

CODE V Installation Guide

for Fixed and Floating Licensing (OSG Floating License Manager)

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SYNOPSYS®

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Chapter 1 Getting Started

You can run CODE V using either a *fixed* license or a *floating* license. A fixed license allows you to run CODE V only on the computer on which it is installed. A floating license, which is installed on a network server, allows you to run CODE V on any client computer installed on the same network. The number of users that can use CODE V concurrently is limited to a predetermined number by the license management software. For details about obtaining CODE V software and license key files, see Appendix A, “Using Synopsys SolvNet to Obtain CODE V Software and Licenses”.

Fixed License Installation

Fixed licenses are standalone software copies to be used on one computer only. You will need the following to run CODE V on a fixed-license system:

- **USB Dongle** – the dongle comes with a label that shows its Host ID.
- **License Key File** – a license key file that corresponds to your CODE V license and to the Host ID of the USB dongle you are using.
- **CODE V** – You need to obtain a copy of CODE V from SolvNet.

Floating License Installation

Floating licenses are run on a license server, and operate as a service to client computers attached to the network. The license server and client computers must be able to communicate with each other using the TCP/IP protocol. You will need the following to run CODE V:

License Server

- **USB Dongle** – the dongle comes with a label that show its Host ID.
- **License Key File** – a license key file that corresponds to your CODE V license and to the Host ID of the USB dongle you are using.
- **Floating License Manager software** provided by Synopsys OSG. This guide provides instructions for installing the OSG Floating License Manager (a Sentinel RMS license manager that has been customized for Synopsys OSG software), which is available on the Synopsys SolvNet website. See Appendix A, “Using Synopsys SolvNet to Obtain CODE V Software and Licenses” for details about obtaining this software.

CODE V Client

- **CODE V** – You need to obtain a copy of CODE V from SolvNet. Note that a license key file is not needed when installing CODE V on a client computer.

System Requirements

Current system requirements can be found online:

<http://optics.synopsys.com/codev/codev-hw-systems.html>

Contacting CODE V Technical Support

If you need help or have questions about CODE V that are not answered in the documentation or the online help, feel free to contact the CODE V Technical Support team by telephone, fax, or email. Technical support is available from 8 a.m. to 5 p.m., Pacific Time.

Technical Support Hotline (800) 243-8672 (U.S. and Canada only)

Telephone (626) 795-9101

Fax (626) 795-0184

Email: codev_support@synopsys.com

Chapter 2 Installing CODE V with a Fixed License

This chapter describes how to install CODE V with a fixed license, which allows you to run CODE V only on the computer on which it is installed. Note that all instructions are for the Microsoft Windows operating system.

These instructions assume that you have already downloaded from SolvNet the CODE V software and a license key file. If you have not done so, see “Using Synopsys SolvNet to Obtain CODE V Software and Licenses” on page 27.

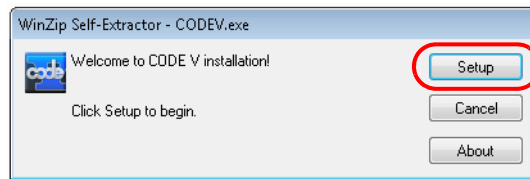
Installing CODE V

1. Log on to your computer as Administrator.
2. Navigate to the folder to which the CODEV installation package was copied.
3. Double-click the file **CODEV $version$.exe**.

where *version* is the version number for the release (for example, CODEV110FCS.exe).

The WinZip Self-Extractor for CODEV $version$.exe is displayed.

4. Click **Setup** to begin.



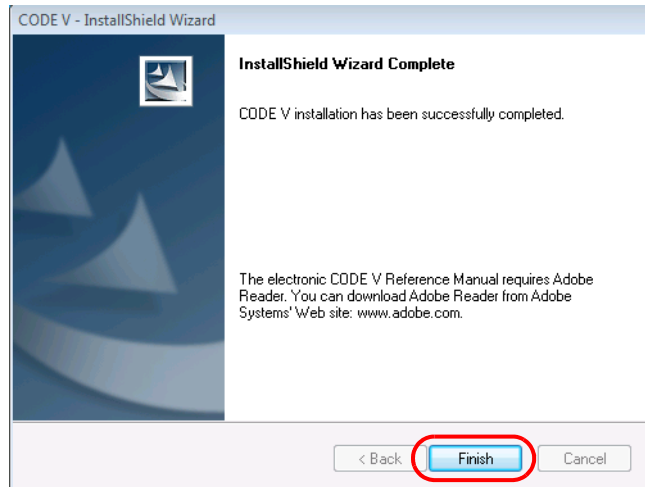
The installation files are extracted, and then the InstallShield Wizard is displayed.

5. Click **Next** to continue, and follow the instructions in the wizard.

When you get to the License Installations Options, be sure that the Fixed License option is selected (this is the default setting) and click **Next** to continue.



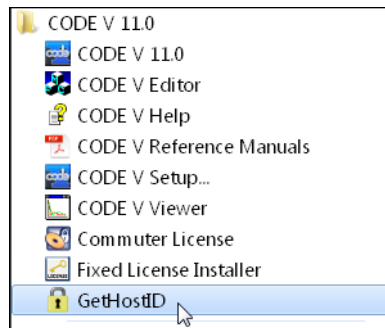
6. When the installation is complete, click **Finish** to close the wizard.



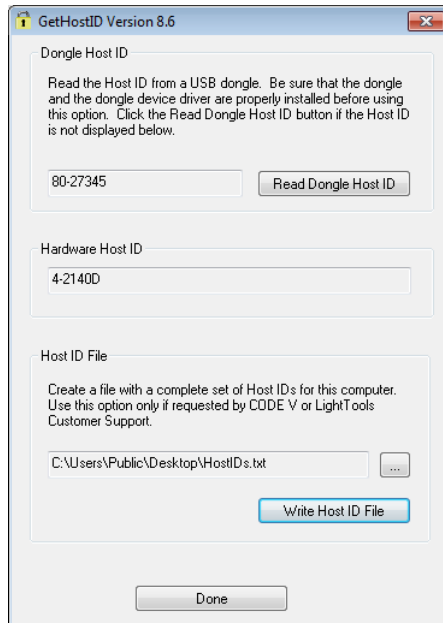
Obtaining the Host ID for a License Dongle

A license key is designed to work for only one USB dongle, so the license key is associated with a unique value encoded on the dongle called a *Host ID*. Because of this, you need to know the Host ID for the license dongle before you can retrieve a license key file. The Host ID is printed on a label on the USB dongle; if you're unable to read the ID on the label, you can also obtain the Host ID by running a program that reads it from the dongle. In the CODEV installation, the GetHostID utility is provided for this purpose. Follow these steps to run the GetHostID utility.

1. Insert the USB dongle in an active USB port.
2. Select the Windows Start menu, expand the CODEV group and select GetHostID, shown in the following figure.



The GetHostID utility is displayed, as shown in the following figure. In this examples, the Host ID for the USB dongle is **80-27345**.



3. Copy the Host ID to use when you retrieve your license key on the Synopsys SolvNet website. See “Retrieving License Keys” on page 35 for instructions.
4. Click Done to close the GetHostID utility.

After you retrieve your license key, go to “Installing a License Key File for a Fixed License” on page 5.


Installing a License Key File for a Fixed License

A valid license key file must be installed before you can run CODE V. This procedure assumes that CODE V is installed and that you have your license key file.



Note: If you start CODE V before you install your license key file, the License Manger Error dialog box will be displayed. Click **Install License** in that dialog box to display the Fixed License Installer and then skip to step 2 in the following procedure.

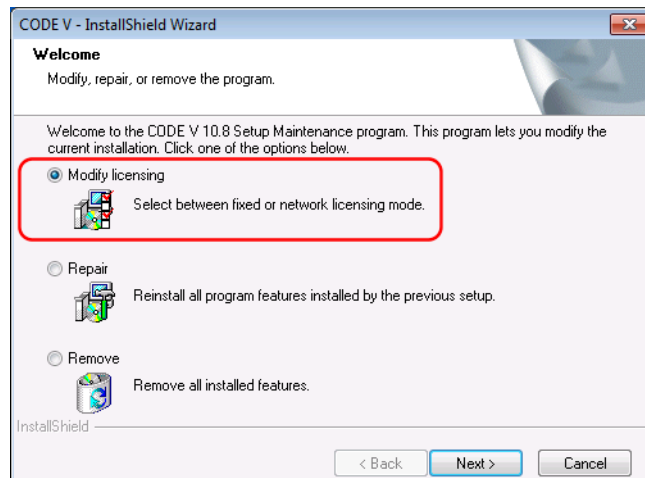
Follow these steps to install your license key file.

1. Insert the USB dongle in an active USB port.
2. To install your license key file, click **Start > Programs > CODE V > Fixed License Installer**.
The Fixed License Installer is displayed.
3. Click the browse button .
4. Navigate to the license key file, select it, and click **Open**.
The path to the license key file is shown in the Fixed License Installer.
5. Click **Install**.
The license key file is installed, and CODE V starts automatically.

Modifying License Options

If you need to change the type of license specified for your CODE V installation (fixed or floating), use the following procedure.

1. Select **Start > Control Panel**, and click **Programs and Features**.
2. Click the CODE V program you want to modify.
3. Click **Uninstall/Change**.
4. In the InstallShield Wizard *Welcome* page, the **Modify Licensing** option is preselected.



5. Click **Next**.
6. On the *License Installation Options* page, select the type of license that you want to use (if you are switching to a floating license, enter the server hostname or IPv4 address for the floating license server) and click **Next**.
7. On the *Maintenance Information* page, confirm your changes and click **Next**.
8. Click **Finish**.

Chapter 3 Installing CODE V with a Floating License

This chapter describes how to install a floating license on a network server, which allows you to run CODE V on any client computer installed on the same network. The number of users that can use CODE V concurrently is limited to a predetermined number by the licensing software. Note that all instructions are for the Microsoft Windows operating system.

