CODE V Installation Guide

for Fixed and Floating Licensing (OSG Floating License Manager)

March 2021

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Chapter 1 Getting Started

This chapter links to CODE V system requirements, describes the CODE V license types, and tells you how to contact CODE V Support.

System Requirements

Current hardware and system requirements for computers that will run CODE V can be found online:

https://www.synopsys.com/optical-solutions/codev/hw-systems.html

About Fixed and Floating License

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 (see *Installing CODE V with a Fixed License* on page 3). 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 (see *Installing CODE V with a Floating License* on page 9). The number of users that can use CODE V concurrently is limited to a predetermined number by the license management software.

Where You Get Your Installation Files

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.

What You Need for Fixed License Installation

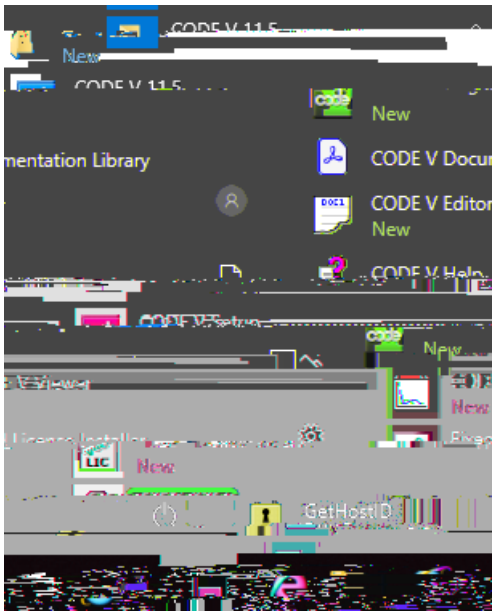
Fixed licenses are standalone software copies to be used on one computer only. You will need the following to run CODE V on a fixed-license system:

- USB Dongle– the dongle comes with a label that shows its Host ID.
- License Key File– a license key file that corresponds to

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*. Before you can request a license key you must know the Host ID for the license dongle. The Host ID is printed on a label on the USB dongle. You can also obtain the Host ID by running GetHostID, which reads it from the dongle. If you need to provide your Host ID to Customer Support or Sales, the recommended method is to use GetHostID to generate a file that you can send. Follow these steps to run the GetHostID utility.

1. Insert the USB dongle in an active USB port. The beacon on the dongle should be illuminated. If not, try connecting it to a different USB port.
2. Click the Windows Start button and select CODE V > GetHostID.



In the following figure, the GetHostID utility displays two lines under the Read Dongle Host ID button, which indicates that two USB dongles are active on this computer. (Older dongles may display on the same line a short, eight character Host ID to the left of a longer Host ID. In that case, either the short or long code may be used to request your license key file on the Synopsys SolvNetPlus website.)

.

If the box is empty, click the Read Dongle Host ID button. If the box remains empty, check the dongle to see whether the LED on it is lit. Light indicates that the dongle has been plugged-in properly. If the LED is not lit, check the connection or try inserting the dongle into a different USB port.

3. To create a HostIDs text file (.TXT) that you can send to Customer Support or Sales, in the GetHostID dialog box click Write Host ID File and then click OK. (If you cannot send the Host IDs file, open the file, copy the contents of the file and paste it into an email message that you send to Customer Support or Sales.)
4. To copy the Host ID, select the Host ID, right-click and then click Copy. You can then paste the Host ID into your desired destination.
5. Click Done to close the GetHostID utility.
6. Continue with “Retrieving License Keys” on page 34 for instructions on retrieving your license key file from the Synopsys SolvNetPlus website. After you have your license key, go to “Installing a License Key File for a Fixed License” on page 7.

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 (see “Installing CODE V” on page 3) and that you haveo
(“Retrieving License Keys” on page 34).

Follow these steps to installo License key file.

