network* or *VPN (Virtual Private Network)*.

For details on how to activate a *Floating Network Server* license using the [License File Based Method](#), refer [Chapter 3: Activating Your Floating Network License](#) of this document.



License Duration of the CAMWorks License

The CAMWorks license can be either perpetual or time bound in nature.

CAMWorks License of Perpetual Nature

The *CAMWorks* license you purchase from your Reseller is usually perpetual in nature. This means that the license will never expire, and you can continue using the *CAMWorks* application forever. However, note that you need to purchase a separate [User Subscription Plan \(USP\)](#) in order to receive latest updates for *CAMWorks* and to receive technical support.

For more details on *User Subscription Plan*, read [Appendix B: User Subscription Plan](#) of this document.

CAMWorks License of Time-bound nature

In most cases, the *CAMWorks* license issued to you will be a time bound license. Such licenses are non-perpetual in nature and *CAMWorks* will not function after the expiry date of the license.

If you are running *CAMWorks* using a license which is time bound in nature, when fewer than 30 days remain for the license to expire, *CAMWorks* will display a message indicating the number of days left for the license to expire. If you want to renew your license, contact your *CAMWorks* Reseller. After renewing, you need to [reactivate your license](#).

For details on how to renew an expired [Floating Network Server](#) license or upgrade a license, refer:

- [Chapter 4: Renewing/ Upgrading Your Floating Network License Server License](#)

CAMWorks License Modes

When you purchase a *CAMWorks* license, the mode in which it is intended to be run is also embedded in the license. *CAMWorks* is currently supplied in Commercial, Educational and Instructor license modes. When *CAMWorks* fails to detect a valid license, it will run in [Demonstration Mode](#) when launched as an Add-In within *SOLIDWORKS*.

Commercial Mode

The *Commercial* mode of the *CAMWorks* license is intended for commercial purposes. *CAMWorks* is fully functional in the *Commercial* mode.

Educational Mode

The *Educational* mode of the *CAMWorks* software license is intended for non-commercial, educational use only. The *Educational* license mode may not be resold or used for commercial purposes. In the *Educational* mode version, *CAMWorks* is fully functional except for these following restrictions:



- CAMWorks data saved in files using the *Educational* mode license cannot be restored in a *Commercial* license mode.
- Post processing is disabled.
- The software may not be resold or used for commercial purposes.

Instructor Mode

The *Instructor* mode of the CAMWorks software license is intended for purchase by educational institutes and to be used by Instructors. In the *Instructor* mode version, CAMWorks is fully functional except for these restrictions:

- CAMWorks data saved in files using the *Instructor* mode license cannot be restored in a *Commercial* license version. However, CAMWorks data saved in files using a *Commercial* mode license can be run on *Instructor* mode license.
- The software may not be resold or used for commercial purposes.

Demonstration Mode

CAMWorks will run in *Demonstration* mode in the following cases:

- If a valid license has not been activated after installing CAMWorks.
- If the CAMWorks license expires
- When a valid CAMWorks license purchased is not detected by the [CAMWorks License Manager program](#)
- When the license for the specific [CAMWorks modules](#) is not available for use on a [Floating Network](#) (as all the available licenses are in use by other *client* computers).

Limitations of the Demonstration Mode

In *Demonstration* mode, CAMWorks is fully functional except for these restrictions:

- CAMWorks data saved in files cannot be restored in a *Commercial* version.
- Post processing will be disabled, and NC code cannot be generated.

Demonstration Mode when CAMWorks is Run as an Add-In in CAMWorks Solids

If you run CAMWorks as an Add-In within the CAMWorks Solids application, then you have a CAMWorks license that is configured to run [CAMWorks modules](#) as well as the CAMWorks Solids application. Once your license expires, you will not be able to run the CAMWorks Solids application without a valid CAMWorks license. Consequently, you cannot run CAMWorks in *Demonstration* mode as that requires the CAMWorks Solids application to be up and running.




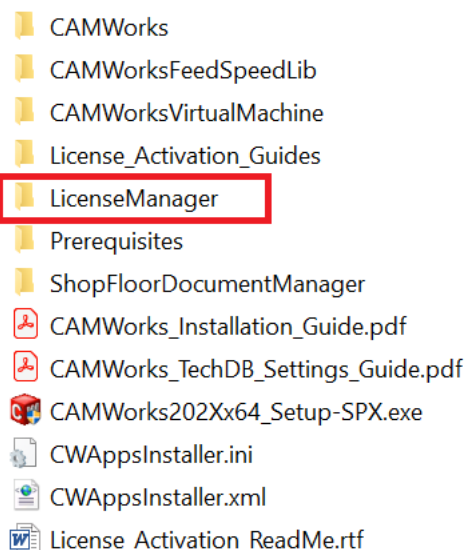
Installing/Upgrading CAMWorks License Manager Program

Automatically Installing/Upgrading CAMWorks License Manager Tool

The *CAMWorks License Manager* tool is automatically installed/upgraded along with the *CAMWorks* application when you run the *CAMWorks* Installer.

Manually Installing/Upgrading the CAMWorks License Manager Tool

1. From the downloaded **CAMWorks Installer Package**, copy the sub-folder **LicenseManager** to the machine on which this software program is to be installed.
2. After copying, open the *LicenseManager* folder.
3. Run the exe file named  **CWLicenseManager_YYYYDDMM** within this folder.



'LicenseManager' folder within CAMWorks Installer Package

4. Follow the simple steps given in the *Installation Wizard* to complete the installation.

Significance of Upgrading CAMWorks License Manager Tool on License Server

On any [Floating Network Setup](#), the *CAMWorks License Manager* tool gets automatically upgraded on the clients and License Server when the *CAMWorks* version installed on them is upgraded. However, on some [Floating Network Setups](#), the [License Server](#) is intended to serve purely as a centralized system providing licenses to client machines (i.e., there is no intention of using the License Server simultaneously as a client). In such cases, the *CAMWorks License Manager* tool needs to be manually upgraded on the License Server. Failure to do so may result in a version mismatch between the *CAMWorks License Manager* tool installed on the [License Server](#) and the clients. This mismatch may disrupt the clients from accessing the license on the Floating Network setup.



APPENDIX B: CAMWORKS MODULES

The CAMWorks application is modular in nature i.e., depending on varied CNC machining requirements, it has separate modules for *2½ Axis Milling, 3 Axis Milling, Rotary Milling, Turning, Mill Assembly Machining, Machine Simulation*, etc.