The floating license capability is supported by the OSG Floating License Manager, which is a Sentinel RMS license manager that has been customized for Synopsys OSG software. If you install other Synopsys OSG software products, they will share the same license management software, and their license keys will be written to the same license key file. The applications cannot share licenses; they will share only the license server software.



Note: Installing a floating license requires system-administration level training, and should be performed by someone who is familiar with your network structure. Also, note that you must be logged in as administrator on the license server.

The steps for installing CODE V to run with a floating license are:

1. “Selecting a License Server” on page 7
2. “Installing the OSG Floating License Manager on the License Server” on page 8
3. “Network Firewall Settings” on page 14
4. “Installing the License Key for a Floating License” on page 17
5. “Installing CODE V on Client Machines” on page 19

Selecting a License Server

Before installing any software, you must identify the computer that will act as the floating license server. This must be a computer connected to a network that can grant access to one or more client machines.



Note: By default, the License Server communicates via port 5093. If you will be running CODE V across different subnets, you will have to configure your routers or firewalls to allow two-way communication across this port. See Appendix B: "Troubleshooting the CODE V Network License Installation".

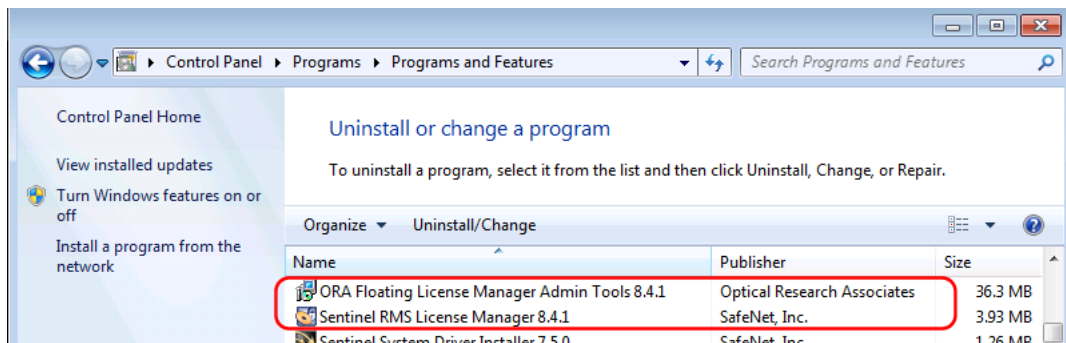
Installing the OSG Floating License Manager on the License Server

These instructions apply to the OSG Floating License Manager software that you download from SolvNet. Follow these steps to install the OSG Floating License Manager on the license server.



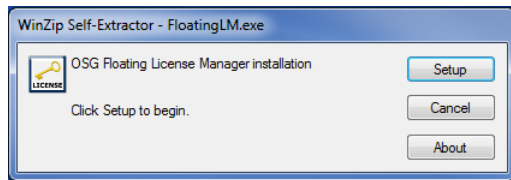
Note: If you have any other version of the Sentinel RMS license manager software (e.g., 8.4.1, 8.6), you must first uninstall that version as described below.

Before You Begin: To uninstall an earlier version of the Sentinel RMS software, click the Windows Start menu, and click **Control Panel > Programs > Programs and Features**. If you have the ORA Floating License Manager installed, be sure that you uninstall *both* the ORA Floating License Manager Admin Tools and the Sentinel RMS License Manager, shown in the following figure.



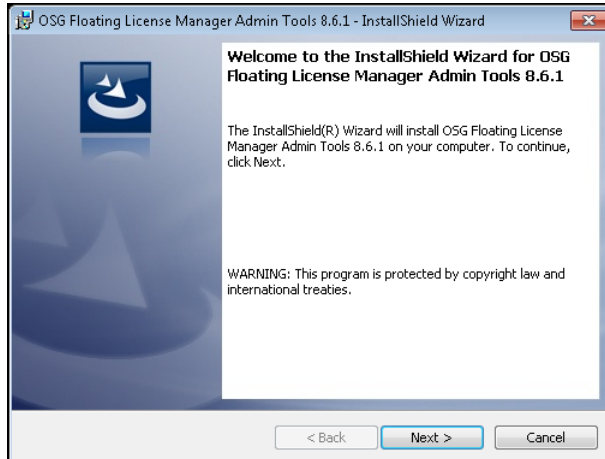
1. Log on to the license server with administrator privileges.
2. Navigate to the folder where you downloaded the OSG Floating License Manager, FloatingLM.exe.
3. Double-click the file FloatingLM.exe.

The WinZip Self-Extractor for the OSG Floating License Manager installation is displayed.



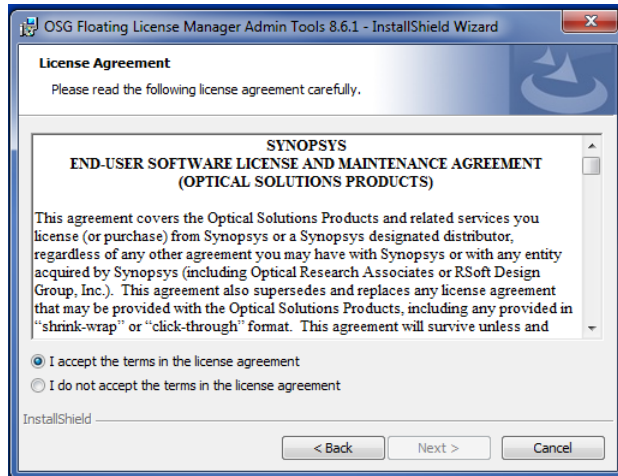
4. Click Setup.

The Welcome screen for the OSG Floating Manager Admin Tools wizard is displayed.



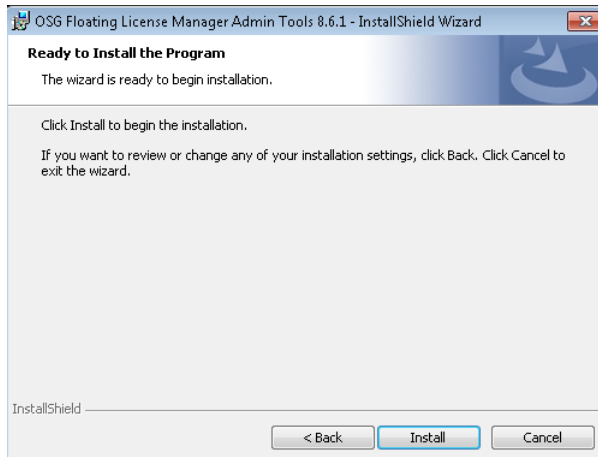
5. Click Next.

The License Agreement screen for the OSG Floating License Manager Admin Tools is displayed.



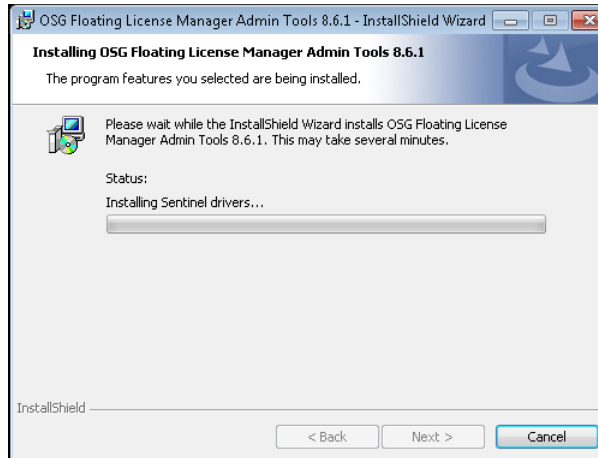
6. Click the I Accept option and click Next to continue.

The Ready to Install screen is displayed.



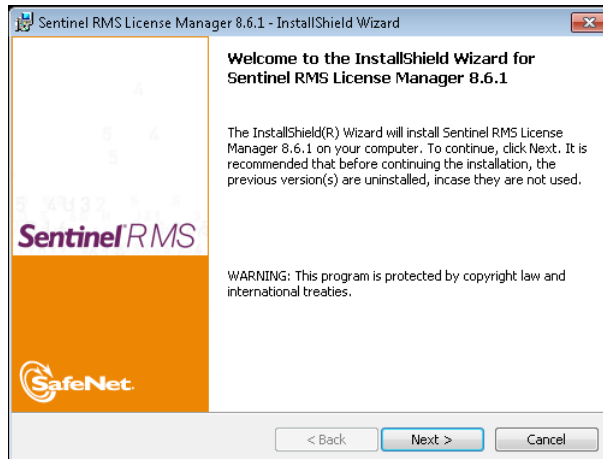
7. Click Install.

The progress screen is displayed while the software is installed.



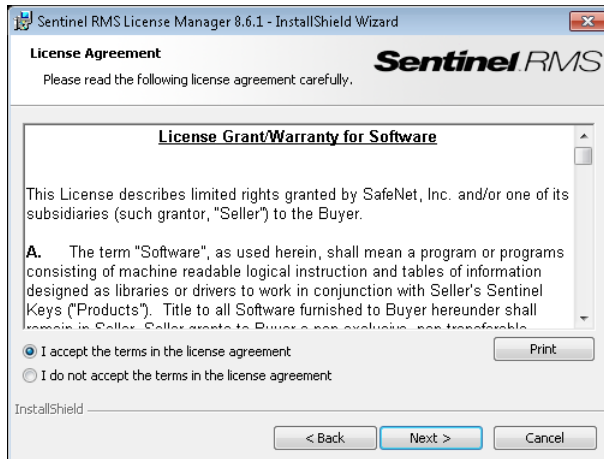
8. Accept the default settings for all options.

The Welcome screen for the Sentinel RMS License Manager is displayed.

