CAMWorks 2018 Installation and Licensing Guide

TITLE:	CAMWorks 2018 Installation
DATE:	September 2017
SUBJECT:	CAMWorks, Licensing, Installation, Administration
ABSTRACT:	Instruction on how to install and register all products available in the CAMWorks Download.
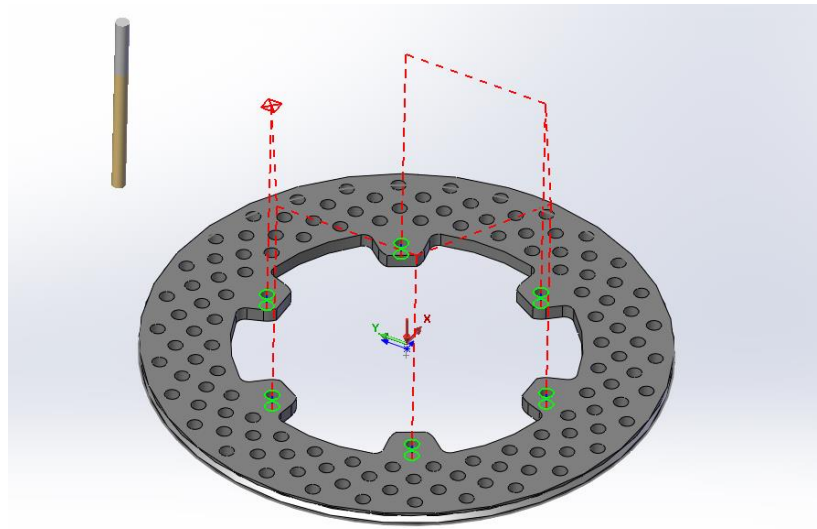
This document has detailed instructions on how to install, register and administer all products available on the CAMWorks Download.

Before loading any software, you should always login with full administrative permissions, turn User Account Control Settings down to Never Notify, and disable your anti-virus and anti-spyware programs.

If you have any technical issues with CAMWorks, please contact us through our support website at support.hawkridgesys.com, call us at 1-877-266-4469 (U.S.A.) or 1-866-587-6803 (Canada), or email support@hawkridgesys.com, whichever of the following ways you find most convenient.

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System Requirements

Hawk Ridge Systems highly recommends taking a moment before installing SOLIDWORKS and checking that you are ready to load your new software. First, ensure that your computer meets minimum system requirements and that your video card passes certification checks. Also, confirm that the hard drive has enough space to have at least 15% free space after the full installation. Back-up data such as any local or shared Technology Database, custom materials database, feeds and speed, or tool libraries, and a data management vault if used. As always, verify workmates, customers, or vendors are all on the same version of SOLIDWORKS. Older versions of SOLIDWORKS cannot open files from newer versions.

Notes: From CAMWorks 2015 version onwards, only 64-bit versions of the CAMWorks Application will be

Supported. A 32-bit version of CAMWorks 2018 will not be available.

CAMWorks requires any one of the following versions of Microsoft Access (Full or Runtime) for the functioning of its Technology DatabaseTM:

- MS Access 2010 SP2 (32-bit and 64-bit versions[recommended])
- MS Access 2013 SP1 (32-bit and 64-bit versions)
- MS Office 365 with Office 2013 (32-bit and 64-bit versions)
- MS Access 2016 SP1 (32-bit and 64-bit versions)
- MS Office 365 with Office 2016 (32-bit and 64-bit versions)

Microsoft Access 2010 x64 SP2 is found to be the most stable version (Runtime or Full) to be used for CAMWorks Technology Database. The installer for the Runtime version of Microsoft Access 2010 SP2 can be downloaded from the Miscellaneous Downloads section in Downloads Area of the CAMWorks website. It is also located in the AccessRuntime folder of the downloaded or USB drive version of the CAMWorks installation package.

Installation Procedure

We recommend you completely disable all anti-virus programs running on your computer. Also, we recommend logging in to your system as a user with full administrative rights.

When you install CAMWorks, the application files and data files will be installed in two locations:

- The application files can be installed in any folder (e.g., \Program Files\CAMWorks2018).
- The data files can be installed in a different user-defined folder (e.g., \CAMWorksData\CAMWorks2018). These data files, which require write-permissions, must be installed in a folder other than Program Files.

