cadence®

Cadence SPB/OrCAD 16.5 Release Installation Guide for Windows

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Part I - Getting Started

The chapters in this sections gives a brief overview of installation and describes the various requirements and options.

- Installation Overview
- Knowing Requirements and Options

Installation Overview

You can use the SPB/OrCAD installer to install products, incrementally add new products, maintain an existing installation, install remote client, and install libraries. This chapter gives an overview of the installation process and points you to the relevant chapters for detailed information.

Important

To support the additional security measures that Microsoft has added in Windows Vista and Windows 7, SPB 16.5 has changed the way it is installed and managed to be compatible with Windows UAC (User Access Control) restrictions. See UAC (User Access Control) Scenarios on page 12. Note that in order to install the Cadence products, you must be logged on as a user with administrative privileges.

This chapter discusses the following topics:

- Installation Options for Cadence Products: Overview of setups and configurations while installing
- Installing the License Manager: Overview of License Manager installation
- Installing Products: Overview of performing a complete installation for all products and installing a specific set of products using customized installation
- Maintaining Existing Installations: Overview of installing additional products to an already installed hierarchy or to repair an existing hierarchy
- Installing Allegro Design Entry HDL - AMS Libraries: Overview of installing Allegro Design Entry HDL-AMS Libraries
- Uninstalling License Manager, Products, and Libraries: Overview of method to remove Cadence installations

Installation Options for Cadence Products

You can install the Cadence Products using several types of software setups and licensing configurations, depending on whether you use the products on a standalone computer or over a network.

Typical setups are:

- Install the products and License Manager locally. Use this configuration for standalone computers.
- Install the Cadence SPB/OrCAD products locally and use a remote license server. Use this configuration on a managed network, where the system administrator maintains a centralized license server for all users on the system.
- Set up a local machine to use a centrally installed version of the Cadence SPB/OrCAD products and License Manager on a remote system.

The following table maps these types of installs to relevant sections of this guide.

Installation Type	Relevant Sections
License Manager and Cadence SPB/OrCAD Products installed locally	Installing License Manager Installing the Products
Accessing Cadence SPB/OrCAD Products installed in current user mode by another user	Configuring an Installation
License installed on License Server and Cadence SPB/OrCAD Products installed locally	Installing the Products
Local machine setup to access Cadence SPB/OrCAD products installed on a remote system	Installing Client on a Remote Computer
Library installation	Installing Allegro Design Entry HDL - Allegro AMS Symbol Library

Note: If you already have the FLEXnet version 10.8.9 or a later version of the Cadence License Manager installed, you do not need to install it again.

UAC (User Access Control) Scenarios

Unlike older SPB releases, where Cadence software required UAC to be disabled, 16.5 supports running under the Windows UAC environment.

Note: Cadence recommends that software be installed for current user as it impacts:

- ❑ Running older Cadence releases such as SPB16.3
- ❑ Sharing the same computer by multiple users

Important

In order to install the Cadence products, you must be logged on as a user with administrative privileges.

Since you might want to run older SPB releases after installing 16.5, you need to understand how UAC support effects older Cadence SPB releases. For older SPB releases the following applies:

- 16.3 requires the latest ISR to support enabling of UAC. 16.3 sets the environment variables, required by Cadence products, at the system level.
- 16.2 and older versions require UAC to be disabled but Cadence environment variables can be set at current user level.

For all cases, when switching between releases you must always use the latest version of the switchversion program. For 16.5, you should always use the 16.5 version of this program to switch between releases.

Note: Cadence environment variable (PATH, CHD_LIB_INST_DIR and CDS_LIC_FILE) should only be present in either the current user or the system level. If you put them at both levels then the user level settings take precedence.

It is not possible to install SPB 16.5 products on the same system twice, even using different access types. However, you can install Cadence products and libraries with different access types. As a result, you have many combinations with different implications:

Note: To be able to access Cadence SPB/OrCAD products installed by another user using the current user (*Only for me*) mode, you must configure the installation by choosing *Cadence – Release 16.5 – Configure* from the *Start* menu. Refer to Configuring an Installation on page 59 for details.

- Same user installs product and library
  - ❑ With same access level

- With different access levels

- Different users install product and library
  - With same access level
  - With different access levels

Same user installs product and library

The same user can install products as well as library, with the same or different access levels, on a system. The different scenarios and outcome are described in the following table:

Note: It is suggested that product and library be installed using the same mode. For example, if product is installed for current user, library should also be installed for current user.

First Installation	Second Installation	Result
Product for **current user** CHD_LIB_INST_DIR is set in **user space** to product installation path.	Library for current user	Default library installation path is CHD_LIB_INST_DIR in user space. CHD_LIB_INST_DIR is updated for both user space and system space, if user changes library installation path.
	Library for all users	Default library installation path is CHD_LIB_INST_DIR in user space. CHD_LIB_INST_DIR is updated for both user space and system space, if user changes library installation path.

Product for all users CHD_LIB_INST_DIR is set in **system space** to product installation path.	Library for current user	Default library installation path is CHD_LIB_INST_DIR in user space. If variable not defined in user space, system space variable is default. CHD_LIB_INST_DIR is updated for both user space and system space, if user changes library installation path.
	Library for all users	Default library installation path is CHD_LIB_INST_DIR in user space. If variable not defined in user space, system space variable is default. CHD_LIB_INST_DIR is updated for both user space and system space, if user changes library installation path.
Library for current user CHD_LIB_INST_DIR is set in **both** system and user space to library installation path.	Products for current user	CHD_LIB_INST_DIR is set in **user space** to product installation path. *Caution* ***In this case, products will not find the installed libraries.***
	Products for all users	CHD_LIB_INST_DIR is set to library installation path in **user space** and to product installation path in **system space**.

Library for all users CHD_LIB_INST_DIR is set in **both** system and user space to library installation path.	Products for current user	`CHD_LIB_INST_DIR is set in` **user space** `to product installation path.` As a result, products will not find the installed libraries.
	Products for all users	`CHD_LIB_INST_DIR is set to library installation path in` **user space** `and to product installation path in` **system space**`.`

Different users install product and library

The users installing product and library can be different. In addition, the access level specified while installing product and library can be different. The different scenarios and outcome are described in the following table:

First Installation	Second Installation	Result
Product for current user CHD_LIB_INST_DIR is set in **user space** (of user installing product) to product installation path.	Library for current user	Default library installation path is CHD_LIB_INST_DIR in user space (for user installing library). If variable not defined in user space, system space variable is default. CHD_LIB_INST_DIR is updated for user space ((for user installing library) and system space if user changes library installation path. *Important* In this the products will not be able to use library. The user installing product need to delete the CHD_LIB_INST_DIR from the user space to be able to use the system space value.

Library for all users	Default library installation path is CHD_LIB_INST_DIR in user space (for user installing library). If variable not defined in user space, system space variable is default. CHD_LIB_INST_DIR is updated for user space ((for user installing library) and system space if user changes library installation path. *Important* In this the products will not be able to use library. The user installing product need to delete the CHD_LIB_INST_DIR from the user space to be able to use the system space value.