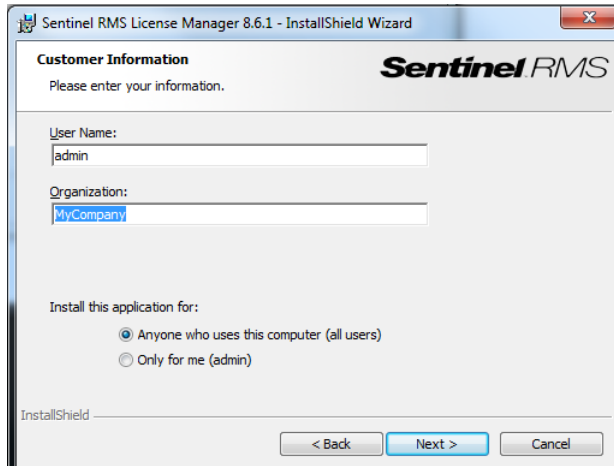


9. Click Next.

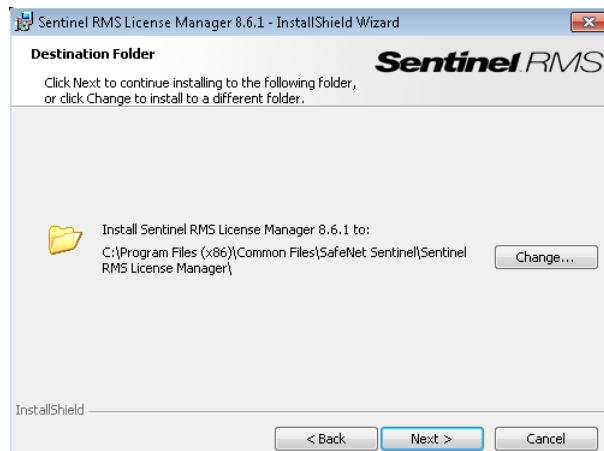
The License Agreement screen for the Sentinel RMS License Manager wizard is displayed.



10. Click the I Accept option and then click Next to continue.
The Customer Information dialog box is displayed.

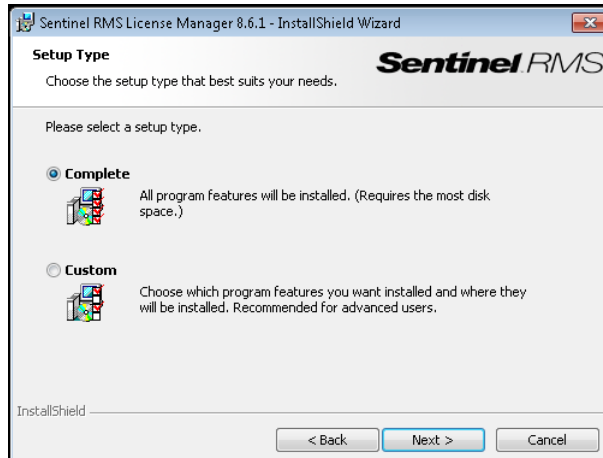


11. Click Next to accept the defaults and continue.
The Destination Folder screen is displayed.



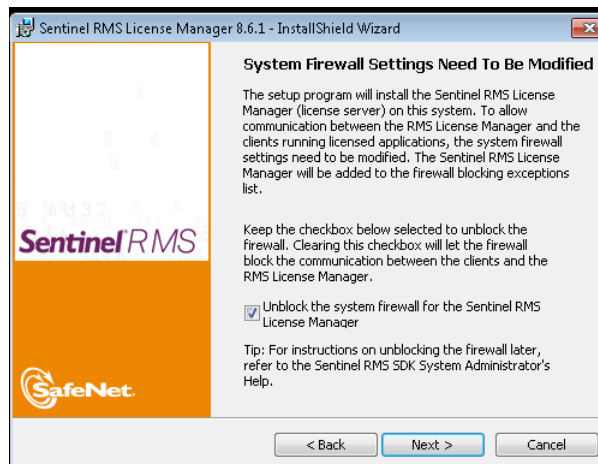
12. Click Next to accept the default and continue.

The Setup Type screen is displayed.



13. Click Next to accept Complete (recommended) and continue.

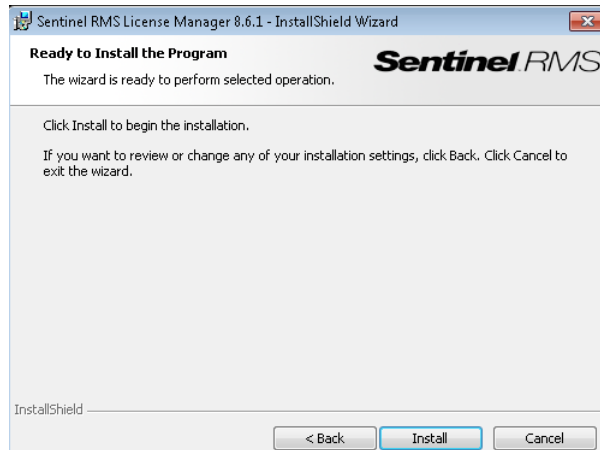
The System Firewall Settings screen is displayed.



14. Click Next (recommended).

If you choose to change the setting on this screen, see “Network Firewall Settings” on page 14 before proceeding.

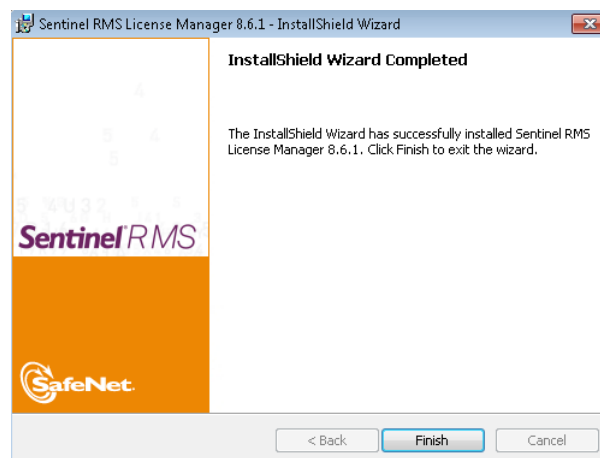
The Ready to Install screen is displayed.



15. Click Install.

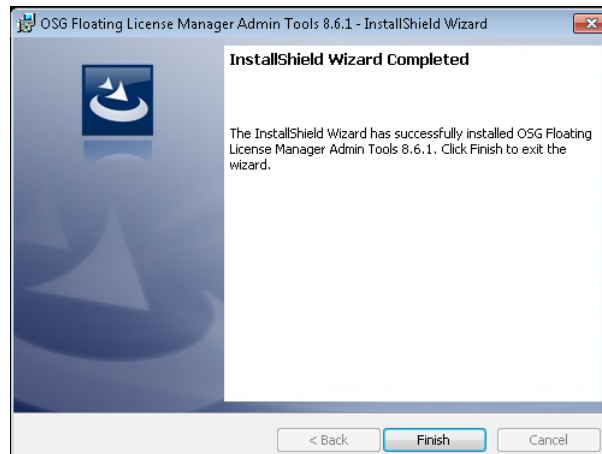
The progress screen is displayed while the software is installed.

When the installation is finished, the Completed screen for the Sentinel License Manager is displayed.



16. Click Finish.

The Completed screen for the OSG Floating License Manager Admin Tools is displayed.



17. Click Finish.

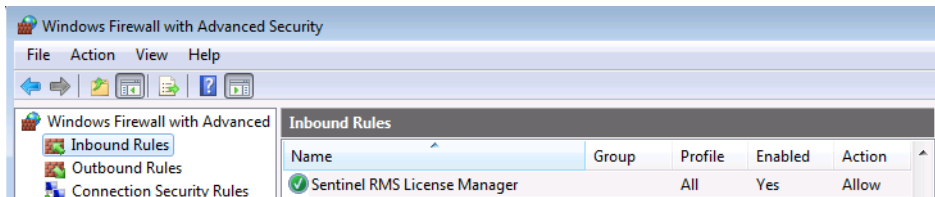
The installation is complete.

18. Reboot your computer if prompted to do so.

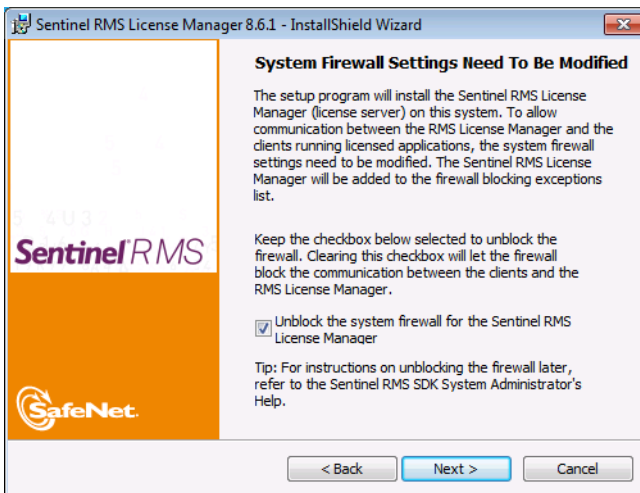
If you already have a CODE V license key, skip to *Installing the License Key for a Floating License* on page 17. If you do not yet have a license key, continue with *Obtaining the Host ID for a License Dongle* on page 15.

Network Firewall Settings

By default, installing the Sentinel RMS Floating License Manager adds one or more inbound rules for the executable (lservnt.exe).



This action is enabled by the check box in the InstallShield Wizard dialog shown in the following figure. If you choose to bypass this action by deselecting this check box, CODE V may not be able to obtain the license needed to run.

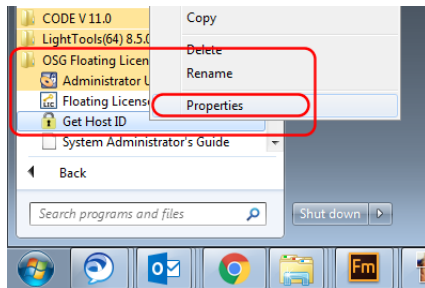


As the dialog explains, the firewall blocking exceptions can be added at a later time. Additionally, if you want strict firewall settings, you can allow communications only for port 5093 in the Ports setting of the Inbound Rules.