Installing from the USB drive

The steps to install the CAMWorks software are listed below.

1. Verify that you have the hardware and software required to run CAMWorks.

2. Make sure you have a supported version of the solid modeler installed (see earlier section for supported versions). If you purchased CAMWorks Solids 2018, install the software from the CAMWorks Solids USB drive or download before continuing with the CAMWorks installation.

3. Make sure Microsoft Access is installed. Access must be installed **before** installing CAMWorks. Because CAMWorks uses Access, the Setup program searches for Access before completing the installation. The Runtime version can be installed from the CAMWorks USB drive. Note: Microsoft Access 2010 x64 SP2 is found to be the most stable version (Runtime or Full)

4. Insert the CAMWorks USB drive. If the screen does not display automatically, you can also start the program from Windows Explorer by opening the USB drive folder and double-clicking CAMWorks2018x64.exe.

5. The installation wizard for CAMworks will open.

6. Follow the prompts to install CAMWorks. NOTE: the installer will look like it starts, and stops several times. It is actually installing several different sections of the CAMWorks package, including databases, virtual machine, etc.

Installing from Downloaded Files Online

Step 1 – Download the CAMWorks executables from the website. You should Download Microsoft Access 2007 runtime, or, if you have Office 2013 or later, then use Access 2010sp2 runtime first, then download CAMWorks. Note that the Feeds and Speeds Library and The Universal Post Generator are automatically downloaded with CAMWorks, but they are available as separate downloads should you need them.

1. Open the website www.camworks.com.

2. Login using your username and password. If you do not have an account yet then click on **Login** and then **Register**. NOTE: If you cannot register on the website, please call Hawk Ridge Systems for a temporary username and password

3. After successfully logging in, hover over **Support** then select **Customer Area**.

4. Click on **Miscellaneous Downloads**.

5. Click on the link to download **Microsoft Access 2007 Runtime SP2**, **Or Microsoft Access 2010 SP2.** Note: Access 2007 is incompatible with Microsoft Office 2010 and later. If you have Office 2010, 2013, or later installed, use Access 2010sp2.

6. Go back to the main downloads area. Click on the link for **CAMWorks Downloads**.
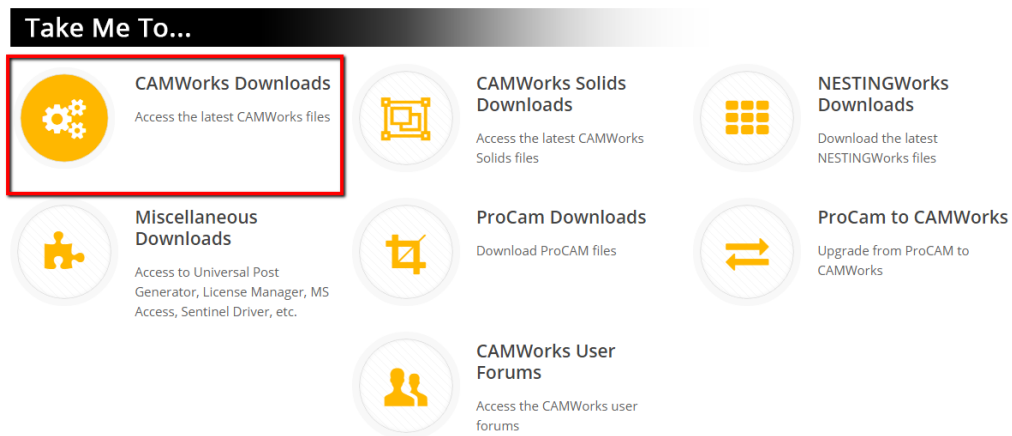
7. Click on the link for **CAMWorks 2018**.

8. This page contains the following files related to CAMWorks –

   - **64-bit installer** of CAMWorks in .zip format

   - **What's New** document in PDF format (This is a list of new features and functionalities for CAMWorks 2018.)

   - **Release Notes** 64-bit installer

   - **Resolved Issues** list

9. Download the 64-bit .zip containing the executables for CAMWorks 2018.

10. The .zip file can be downloaded directly on the hard drive of the system on which you intend to run CAMWorks or it can be downloaded on a network drive.