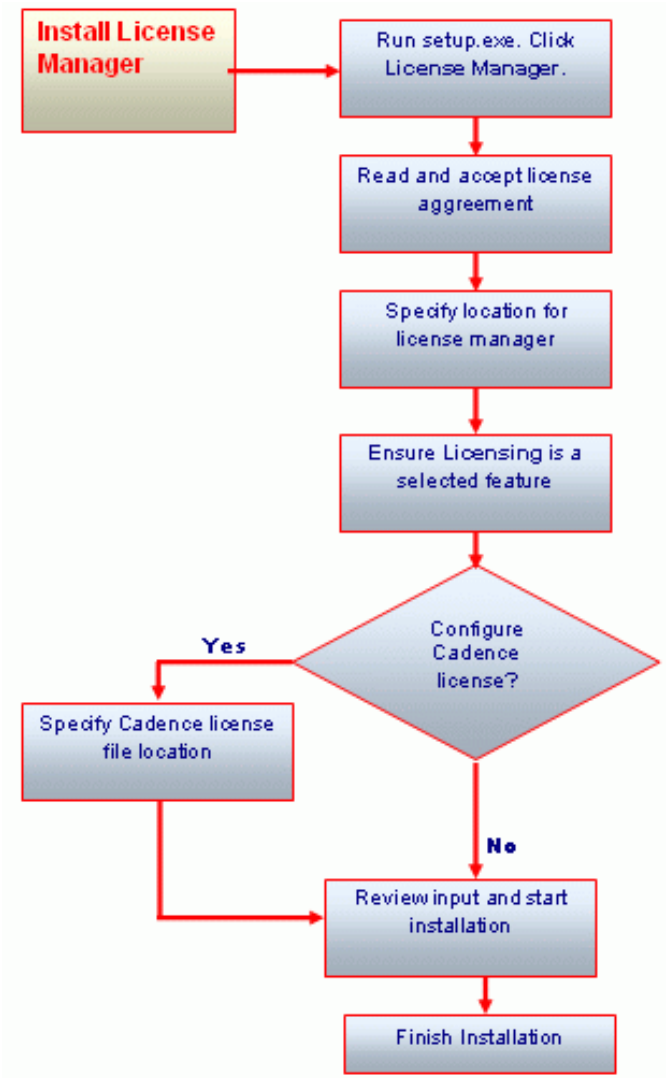
`Product for all users` `CHD_LIB_INST_DIR is set in` **system space** `to product installation path.`	Library for current user	Default library installation path is CHD_LIB_INST_DIR in user space (for user installing library). If variable not defined in user space, system space variable is default. CHD_LIB_INST_DIR is updated for user space (for user installing library) and system space, if user changes library installation path.
	Library for all users	Default library installation path is CHD_LIB_INST_DIR in user space (for user installing library). If variable not defined in user space, system space variable is default. CHD_LIB_INST_DIR is updated for user space (for user installing library) and system space, if user changes library installation path.
`Library for current user`	Products for current user	
	Products for all users	

`Library for all users`
 	
`CHD_LIB_INST_DIR is set in system and user space (for user installing library) to library installation path.`
	Products for current user	CHD_LIB_INST_DIR is set to different values in the user spaces of the user installing library and the user installing product. The system space variable point to the location of the library correctly.
		
		Important
		
		In this the products will not be able to use library. The user installing product need to delete the CHD_LIB_INST_DIR from the user space to be able to use the system space value.

	Products for all users	The system space CHD_LIB_INST_DIR is set to the product installation path. *Important* In this the products will not be able to use library. The user installing product need to change the CHD_LIB_INST_DIR from the system space to point to the library installation path.

Installing the License Manager

Note: This and following sections give overview of the interactive installation methods. The silent or unattended installation methods are discussed in Performing Silent Installations on page 65.



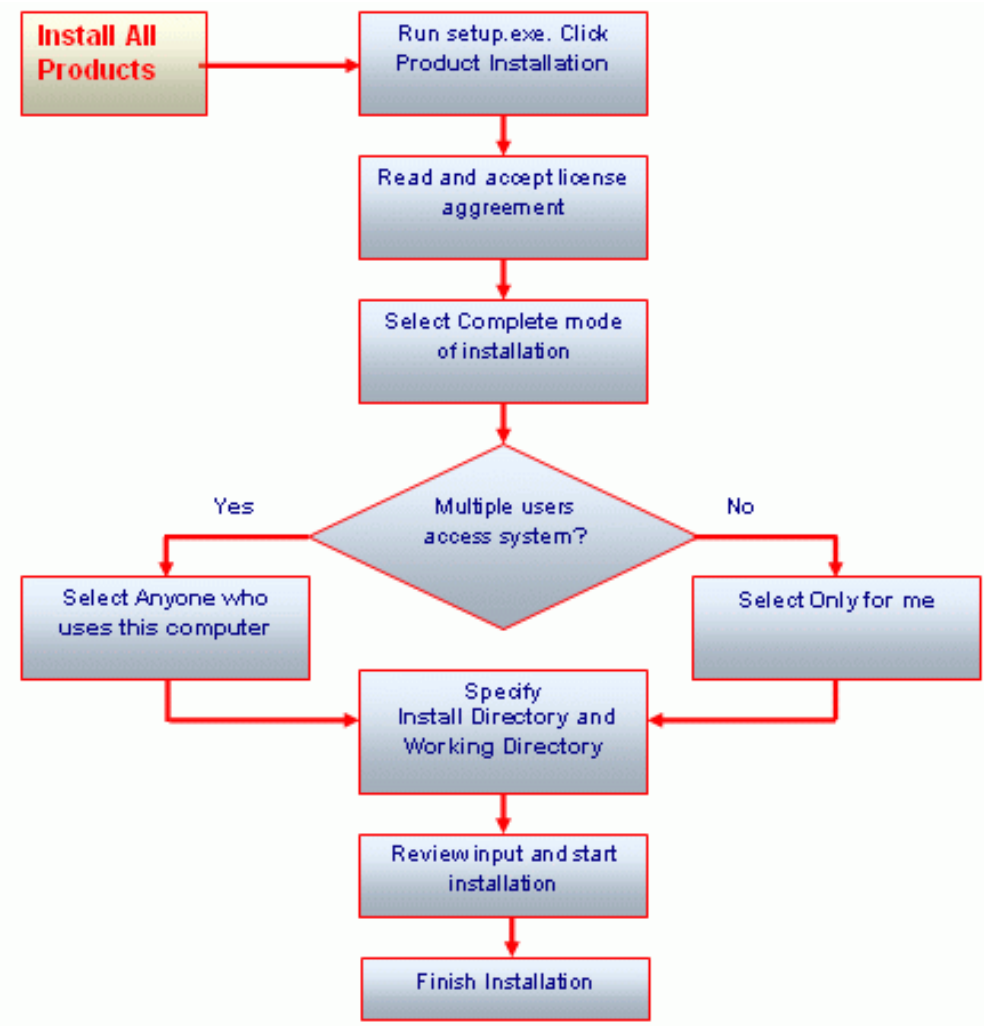
Note: Refer to Installing License Manager for more information about the license manager and its installation.

Installing Products

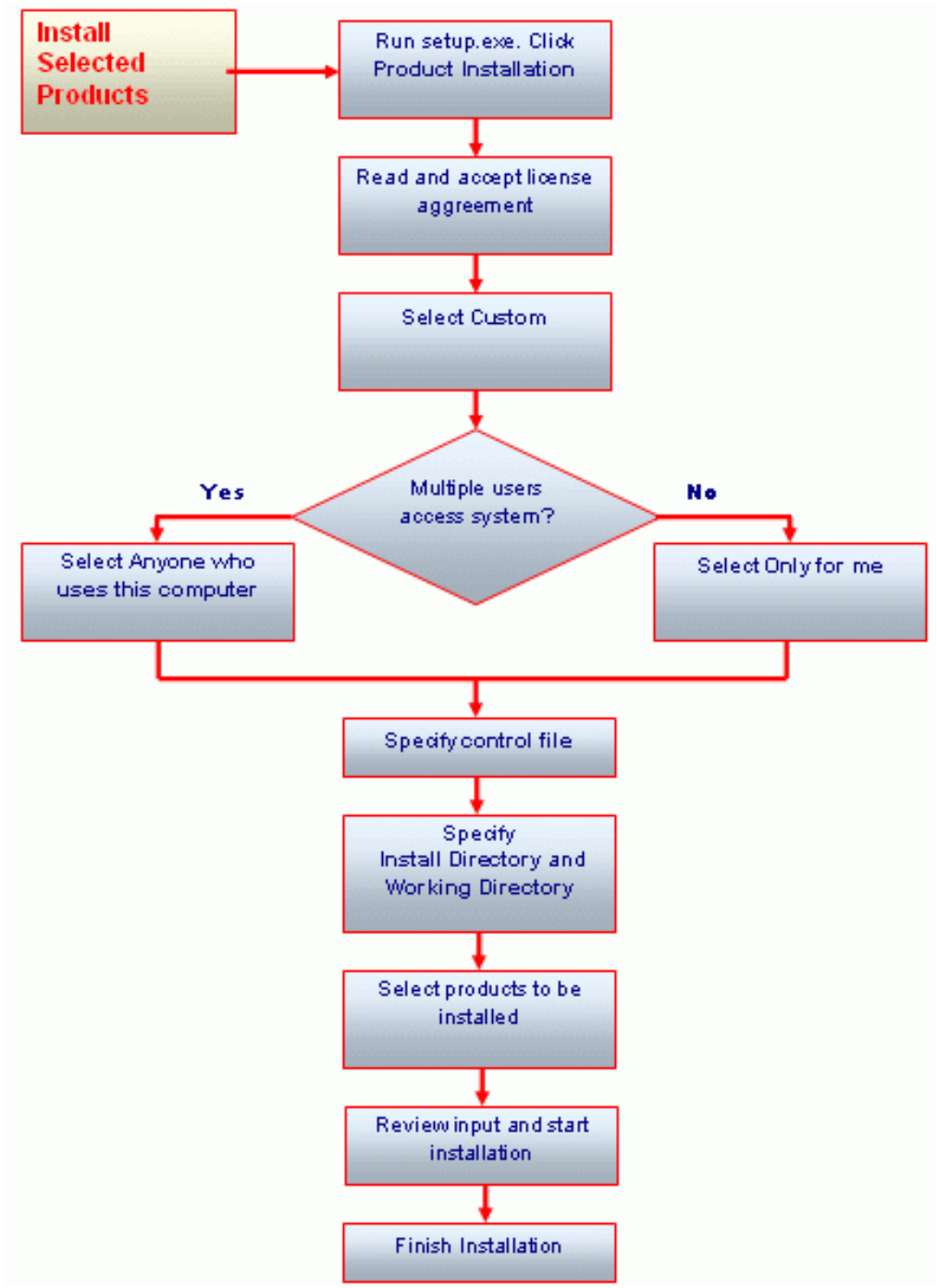
Note: Refer to Installing the Products for more information about the product installation. Refer to Performing Silent Installations for information about unattended or silent installation of products.