Obtaining the Host ID for a License Dongle

A license key is designed to work for only one USB dongle, so the license key is associated with a unique value encoded on the dongle called a *Host ID*. Because of this, you need to know the Host ID for the license dongle before you can request a license key. The Host ID is printed on a label on the USB dongle; if you're unable to read the ID on the label, you can also obtain the Host ID by running a program that reads it from the dongle. In the OSG Floating License Manager installation, the GetHostID utility is provided for this purpose. Follow these steps to run GetHostID.

1. Insert the USB dongle in an active USB port on the license server.
2. To display the correct Host ID in the GetHostID utility, you need to modify the shortcut to the utility as follows:
 - a. Click the Windows Start menu, select OSG Floating License Manager group, **right-click** GetHostID and select Properties, shown in the following figure.

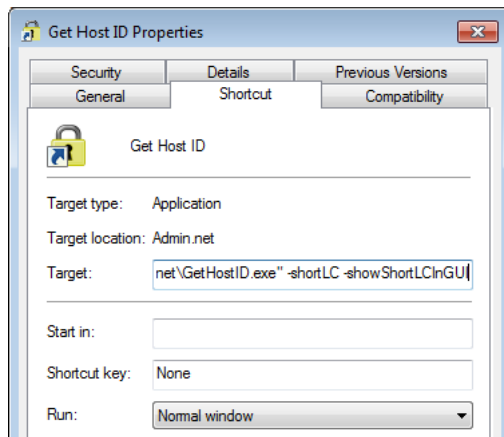


- b. In the GetHostID Properties dialog box, click the Shortcut tab. For the Target command, add the following text at the end of the line:

-shortLC -showShortLCInGUI

so that the complete command looks like this:

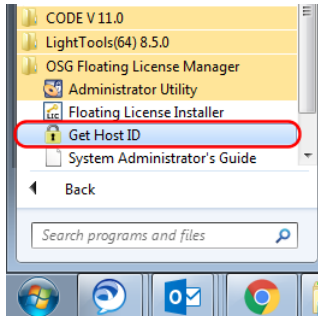
"C:\Program Files (x86)\Common Files\Optical Research Associates\FLM\Admin.net\GetHostID.exe" -shortLC -showShortLCInGUI



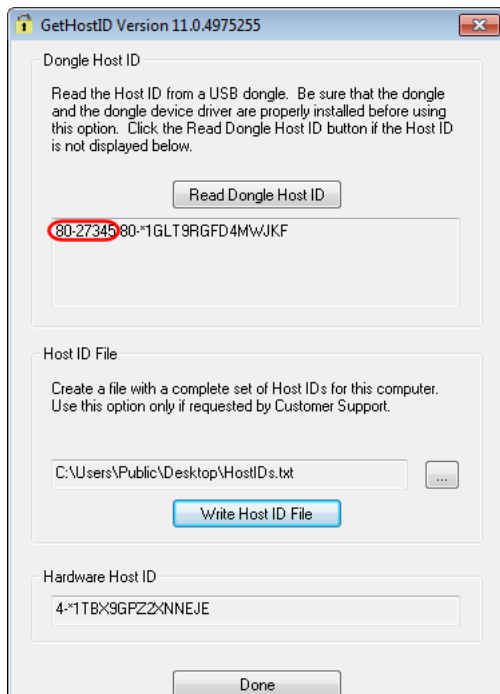
Be sure that there is a space between **.exe"** and **-shortLC**.

- c. Click OK to accept the change and close the GetHostID Properties dialog box.

3. Select the Windows Start menu, expand the OSG Floating License Manager group, and select GetHostID, shown in the following figure.



4. The GetHostID utility is displayed, as shown in the following figure. Under the Read Dongle Host ID button, a short Host ID and a long Host ID are displayed side by side. To obtain a license key at this time, you need only the *short* Host ID (the first eight characters). In this example, the Host ID for the USB dongle is **80-27345**. (Note that in some display configurations, the two Host IDs are displayed farther apart.)



5. Copy the short Host ID to retrieve your license key file on the Synopsys SolvNet website. See “Retrieving License Keys” on page 35 for instructions.
6. Click Done to close the GetHostID utility.

After you retrieve your license key, go to “Installing the License Key for a Floating License” on page 17.

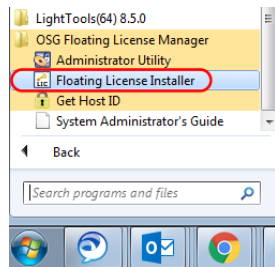
Installing the License Key for a Floating License

After you install the license server software and retrieve a license key, you need to install the license key on the license server before client machines can successfully run CODE V. The Floating License Installer is provided for this purpose.

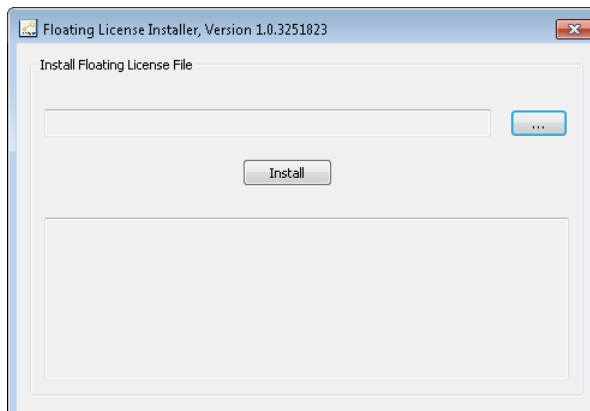
This procedure assumes that you have already obtained a valid CODE V *license.dat* file from the SolvNet SmartKeys web page. If you have not done so, see “Retrieving License Keys” on page 35 for instructions.


Follow these steps to install your license key file.

1. Make sure that the license dongle is inserted in an active USB port on the license server.
2. Click the Windows **Start** button on the taskbar, and select **All Programs > OSG Floating License Manager > Floating License Installer**.

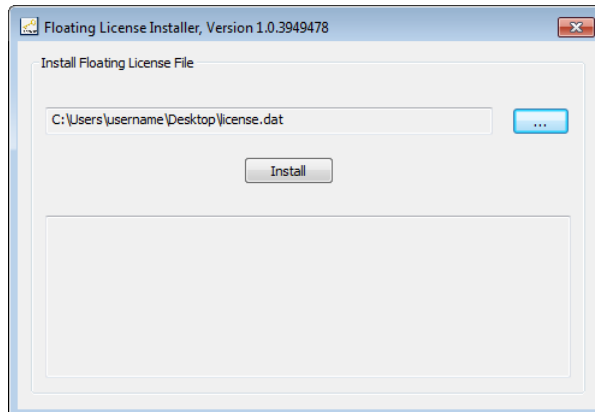


The Floating License Installer is displayed, as shown in the following figure.



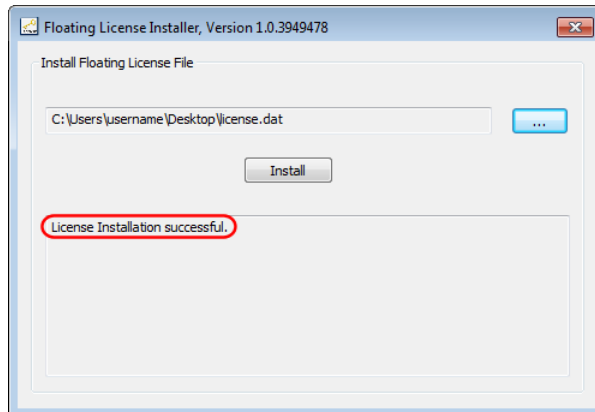
3. Click the Browse button .
4. In the Open dialog box, navigate to the license key file, select it, and click Open.

The Open dialog box is closed, and the path to the license key file is shown in the Floating License Installer.



5. Click the Install button.

The license key file is installed, and the Success dialog box is displayed.



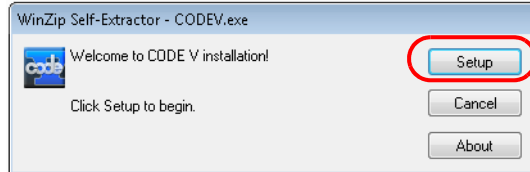
6. To close the Floating License Installer, click the red X in the top right corner.
Continue with "Installing CODE V on Client Machines" on page 19.

Installing CODE V on Client Machines

CODE V must be installed on each client machine where it will be used. During the installation, choose **Floating License** as the license type, and enter the name of the license manager in the **Server Hostname** field.

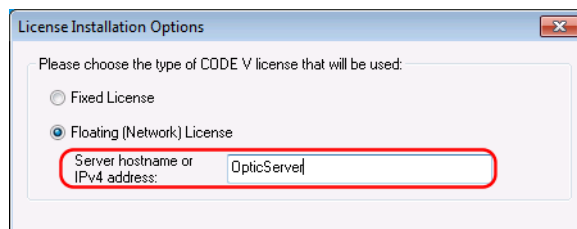
These instructions assume that you have already downloaded CODE V from SolvNet.

1. Log on to your computer as Administrator.
2. If you downloaded CODE V, navigate to the folder where the installation package was copied.
3. Double-click the file **CODE V $version$.exe** where $version$ is the version number for the release (for example, CODE V110FCS.exe).
The WinZip Self-Extractor for CODE V $version$.exe is displayed.
4. Click **Setup** to begin.



The installation files are extracted, and then the InstallShield Wizard is displayed.

5. Click **Next** to continue, and follow the instructions in the wizard.
6. When you get to the License Installations Options, select the **Floating License** option.
7. Next to the Server Hostname or IPv4 Address option, enter the name or the IPv4 address for the computer on which the license manager was installed and click **Next** to continue. In the following figure, the name *OpticServer* is used as an example; be sure to enter the name of your license server.