When you purchase the CAMWorks application, you will be advised on the combination of CAMWorks modules best suited to fulfil your machining requirements. The CAMWorks license you receive and activate will be configured to run only the specific modules that you have purchased. When you run the CAMWorks application, only the user interfaces associated with the specific modules you purchased will be activated. For Floating Network Licenses that are multi-user in nature, the licenses for CAMWorks modules can be selectively activated or released back to the floating network on the client computers to make them available for other clients.

Topics covered in this appendix:

- [Viewing the CAMWorks Modules you are licensed to run](#)
- [Selectively activating CAMWorks modules on a floating network](#)

Viewing the CAMWorks Modules you are licensed to run

Viewing CAMWorks Modules in the CAMWorks License Info dialog box

1. Launch CAMWorks as an Add-In within the SOLIDWORKS/CAMWorks Solids environment.
2. Click on the **Help** menu and select **CAMWorks 2022>>License Info**. The CAMWorks License Info dialog box will be displayed.
3. The **Modules** column of the License Info dialog box lists the CAMWorks modules you are licensed to run.
4. The **Available** column indicates the number of licenses currently available for each listed module.

For a [client](#) on a [floating network](#), the number indicates how many licenses are available for each module.

For example, if there are **20** licenses of a CAMWorks module available on a floating network and **3** of them are being used by client computers, then the Available column will display '**17**'.

- If the module is unchecked and the Available column displays '**0**', it indicates that no licenses of that specific module are available to the client for use as all of them are in use by other clients.
- If '**1**' or a higher number is displayed, it means that the license for that specific module is available for use.
- For a borrowed license, the Available column will display '**1**'.



License Activation Using Online Activation Method

5. The **Update Licenses** button updates/refreshes the availability of modules on a Floating Network setup.

A check in this box indicates that the specific module will be selected for use when the current user launches CAMWorks.

A checked module indicates that this module is being used by the current user.

This number indicates the number of licenses available for the specific module on a floating network

Place a check next to a listed module in order to use it. On checking, the number in the Available column reduces by 1 and vice versa.

If the module is unchecked and the Available column indicates '0', then no licenses are currently available since all of them are in use.

CAMWorks License Info

License information

License version date : YYYYMMDD (DD-MMM-YYYY)

Support (USP) expiry date : YYYYMMDD (DD-MMM-YYYY)

License method : FlexLM Software License (Server)

License type : Commercial

Licensed modules

Available	Module	Start Up
10	<input checked="" type="checkbox"/> 2.5X Mill Limited	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> 2.5X Mill	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> 2.5X Mill plus	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> 3X Mill L1	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> 3X Mill L2	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> Turning	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> Rotary milling	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> Multi Function	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> SubSpindle	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> Mill/Turn	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> CW Utilities	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> Wire EDM	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> 3X Undercut	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> 4X Mill	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> 5X Mill	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> Machine Simulation - Legacy	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> Machine Simulation - Standard	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> Machine Simulation - Profession	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> Machine Simulation - Premium	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> VoluMill 2.5X	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> VoluMill 3X	<input checked="" type="checkbox"/>
10	<input checked="" type="checkbox"/> Additive Manufacturing	<input checked="" type="checkbox"/>
1	<input checked="" type="checkbox"/> Posting	<input checked="" type="checkbox"/>
0	<input type="checkbox"/> Estimating	<input checked="" type="checkbox"/>

Select All Unselect All Update Licenses

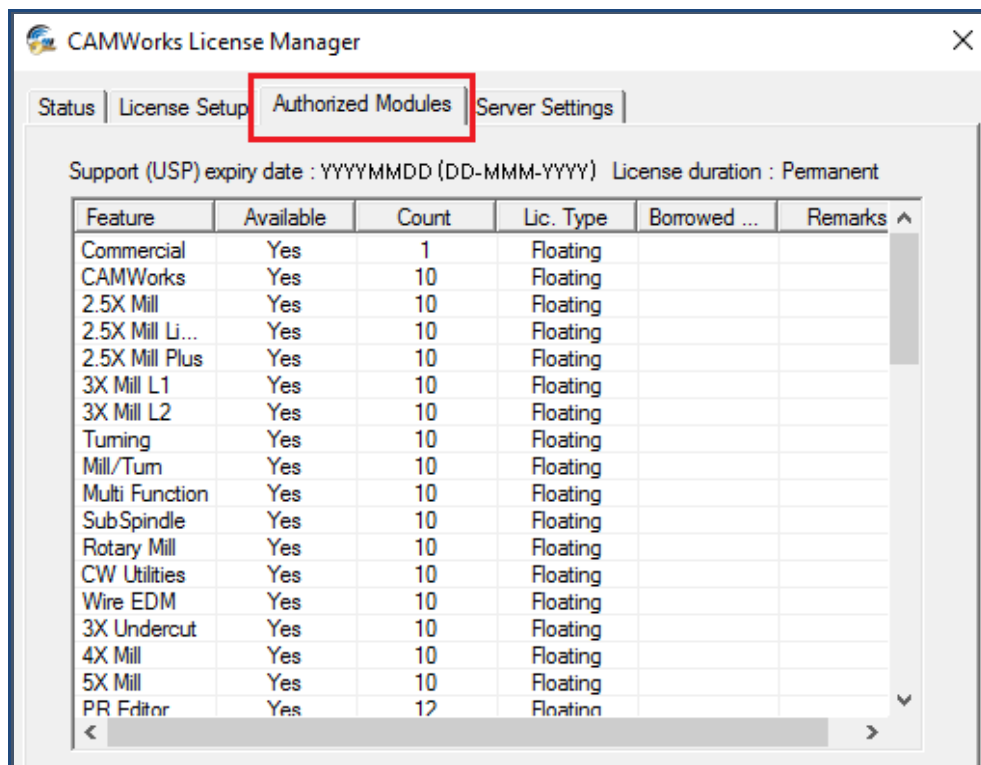
OK Help

CAMWorks Modules listed in CAMWorks License Info dialog box



Viewing Info in Authorized Modules tab of CAMWorks License Manager Dialog box

1. On the client system, [launch the CAMWorks License Manager tool](#).
2. The *CAMWorks License Manager* dialog box will be displayed. Click on the *Authorized Modules* tab.