11. Click on the link for **CAMWorks License Manager** to download the executable to license CAMWorks.

12. Click on the link for **Feeds and Speeds** to download the library if needed. Note: The Feeds and Speeds Library will be downloaded with CAMWorks automatically.

13. Click on the link to **Download the Universal Post Generator(UPG)** if needed. Note: The UPG will be downloaded with CAMWorks automatically.

Step 2 – Unblock first, then Unzip the downloaded file.

Right click on the zip file, select "properties', then check "unblock"

Unzip the downloaded file. The unzipped folder will contain the following –

- The 64-bit installer for *CAMWorks*
- LicenseManager folder containing the installer (CWLicenseManager.exe) for the CAMWorks License Manager utility
- CAMWorksView folder containing the installation files for CAMWorksView utility
- CAMWorks VirtualMachine folder containing the installer for the VirtualMachine
- AccessRunTime Folder for MS Access installers
- Prerequisites

Step 3 – Run the installer.

From the unzipped folder, run the CAMWorks2018 installer (.exe). Follow the simple instructions given in the Installation Wizard to complete the install.

The CAMWorks installer installs the following:

- **CAMWorks Application** and system files**. (**These files are typically installed at C:\Program Files\CAMWorks201Xx64)

- **Data files: (**These files are typically placed in C:\CAMWorksData\CAMWorks201Xx64)
- Technology Database files (TechDBForms.mde, TechDB.mdb and ReportDatabase.mdb)
- API Files
- Sample part models and assemblies.
- Example Parts and assemblies
- EDM Cutting Conditions
- Tutorial post processors. (To obtain customized post processors for your machine tools, contact your CAMWorks Reseller.)

- **Ancillary Software** Programs and Utilities:
- CAMWorks Feed and Speed Library
- Hardware USB Dongle License Driver *(Sentinel 7.6.8)*

- CAMWorks License Manager
- CAMWorks Virtual Machine
- CAMWorksView

Installation by Network Access:

If you have downloaded the zipped folder containing the CAMWorks executables on to a network drive, you can remote access the network drive from the system intended to run CAMWorks. Unblock, then Unzip the downloaded folder and run the CAMWorks 2018 installer (.exe) in order to install the CAMWorks application. As the installer is accessed over a network, only the CAMWorks application will be installed on the system. The CAMWorks License Manager and CAMWorksView utilities will not be installed automatically. To install these utilities, you need to run the respective installers present in the folders of the unzipped folder.

For example, run the CWLicenseManager.exe present in the LicenseManager folder within the unzipped folder in order to install the CAMWorks License Manager.

Once the CAMWorks application and the license manager utility are installed, you can proceed to activate the CAMWorks license based on your license type

Activating Standalone and Network Licenses

Your CAMWorks license defines the modules and versions that you are authorized to run. A standalone license authorizes use of CAMWorks on a specific computer. CAMWorks provides two options for standalone licensing: software encryption or a hardware USB Key (dongle). Each of these methods is designed to protect you and Geometric Technologies from unauthorized use of CAMWorks.

- Built-in software encryption technology is the default licensing method for CAMWorks. After you install the CWFlexLM License Manager, you must submit the request for a CAMWorks license. You will receive a license file to enable your software.
- Optionally, a USB key (dongle) can be used for licensing CAMWorks. This hardware device is connected to the USB connector on the computer.

Installing the License Manager for Built-in Software Encryption

If you are using the software license and you are installing CAMWorks for the first time, you need to install the CW License Manager and submit a request for a license file. Note that the License Manager only needs to be installed separately if the license is intended for a server with a network license. If you are installing a standalone license, then the License Manager will automatically be installed along with CAMWorks.
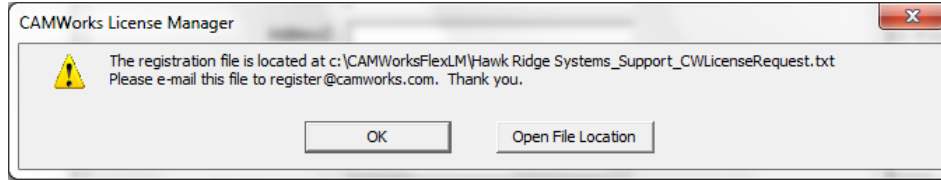
- You **must** use the Right Click – Run-as Administrator method, or be logged in as administrator with full privileges when setting up or making changes in the license manager.
- The license request file must be created **directly** on the computer where the license will reside. If the license request file is created when running the license manager via remote communications software such as pcAnywhere (Symantic Corp.) and submitted to Geometric Technologies, an invalid license will be generated.
- If you are requesting the license for the server, it has to be done **directly** on the server computer.
- Do not install the license manager or the license file in the CAMWorks program folder.