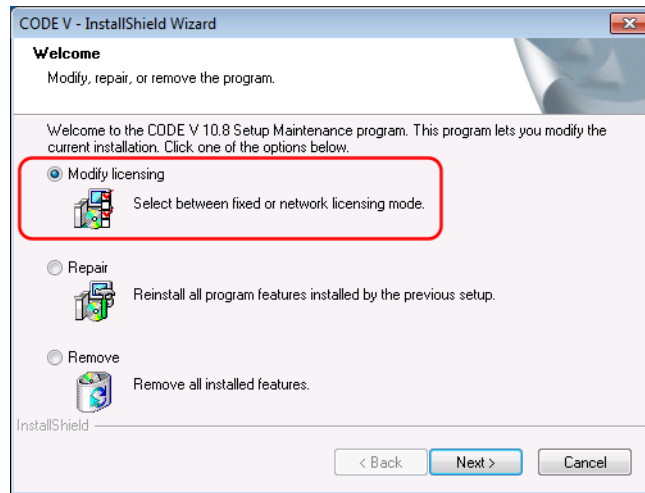
8. When the installation is complete, click **Finish** to close the wizard.

Modifying License Options

If you need to change the type of license specified for your CODE V installation (fixed or floating), use the following procedure.

1. Select **Start > Control Panel**, and click **Programs and Features**.

2. Click the CODE V program you want to modify.
3. Click **Uninstall/Change**.
4. In the InstallShield Wizard *Welcome* page, the **Modify Licensing** option is preselected.



5. Click **Next**.
6. On the *License Installation Options* page, select the type of license that you want to use (if you are switching to a floating license, enter the server hostname or IPv4 address for the floating license server) and click **Next**.
7. On the *Maintenance Information* page, confirm your changes and click **Next**.
8. Click **Finish**.

Chapter 4 Administrating Floating Licenses

In general, there is nothing that you need to do to administrate floating licenses. As long as the license server machine is operational, connected to the network, and is running the Sentinel service, licenses are available to clients.

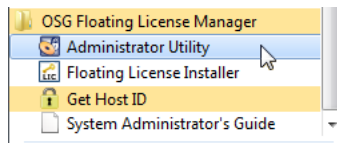
Monitoring License Use

It is possible for all available licenses to be in use, which would prevent additional clients from running CODE V. In such cases, a system administrator can use the WlmAdmin utility to determine to whom the module licenses have been allocated.



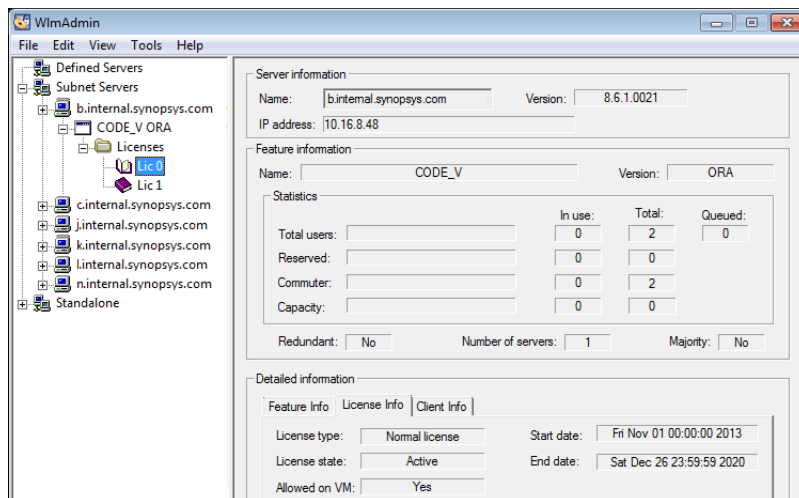
Note: To use the WlmAdmin utility, either you must be the person who started the license server, or you must have administrator privileges.

1. To start the utility, click the Windows **Start** menu and select **All Programs > OSG Floating License Manager > Administrator Utility**.



2. Expand the list of modules below the license server hostname.

The details presented in the dialog box indicate which client machine and username have checked out the licenses.



You can also use the WlmAdmin utility to obtain other licensing activity information, such as license servers detected and details on active licenses. For more information about how to use the WlmAdmin utility, see the *Sentinel System Administrator's Guide*. After the Sentinel software is installed, this manual is available by selecting the Windows Start menu and selecting **All Programs > OSG Floating License Manager > System Administrator's Guide**.



Note: Not all functions described in the *Sentinel System Administrator's Guide* are supported by CODE V.

All license manager activity is recorded in the file usage.log, which is located in C:\Windows\SYSWOW64.

Improving Access to CODE V Licenses with the Sentinel License Manager

By default, CODE V licenses are available to anyone on your server on a first-come, first-served basis. Therefore, you can use CODE V immediately without using the Sentinel License Manager. However, if and when you want the access to these licenses more finely tuned for your work priorities, you can reserve copies and deny access with the Sentinel License Manager.

Before using the Sentinel License Manager, consider how you want to organize your groups, as there are many ways to do so. Remembering the following points will help you to decide how to organize your groups:

- Any license not specifically reserved can be used by anyone on your server.
- After you add a user to a group, you can change the status for that user to Included (access allowed) or Excluded (access denied).
- If you want to exclude all members of a group from using license tokens for a feature, you can specify 0 licenses (called tokens).

For example:

- If you have different departments in your organization, you may want to enter each department as a separate group, assign a certain number of license tokens to each group, and designate each group member as Included or Excluded. You can change this designation on a regular basis as your work priorities change.
- Another arrangement would be to create one group for preferred users and one group for everyone else. In the preferred user group, you could designate all members as Included and assign as many licenses as you can allow. For the second group, you could enter everyone else in the company and the remaining licenses (tokens) and designate which people are Included and which are Excluded. You can then change these Included and Excluded designations on a regular basis as the work load changes.

After you decide on an arrangement, you can use the Sentinel License Manager to implement it by setting up a *reservation file* as follows:

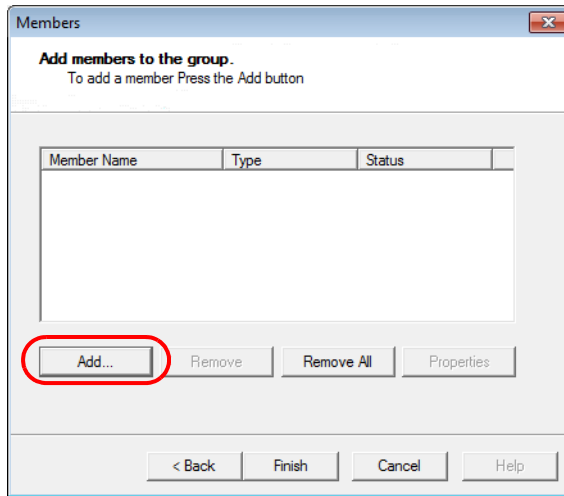
1. Start the utility by clicking the Windows **Start** menu and select **All Programs > OSG Floating License Manager > Administrator Utility**.
2. From the menu at the top of the WlmAdmin window, choose **Edit > Reservation File**. to open the Wlsgmgr window.
3. Choose **File > New**. This selection clears the system for setting up a new member group.

4. Select a feature. CODE V does not have a separate set of features, so CODE V is the only feature choice.
 - a. Choose **Feature > Add**. The *Add License Reservation Wizard* opens. Click **Next** to continue. The *Feature Version* window opens.
 - b. For Feature Name, enter **CODE_V** (upper case CODE, underscore, upper case V).

- c. For Feature Version, enter **ORA** (upper case).
 - d. Click **Next** to open the *Group* window.
5. Establish a user group:
 - a. Enter a name of your choosing that identifies the user group for whom you want to allow or deny access.

- b. In the *Tokens* field, enter the number of licenses of the available licenses to reserve for that group.
 - c. Click **Next** to open the *Members* window.
6. Add each member to the group. Add members who will be allowed access, as well as members who will be denied access.

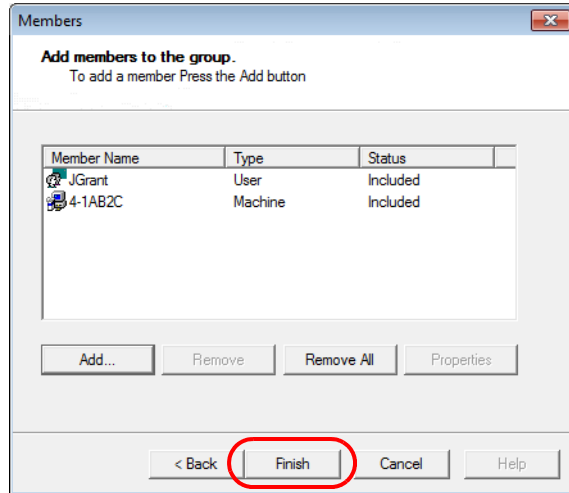
- a. Click the **Add** button.



- b. In the **Name of Member** dialog box, enter either the user's login name or machine (host) ID.



- c. Select either **User** or **Machine**, depending on which you have provided in the previous step.
- d. Click **Included** for members who will be allowed access and **Excluded** for members who will be denied access.
- e. Click **OK**.
- f. Repeat the process of adding a member for each user in the group.
- g. In the *Add Members to Group* window, click **Finish**.



7. Repeat the process of selecting features, establishing groups, and adding members for each group (steps 4, 5, and 6, above).
8. Select **File > Save As** and find the directory where the license manager is installed.