You can choose between complete and customized modes to install products. Complete installation mode needs minimum input and installs all products. In the customized mode, you can install selected products.

Installing all Products



Installing Selected Products

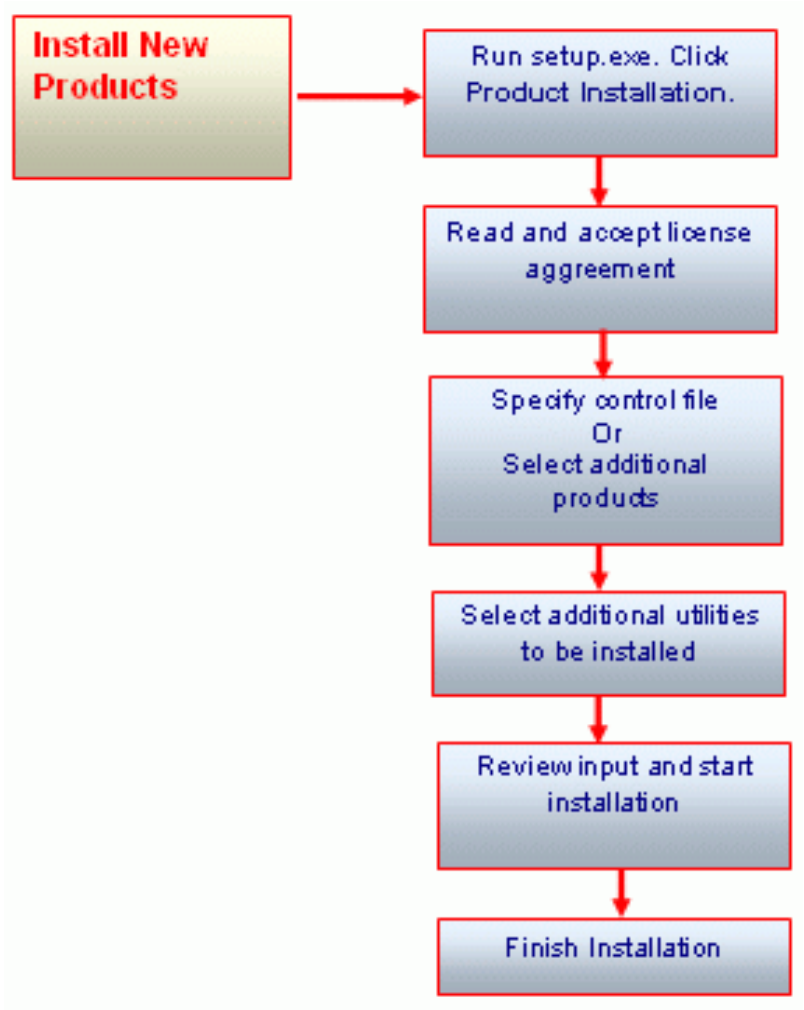


Maintaining Existing Installations

You can run maintenance installation in two modes:

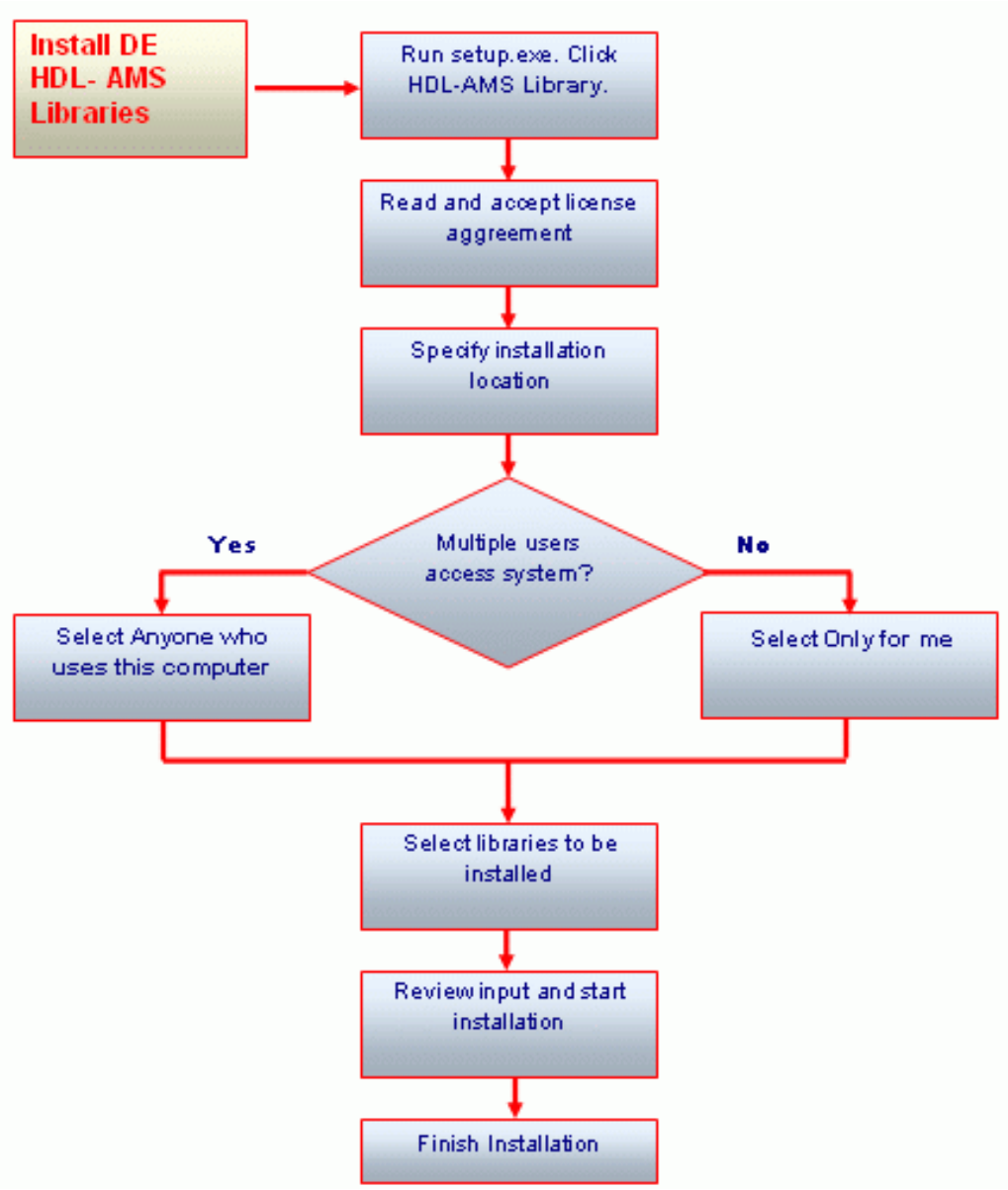
- Incremental: Install additional selected products to an already existing hierarchy. This mode also allows you to repair an existing installation.
- Repair: Update registry and environment variables. If you do not select any new products while performing maintenance installation, the installer will run in the repair mode.