Requesting and Activating Your Built-in CAMWorks License

1. From the Windows desktop on the computer where the license will reside, select **Start** on the taskbar, then select **Programs > CAMWorks License Manager > CWFlexLM License Manager**.

    - Note: You **must** use the Right Click – Run-as Administrator method, or be logged in as administrator with full privileges when setting up or making changes in the license manager.
    - The license request file must be created **directly** on the computer where the license will reside. If the license request file is created when running the license manager via remote communications software such as pcAnywhere (Symantic Corp.) and submitted to Geometric Technologies, an invalid license will be generated.

2. Click the **License Setup** tab.

3. For the license method, make sure **FlexLM Software** is selected.

4. Click the **Request License...** button.
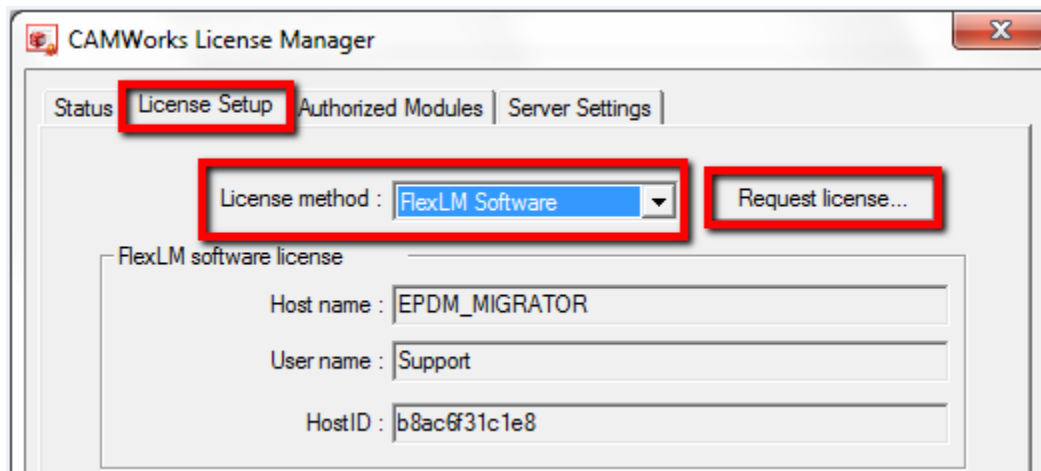
5. Complete the form. An asterisk (*) indicates a required field.

6. Email the request to register@camworks.com with the text file attached.

> **CAMWorks License Manager**
>
> ⚠️ The registration file is located at c:\CAMWorksFlexLM\Hawk Ridge Systems_Support_CWLicenseRequest.txt
> Please e-mail this file to register@camworks.com. Thank you.
>
> [OK]   [Open File Location]

7. Click **Close** to exit the request form. You can also close the License Manager. CAMWorks will run in demonstration mode in SOLIDWORKS until you receive the license file and activate the license.

Activating Your Standalone License

1. When you receive the license from Geometric Technologies, save the file to a folder on your computer. The license file <u>must</u> be on the same computer as CAMWorks. We recommend you put the license file in the same folder as the license manager.

2. Start the license manager and click the **License Setup** tab.

3. Make sure **Select node locked (Standalone) license file** is selected, then click the **Browse...** button to the right.