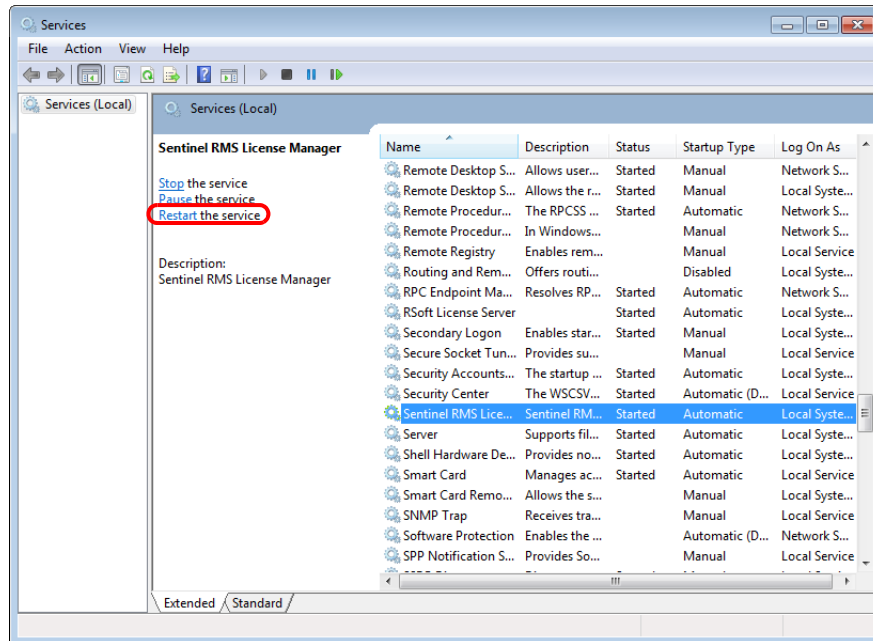
By default, the license manager is installed in:

C:\Program Files (x86)\Common Files\SafeNetSentinel\Sentinel RMS License Manager\WinNT

A file called lsreserv is created and saved at this location. The License Manager references this file to determine which users have access to each feature.

9. Restart the Sentinel RMS License Manager, as follows.
 - a. From the Windows Start button, select **Start > Control Panel**.
 - b. Select **System and Security > Administrative Tools > Services**.
 - c. Select the **Sentinel RMS License Manager** in the list of services and select the **Restart** option, shown in the following figure.

Chapter 4 Administrating Floating Licenses



Appendix A Using Synopsys SolvNet to Obtain CODE V Software and Licenses

Software and license keys for CODE V are available for download from the Synopsys SolvNet website. This appendix describes how to use the website to download this software products and the license keys required to use it.



Note: For customers working with distributors, please contact your local CODE V software distributor to obtain your software and license. See the [Synopsys Optical Solutions Group Global Contacts](#) page for contact information.

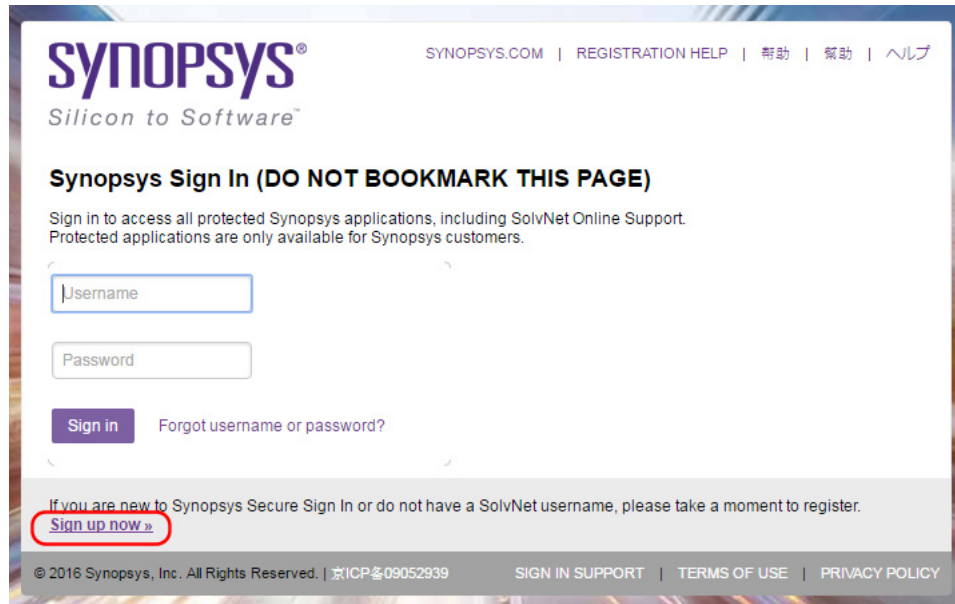
The process is described in the following procedures.

1. *Signing Up for a SolvNet Account* on page 28
2. *Downloading CODE V Software from SolvNet* on page 29
- or
- Ordering Media (CDs/DVDs)* on page 31
3. *Installing CODE V* on page 33
4. *Retrieving License Keys* on page 35

Signing Up for a SolvNet Account

Before you can download CODE V software and license keys, you must sign up for a Synopsys SolvNet account. If you already have a SolvNet account, you can skip to *Downloading CODE V Software from SolvNet* on page 29.

1. Go to <https://solvnet.synopsys.com> and click the **Sign Up Now** link.



2. Follow the instructions for New User Registration.

During the registration process, you will need to enter your company's Site ID. If you do not know your company's Site ID, please contact solvnetfeedback@synopsys.com to request it. Be sure to include your company name and address in the email request.

SolvNet will send you a confirmation email. Follow the link in the email to complete the registration process.

Downloading CODE V Software from SolvNet

Follow these steps to download the CODE V product. If you are unable to download software, you can order a CD or DVD instead. See *Ordering Media (CDs/DVDs)* on page 31 for instructions.

1. Go to <https://solvnet.synopsys.com> and enter your User Name and Password to sign in.
2. Click Downloads.
3. All Synopsys products currently licensed at your company will be listed.

The screenshot shows the SolvNet website interface. At the top, there is a search bar and navigation links for SYNOPSYS.COM, FEEDBACK, SITE MAP, HELP, and SIGN OUT. Below this is a main navigation bar with icons and labels for HOME, Documentation, Support, Downloads (highlighted with a red box), Training, Methodology, and My Profile. The main content area is titled 'HOME > DOWNLOADS' and features two tabs: 'My Product Releases' and 'My Newest Releases'. Under 'My Product Releases', there is a note: 'New! indicates new release within past 45 days.' followed by a list of products: LightTools, LucidDrive, LucidShape, LucidShape HDR Viewer, and LucidShape Lite. To the right, there are sections for 'IP Products' (with a search bar and links for Analog IP Selector, Memory & Logic IP Selector, and My Site IP) and 'SpyGlass Release Information' (with a 'Read Now' link). Another section mentions '2014.12 Release Requires Installer 3.2' with a 'Download Now' link. At the bottom right, there is a link for 'CODE V, LightTools, RSoft.'

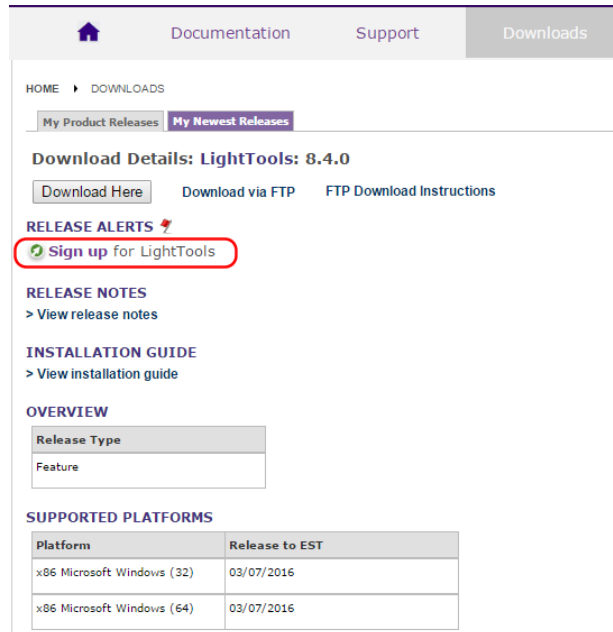
4. Select the product you want to download.

This screenshot is similar to the previous one, but the 'LightTools' link in the 'My Product Releases' list is circled in red, indicating it has been selected.

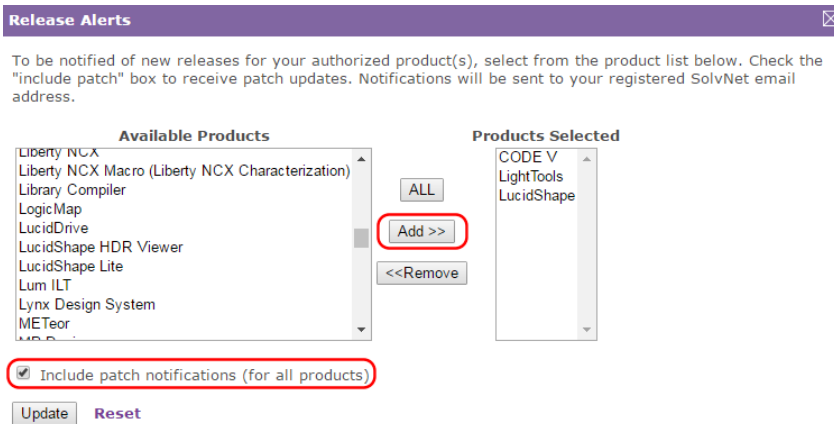
5. Select the version you would like to download.

This screenshot shows the version selection page for LightTools. The 'LightTools' link from the previous page is highlighted. Below it, the text says 'Choose your version number from the list below.' followed by a list of version numbers: 8.4.0, 8.3.0-1, 8.3.0, and 8.2.0.

The **Downloads** page is displayed.



6. Click the **Release Alerts** link to display a **Release Alerts** options that allow you to subscribe to Release Notification emails from SolvNet. These emails let you know when a new version of CODE V is available for download.



- a. Click the product name for which you would like to receive notifications or click **ALL** to receive notifications for all products in the list.
- b. Click the **Add** button.
- c. Click the **Include patch notifications** check box. This allows you to receive notifications of CODE V service releases.
- d. Click the **Update** button.

You are returned to the **Downloads** page.