Note: Refer to Performing Maintenance Installation on page 47 for more information about maintenance installation. Refer to Performing Silent Installations for information about unattended or silent maintenance installation.



Installing Allegro Design Entry HDL - AMS Libraries

Note: Refer to Installing the libraries on page 55 for more information about library installation.



Uninstalling License Manager, Products, and Libraries

You can uninstall Cadence products, libraries, or license manager using the Add or Remove Programs from the Control Panel of Window:

1. Open Add or Remove Programs from the Control Panel of Windows.
2. Navigate to the item to uninstall:
   - *Cadence SPB/OrCAD 16.5* to uninstall products or client
   - *Cadence License Manager*, to uninstall license manager
   - *Cadence SPB 16.5 AMS-HDL Library* to uninstall Design Entry HDL-AMS libraries
3. Click *Remove*.

   Follow the instructions to perform uninstall.

Note: If you perform a series of installations, uninstallations, and reinstallations, you run the risk of corrupting the CDS_LIC_FILE environment variable on the file server or on the remote client computer. If this variable is corrupted, you may be unable to run any products that are still installed. For example, if you had a previous Cadence release installed, then installed and uninstalled a new release, you may be unable to run any products from the previous Cadence release. Once the CDS_LIC_FILE environment variable is corrupted, the only remedy is to manually edit the environment variable and reset its value to reflect the license server information, in the form of `<port_number>@<host_name>`. For example, the value of the CDS_LIC_FILE environment variable for a single license server might be:

```
CDS_LIC_FILE = 5280@pc1
```

and for redundant license servers, it might be:

```
CDS_LIC_FILE = 5280@pc1;5280@pc2;5280@pc3
```

You can also use the License Client Configuration Utility to update the CDS_LIC_FILE variable. For more information, see The License Client Configuration Utility on page 36.

Knowing Requirements and Options

This manual is designed so that you can quickly find the information you need to install Cadence SPB 16.5 or OrCAD 16.5 products using the Cadence SPB/OrCAD 16.5 installer. You can use the Cadence SPB/OrCAD 16.5 installer to install SPB as well as OrCAD products.

Hardware and Software Requirements

This section describes the system requirements for Windows.

Because Cadence Silicon-Package-Board (SPB) and OrCAD products are integrated directly with Windows, hardware and peripherals supported by Windows are also supported by the Cadence SPB and OrCAD products. A list of hardware and peripherals officially supported by Windows can be obtained from the Microsoft web page.

Unlike previous releases, SPB and OrCAD products require updating certain Microsoft libraries in the Windows directory. You must install the Cadence software either using a standalone or client install. You may no longer be able to point to the Cadence software without installing.

Platform ID	wint
Operating System	Windows 2008 R2 Server (32-bit only); Vista SP1 (32- and 64-bit) except Home Basic; Windows 7 (32- and 64-bit) - Home Premium, Professional, Enterprise, and Ultimate; Windows XP SP3. **Note:** Cadence SPB and OrCAD products do not support Windows XP 64-bit, Windows 7 Starter and Home Basic, and Windows Server 2003. In addition, Windows Server support does not include support for Windows Remote Desktop.
Hardware	Intel IA-32 compatible (includes Intel P4 EMT and AMD Opteron™); 1.2 GHz minimum; 2.4 GHz or more is recommended.
Minimum Hardware	4 GB physical memory

	50 GB disk space
	virtual memory should be at least double the available physical memory
	1024x768 resolution with 64,000 colors
Recommended Hardware	4 GB physical memory
	500 GB disk space
	virtual memory should be at least double the available physical memory
	1280x1024 Color quality 32 bit graphics
	A dedicated graphics card is recommended.

Network Interface Cards (NICs)

A network interface card (NIC) is the preferred locking method used in licensing to enable the products to run on a computer. Each NIC is programmed with an address that is sufficiently unique to enable its use as a hardware lock.

You can use the NIC in a laptop computer as your locking method, but you should be aware that some laptops disable their NICs if the laptops are not attached to a network. If your laptop's NIC is disabled, you will not be able to run any products.

Dongles

If your locking method is a dongle, attach the dongle to the appropriate parallel or USB port of the computer before you begin the installation. Click *Cancel* when the Windows generated *Found New Hardware* dialog appears. The dongle drivers will automatically install during the License Manager Installation.

The following dongles are supported for Release 16.5:

- FLEXid parallel dongle (version 8, "flexid8")

  Note: FLEXid vers. 8 is not supported on Windows Vista, Windows 7, and Windows 2008 R2.

- FLEXid USB dongle (version 9, "flexid9")

On some Windows XP SP3 32-bit machines the dongle drivers are not installed properly or the USB dongle might fail when a system is coming out of hibernation. To resolve these

issues you can run `CDS_FLEXId_Dongle_Driver_Installer.exe` that will install patched drivers on Windows XP SP3 32-bit machines. The `CDS_FLEXId_Dongle_Driver_Installer.exe` file is in the `flexid` directory along with `FLEXId_Dongle_Driver_Installer.exe` (standard installer for 32-bit machines) and `FLEXId_Dongle_Driver_Installer_64.exe` (standard installer for 64-bit machines).

Cadence License File

In order to run the Cadence SPB or OrCAD products, you must have a valid license file (`LICENSE.TXT`) issued by Cadence.

Part II - Licensing

The chapters in this section explain the licensing requirements and installation of Cadence License Manager for SPB/OrCAD products.

- Installing License Manager
- Replacing the License File

Installing License Manager

You set up licensing locally or over a network using one of the following methods:

- From the Start menu, choose cadence and then choose License Manager.

  Note: If you access licenses from a central license server over a network, you do not need to install the Cadence License Manager locally.

- The License Client Configuration Utility - points to either a local or remote License Manager installation.

The FLEXnet License Manager.

- You may already have the License Manager installed on your system from a previous release of Cadence SPB/OrCAD products. Release 16.5 requires FLEXnet License Manager version 10.8.9 or later.

  - If you already have FLEXnet License Manager version 10.8.9 or later and have not received a new license file, you do not need to upgrade the License Manager.
  - If you have a new license file and you have an earlier version than 10.8.9, you must uninstall that version before upgrading the License Manager.

  Note: You can check the version of FLEXnet by choosing *Cadence–License Manager–LmTools* from the Windows Start menu. Then choose *Help–About*.

Installing License manager

Two types of installations are possible for the license manager:

- Standalone Installation
- Network Installation

The sections below describe the two installation types and explains the installation procedure.

Standalone Installation

To install the licensing for a single user on an isolated computer that will not depend on access to a network, install the License Manager directly on that computer.

Network Installation

In a network installation, you install the License Manager on a computer that is accessible over a network, referred to as a *license server.* In this configuration, multiple users can run the Cadence SPB/OrCAD products at the same time across the network by accessing the license and file server.

You may have up to three license servers running simultaneously. These are referred to as *redundant license servers*. The licensing system remains operational as long as any two of the three License Managers are functioning properly.

To install the License Manager

Note: To learn about silent or unattended installation of the license manager, refer to Installing License Manager on page 68.

1. Click on `setup.exe` in the top-level of the Windows DVD images (above the Disk 1 folder).

   The Cadence Product Components menu appears.

2. Click *License Manager*.

   The Welcome window of the InstallShield Wizard dialog box appears.

3. Click *Next* to proceed.

   The License Agreement dialog box appears.

4. Enable the *I accept the terms of the license agreement* checkbox to accept the License Agreement.

5. Click *Next* to proceed with the installation process.

   The Choose Destination Location dialog box appears.

6. Accept the default location or click the *Change* button to designate another location, where you want to install, and then click *Next* to continue.

   The Select Features dialog box appears.

7. Check the *Licensing* checkbox (if not checked) and then click *Next.*

The Ready to Install the Program dialog box appears.

8. Click *Install* to start the installation.

   The Setup Status dialog box appears to monitor the install progress. When complete, the License File Location dialog box appears.

9. Specify a location to the Cadence license file or browse to it, and then click *Next*.

   The License Server Data dialog box appears.

   Note: You can click *Cancel* to configure the License Manager at a later time. You need to run *Start – Cadence – License Manager – License Server Configuration Utility* to configure licensing.

10. Review the license server information and modify the host name, if necessary, and then click *Next*.

    The Configuration Status dialog box appears informing you that the license file installation was successful.