4. Browse to the folder where you copied the license file, select the file and click **Open**.
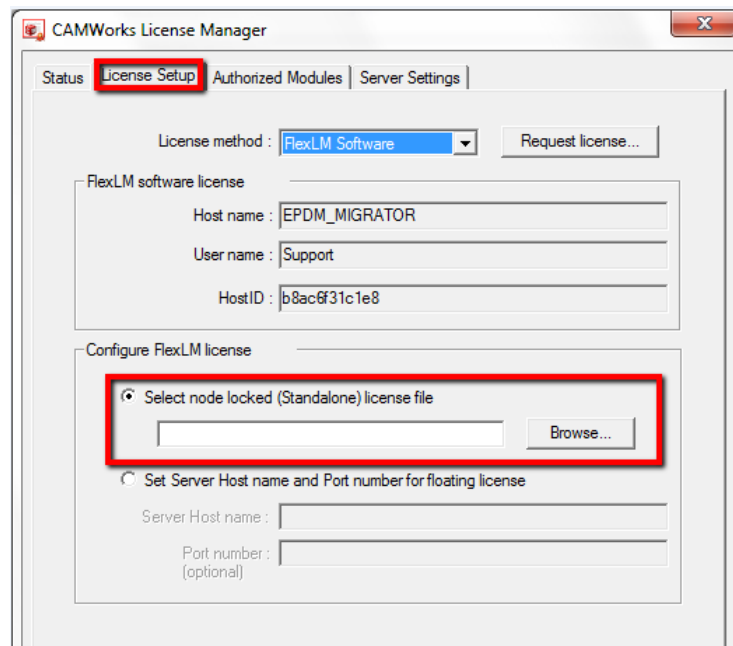
5. Click the **Status** tab and verify that the information has been updated as follows:

    - Authorization status = Succeeded
    - License File Used = path to the file and the filename

6. Click the **Authorized Modules** tab. This tab lists the modules you are licensed to run and the version. The "Expiration" field indicates if the license has an expiration date or is permanent.

7. Click **Close** to exit the license manager.

Activating Your Network License

1. When you receive the license file, copy the file to a folder on the server. The license file must be on the computer that is running the CAMWorks License Service. The folder where the license file is copied can be read-only.

2. Start the license manager and click the **Server Settings** tab. NOTE: You **must** use the Right Click – Run-as Administrator method, or be logged in as administrator with full privileges when setting up or making changes in the license manager.

3. For the license file path, browse to the folder where you copied the license file, select the file and click **Open**.

4. Set the log file path. The log file **MUST** be on the server that is running the CAMWorks License Service. The log file folder does not have to be the same as the license file folder. The log file folder and the log file must have read/write permissions.

5. Click the **Install CAMWorks License Service** button. This installs the CAMWorks License Service.

6. Click the **Start** button. The status message at the bottom of the dialog box indicates the CAMWorks License Service is running.

Verify the License

Before setting up the license on the client computers, you should make sure the floating license has been installed and activated successfully on the server. You can do this by setting up the server to also be a client.

1. Start the license manager, if it is not running.

2. Click the **License Setup** tab and verify that FlexLM is selected for the license method.

3. In the Configure FlexLM license section, make sure the **set server host name** and **port number** (typically port# 27000) of floating license option is selected.

4. Type the server host name.

    IMPORTANT! This field requires the host name of the server. Since you are setting up the server computer as a client, the host name of the client is the same as the server host name, so you can type the host name that displays at the top of the dialog box. You will need the host name of the server when you set up other client computers.

5. Click the **Authorized Modules** tab.

- If **Yes** displays in the **Available** column for modules, click **OK** to close the license manager. You are now ready to set up the client computers to run CAMWorks.
- If the **Authorized Modules** tab is blank, the server may have a software and/or hardware firewall that you need to configure to allow the clients to see the server.

Configure Firewall on Server (if necessary)

If a firewall is running on the server, the firewall may need to be configured to allow the clients to see the CAMWorks License Service. The following directions are for the Windows 7 Firewall. If you are using different software and/or hardware firewalls, refer to the product documentation for directions.

1. Open the Windows Control Panel.

2. Open Windows Firewall.

3. Click **Allow a program or feature through Windows Firewall**

4. Locate the CAMWorks License Manger folder, select **lmgrd.exe** and click **Open**.

5. Click **OK** and make sure the program is checked in the **Exceptions** list.

6. Click **Add Program** again and add **teksoft.exe** (follow steps 6 and 7).

7. Close the Windows Firewall and the Control Panel.

8. Restart the computer.

Installing the License on Clients

After the CAMWorks License Service is installed and running on the server, you can install the CWFlexLM License Manager on the computers in the network that will be running CAMWorks. For client computers, the installation of the FlexLM License Manager and activation of a license can be performed remotely.