1. Insert the USB dongle in an active USB port.
2. To installo 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.

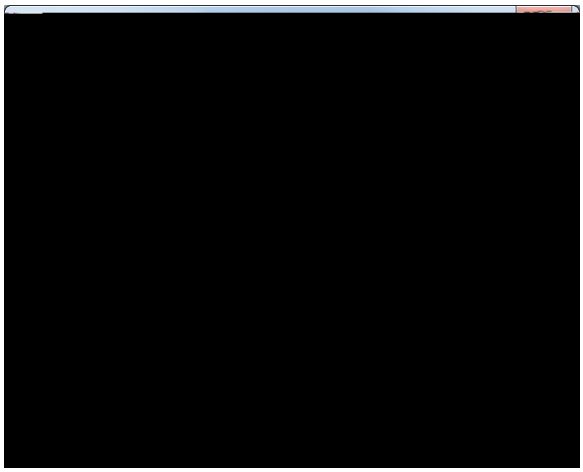
5. (Optional) The Start Application After Installing License File is selected by default. You can clear the check box, if desired.
6. Click Install.

   The license key file is installed. If the Start Application After Installing License File check box was selected, CODE V starts automatically.

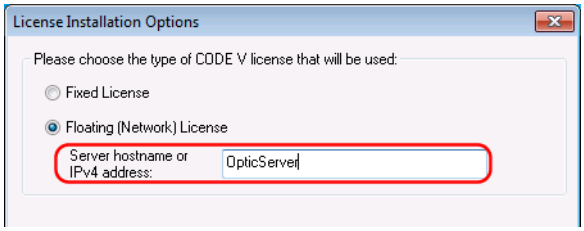
Modifying License Options

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

1. Search for and open Add or Remove Programs
2. In Programs and Features, click the CODE V version you want to modify and then click Uninstall.
3. When Windows asks if you want to uninstall, click Uninstall.
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 CODE V so that a set of CODE V floating licenses can be shared by a group of computers on the same network. The number of users that can use CODE V concurrently is limited to a predetermined number by the licensing software. A single user can open up to eight concurrent CODE V sessions per floating license per computer. If a user opens more than eight concurrent CODE V sessions on the same computer, an additional floating license will be used (if available). Note that all instructions are for the Microsoft Windows operating system.

The floating license capability requires an 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.

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

1. “Selecting a License Server” on page 10
2. “Installing the OSG Floating License Manager on the License Server” on page 10

CODE V Client

- CODE V – You need a copy of CODE V installation files. Note that the license key file is needed only on the license server; no license key file is needed on client computers.
- Server Host Name

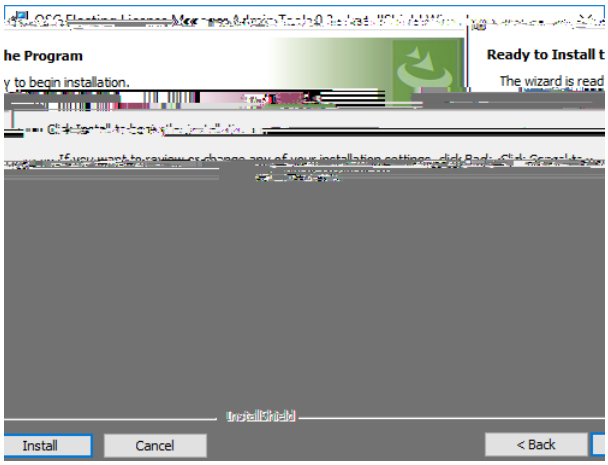
The WinZip Self-Extractor for the OSG Floating License Manager installation is displayed.

5. Click Setup.

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

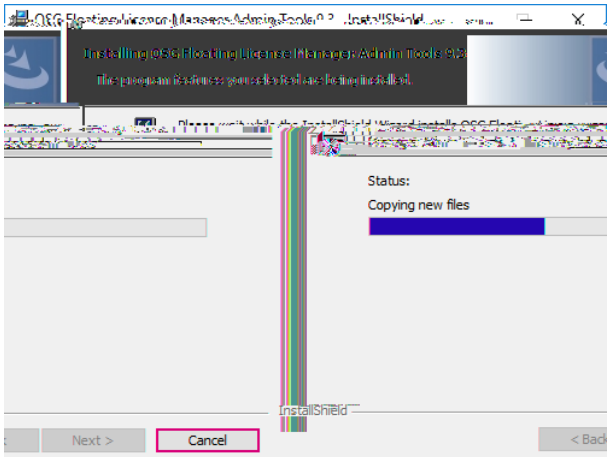
6. Click Next.