11. Click *Finish*.

    The InstallShield Wizard Complete dialog box appears.

12. Click *Finish* to end the license manager installation.

Uninstalling the License Manager

To Uninstall the License Manager

1. Open Add or Remove Programs from the Control Panel of Windows.
2. Navigate to the *Cadence License Manager* and click *Remove*.

The License Server Configuration Utility

The License Server Configuration Utility (*Start – Cadence – License Manager – License Server Configuration Utility)* lets you configure licensing on a license server without having to reinstall the License Manager.

Use the License Server Configuration utility if your current license file is about to expire, you purchase additional licenses for products that you have already installed, or you receive a new license file from Cadence.

To Use the License Server Configuration Utility

1. From the *Start* menu, choose *All Programs – Cadence – License Manager – License Server Configuration Utility.*

   The License File Location dialog box appears.

2. Specify a location to the Cadence license file or browse to it, and then click *Next*

   The License Server Data dialog box appears.

3. Review the license server information and modify the host name, if necessary, and then click *Next*.

   The Restart License Server dialog box appears informing you that the license server is running and will restart.

4. Click *Next*.

   The Configuration Status dialog box appears.

5. Click *Finish* to exit the License Server Configuration utility.

   Configuring the license file is complete.

The License Client Configuration Utility

The License Client Configuration Utility (*Start – Cadence – License Manager – License Client Configuration Utility*) lets you change the setting of your `CDS_LIC_FILE` variable to point to a different or an additional license server. After remote client product installations, either interactive or unattended, you must use the License Client Configuration Utility to set up the client machine to find the license server.

To Use the License Client Configuration Utility

1. From the *Start* menu, choose *All Programs – Cadence – License Manager – License Client Configuration Utility*.

   The License Path dialog box appears.

2. Specify the port and hostname of the license server(s) you want to use, and then click *Next*.

   Note: You can use semicolon to specify multiple license servers, such as `port1@host1;port1@host2`. You can also specify a fault tolerant or triad license server, you can use the comma to separate the hosts, such as `port1@host1,port1@host2,port1@host3`.

The Configuration Status dialog box appears to confirm that the `CDS_LIC_FILE` variable updated.

3. Click *Finish* to exit the License Client Configuration utility.

Replacing the License File

If you received a replacement license file from Cadence (if your original license file expired, or if you purchased a newer version of Cadence SPB/OrCAD products or bought additional licenses for products that you have already installed), and you already have the FLEXnet version 10.8.9 or a later version of the Cadence License Manager installed, use the License Server Configuration Utility to configure your new license.

To replace the license file

1. From the *Start* menu, choose *All Programs – Cadence – License Manager – License Server Configuration Utility.*

   The License File Location dialog box appears.

2. Specify a location to the Cadence license file or browse to it, and then click *Next*

   The License Server Data dialog box appears.

3. Review the license server information and modify the host name, if necessary, and then click *Next*.

   The Restart License Server dialog box appears informing you that the license server is running and will restart.

4. Click *Next*.

   The Configuration Status dialog box appears.

5. Click *Finish* to exit the License Server Configuration utility.

   Replacing the license file is complete.

Part III - Interactive Installations

The chapters in this section describes the interactive installation of products, client, and libraries using the SPB/OrCAD installer. The silent or unattended installation is discussed in Part IV - Silent Installations.

- Installing the Products
- Installing Client on a Remote Computer
- Installing Allegro Design Entry HDL - Allegro AMS Symbol Library
- Configuring an Installation

Installing the Products

You can use the Cadence SPB/OrCAD installer to install products in two modes, interactive and unattended. The interactive mode uses a installation wizard to guide you through the installation steps. The unattended mode lets you edit a template in the installation CD and run the installation process without intervention.

You can also run the installer to maintain installed products. Maintenance allows you to modify or repair the current installation.

You can remove the installation from the Add or Remove Programs tool of Windows Control Panel by clicking the Change/Remove button.

Note: This chapter discusses interactive installation. To learn about silent or unattended installation, refer to Performing Silent Installations on page 65.

Important

In order to install the Cadence products, you must be logged on as a user with administrative privileges.

This chapter describes:

- Performing Interactive Product Installation on page 43
- Performing Maintenance Installation on page 47
- Uninstalling the products on page 49

Performing Interactive Product Installation

Interactive installation flow depends upon the option, either *Complete* or *Custom*, which you select in the Setup Type page of the installer. The Complete option requires the maximum disk space but reduces the number of installation steps. The Custom option provides more flexibility to advanced users by allowing customized installation for specific needs.

The first few steps of installation, till accepting the license agreement, are similar for all installation types. However, depending upon the option selected in the Setup Type page, the remaining steps will change.

Common Steps

1. Click on *setup.exe* in the top-level of the Windows DVD images (above the Disk 1 folder).

   The Cadence Product Components menu appears.

2. Click *Product Installation* from the list.

   The InstallShield Wizard prepares for setup. A page appears warning you to turn off any anti-virus software you may be running before proceeding with the product installation.

   Note: Running anti-virus software while performing installation might significantly increase the install time or even lead to unsuccessful installation.

3. Click *Next* to open the License Agreement page.

4. Check *I accept the terms of the license agreement* to accept the License Agreement and click Next.

   The Setup Type page appears.

5. Select the setup type. Select *Complete* if you want to install all the SPB products. Select *Custom* if you want to install specific products.

6. Select the option to allow all users access to the installed products or restrict access to only your login. Select *Anyone who uses this computer [all users]* for all users of the computer to access the installed applications. Select *Only for me* to allow access to only the current user installing the applications.

   Note: Only one installation, either all users or current user, is possible on a computer. In addition, for all *users installation*, users who log in without administrative privileges may not be able to use certain utilities such as switch version.

7. Click *Next*.

Complete Installation Steps

On selecting *Complete*, the Installation Settings page appears.

1. In *Specify Install Directory*, browse to the directory where you want to install the products.

   The space required to install all SPB products and the space available in the specified directory is displayed in the Specify Install Directory box.

   Note: Avoid long path names and spaces and special characters in the installation path.

2. In *Specify Working Directory*, set the path for your default working directory or accept the default directory.

   Note: If you have already set the `HOME` environment variable, that is what appears as the default directory in this dialog box. If you have not previously set a `HOME` variable, then the default is `C:\SPB_Data`. You must specify the working directory you want to use. After the installation is finished, the `HOME` environment variable equals the working directory you specify.

Caution

Avoid changing the HOME environment variable as it might impact other programs.

3. Ensure that the License Path box points to an existing license server in the form of `<port_number>@<host_name>`, such as *5280@corporatelicenseserver*. The value is updated in the CDS_LIC_FILE environment variable.

4. Click Next.

   The Ready to Install the Program page appears.

5. Click *Install* to install the SPB products or click *Back* to review settings.

   Note: Cadence SPB/OrCAD installer also installs Microsoft .NET Framework 2.0, Microsoft Visual C++ 2005 Redistributable, and Crystal Reports 2008 Runtime.

   The installation might take several minutes.

   The Setup Complete dialog box appears.

6. Check *View Product Notes* to view online help in Cadence Help. Check *Open cadence Web Page* to open the Cadence Web page in a browser.

7. Click *Finish* to complete installation.

   At the end of installation a standard shortcut is added for easy access of installed products as *Start -All Programs -Cadence -Release <version>*, for example, *Start - All Programs - Cadence - Release 16.5*.

   Note: The shortcuts will be added to the All Users profile only if installation is performed for *all users*. This means, that if installation is performed for a single user, other users logging into the system will not be able to see the shortcuts from the Start menu.

Custom Installation Steps

If you select Custom in the Setup Type dialog box, The Control File Location page appears.

1. In the text field, specify the path to the control file you received from Cadence, including the name of the control file. The control file determines which products are selected by default in the Select Products dialog box.

   If you do not have a control file, leave it blank.

2. Click *Next*.

   The Installation Settings page appears.

3. In *Specify Install Directory*, browse to the directory where you want to install the products.

   The space required to install all SPB products and the space available in the specified directory is displayed in the Specify Install Directory box.

   Note: Avoid spaces and special characters in the installation path.

4. In *Specify Working Directory*, set the path for your default working directory or accept the default directory.

   Note: If you have already set the `HOME` environment variable, that is what appears as the default directory in this dialog box. If you have not previously set a `HOME` variable, then the default is `C:\SPB_Data`. You must specify the working directory you want to use. After the installation is finished, the `HOME` environment variable equals the working directory you specify.