7. On the **Downloads** page, click **Download Here**.
8. On the Electronic Software Transfer (EST) page, click YES, I AGREE TO THE ABOVE TERMS to continue.
9. Click the **Download** button, shown in the following figure, to begin downloading the software.

- Floating license customers: if you are a system administrator setting up a floating license server, you can also click the **Download** button for the FloatingLM.exe to download the OSG Floating License Manager at this time. See *Installing CODE V with a Floating License* on page 7 for installation instructions.



Note: The FloatingLM.exe installs the new OSG Floating License Manager, which is provided as an optional upgrade and is compatible with LightTools and CODE V, as well as the LucidShape family of products. You can also continue to use the Sentinel RMS License Manager v. 8.6.1, which was available in previous releases and is compatible with LightTools and CODE V.

Synopsys Electronic Software Transfer(EST)

Product Listing:

Version:

HTTP may be used for downloads from the rev, rev_o, rev_a, ip, exp, la and auth directories.
[Explanation of EST directories](#)
 For downloads from the /pub directory use FTP connection <ftp.synopsys.com>

Action	File	Size
<input type="button" value="Download"/>	LightTools64840FCS.exe	File size : 1661 MB
<input type="button" value="Download"/>	LightTools840FCS.exe	File size : 1603 MB
<input type="button" value="Download"/>	README_LightTools_8.4.txt	File size : 2 KB
<input type="button" value="Download"/>	checksum_info.txt	File size : 228 Bytes

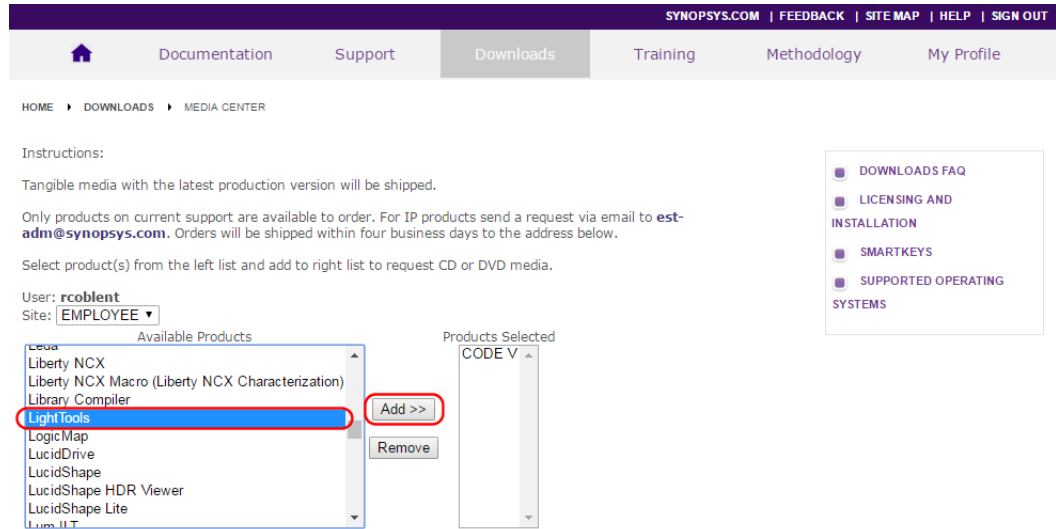
Ordering Media (CDs/DVDs)

If you unable to download software and would like to order media (CD or DVD) instead, you can do this directly on the Synopsys SolvNet website. Follow these steps to order media.

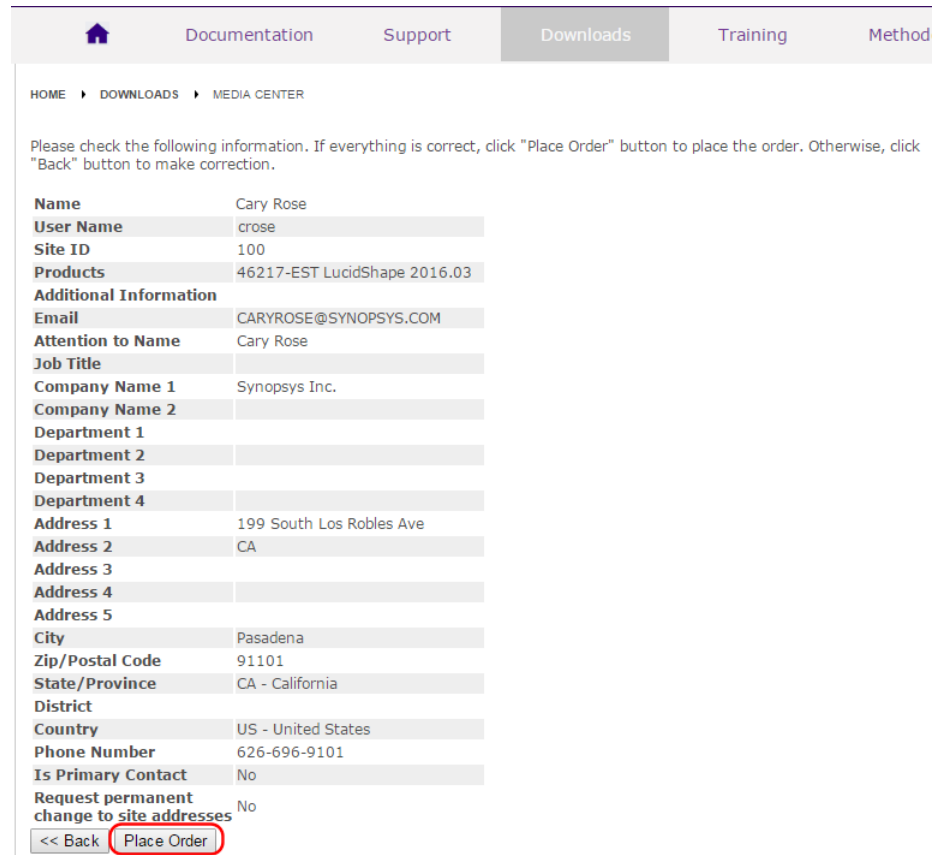
- Go to <https://solvnet.synopsys.com> and enter your User Name and Password to sign in.
- Click Downloads.
- Click the **MediaCenter** link in the lower right corner.

The screenshot shows the Synopsys SolvNet website interface. At the top, there is a navigation bar with links for Documentation, Support, Downloads, Training, Methodology, and My Profile. The 'Downloads' link is currently selected. Below the navigation bar, the page content is organized into several sections: 'My Product Releases' (listing LightTools, LucidDrive, LucidShape, etc.), 'IP Products' (listing Analog IP Selector, Memory & Logic IP Selector, etc.), and several informational boxes on the right side including 'SpyGlass Release Information', '2014.12 Release Requires Installer 3.2', 'CODE V, LightTools, RSoft, and LucidShape Users Customer Support', and 'Missing Product? Contact Us'. At the bottom right, there are two links: 'DOWNLOADS FAQ' and 'MEDIACENTER', with the latter being circled in red.

4. On the **Media Center** page, select the product (e.g., CODE V, LightTools, etc.) and click the **Add** button.



5. Complete the Shipping Address information and click **Continue**.
6. Review the shipping request, shown in the following figure, and click **Place Order**.



Installing CODE V

Instructions for installing CODE V software and license keys are provided in the following chapters:

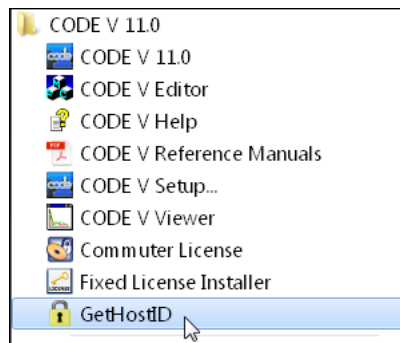
- *Getting Started* on page 1 - lists CODE V system requirements and tells you how to contact CODE V Support.
- *Installing CODE V with a Fixed License* on page 3 - With a fixed license, you install the product, the license dongle, and the license key on the computer where you want to run CODE V.
- *Installing CODE V with a Floating License* on page 7 - With a floating license, you install the license dongle and license key on a network server and the product on one or more client machines where you want run CODE V; you also install the OSG Floating License Manager on the network server to manage the licenses.

After you install the CODE V product, continue with *Retrieving License Keys* on page 35.

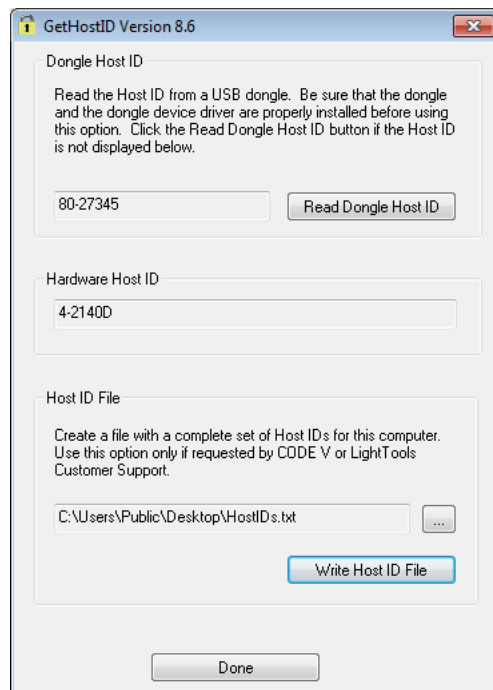
Obtaining the Host ID for a License Dongle

A license key is designed to work for only one USB dongle, so the license key is associated with a unique value encoded on the dongle called a *Host ID*. Because of this, you need to know the Host ID for the license dongle before you can retrieve a license key. The Host ID is printed on a label on the USB dongle; if you're unable to read the ID on the label, you can also obtain the Host ID by running a program that reads it from the dongle. In the CODE V installation, the GetHostID utility is provided for this purpose. Follow these steps to run GetHostID.

1. Insert the USB dongle in the USB port.
2. Select the Windows Start menu, expand the CODE V group, and select GetHostID, shown in the following figure.