The Ready to Install screen is displayed.



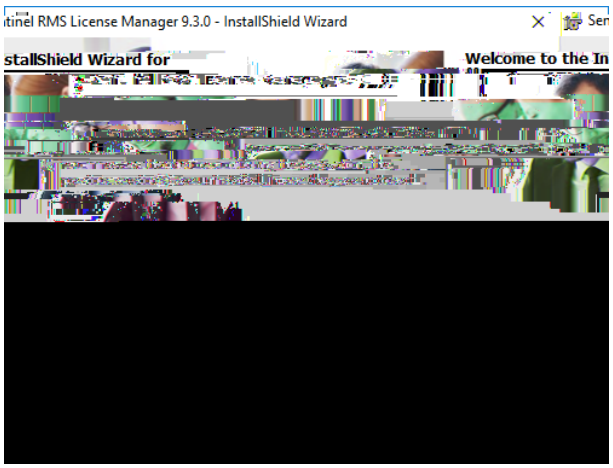
8. Click Install.

   The progress screen is displayed while the software is installed.



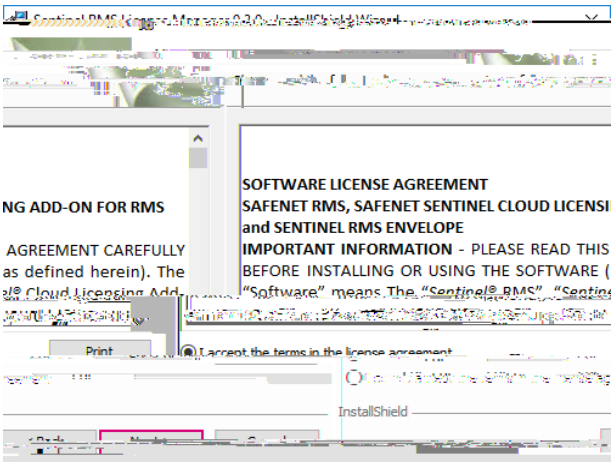
9. Accept the default settings for all options.

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



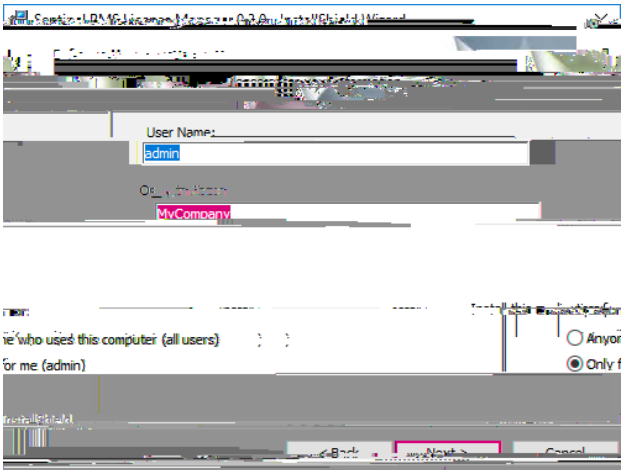
10. Click Next.

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



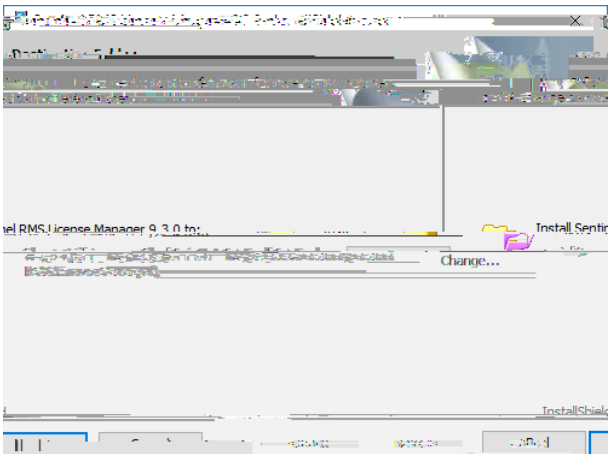
11. Click the I Accept option and then click Next to continue.