Authorized Modules tab of CAMWorks License Manager Dialog Box

Support (USP) Expiry Date

The [expiry date](#) of your current [User Subscription Plan](#) is indicated in the top left corner of this tab in YYYYMMDD format.

License Duration

The expiry date of your license is indicated in the top right corner of this tab in **YYYYMMDD** format. If you have a permanent license, then instead of an expiry date, the duration will be indicated as **Permanent**.

Feature column

- One of the rows in the *Feature* column indicates the [mode of your CAMWorks license](#) (Commercial/ Educational/ etc.)
- One of the rows in the *Feature* column indicates the name of the software product purchased (CAMWorks in this case). The numerical value in the *Count* field for this row entry indicates the total number of floating CAMWorks licenses available on the Floating Network Setup.



- All the remaining rows indicate the names of the *CAMWorks* modules you are licensed to run. The numerical value in the *Count* field for these row entries indicates the number of floating *CAMWorks* licenses currently available for use on the Floating Network Setup. (If you want to run a specific *CAMWorks* module on your client system you can do so only if at least one license of that module is available for use. This number of available licenses for a module is indicated in the *Count* field.)

Available column

- **Yes** in the **Available** column indicates that the specific module is available for use.
- **No** in the **Available** column indicates that the specific module is not available for use as it is currently being used by other clients on the floating network. (The *Count* column field will display '0' to indicate that all the licenses for the module are currently in use.)

Count column

- For a floating network license, the *Count* column indicates the number of licenses currently available for use for the specific module listed in the *Feature* column. For example, if you have purchased 20 licenses for a module and 13 of them are currently in use, then the *Count* column will indicate the number '7'. If all licenses are being used, the column will display '0'.
- On a floating network license, if the license for a specific *CAMWorks* module has been borrowed by the client, then the *Count* column will display **Uncounted** for that specific module as long as the license stands borrowed. Note that this will be displayed only on the client computer borrowing the module and not on other client computers.

Lic. Type column

The **Lic. Type** column indicates whether the license for a specific module is *Node-locked* or *Floating* in nature. If a client has borrowed the license for a *CAMWorks* module on a floating network, then the **Lic. Type** column will indicate *Node-locked* on that specific client machine.

Selectively Activating CAMWorks Modules

The need to selectively activate CAMWorks Modules

For a floating network license, multiple licenses of various *CAMWorks* modules are present. On occasions when the number of users exceeds the number of licenses available, you may need to release a *CAMWorks* module which is currently active on your machine to another client on the floating network. For example, a situation where there are 5 clients and only 4 licenses of a *CAMWorks* module available. In such cases, the need to selectively activate *CAMWorks* modules arises.



Selectively Activating CAMWorks Modules on a Floating Network

On a Floating Network setup, the licenses for CAMWorks modules can be selectively activated or released back to the floating network on the client computers. This is done by using the *CAMWorks License Info* dialog box.

The *CAMWorks License Info* dialog box is opened by clicking on the **Help** menu of *SOLIDWORKS/CAMWorks Solids* menu bar and selecting **CAMWorks 2022>>License Info...** from the dropdown menu.

Activating a CAMWorks Module

To activate the license for a specific module on a [client](#) on the [floating network](#), open the *CAMWorks License Info* dialog box. All the modules are listed in the column labelled **Module**. To access the functions associated with a listed module, place a check in the box to the left of the desired module name in this column and click the **OK** button.

Note that you can check the box only if a license for that module is available else the Module name will be grayed out. Observe that when you select a CAMWorks module, the number in the **Available** column for that specific module reduces by 1.

Automatically activating CAMWorks Modules when CAMWorks is launched

To activate the desired CAMWorks modules whenever you launch CAMWorks, open the *CAMWorks License Info* dialog box. Place a check in the box in the **Start Up** column corresponding to the desired CAMWorks module name and then click the **OK** button. Use the **Select All** button to select all the listed modules for Start Up and the **Unselect All** button to unselect modules that were selected in the *Start Up* column. The settings in the *CAMWorks License Info* dialog box will be applied whenever you launch CAMWorks.

When the CAMWorks application is launched, if the licenses for one or more of the modules selected for *Start Up* are not available, then CAMWorks displays the message: **One or more floating licenses that were requested are not available.**

To release a CAMWorks Module back to the Floating Network

Remove the check in the box to the left of the CAMWorks module name in the **Module** column and click the **OK** button. Observe that when you uncheck a CAMWorks module, the number in the **Available** column for that specific module increases by 1.

The CAMWorks modules will also be returned to the Floating Network whenever you close the CAMWorks application. Note that, however, a borrowed license will not be returned to the network. A borrowed license can be returned before its due date only by using the *CAMWorks License Manager* tool.



APPENDIX C: USER SUBSCRIPTION PLAN

Enrolling for a User Subscription Plan

When you purchase the *CAMWorks* license for the first time from a *CAMWorks* Reseller, you can opt to enroll you for a *User Subscription Plan* for a specific duration by paying an applicable fee.

Benefits of User Subscription Plan

Being enrolled in the *CAMWorks User Subscription Plan* has the following benefits:

- ➔ **Receiving updates:** It allows you to keep your *CAMWorks* application up to date with the new features and performance improvements of *CAMWorks* released in the form of *CAMWorks* Releases and Service Packs.
- ➔ **Technical Support:** You will receive technical support for all issues with respect to *CAMWorks* and associated programs.

Once your USP expires, you will no longer receive updates or support. Ensure that you repurchase an appropriate *User Subscription Plan* from your *CAMWorks* Reseller to continue receiving technical support and updates. This helps to keep your *CAMWorks* system up to date with new features and performance improvements.