5. The License Path box displays the value of the CDS_LIC_FILE environment variable.

Caution

If you edit the License Path box, ensure that the value is correct because the new value will overwrite the original CDS_LIC_FILE value.

6. Click *Next*.

   The Select Products dialog box appears.

7. Select the specific products you want to install by checking the boxes next to the product names.

Important

You can select the *All Documentation* option (selected by default) to install online help for all Cadence SPB/OrCAD products. This will increase the space requirement. If you deselect this option, documentations will not be installed and online help will not be available for any of the installed products.

Note: If you are installing Allegro Design Entry CIS or OrCAD Capture CIS, the Footprint Viewer Option dialog box appears. Choose the footprint viewer for PCB Editor, or choose *None* if you do not want to set up a footprint viewer.

8. Click *Next*.
9. Click *Next* in the Start Copying Files page.

   The Ready to Install the Program page appears.
10. Click *Install* to install the products selected or click *Back* to review settings.

    Note: Cadence SPB/OrCAD 16.5 installer also installs Microsoft .NET Framework 2.0 and Microsoft Visual C++ 2005 Redistributable. In addition, if you install Allegro Design Entry CIS or OrCAD Capture CIS, Crystal Reports 2008 Runtime is also installed.

    Product installation is complete.

    The Licensed Products Not Installed dialog box appears if a product listed in the control file is a license only (no software) product.

    The Installer detects if any locked files (.EXE, .DLL) are found. If so, the Restart Windows dialog box appears reminding you to reboot the system.

    At the end of installation a standard shortcut is added for easy access of installed products as *Start -All Programs -Cadence -Release <version>*, for example, *Start - All Programs - Cadence - Release 16.5*.

    Note: The shortcuts will be added to the All Users profile only if installation is performed for *all users*. This means, that if installation is performed for a single user, other users logging into the system will not be able to view the shortcuts from the Start menu. Users can configure an installation to make it accessible from their user ID by choosing *Cadence – Release 16.5 – Configure* from the *Start* menu. For more information, see Enabling Access to Installations in Current User Mode on page 59.

Performing Maintenance Installation

You can perform maintenance of a installed hierarchy to:

- Incrementally add new products

- Repair an existing installation

In the repair mode, the installer updates the Windows registry entries and environmental variables.

Maintenance Installation

Note: Maintenance installation to add new products is not possible if you have installed a HotFix.

1. Click on *setup.exe* in the top-level of the Windows DVD images (above the Disk 1 folder).

   The Cadence Product Components menu appears.

2. Click *Product Installation* from the list.

   The InstallShield Wizard prepares for setup. A page appears warning you to turn off any anti-virus software you may be running before proceeding with the product installation.

3. Click *Next* to open the License Agreement page.

4. Check *I accept the terms of the license agreement* to accept the License Agreement and click *Next*.

   The Control File Location page appears.

5. In the text field, specify the path to the control file you received from Cadence, including the name of the control file. The control file determines which products are selected by default in the Select Products dialog box.

   If you do not have a control file, leave it blank.

6. Click *Next*.

   The Select Features page appears.

   The products selected during the previous installation are selected by default. You can select new products to install incrementally or you can run installation without selecting any new products to repair an installed hierarchy.

7. Select any additional products.

   Note: You must update the firewall exception list if you install additional products.

8. Click *Next*.

   Note: If you are installing Allegro Design Authoring CIS or OrCAD Capture CIS, the Footprint Viewer Option dialog box appears. Choose the footprint viewer for PCB Editor, or choose *None* if you do not want to set up a footprint viewer.

9. Click *Next*.

   The Ready to Install the Program page appears listing the utilities that can be installed. Many utilities are selected by default.

10. In the Ready to Install the Program page, select the utilities to install. You can uncheck utilities that you do not want to be repaired.

    Note: If you select to incrementally install OrCAD Capture CIS or Allegro Design Entry CIS in the maintenance mode, the *Update Crystal Reports* and *Update .NET Framework* options are checked but disabled.

11. Click *Install*.

    The Setup Complete page appears.

12. If you want to view online help, check *View Product Notes*. Similarly, to open the Cadence Web page in a browser, check *Open cadence Web Page*.

13. Click Finish to complete installation.

    Any new product that you installed incrementally is added to the shortcut menus.

Uninstalling the products

1. Open Add or Remove Programs from the Control Panel of Windows.

   Note: Cadence SPB/OrCAD products will appear in Add or Remove Programs for all users only if installed using the *all users* option. If installed using the *Only for me*, it will appear only for the login ID used for installation.

2. Select *Cadence SPB/OrCAD 16.5* from the list of currently installed programs.

3. Click *Remove* to launch the installation wizard.

   The wizard prepares for installation and then displays a message asking if you want to completely remove the selected application and all its product.

4. Click *Yes* to uninstall the products.

5. Click *Finish* in the Uninstall Complete page.

Note: If you perform a series of installations, uninstallations, and reinstallations, you run the risk of corrupting the CDS_LIC_FILE environment variable on the file server or on the remote client computer. If this variable is corrupted, you may be unable to run any products that are still installed. For example, if you had a previous Cadence release installed, then installed and uninstalled a new release, you may be unable to run any products from the previous Cadence release. Once the CDS_LIC_FILE environment variable is corrupted, the only remedy is to

manually edit the environment variable and reset its value to reflect the license server information, in the form of *<port_number>@<host_name>*. For example, the value of the CDS_LIC_FILE environment variable for a single license server might be:

```
CDS_LIC_FILE = 5280@pc1
```

and for redundant license servers, it might be:

```
CDS_LIC_FILE = 5280@pc1;5280@pc2;5280@pc3
```

You can also use the License Client Configuration Utility to update the CDS_LIC_FILE variable. For more information, see The License Client Configuration Utility on page 36.

Installing Client on a Remote Computer

After installing the License Manager software and products on a file server, you can set up remote client computers. The file server can be any computer on which you have installed Cadence SPB/OrCAD products.

Note: The system that has Cadence SPB/OrCAD products installed acts as a file server. You can also run all installed products from the file server and Start menu entries are created in the file server along with the creation of all environment variables required to run the installed products.

You can install the client either interactively using the Installation Wizard or unattended in the silent mode. Both types of installations will add a standard shortcut to the start menu as *Start – All Programs – Cadence – Release <version>*, for example, *Start – All Programs – Cadence - Release 16.5.*

Note: This chapter discusses interactive installation of the client. To learn about silent or unattended installation, refer to Performing Silent Installations on page 65.

Remote client computers access the license server and the products (on the file server) over a network. The remote client computer itself does not have the License Manager software or any of the products installed on it. Instead, a minimum of files are installed (system DLLs, registry entries, and environment variables) and icons that point to the products on the file server are put into the Start menu on the remote client computer. In addition, the remote client installation creates a Start menu command (*Start–All Programs–Cadence–License Manager–License Client Configuration Utility*) that updates the `CDS_LIC_FILE` environment variable on the remote client computer with the licensing information on the file server.

Note: You can use a UNC path or a mapped drive to specify the file server location.If you use a mapped drive and UAC (User Account Control) is on, browse to the location instead of typing the path to the server location. Specifying a UNC path is recommended as mapped drive might not be accessible due to company specific IT policies.

Installing a Client Interactively on a Remote Computer

1. Click on *setup.exe* in the top-level of the Windows DVD images (above the `Disk1` folder)

   Note: You can also launch the client installer by opening command prompt and entering the command `<path_to_Disk1>\setup.exe -client`.

2. Click *Client Installation*.

   The Welcome window of the InstallShield Wizard dialog box appears.

3. Click *Next* to proceed.

   The License Agreement dialog page appears.

4. Enable the *I accept the terms of the license agreement* checkbox to accept the License Agreement. Click *Next*.

   The Setup Type page appears.

5. Select the option to allow all users access to the installed products or restrict access to only your login. Select *Anyone who uses this computer [all users]* for all users of the computer to access the installed applications. Select *Only for me* to allow access to only the current user installing the applications.

6. Click *Next*.

   The Installation Settings page appears.

7. Specify the location where you want the client files to be installed and Click *Next* to proceed with the installation process.

   The Complete Product Installation Directory page appears.

   Note: Avoid spaces and special characters in the installation path.

8. Specify the location of a compatible server.

   The server location can either be a mapped drive or an UNC path.