    The Customer Information dialog box is displayed.



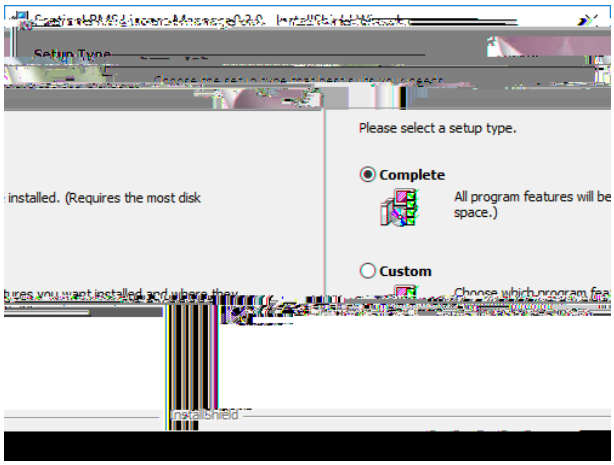
12. Click Next to accept the defaults and continue.

The Destination Folder screen is displayed.



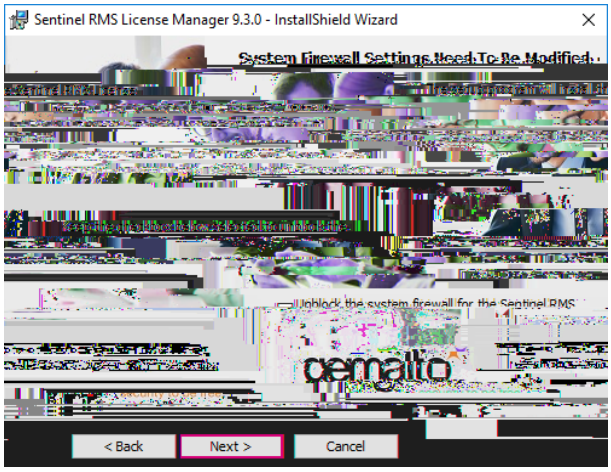
13. Click Next to accept the default and continue.

    The Setup Type screen is displayed.



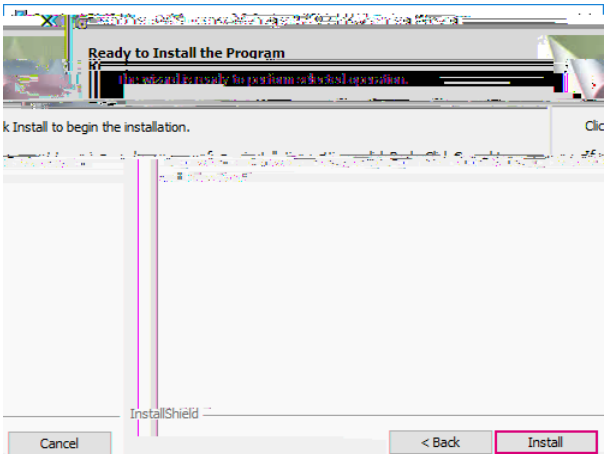
14. Click Next to accept Complete (recommended) and continue.

The System Firewall Settings screen is displayed. Do not clear the check box; it must remain selected so that the Sentinel RMS Floating License Manager can add inbound rules for the executable (lservnt.exe). If you clear this setting CODE V will not be able to obtain the license needed to run.