Note:

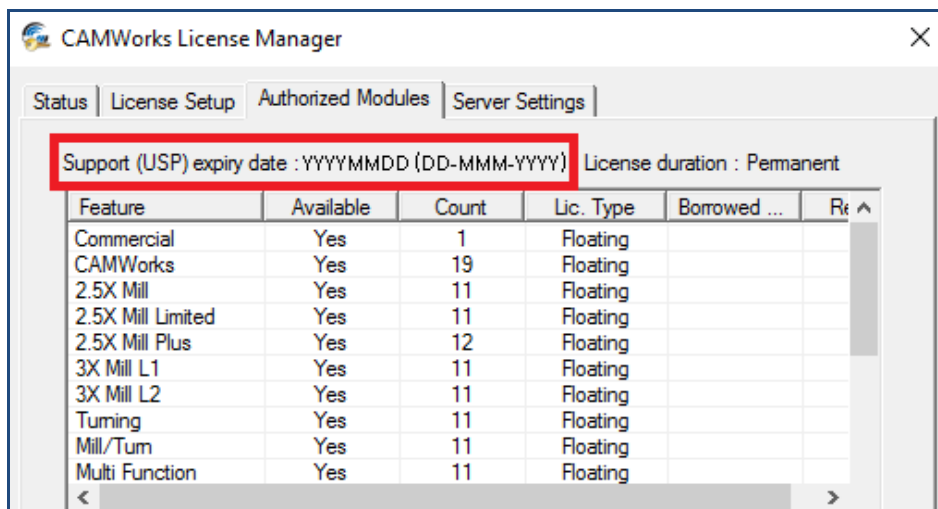
The *CAMWorks* license you purchase is usually perpetual in nature. However, the *User Subscription Plan (USP)* has a fixed duration. You need to repurchase a USP after your current plan expires.

Viewing the Expiry Date of your User Subscription Plan

You can verify the expiry date of your current *User Subscription Plan* using one of the following methods:

Method 1: Viewing USP Expiry Date in CAMWorks License Manager

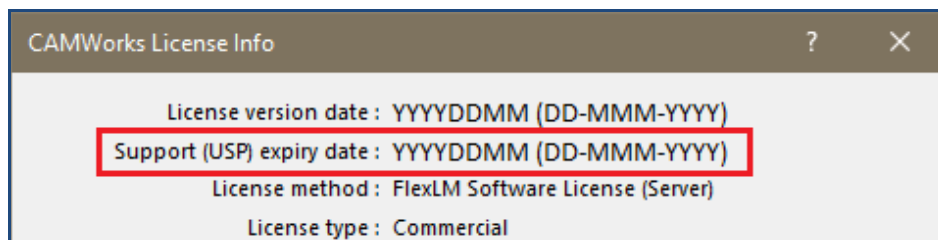
1. Launch the ***CAMWorks License Manager*** tool on the client computer.
(*Start menu>>Programs>>CAMWorks License Manager>>CW License Manager*)
2. Click on the ***Authorized Modules*** tab. The ***Support (USP) expiry date*** at the top left-hand side of this tab indicates the expiry date of the *User Subscription Plan* in YYYYMMDD format.



The Authorized Modules tab of the CAMWorks License Manager Dialog box

Method 2: Viewing Expiry Date of USP in License Info dialog box

1. Launch CAMWorks as an Add-In within the SOLIDWORKS/ CAMWorks Solids environment.
2. Click on the **Help** menu and select **CAMWorks 2022>>License Info ...**. The CAMWorks License Info dialog box will be displayed. The **Support (USP) expiry date** at the top left of this dialog box indicates the expiry date of your User Subscription Plan.



'Support (USP) Expiry Date' in the License Info Dialog Box

Significance of the Expiry Date of your User Subscription Plan

The *User Subscription Plan (USP)* that you purchase is for a fixed duration. After its expiry, you need to re-enroll for a fresh *User Subscription Plan*.

If you have an active USP, you can download and install the latest CAMWorks Releases and Service Packs. Hence, the expiry date of your *User Subscription Plan* assumes significance.

- If your *Support (USP) expiry date* is a date later than the current date, then it indicates that your *User Subscription Plan* is active.
- If the *Support (USP) expiry date* is a date prior to the current date, then it indicates that your *User Subscription Plan* has expired.



License Activation Using Online Activation Method

- You can install those *CAMWorks* versions which have a *License Version* date prior to or the same as the *Support (USP)* expiry date.
- When there are only 30 days or less remaining for your *User Subscription Plan* to expire, a **Reminder message** will be displayed when you load *CAMWorks*. This message indicates the number of days remaining for your *User Subscription Plan* to expire.
- In order to update an existing *CAMWorks* installation to a newer Service Pack, you must currently be enrolled in a *CAMWorks User Subscription Plan*. If your *User Subscription Plan* has expired, you need to renew your *User Subscription Plan* and then reactivate your license. For details on how to renew your Floating Network Server license, refer [Chapter 4](#) of this document.

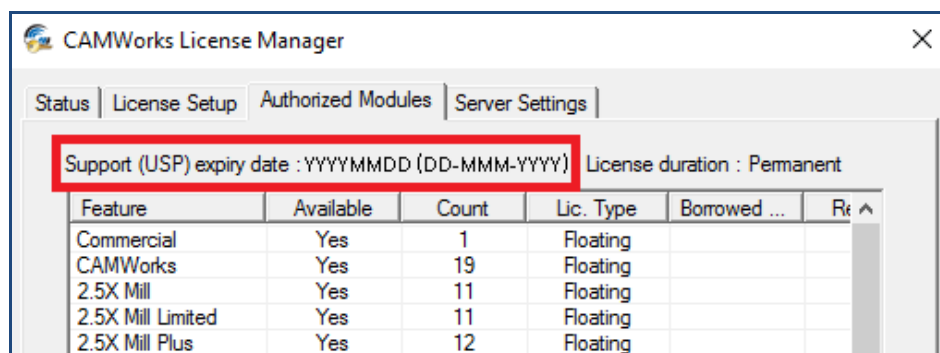
Correlation Between USP Expiry Date and License Expiry Date

- The **License duration** field at the top right corner of the **Authorized Modules** *tab* in the *CAMWorks License Manager* dialog box indicates whether your *CAMWorks* license is perpetual or time-bound in nature.
- If your *CAMWorks* license is [perpetual](#) in nature, then the **License duration** will be displayed as '**Permanent**'.
- If your *CAMWorks* License is [time-bound](#) in nature, then the expiry date of your license will be displayed in the **License duration** field in **DD-MMM-YYYY** format.

Note:

- If your *User Subscription Plan* expires (indicated by the Support (USP) expiry date), you can still continue using the licensed module of *CAMWorks* till the expiry date of your license indicated by the License Duration date).
- If your *CAMWorks* license is perpetual in nature and your *User Subscription Plan* expires, then you can use the licensed modules of the currently installed *CAMWorks* version in perpetuity.

However, in both the above cases, you can no longer avail the benefits associated with the *User Subscription Plan* unless you renew the plan.



The Authorized Modules tab of the CAMWorks License Manager Dialog Box



APPENDIX D: CHECKING THE LICENSE VERSION DATE

License Version Date of CAMWorks Version and its Significance

Geometric Americas, Inc. periodically releases new CAMWorks versions in the form of Service Packs. Every CAMWorks version released has a *License Version Date* associated with it. This *License Version Date* indicates whether you are eligible to use the newly released CAMWorks version or not.