9. Click *Next*.

   Note: If Allegro Design Entry CIS or OrCAD Capture CIS are installed on the server, the Footprint Viewer Options dialog box appears. Choose the footprint viewer for PCB Editor, or choose *None* if you do not want to set up a footprint viewer. Click *Next*.

   The Working or Home Directory page appears.

10. Specify the working directory.

11. Click *Next*.

    The Installation Summary page appears.

12. Click *Next*.

    The Ready to Install the Program page appears.

13. Click *Back* to review your settings or click *Install* to install the products.

    This will install the files necessary to run Cadence SPB/OrCAD products.

    Note: Cadence SPB/OrCAD 16.5 installer also installs Microsoft Visual C++ 2005 Redistributable. In addition, if Allegro Design Entry CIS or OrCAD Capture CIS are present in the server, Crystal Reports 2008 Runtime and Microsoft .NET Framework 2.0 are also installed.

Uninstalling the Client

1. Open Add or Remove Programs from the Control Panel of Windows.

   Note: Cadence SPB/OrCAD products will appear in Add or Remove Programs for all users only if installed using the *all users* option. If installed using the *Only for me*, it will appear only for the login ID used for installation.

2. Select *Cadence SPB/OrCAD 16.5* from the list of currently installed programs.

3. Click *Remove* to launch the installation wizard.

   The wizard prepares for installation and then displays a message asking if you want to completely remove the selected application and all its product.

4. Click *Yes* to uninstall the client.

5. Click *Finish* in the Uninstall Complete page.

Installing Allegro Design Entry HDL - Allegro AMS Symbol Library

You can install the Allegro Design Entry HDL - Allegro AMS libraries independent of the product installation. You can choose to install specific libraries, update libraries, or uninstall libraries at any time.

Note: It is recommended that you install products before installing the library.

Installing the libraries

Start the installation wizard

1. Click *HDL-AMS Library* to start the Cadence SPB/OrCAD 16.5 Library installer. Click *Next*.
2. Check *I accept the terms of the license agreement* to accept the License Agreement and click Next.
3. In the Choose Destination Location page, specify the directory where libraries should be installed.

   If SPB/OrCAD products are already installed, the default path is the installation hierarchy. If SPB/OrCAD products are not installed, the default path is `C:\Cadence\SPB_<16.5>`. You can click *Change* to alter the location to any valid path. Specify a path on the local machine as installing across the network might take a long time.
4. Select the option to allow all users access to the installed library or restrict access to only your login. Select *Anyone who uses this computer [all users]* for all users of the computer to access the installed applications. Select *Only for me* to allow access to only the current user installing the applications.

Important

The products might not find the installed library if all of the following are true:

- Library is installed before installing products
- Different users install library and products

- ❑ The product installation is for current user

  This is true for library installed for all users and current users. Therefore, it is recommended to install products before installing libraries. See UAC (User Access Control) Scenarios on page 12 for more information.

5. Click *Next*.
6. In the Select Features page, select the libraries you want to install. You can select *Standard PSpice Models*, or *Parameterized PSpice Models*, or both libraries by selecting *All AMS Libraries*.
7. Click *Next*.

   The Installation Summary page appears.
8. Click Next.
9. Click *Install* to install the selected libraries. You can click *Back* to review the settings.

   This will update the `CHDL_LIB_INST_DIR` environment variable with the current library path. Also, the `cds.lib` file will be created in the `<library_installation>/share/library` directory and this file will be updated with the selected library names. Remember that you need to update the `cds.lib` file manually for any user-defined libraries.
10. Click *Finish*.

Uninstalling the libraries:

1. Open Add or Remove Programs from the Control Panel of Windows.

   Note: Cadence SPB/OrCAD products will appear in Add or Remove Programs for all users only if installed using the *all users* option. If installed using *Only for me*, it will appear only for the login ID used for installation.
2. Select *Cadence SPB 16.5 AMS-HDL Library Installer* from the list of currently installed programs.
3. Click *Remove* to launch the installation wizard.

   The wizard prepares for installation and then displays a message asking if you want to completely remove the selected application and all its product.
4. Click *Yes* to uninstall the libraries.

5. Click *Finish* in the Uninstall Complete page.

Configuring an Installation

Cadence SPB/OrCAD 16.5 products can be installed in two user modes, all users (*Anyone who uses this computer*) or current user (*Only for me*). If installed in the current user mode, the installation is accessible only to the user who installed the products. The *Cadence – Release 16.5* menu from the *Start* menu will display the product options only when the user who installed the product is logged into the system. Other users will not be able to access the installation. But the other users can choose the *Cadence – Release 16.5 – Configure* option from the *Start* menu to enable access to the installed products.

Note: When you configure an installation for access, the installed products are not affected in any way.

You know you need to configure an existing installation, if:

- While installing Cadence SPB/OrCAD products a message is displayed specifying that installation cannot proceed because another Cadence SPB/OrCAD installation exists in the current user mode.
- You can see only the *Configure* option and not any products listed when you choose *Cadence – Release 16.5* from the *Start* menu.

This chapter discusses the following topics:

- Enabling Access to Installations in Current User Mode on page 59
- Repairing Configuration on page 60
- Removing Access to Configured Installation on page 60

Enabling Access to Installations in Current User Mode

To configure an installation to make it accessible from your user ID, perform the following steps:

1. Choose *Cadence – Release 16.5 – Configure* from the *Start* menu

   Note: You can also run the configuration utility using *configure_cadence_spb_16_5.msi* from the `<installation_location>\tools\ConfigUtility` directory.

The Configure Cadence SPB 16.5 installation wizard appears.

2. Click *Next*.
3. The License Agreement page appears.
4. Accept the license agreement and click *Next*.
5. Ensure that the installation location points to a valid Cadence SPB/OrCAD installation. You can click *Change* to point to a different location.
6. Ensure that the *Working Directory* and *License Path* values are valid.
7. Click *Install*.
8. Click *Finish* to complete the configuration.

   You can now access the Cadence SPB/OrCAD products from the *Start – Cadence – Release 16.5* menu.

Repairing Configuration

To repair a configured installation, perform the following steps:

1. Choose *Cadence – Release 16.5 – Configure* from the *Start* menu

   Note: You can also run the configuration utility using *configure_cadence_spb_16_5.msi* from the `<installation_location>\tools\ConfigUtility` directory.

   The Configure Cadence SPB 16.5 installation wizard appears.

2. Click *Next*.

   The Program Maintenance page appears.

3. Ensure that *Repair* is selected and click *Next*.

   Ready to Repair the Program page appears.

4. Click *Install*.
5. Click *Finish* to complete maintenance.

Removing Access to Configured Installation

To remove access to an installation that you have configured, perform the following steps:

1. Choose *Cadence – Release – Configure* from the *Start* menu

   Note: You can also run the configuration utility using *configure_cadence_spb_16_5.msi* from the `<installation_location>\tools\ConfigUtility` directory.

   The Configure Cadence SPB 16.5 installation wizard appears.

2. Click *Next*.

   The Program Maintenance page appears.

3. Select *Remove* and click *Next*.

   Remove User Access page appears.

4. Click *Remove*.

5. Click *Finish* to remove access to the configured installation.

   The installed products are removed from the *Start – Cadence – Release 16.5* menu.

Part IV - Silent Installations

The chapter in this section describes how to perform silent or unattended installation for products, clients, and maintenance.

■ Performing Silent Installations

Performing Silent Installations

Silent or unattended installation does not require user intervention. You start silent installation from the command line using a simple text file called the silent installation file. You can find a template of the silent installation file in the installation CD (`Disk1\documents\silentinstall-SPB.ini`).

Note: The `Disk1\Documents\silentinstall-Licensing.ini`file can similarly be used to install the license manager.

To perform silent installation, modify the `Disk1\documents\silentinstall-SPB.ini` file and at the Windows command prompt, enter the relevant command.

The following sections provide details about silent or unattended installation:

- The silentinstall-SPB.ini file
- Installing License Manager
- Installing Products
- Installing Client
- Performing Maintenance

The silentinstall-SPB.ini file

The template `Disk1\documents\silentinstall-SPB.ini` for silent installation contains various variables to set the different installation parameters. The file has three sections; *State*, *Features*, and *Data*. Most variables are commented using the semicolon (`;`). You can edit the file using any text editor and remove the comments, if needed, to use the variables. The following table describes the different variables.