15. Click Next.

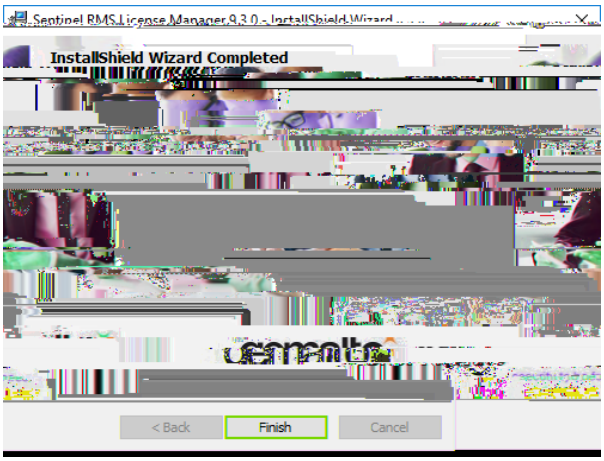
    The Ready to Install screen is displayed.



16. Click Install.

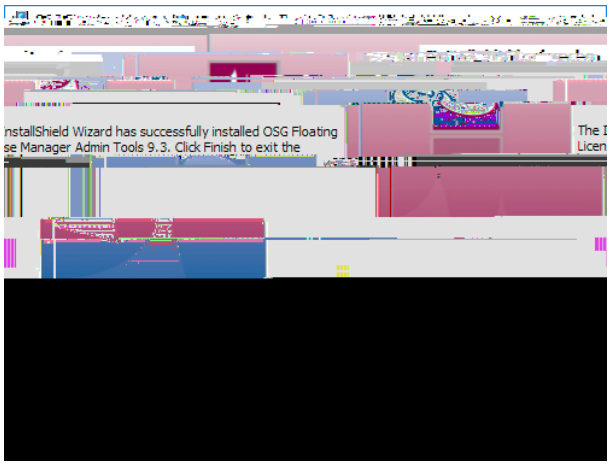
    The progress screen is displayed while the software is installed.

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



17. Click Finish.

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



18. Click Finish.

    The installation is complete.

19. Reboot your computer if prompted to do so.

    If you already have a CODE V license key file, skip to *Installing the License Key for a Floating License* on page 18. If you do not yet have a license key file, continue with *Obtaining the Host ID for a License Dongle on the License Server* on page 17.

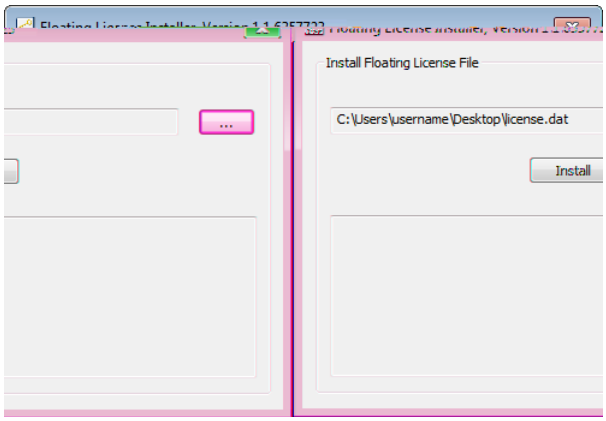
Obtaining the Host ID for a License Dongle on the License Server

3. To create a HostIDs text file that you can

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

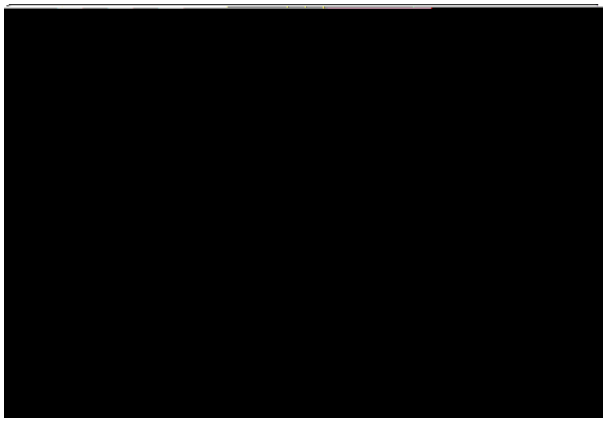
3. Click the Browse button ... .
4. In the Open dialog box, navigate to the license key file, select it, and click Open.

   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.