- If the *License Version Date* associated with a CAMWorks version is lower than the expiry date of the [User Subscription Plan](#) (USP) associated with your CAMWorks license, then you are eligible to run and use the CAMWorks application. (To view the [expiry date](#) of your *User Subscription Plan*, refer the topic: [Viewing the Expiry Date of your User Subscription Plan](#) in [Appendix C](#) of this document.)
- If the *License Version Date* associated with a CAMWorks version is later than the expiry date of the [User Subscription Plan](#) (USP) associated with your CAMWorks license, then you are not eligible to run the CAMWorks application. You may download and install the CAMWorks version but won't be able to run CAMWorks unless a license with a renewed [User Subscription Plan](#) (USP) is activated.

Illustrative Example to indicate eligibility to run a CAMWorks version based on License Version Date:

If the *License Version Date* of the new version of CAMWorks is *February 15, 2022 [20220215]* and the *Support (USP) expiry date* of the CAMWorks license is *April 20, 2022 [20220420]*, then you are eligible to install and run the new version as the *License version date* is a date prior to the USP expiry date.

Viewing the License Version Date associated with a CAMWorks Version

You can view the *License Version Date* associated with a CAMWorks version using one of the following methods:

1. Viewing License Version Date in CAMWorks ReadMe File

The *License Version date* of a CAMWorks version is mentioned in the *ReadMe* file.

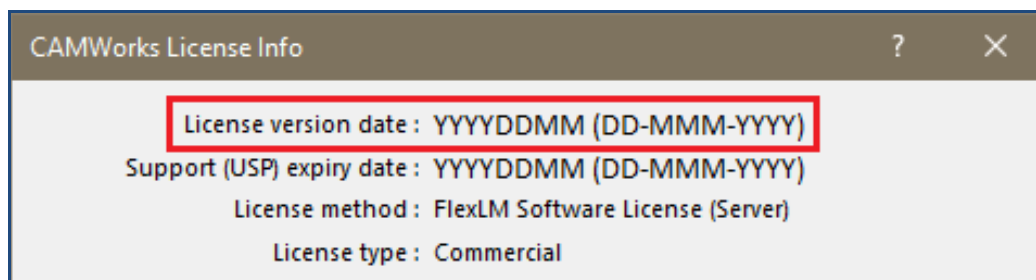
The *ReadMe* file for the version installed on your system can be accessed by selecting:

**<Drive>:\Program Files \CAMWorks2022x64 \CAMWorks_VC141\Lang\English\
Manuals\ReadMe**



2. Viewing License Version Date in CAMWorks License Info Dialog Box

- i. Load CAMWorks as an Add-In within the SOLIDWORKS/CAMWorks Solids environment.
- ii. Click on the **Help** menu and select *CAMWorks 2022>>License Info ...*
- iii. The *CAMWorks License Info* dialog box will be displayed. The **License version date** is given at the top of this dialog box.



'License Version date' in the License Info Dialog Box



APPENDIX E: LICENSE SERVER & CLIENT SETUP TO IMPROVE NETWORK RESPONSE (VPN)

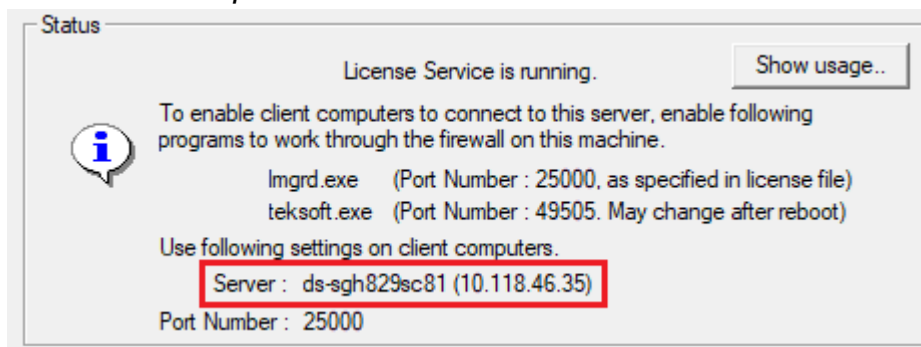
Under a [Floating Network License](#) setup, when a [client](#) runs specific modules of the CAMWorks application, the license for running the CAMWorks modules needs to be verified. This is done by fetching the license from the [CAMWorks License Server](#) via the network. If the network response is slow (especially on VPNs), it can hamper the license verification and deployment process, thereby rendering the client unable to run desired [CAMWorks modules](#).

For a [Floating Network License](#), the [Server-Client](#) License Setup can be configured in specific manner to improve overall network response and provide prompt license verification and deployment.

Given in this appendix are the steps to be followed for improving network response if the [Client](#) is connected to the [CAMWorks License Server](#) via a *Virtual Private Network (VPN)*.

Step 1: Input Server Host Name on CAMWorks License Server

1. On the [CAMWorks License Server](#) machine, [launch the CAMWorks License Manager](#) program.
2. The *License Manager* dialog box will be displayed. Click the **Server Settings** tab.
3. The *Server Host Name* is indicated in the *Status* group box at the bottom of this tab. Note down this *Server Host Name*.
4. Click on the *License Setup* tab.

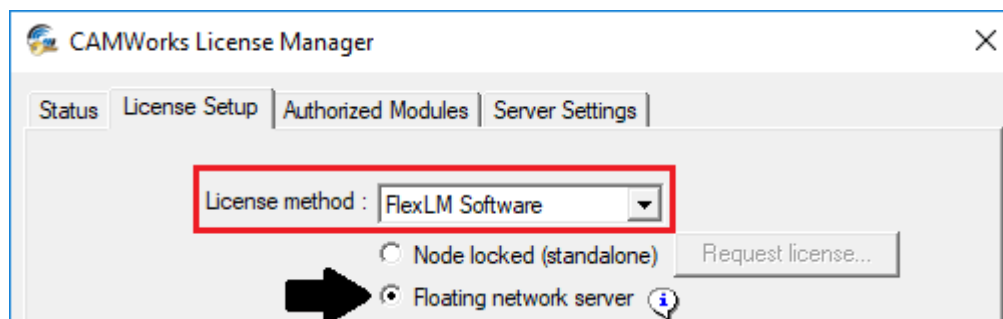


Status message at the bottom of the Server Settings Tab

5. In its *License Setup* tab, perform the following actions:
 - i. In the *License Method* dropdown list, select the *FlexLM Software* option.
 - ii. Select the *Floating Network Server* option below the *License Method* dropdown list.