1. On each computer that will be running CAMWorks, start the CAMWorks Setup program on the CAMWorks USB drive, or download. Check the box next to **Software License Manager** and click the **Install Required Programs** button.

2. Follow the directions on each screen. When prompted to choose the license location, use the default path or select a different folder.

3. When the installation is complete, click **Finish**.

4. Select **Start** on the taskbar and then select **Programs > CAMWorks License Manager > CWFlexLM License Manager**. Note: You **must** use the Right Click – Run-as Administrator method, or be logged in as administrator with full privileges when setting up or making changes in the license manager.

5. Click the **License Setup** tab.

6. For the license method, make sure **FlexLM Software** is selected.

7. Make sure **Set Server Host name and Port number** (typically 27000) **of floating license server** is selected.

8. Type the server host name and optionally enter the port number. **IMPORTANT!** The server host name must be the host name of the **server**, not the host name of the client that is shown in the section at the top of the dialog box.

9. Click **Apply**.

10. Click the **Authorized Modules** tab. The licensed modules are listed and the license type is "floating".

11. Click **OK** to close the license manager. No additional information and actions are required for enabling a client.

Running CAMWorks on Clients

1. Start CAMWorks and open a part file or a new part document.

2. Click **Help** on the SolidWorks/CAMWorks Solids menu bar, select **CAMWorks 20xx Help**, then select **License Info**. The **CAMWorks License Info** dialog box displays.

   - In the **Available** column, the number indicates how many licenses are available for each module. When 0 displays, there are no available licenses.
   - The **Module** section lists the modules. A check mark indicates the module has been assigned to this client. To access the functions of an available module, check the box next to the available module.
   - The **Refresh Licenses** button can be used to update the availability of modules when other clients release modules.
   - In the **Start Up** column, you can specify which modules you want to run on this client when CAMWorks starts if a license is available. If a license is not available for one of the checked modules when CAMWorks starts, this message displays: "One or more floating licenses that were requested are not available."

Using a Hardware USB Key (Dongle)

Optionally, CAMWorks can use a hardware dongle (also referred to as a key or security block) for licensing and protection against unauthorized use. The USB Key (dongle) is programmed for the modules and version you are licensed to run. A USB Key (dongle) is a small hardware device that fits in the USB connector of the computer.

IMPORTANT! The hardware Key (dongle) is essentially your license and you may want to insure it against loss. If the Key (dongle) is lost or stolen, you will be required to purchase a new license.

Installing the USB Key (Dongle)

Insert the USB key (dongle) into an open USB connector on the computer that will be using the license. The USB dongle must remain on the computer at all times while CAMWorks is in operation. CAMWorks looks for and reads the configuration on the USB Key (dongle) during start-up and periodically while it is running. Note that when the hardware Key (dongle) is used, you do not need to install the CWFlexLM License Manager software.

The following steps are how you would set up a USB Key (dongle).

1. Plug the USB Key (dongle) into the computer.

2. Next, you will need to open the Key Manager in Start > All Programs > CAMWorks(version) > Key Manager. Click on **Update** and choose to update. It will notify you if the security block (USB key) is detected or not. Note: You **MUST** open the key manager with right click run-as administrator.

3. If it does not recognize it, you will need to install the sentinel driver from the CAMWorks website so that it can recognize the block (key). (Downloading the sentinel driver from a different source could result in the dongle not working properly.) Once you have done this, try updating again. It should recognize the block (USB key).

4. After your block/key/dongle has been recognized, you will need to navigate to Start > All Programs > CAMWorks License Manager and open **CW License Manager**. Note: Open the CW License manager with right click run-as administrator.

5. In here, you will want to go to the License Setup tab and change the license method from **FlexLM Software** to **Hardware Dongle**. Once you do that, select **Apply**.

6. Open SolidWorks now and it should recognize the USB Key (dongle).

Start SolidWorks or CAMWorks Solids

The CAMWorks logo displays to indicate CAMWorks is started. The Technology Database (TechDB) is loaded automatically. This TechDB is compatible with the CAMWorks version you just installed. If you have customized data in a previous version of the database, you can import the data into the new TechDB and get started using CAMWorks.