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

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

Reserving Availability of CODE V Licenses Using 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 use Sentinel License Manager to reserve the number of licenses available to a group (using license *tokens*) and to allow or deny access to users who are members of a group.

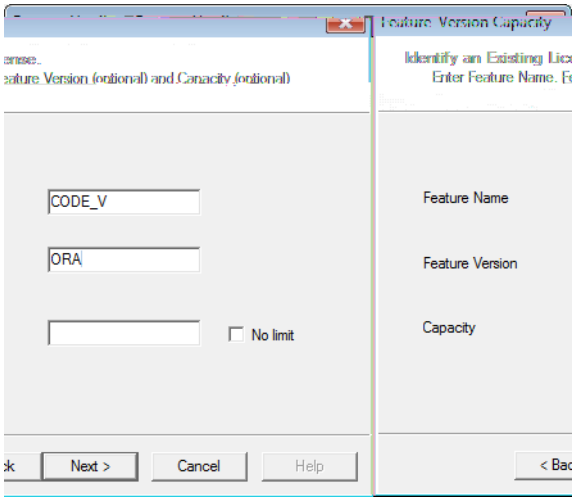
Before using the Sentinel License Manager, consider how you want to organize your groups, as there are many ways to do so. Remembering the following points will help you to decide how to organize your groups:

- Any license not specifically reserved can be used by anyone on your server.
- After you create a group, you can specify the status of individual members as *Included* (access allowed) or *Excluded* (access denied).
- A user should be assigned as a member of only one group.
- You can exclude all members of a group from using licenses by specifying 0 licenses for that group.
- If the total number of license tokens reserved exceeds the number of concurrent copies of CODE V for which you have licenses (as defined in your license file) then the license file number will be used.

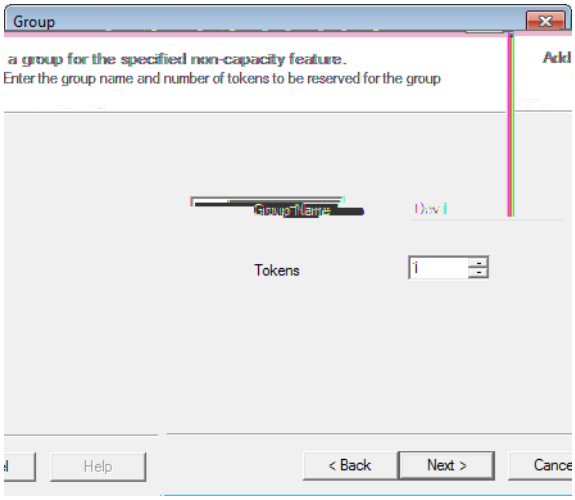
For example:

- To organize by department, enter each department in your organization as a separate group, assign the appropriate 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.
- To organize by priority, create one group for preferred users and one group for everyone else. In the preferred user group, designate all members as Included and assign as many licenses as you can allow. For the 0 TD.0017 t9r215 e1u. license fi

5. For Feature Name, enter CODE_V (upper case CODE, underscore, upper case V).



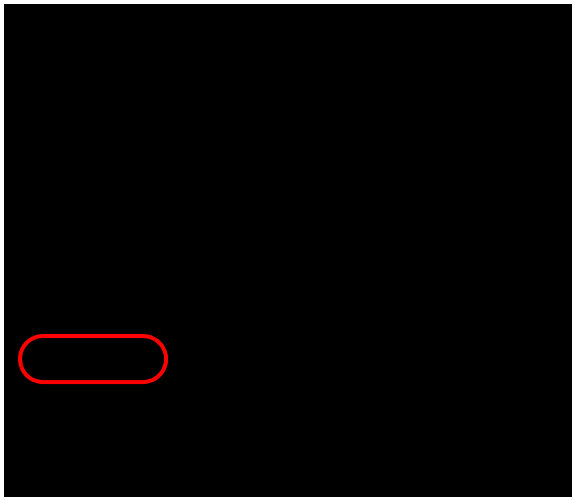
6. For Feature Version, enter ORA (upper case).
7. Click Next to open the *Group* window.
8. Follow these steps to establish a user group:
   a. Enter a name of your choosing that identifies the user group for whom you want to allow or deny access. The name cannot exceed 64 characters.



   b. In the *Tokens* field, enter the number of licenses to reserve for that group.
   c. Click Next to open the *Members* window.