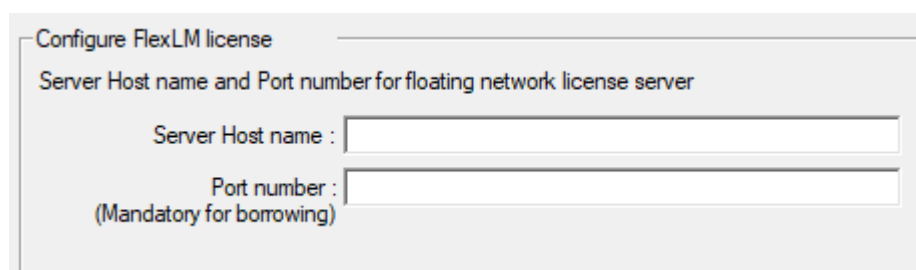


License Activation Using Online Activation Method



Select 'FlexLM Software' and 'Floating Network Server' options in License Setup Tab

- iii. In the **Configure FlexLM license** group box, assign the followings settings for the parameters under **Set Server Host name and Port number for floating license**.
 - Type the name of the Server computer (that you noted down) in the **Server Host name** field.
 - Assign the port number in the **Port number** field.

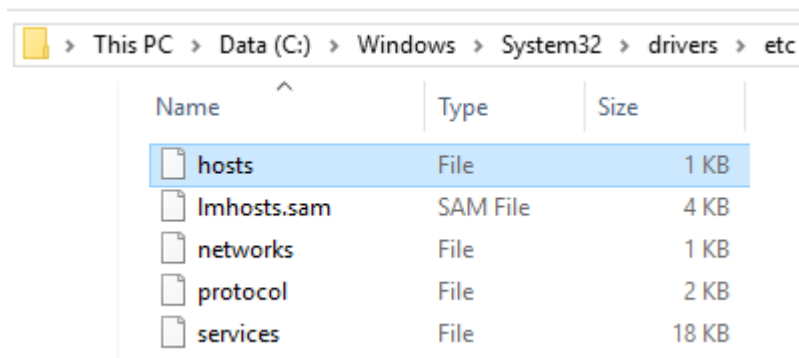


Parameters under 'Set Server Host name and Port number for floating license' in 'Configure FlexLM License' group box of License Setup Tab

Step 2: Edit Hosts File on Client Machine

1. On the client computer, browse to the following folder location:

C:\Windows\System32\drivers\etc



Hosts file in C:\Windows\System32\drivers\etc\



2. Open the file named **hosts** using the **Notepad** application with Administrator level privileges.
3. Go to the end of the file and on a new line, do the following:
 - i. Press the tab key.
 - ii. Type in the IP Address of the server computer.
 - iii. Press the tab key or space key.
 - iv. Type in the server host name from the server.
 - v. Save and close the Host file.

An illustrative example of the changes to be done in this file is given below.

```
hosts - Notepad
File Edit Format View Help
# Copyright (c) 1993-2009 Microsoft Corp.
#
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# space.
#
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#       102.54.94.97       rhino.acme.com       # source server
#       38.25.63.10       x.acme.com          # x client host
#
# localhost name resolution is handled within DNS itself.
#       127.0.0.1         localhost
#       ::1               localhost
#       172.20.10.8       brucewiener-pc
```

IP Address from
Server Computer

Server Host Name from
Server Computer

Screenshot illustrating the changes to be made in the
C:\Windows\System32\drivers\etc\hosts File



Step 3: Verify Network Response Speed on Client by Opening License Manager

[Launch the CAMWorks License Manager](#) on the [Client machine](#) and check how quickly the application opens. Then go to the *Authorized Modules* tab and check the performance. Observe that the time gap between clicking on the *Authorized Modules* tab and being able to view its contents will be significantly reduced. Launch the *CAMWorks* application to verify if the performance is now faster.

Step 4: Repeat Steps 1 to 3 on other Client Machines

Perform the above steps 1 to 3 on all other [Client machines](#) on the [Floating network](#) to improve the network response.



TROUBLESHOOTING A: LICENSE ACTIVATION

As a result of the complexity of the computer system's operating environment, conflicts and problems can occur.

This troubleshooting section provides suggestions for you to resolve problems with the following:

- [Valid License is not detected when CAMWorks is launched](#)
- [CAMWorks License does not support the CAMWorks Version](#)

Valid License is not detected when CAMWorks is launched

When *CAMWorks* is launched as an Add-In within the *SOLIDWORKS* environment, it automatically checks for the presence of a valid license. If a valid license is detected, then *CAMWorks* is launched. If a valid license is not detected, then *CAMWorks* displays the ***CAMWorks License Configuration*** dialog box. In the top portion of this dialog box, a message stating the reason why a valid license could not be detected by the *CAMWorks* application will be displayed.

Following are the different warning messages displayed in this dialog box on non-detection of valid license along with the corresponding reason for non-detection of the license:

Sr. no.	Warning Messages displayed in the dialog box	Reason why the Error Message is displayed
1.	CAMWorks could not find a valid license and will start in Demonstration mode. While in Demonstration mode, you will not be able to post process and CAMWorks data saved in this file will not be restored in a Commercial license mode.	When the License File is not set correctly in the License Setup tab of the CAMWorks License Manager for the Floating Network License . OR When the License File set in the License Setup tab of the CAMWorks License Manager for the Floating Network License is invalid.
2.	Unable to connect to license server. Please check service status and checkout the corresponding licenses.	When the License Server running CAMWorks License Service is unavailable for a Floating Network License.
3.	CAMWorks security failed! All licenses are in use.	When all the available licenses on a floating network are currently in use for a Floating Network License .
4.	FlexLM License has expired. Please	When the License File used for FlexLM



License Activation Using Online Activation Method

Sr. no.	Warning Messages displayed in the dialog box	Reason why the Error Message is displayed
	request a new license. CAMWorks will run in Demonstration mode till a new valid license is activated. While in Demonstration mode you will not be able to post process and CAMWorks data saved in this file will not be restored in a Commercial license mode.	licensing method expires for a Standalone or Floating Network License .
5.	Unable to validate CAMWorks license as the CAMWorks License Manager version on the server (<Server Name>) is older. Please update the CAMWorks License Manager version on the server to <Date Code> or later.	When the version of the CAMWorks License Manager program installed on the Server running the CAMWorks License Service is older compared to the version of the CAMWorks License Manager program installed on the client. Upgrade the version of the CAMWorks License Manager program on the Server to resolve this issue.