The GetHostID utility is displayed, as shown in the following figure. In this example, the Host ID for the USB dongle is **80-27345**.



3. Copy the Host ID and go on to *Retrieving License Keys* on page 35.

Retrieving License Keys

A license key is a file containing licensing information for your specific USB dongle. You can obtain license keys using the SmartKeys web page on the Synopsys SolvNet website. Follow these steps to obtain your license keys.

1. Navigate to the SmartKeys page on SolvNet.

You can go to SmartKeys directly using this link: <https://solvnet.synopsys.com/SmartKeys>, or you can navigate there from the SolvNet Downloads page by clicking the **SmartKeys** link in the lower right corner.

The screenshot shows the Synopsys SolvNet website. At the top, there is a search bar and navigation links for SYNOPSYS.COM, FEEDBACK, SITE MAP, HELP, and SIGN OUT. Below this is a main navigation bar with links for Documentation, Support, Downloads, Training, Methodology, and My Profile. The 'Downloads' link is active. The page content includes sections for 'My Product Releases' (listing LucidDrive, LucidShape, LucidShape HDR Viewer, and LucidShape Lite), 'IP Products' (listing Analog IP Selector, Memory & Logic IP Selector, and My Site IP), and 'SpyGlass Release Information'. On the right side, there are links for 'Synopsys Test Case Packager', 'CODE V, LightTools, RSoft, and LucidShape Users', and 'Missing Product?'. At the bottom right, a vertical menu lists various support topics, with 'SMARTKEYS' highlighted by a red box.

2. On the SolvNet SmartKeys home page, click the **Key Retrieval** link.

The screenshot shows the Synopsys SolvNet SmartKeys home page. The page is personalized for Cary Rose, who last visited on October 19, 2016 at 4:10 PM PST. The main content area features a 'Key Retrieval' section with a description: 'This function enables license key retrieval of unexpired keys for all Host IDs tied to a specific Site ID.' Below this is a 'Monthly TSL Key Redemption' section with a description: 'This function enables redemption of pre-purchased license "tokens". You must provide your Site ID, Host ID, token start date and the number of tokens you wish to redeem.' In the left sidebar, the 'Key Retrieval' link is highlighted with a red box.

The SmartKeys Key Retrieval page is displayed.

You can retrieve a license key for a single USB dongle, or you can retrieve license keys for all Host IDs at your company.

3. To obtain a license key for a single USB dongle, enter the Host ID of your CODE V USB dongle in the Host ID (Optional) field. If you do not know the Host ID value for your USB dongle, see *Obtaining the Host ID for a License Dongle* on page 33.

To obtain license keys for all products and all Host IDs at your company, leave the Host ID (Optional) field blank and go on to step 4.

4. Click **Retrieve Licenses**, shown in the following figure.

The screenshot shows the Synopsys SolvNet SmartKeys interface. The main heading is "Key Retrieval". Below the heading, there are two paragraphs of text: "Site ID – Retrieve keys for site IDs for which you are registered. Multiple site IDs may be selected using the Ctrl or Shift key. You may register for additional site IDs by updating your SolvNet profile." and "Host ID (optional) – Retrieve a key for a specific host ID. CODE V & LightTools Users: Click here for information on obtaining the host ID." Below the text is a form with the following fields: "KEY RETRIEVAL" (a dropdown menu), "Site ID *" (a dropdown menu with "26674 - Synopsys ..." selected), "Site ID (Override)" (an empty text input), "Host ID (Optional)" (an empty text input), and "Attachment Option *" (a dropdown menu with "Text Format" selected). Below the form, there is a note: "* represents mandatory field". At the bottom of the form, there are three buttons: "Back", "Retrieve Licenses" (highlighted with a red box), and "Reset Help".

Your CODE V license key will be delivered as a text file attached to an email from the SmartKeys system. If you did not enter a Host ID in step 3, you will receive a separate email with a single license key attached for each Host ID at your company. The email will include the Host ID for which the license key is valid.

5. Save the license key to a convenient location on your computer. You need to access this file to activate CODE V.
6. See one of the following procedures for instructions on installing the license key to activate your CODE V product.
 - *Installing a License Key File for a Fixed License* on page 5
 - *Installing the License Key for a Floating License* on page 17

Appendix B Troubleshooting the CODE V Network License Installation

If problems arise with CODE V security, a **License Manager Error** dialog box displays an error message. Below are a few common security errors with their causes and resolutions. If you are unable to correct the problem, please contact CODE V Support (codev_support@synopsys.com).

Problem Adding License Keys to the License Server

Problem: Sentinel: Error [19]: Failed to add license code...

Cause: This general error message indicates that the license keys were not applied successfully in the license manager. This can occur if the file where the keys are being read is corrupted. However, this error can also occur if license keys that have already been successfully entered are entered a second time.

Solution: Verify that the license file contains license keys for the current version of CODE V being installed, and not for an earlier version (the version number is listed in the comments of the license file received from Synopsys). Also verify that the license file has not become corrupted. This might occur if the license file has been edited (that is, lines containing license keys are changed or become line wrapped incorrectly).

Problems Starting CODE V

Problem: Error #18b - No valid license code for version x.xx found.

Cause: There has not been a valid license key entered for this version of CODE V.

Solution: See “Installing the License Key for a Floating License” on page 17 for instructions on installing license keys.

Problem: Error #0xC800100D - License code for version x.xx has expired.

Cause: The license key for CODE V has expired, or the PC date is before the start date of the license.

Solution: Verify that the date on the computer is correct. Install the license key for this version of CODE V on the license manager machine according to the instructions in “Installing the License Key for a Floating License” on page 17. If a new license key is needed, contact CODE V Customer Service.

Problem: Error #8001008 - License manager is not responding. Verify license manager host is available and license manager process is running.

Cause: The Sentinel Floating License Manager program has been disabled.

Solution: Restart the license manager program. To do this: On the PC where the license server is installed, open the Control Panel (select **Start > Settings > Control Panel**), select **Administrative Tools** and then **Services**. Locate and right-click on **Sentinel** in the dialog box, and select the **Start** option on the pop-up menu.

Cause: The license manager machine is unavailable.

Solution: Solution: Verify that the license manager machine is available on the network.

Cause: The ORA_LSHOST environment variable is not set or is incorrectly set.

Solution: Check to make sure the license server name is correct by choosing the **File > License Manager** menu in CODE V. If the license server name is incorrect, modify it. See “Modifying License Options” on page 19 for instructions.

Problem: **An unexpected licensing error has occurred.**

Cause: An error has occurred with the license manager. The **License Manager Error** dialog box will contain more specific information about the problem, which is provided by the Sentinel Floating License Manager program. If you are still having difficulties identifying the problem, contact CODE V Customer Service for guidance.

Appendix C Synopsys® Free and Open-Source Licensing Notices for CODE V Products

Document Overview

This document includes licensing information relating to free and open-source software ("FOSS") included with Synopsys's® CODE V® products (the "SOFTWARE"). The terms of the applicable FOSS license(s) govern Synopsys's® distribution and your use of the SOFTWARE. Synopsys® and the third-party authors, licensors, and distributors of the SOFTWARE disclaim all warranties and all liability arising from any and all use and distribution of the SOFTWARE. To the extent the FOSS is provided under an agreement with Synopsys® that differs from the applicable FOSS license(s), those terms are offered by Synopsys® alone.

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Synopsys
Attn: Open Source Requests
700 East Middlefield Road
Mountain View, CA 94043

Please provide the following information in all submitted FOSS requests:

- the FOSS packages for which you are requesting source code;
- the Synopsys® product (and any available version information) with which the requested FOSS packages are distributed;
- an email address at which Synopsys® may contact you regarding the request (if available); and
- the postal address for delivery of the requested source code.

FOSS Package Notices

Libpng 1.6.3

Project homepage: <http://libpng.org>

Project license: <http://libpng.org/pub/png/src/libpng-LICENSE.txt>

This copy of the libpng notices is provided for your convenience. In case of any discrepancy between this copy and the notices in the file png.h that is included in the libpng distribution, the latter shall prevail.

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE:

If you modify libpng you may insert additional notices immediately following this sentence.

This code is released under the libpng license.

libpng versions 1.2.6, August 15, 2004, through 1.6.3, July 18, 2013, are Copyright (c) 2004, 2006-2013 Glenn Randers-Pehrson, and are distributed according to the same disclaimer and license as libpng-1.2.5 with the following individual added to the list of Contributing Authors

Cosmin Truta

libpng versions 1.0.7, July 1, 2000, through 1.2.5 - October 3, 2002, are Copyright (c) 2000-2002 Glenn Randers-Pehrson, and are distributed according to the same disclaimer and license as libpng-1.0.6 with the following individuals added to the list of Contributing Authors

Simon-Pierre Cadieux Eric S. Raymond Gilles Vollant

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libpng versions 0.89, June 1996, through 0.96, May 1997, are Copyright (c) 1996, 1997 Andreas Dilger Distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors:

John Bowler Kevin Bracey Sam Bushell Magnus Holmgren Greg Roelofs Tom Tanner

libpng versions 0.5, May 1995, through 0.88, January 1996, are Copyright (c) 1995, 1996 Guy Eric Schalnat, Group 42, Inc.

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Andreas Dilger Dave Martindale Guy Eric Schalnat Paul Schmidt Tim Wegner

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1. The origin of this source code must not be misrepresented.
2. Altered versions must be plainly marked as such and must not be misrepresented as being the original source.
3. This Copyright notice may not be removed or altered from any source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without fee, and encourage the use of this source code as a component to supporting the PNG file format in commercial products. If you use this source code in a product, acknowledgment is not required but would be appreciated.

A "png_get_copyright" function is available, for convenient use in "about" boxes and the like:

```
printf("%s",png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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Glenn Randers-Pehrson glennrp at users.sourceforge.net July 18, 2013

HDF5 1.8.11

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AutoIt 3.3.14

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