9. Follow these steps to add members to the group. Add both 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 Memberfield, enter the member's network user name. The name cannot exceed 64 characters. (Note that for CODE V, members can be defined only by user name.)

   c. Select User.

   d. Click Included for members who are allowed access and Excluded for members who are denied access.

   e. Click OK.

   f. Repeat the process to add each user in the group.

Appendix A Using SolvNetPlus to Obtain CODE V Software and Licenses

Software and license keys for CODE V are available for download from the Synopsys SolvNetPlus 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.

Special terms used in these instructions are explained in *Glossary* on page 39.

The process is described in the following procedures.

1. *Signing Up for a SolvNetPlus Account* on page 28
2. *Downloading CODE V Software from SolvNetPlus* on page 29

   or

   Ordering Media (CDs/DVDs) on page 32
3. *Installing CODE V* on page 33
4. *Obtaining the Host ID for a License Dongle* on page 34
5. *Retrieving License Keys* on page 34

Signing Up for a SolvNetPlus Account

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

1. Go to https://solvnetplus.synopsys.com and click REGISTER - CREATE ACCOUNT .

2. Follow the instructions for self registration.

   SolvNetPlus will send a verification code to the e-mail address you specified. You must provide this code to continue with registration.

   During the registration process, you will need to enter your company's Site ID. If you do not know

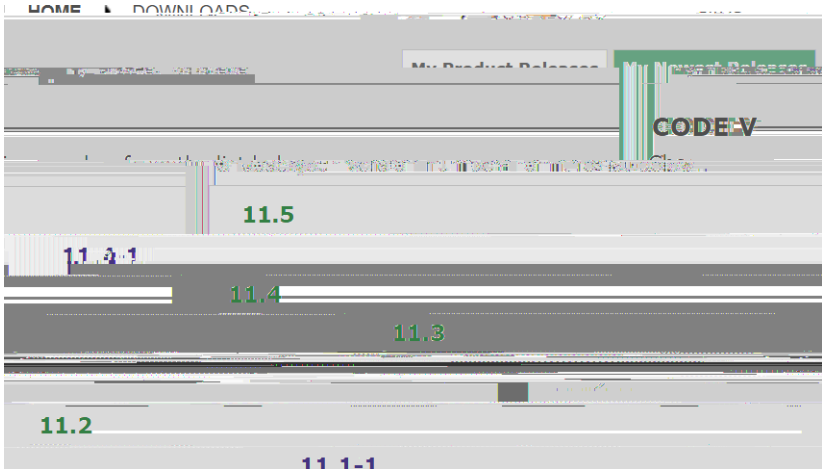
Downloading CODE V Software from SolvNetPlus

Follow these steps to download the CODE V product. If you unable to download software, you can order a CD or DVD instead. See *Ordering Media (CDs/DVDs)* on page 32 for instructions.

1. Go to https://solvnetplus.synopsys.com and enter your User Name and Password to sign in.
2. In SolvNetPlus, click Downloads

   All Synopsys products currently licensed at your company will be listed.
3. Select the product that you want to download.