In addition to stating the reason why a valid license could not be detected, the Warning Message dialog box further states that CAMWorks will run in [Demonstration mode](#) in the absence of a valid license. It also informs that files saved in Demonstration mode cannot be later opened in any other mode.

Depending on the reason for non-detection of a valid license, one of the following license options displayed in the dialog box will be selected by default:

- I have a node locked (Standalone) license file
- I know the Server Host name and port number for the floating license
- Request license and continue in Demonstration mode
- I have a COD file to update the hardware dongle
- Continue in Demonstration mode

You can either use the default option or change to another option in order to proceed using the CAMWorks application.

If you select the *Request license* option, remember to create a license request file directly on the computer where the license will reside and then email it to **register@camworks.com**. Otherwise, an invalid license will be generated. Invalid licenses are usually generated if the license request file was created using remote communication software.



CAMWorks license configuration

CAMWorks could not find a valid license and will start in Demonstration mode. While in Demonstration mode you will not be able to post process and CAMWorks data saved in this file will not be restored in a Commercial licensed product. Click the Help button for trouble shooting information.

Select your license options. Required User Subscription Plan (USP) date is DD-MMM-YYYY or later.

FlexLM software license

☐ I have a node locked(Standalone) license file.

☐ I know the Server Hostname and port number for the floating license.

Server Host name : Port number :

☐ I have an Activation ID.

☒ Request license and continue in Demonstration mode.

Hardware dongle license

☐ I have a COD file to update the hardware dongle.

Demonstration mode

☐ Continue in Demonstration mode.

OK Help

Dialog box displayed when valid CAMWorks license is not detected

If you need assistance on the instructions to be followed after you select a specific option, click on the **Help** button within this dialog box. The consequent Help webpage displayed gives details on the various options and the instructions on how to activate the license based on the option chosen.

CAMWorks License does not support the CAMWorks Version

In order to update an existing CAMWorks version installed on your system, you must currently be enrolled in a CAMWorks [User Subscription Plan](#) and your software license must be programmed to run this release.

If your *User Subscription Plan* is active, then you can install those CAMWorks versions which have a [License Version date](#) prior to or the same as the [expiry date of your User Subscription Plan](#).

If your *User Subscription Plan* has expired, you will not be eligible to upgrade your existing CAMWorks version. You will need to contact your CAMWorks



License Activation Using Online Activation Method

Reseller to re-activate your *User Subscription Plan*. Once you re-enroll for the *User Subscription Plan*, you need to [update your CAMWorks License](#) by activating the fresh CAMWorks license that you receive. Once your *User Subscription Plan* is active, you can upgrade your CAMWorks version.

Getting Help/Troubleshooting: CAMWorks Support

In case you face any issues related to installation, license activation or using CAMWorks, you can contact your CAMWorks Reseller. Your reseller is your single-point contact for all issues concerning the CAMWorks application and associated programs.



TROUBLESHOOTING B: LICENSING ISSUES FOR FLOATING NETWORK LICENSING

This troubleshooting section describes some common complications that can occur when using FlexLM software licensing for a [Floating Network](#) and provides suggestions to resolve those licensing-related problems quickly.

Click the following links to jump to the applicable sections of this topic.

- [Certain CAMWorks functions are disabled on Client machines](#)
- [Only a few clients can access CAMWorks modules on a floating network](#)
- [The 'Install CAMWorks License Service' button on Server Settings tab of CAMWorks License Manager Dialog Box is not enabled](#)
- [When setting up the License Server for floating network, a message requesting to change the port number in the CAMWorks License File is displayed](#)
- [After upgrading CAMWorks installation on a Client Machine, the Client Machine is unable to retrieve license from the CAMWorks License Server causing CAMWorks to run on Demo Mode on the Client Machine](#)
- [Unable to Install CAMWorks License Manager Program on Windows 7 Machines](#)
- [Failure to Activate the CAMWorks License](#)
- [Unable to specify path to replace current CAMWorks Floating License file with new License file](#)
- [Unable to start License Service on the system designated as the CAMWorks License Server](#)

Certain CAMWorks functions are disabled on Client machines

The module you are trying to use may not be assigned to the client or all licenses for that module may be in use by other clients.

Launch CAMWorks as an Add-In within the *SOLIDWORKS/CAMWorks Solids* environment. Click the **Help** menu of *SOLIDWORKS/CAMWorks Solids* and then select **CAMWorks 2022 Help>>License Info**. The **CAMWorks License Info** dialog box will be displayed. Check the licensed [CAMWorks modules](#) within this dialog box. If the module you want to use has an available license, check the box next to the module name. If no licenses are available and another client releases one, click the **Refresh Licenses** button to update the list so you can select it.



Only a few clients can access CAMWorks modules on a floating network

On a floating network, the maximum number of clients allowed to simultaneously access the floating network is equal to the total number of CAMWorks licenses purchased.

The 'Install License Service' button on Server Settings tab of CAMWorks License Manager Dialog Box is not Enabled

A license file and a log file path are required to install the license service. If the license file and/or log file path is not specified on the *Server Settings* tab of the *CAMWorks License Manager*, then this issue will occur.

When setting up the License Server for a Floating Network, a Message requesting to change the Port Number in the CAMWorks License File is displayed

If the port number configured in the floating network server license file is used by some other software application, then *CAMWorks License Server* Installation will not work. In the *Server Settings* tab of the *CAMWorks License Manager* dialog box, when you click the *Verify server installation* button, a message indicating the need to change the port number will be displayed in the *Status* area. In such a scenario, the port number indicated in the floating license file will need to be updated to a different port number that is not in use. You need to manually change the port number configured within the license file for this purpose.

Following are the steps to change the port number:

1. Open the CAMWorks license file in an editor such as *Notepad* or *WordPad*.
2. Observe those lines in the License file that begin with the word **SERVER**.
The common syntax for each line beginning with the word **SERVER** is:

SERVER <host name> <ipconfig> <Port Number>

3. Use the *Find and Replace* functionality of the Text Editor (*Notepad* or *WordPad*) to replace the existing port number (default port number is 27000) in the license file with a new port number.
4. Save the changes to the license file.
5. Once the changes are saved, update the Port number in the *License Setup* tab of the *CAMWorks License Manager* dialog box on all client machines.



After upgrading CAMWorks installation on a Client Machine, the Client Machine is unable to retrieve license from the CAMWorks License Server causing CAMWorks to run on Demo Mode on the Client Machine

When you upgrade the CAMWorks installation on a Client machine, the CAMWorks installer will also upgrade the *CAMWorks License Manager* program installed on the client. The upgraded *CAMWorks License Manager* program installed on the client may cause it to not recognize the license on the CAMWorks [License Server](#). This is because the CAMWorks license detection and validation for a Floating Network installation is possible only when the version of the *CAMWorks License Manager* program installed on the [CAMWorks License Server](#) is the same as or newer to the version installed on the client.

If the *CAMWorks License Manager* version installed on the *CAMWorks License Server* is older to the version on the client, then the following will happen:

- CAMWorks license detection and validation on the client will be disabled.
- If you have loaded CAMWorks as an Add-in within SOLIDWORKS/CAMWorks Solids, then CAMWorks will run in [Demonstration mode](#).

To resolve this issue, you need to ensure that the version of the *CAMWorks License Manager* program installed on the [CAMWorks License Server](#) is of the same or later version as that installed on the [Client](#) machines. Every time a new version of the CAMWorks application is released, its installer package contains a separate installer for the [CAMWorks License Manager](#) program. Run this installer on the [CAMWorks License Server](#) to upgrade the *CAMWorks License Manager* program.

After upgrading the *CAMWorks License Manager* program on the [CAMWorks License Server](#), you must restart the *License Service* on the *License Server*. Once the *License Service* is restarted, the [Client](#) will be able to retrieve the license from the [CAMWorks License Server](#).

For details, refer the following topic in [Appendix A](#) of this document: [Manually Installing/ Upgrading the CAMWorks License Manager Program](#).

Unable to Install CAMWorks License Manager Program on Windows 7 Machines

For Windows 7 SP1 (*Ultimate* and *Enterprise* editions), you cannot install the *CAMWorks License Manager* on a hard drive that has been formatted as a dynamic drive. The hard drive must be formatted as a basic drive.

Check your hard drive as follows:

1. From your desktop, select **Start>>Control Panel**. Then select **Administrative Tools** and **Computer Management**.



2. In the *Computer Management* dialog box, double-click the **Disk Management** folder in the tree on the left.
3. On the right side of the dialog box, locate the **Volume** where the *CAMWorks License Manager* is installed and make sure the Type is **Basic**.
4. If the Type is *Dynamic*, uninstall the *CAMWorks License Manager* program and re-install the software program on a basic drive.

Failure to Activate the CAMWorks License

In the *CAMWorks License Manager* dialog box, when the *Authorized Modules* tab is blank, and the *Authorization Status* on the *Status* tab displays **Failed**, then it indicates failure to activate the license on that specific [Client](#) machine in the floating network.

Following may be the possible causes:

- The Server Host name indicated in *License Setup* tab of the *CAMWorks License Manager* dialog box on the client machine may be incorrect.
[Launch the CAMWorks License Manager program](#) on the [Client](#) machine and verify that the *Server Host name* assigned in the *License Setup* tab is correct.
- The firewall on the Server PC may not be allowing the [Client](#) machine to access the *CAMWorks License Service* on the [CAMWorks License Server](#).

Reconfigure the firewall to allow access to the client machines.

Note: McAfee products running on the server and/or client can conflict with the floating license. In some cases, disabling all McAfee products will resolve the conflict. If this does not work, we recommend uninstalling the McAfee products.

- MAC addresses are identifiers assigned to most network adapters or network interface cards by the manufacturer for identification. To ensure that the license on the [CAMWorks License Server](#) remains active, follow the below two recommendations:
 - The *License Server* computer should not be moved or reconnected to the network using a different method (E.g., wireless to hardwired), after the CAMWorks license has been issued and activated.
 - The *CAMWorks License Server* computer must contain only one MAC address and this MAC address must remain static.
- The *CAMWorks License Service* may not be running on the *CAMWorks License Server*.

Verify whether the *CAMWorks License Service* is running. For the clients to be able to successfully verify their CAMWorks license and run CAMWorks, it is imperative for the *License Service* to be running continuously.



Unable to specify path for replacing current License File for Floating Network Setup with new License file

The inability to specify the path for replacing the current license file with a newly issued license file occurs when the current floating license has not been removed completely.

To remove the *CAMWorks License Service* and the current license and then select the new license file and reinstall the License Service, follow the directions given in [Chapter 4](#) of this document.

Unable to start License Service on the System designated as the CAMWorks License Server

To start the *License Service* on the [CAMWorks License Server](#), you need to click on the *Start License Service* button on the *Server Settings* tab of the *CAMWorks License Manager dialog box*. Sometimes, this button appears disabled. To enable this button and start the license service, follow the below steps:

1. On the [CAMWorks License Server](#), click on the Windows **Start** menu and select **Run**. Within this field, type **Services.msc** and press the **Enter** button. (On *Windows 10* machines, you can type **Services.msc** in the *Search Box* adjacent to the *Start* menu and select the *Services* app in the results list.)
2. The window displaying the list of Services currently installing on the system will be displayed. Locate the service named *CAMWorks License Server*.
3. Right-click on the *CAMWorks License Server* item listed in the *Services* window and select **Properties** from the context menu.
4. The **CAMWorks License Server Properties** dialog box will be displayed. Click on the **Log On** tab.
Two options will be displayed within this tab viz. **Local System account** and **This account**. Ensure that the **Local System account** option is selected. If not selected, then select this option.
5. Click on the **General** tab of this dialog box. Press on the **Start** button.
6. Click on the **OK** button of this dialog box to apply the changes and close the dialog box.
7. [Launch the CAMWorks License Manager](#) program on the [CAMWorks License Server](#) computer once again.
8. Click on the *Server Settings* tab. Observe that the **Start License Service** button is now enabled. Click on this button to initiate this service. (Once this service is up and running, the label of this button will change to *Stop License Service*.)

You can now activate the floating licenses on client machines by following the steps given in the section [Step 5: Enabling Access to Floating Network License on Client Systems](#) of [Chapter 3](#) of this document.