4. Select the version you would like to download.



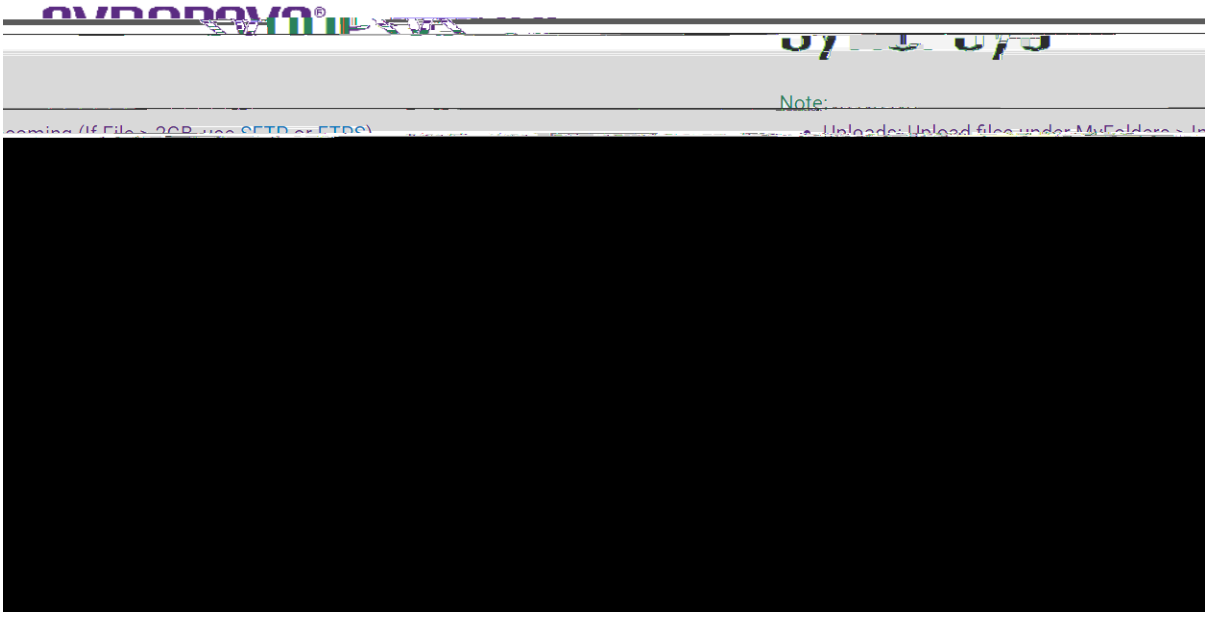
The Download Details are displayed.

5. In Download Details under Release Alerts, click the Sign up link to display Release Alerts options that allow you to subscribe to Release Notification emails from SolvNetPlus. 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 Download Details page.
6. On the Downloads Details page, click Download Here to download from your browser or read and follow the instructions for the other download choices.
7. On the Notice page, read the notice and then click Agree and Sign In to continue.

8. From the list of available files, click the name of the file and then use your browser to open or save the file.



The following files are available for CODE V 11.5. If you selected a different version of CODE V in step 4, the files names displayed will be different but will have similar names.

- checksum_info.txt is a file used for internal purposes.
- CODEV115FCS.exe is the installation file for CODE V.
- FloatingLM.exe is for floating license customers. Only the system administrator who will set up a floating license server needs to download this file. See *Installing CODE V with a Floating License* on page 9 for installation instructions.
- README_CV115FCS.txt states whether the selected release requires a new license key file and describes the key new features.

Next steps:

- If you need to obtain a license key, see *Retrieving License Keys* on page 34.
- If you already have a license key, see *Installing CODE V with a Fixed License* on page 3 or *Installing CODE V with a Floating License* on page 9.

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 SolvNetPlus website. Follow these steps to order media.

1. Go to https://solvnetplus.synopsys.com and enter your User Name and Password to sign in.
2. Click the Downloadstile.
3. Click the MediaCenter link.

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.

4. Click Retrieve

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 an 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 18 for instructions on installing license keys.

Problem: **Error #18b(13) - The Floating License manager is out of date.**

Cause: The CODE V version running on this computer is not supported by the Floating License Manager running on the license server specified in File > License Manager on the Info tab in the License Server box. (To support the latest client version, the administrator must update the Floating License Manager software on the license server tog.-6(cd0053 T2(cpey)-5.loabey)-5.lise w6-5.5(hby th)

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 18. 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: Cause:

Glossary

Client (machine)	The client, or client machine, is a computer that has CODE V installed on it, and is configured to use floating licenses (not fixed licenses).
Floating license server (machine)	The computer onto which the license server software is installed. This computer will serve licenses to client machines upon request. The application itself need not be installed on the license server machine.

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