Variable	Description
`State`	
`TargetDir`	Specify the location where you want to install the products. This variable is in the State section of the template. For example, to install the products at the location `D:\Cadence\SPB_16.5` edit the template to read `TargetDir=D:\Cadence\SPB_16.5`. If you use a mapped drive for the path and UAC is on, ensure that the mapped drive is accessible from your system by using the Windows command prompt or any other shell.
`RebootIfReqd`	Specify `RebootIfReqd=Y` if you want the computer to reboot when installation is completed. The default value is `N`.
`FileServerLocationDir`	Specify the server location. This is the shared location where products are installed. This variable is required for client installation. If you use a mapped drive for the location and UAC is on, ensure that the mapped drive is accessible from your system by using the Windows command prompt or any other shell.
`OnMaintenance`	You can specify whether you want to modify, repair, or remove installation. The possible values are `MODIFY`, `REPAIR`, and `REMOVEALL`. `MODIFY` allows you to add new products by editing the Feature section of the silent installation file. `REPAIR` will update the environment variables and the registry settings. `REMOVEALL` will uninstall the current installation.
`Rollback`	Specify `Rollback=Y` in combination with `OnMaintenance=REMOVEALL`, if you want to perform rollback.
`IsrBackup`	Specify `IsrBackup=Y` if you want to back up files while installing HotFixes. This makes it possible to rollback specific HotFixes. For more details, see Updating the Products on page 79.

`ALLUSERS`

Specify if the installation is for all users (`ALLUSERS=YES`), or the current user (`ALLUSERS=NO`), which is the default. An installation for all users allows any user logging into the installed computer to access the installed products. A single user installation only allows the login ID used during installation to access and uninstall the applications.

Caution

The selection of access levels in setup might affect how products access libraries. Refer to UAC (User Access Control) Scenarios ***on page 12*** ***for more information.***

`MODE`

Specify if you want to install all the products or a selected list of products. This variable is in the State section. To install all products, edit the file to `MODE=COMPLETE`. To install specific product, edit to `MODE=CUSTOM`.

If you specify the value of `MODE` as `CUSTOM`, you need to modify the `Features` section. In the Features section of the template, remove the semicolon (`;`) from the lines that contain the product to be installed. For example, to install all Cadence SPB products, remove the semicolon from the beginning of the line `Feature7=ALL SPB 165Products`, as shown below.

```
[Features]

;Feature0=ALL OrCAD 165 Products

;Feature1=ALL OrCAD 165 Products\OrCAD_Capture_CIS

;Feature2=ALL OrCAD 165 Products\OrCAD_EE_Designer

;Feature3=ALL OrCAD 165
     Products\OrCAD_FPGA_System_Planner

;Feature4=ALL OrCAD 165 Products\OrCAD_PCB_Designer

;Feature5=ALL OrCAD 165 Products\OrCAD_PCB_SI

;Feature6=ALL OrCAD 165 Products\PSpice

Feature7=ALL SPB 165 Products
```

UPDATE_CRSTAL	Specify Y if you want to update Crystal Reports. If you install Capture CIS or Design Entry HDL CIS for the first time, the value for this variable should be Y.
UPDATE_NET_FRAMWRK	Specify Y if you want to update .NET Framework. If you install Capture CIS or Design Entry HDL CIS for the first time, the value for this variable should be Y.
UPDATE_VC_REDIST	Specify Y if you want to update Microsoft Visual C++ 2005 Redistributable.
UPDATE_FIREWALL	Specify Y if you want to update Firewall entries.
IKNOWBEST	Specify IKNOWBEST=YES if you do not want the installer to check disk space before installation. The valid values are YES and NO.
Features	Specify the products that you want to install in this section, if you had specified the MODE=CUSTOM. Refer to the description of MODE in this table for more information.
Data	
WorkingDir	Specify the default working directory. This variable is in the Data section. For example, to specify C:\SPB_Data as the working directory, edit to WorkingDir=C:\SPB_Data.

Installing License Manager

1. Navigate to the Disk1\Documents\silentinstall-Licensing.ini file template on the Windows DVD images.
2. Update the Targetdir in the .ini file to reflect the location where you want to install License Manager or use the default location.
3. Save the .ini file.
4. In the *Run* dialog box, type the following and click *OK*:

   ```
   <path_to_DVD_image>\Disk1\LM\setup.exe  !quiet=<path_to_your
   silentinstall-Licensing.ini file>\silentinstall-Licensing.ini
   ```

   The installation process runs.

Important

You need to run *Start – Cadence – License Manager – License Server Configuration Utility* after an unattended installation to configure licensing.

Installing Products

1. Modify the `Disk1\Documents\silentinstall-SPB.ini` file. Change the following variables:
   - `TargetDir`: Specify the location where you want to install the products.
   - `MODE`: Specify if you want to install all the products (`MODE=COMPLETE`) or a selected list of products (`MODE=CUSTOM`). Edit the Features section for the `CUSTOM` mode.
   - `WorkingDir`: Specify the default working directory.
   - `ALLUSERS`: Specify if the installation is for all users, (`ALLUSERS=YES`), or the current user (`ALLUSERS=NO`), which is the default.
2. Save the `.ini` file.
3. In the Run dialog box, type the following and then click OK:

```
<path_to_DVD_image>\Disk1\setup.exe !quiet=<path_to_your silentinstall-SPB.ini
     file>\silentinstall-SPB.ini
```

Installing Client

1. Modify the `Disk1\Documents\silentClientinstall-SPB.ini` file. You need to modify these three variables:
   - TargetDir: Specify the target directory on the client computer
   - WorkingDir: Specify the home directory
   - FileServerLocation: Specify the server location.
2. Run the setup by using the command:

```
<path_to_Disk1>\setup.exe -client !quiet=<path to silentClientinstall-SPB.ini
     file>\silentClientinstall-SPB.ini.
```

   For example, if you saved the modified `silentClientinstall-SPB.ini` to `C:\temp`, then the command will be:

```
<path_to_Disk1>\setup.exe -client !quiet=C:\temp\silentClientinstall-SPB.ini
```

Performing Maintenance

You might perform maintenance installation:

- To incrementally add new products: In this, the specified products are added to the existing installation. The installation of third party products is optional, except the following in case of installing Capture CIS or Design Entry HDL CIS for the first time: Crystal Reports and .NET Framework,
- To repair an existing installation: The installer will update the registry settings and environmental variables.

  Note: In addition, you can also perform maintenance to remove or rollback installation. In case of updating a release for a HotFix or performing a rollback, you use the two variables, `Rollback` and `IsrBackup`. Refer to Updating the Products on page 79 for more details.

To perform unattended maintenance installation:

1. Navigate to the silentinstall-SPB.ini file template from the Disk1\Documents folder in the Windows DVD image.
2. Edit the following in the template:
   - `OnMaintenance`: Specify whether you want to modify (`OnMaintenance=MODIFY`), repair (`OnMaintenance=REPAIR`), or remove (`OnMaintenance=REMOVEALL`) the existing installation.
   - `UPDATE_CRSTL`: Specify `Y` if you want to update Crystal Reports.
   - `UPDATE_NET_FRAMWRK`: Specify Y if you want to update .NET Framework.
   - `UPDATE_VC_REDIST`: Specify Y if you want to update Microsoft Visual C++ 2005 Redistributable.
   - `UPDATE_FIREWALL`: Specify Y if you want to update Firewall entries.
   - `UPDATE_DOC_INDX`: Specify Y if you want to generate the documentation search index for online help.

   Note:
3. Update the `Features` section by removing the comments (`;`) if you want to incrementally add new products.
4. Save the .ini file.
5. In the Run dialog box, type the following and then click OK:

```
<path_to_DVD_image>\Disk1\setup.exe !quiet=<path_to_your silentinstall-SPB.ini
     file>/silentinstall-SPB.ini
```

Part V - Additional Information

The chapters in this section gives you additional information that help you perform installation smoothly. These chapters have troubleshooting information, frequently asked questions, and details about specific scenarios that you might encounter while performing installation.

- Getting Help
- Performing Special Tasks
- Frequently Asked Questions

Getting Help

This document describes available resources for information, recommendations, and websites to help you use the Cadence SPB/OrCAD tools.

Resource	**Found in...**
Documentation	Context sensitive help, user guides, tutorials, and white papers to help you in the adoption of Cadence tools.
What's New in PCB Editor	*Help – What's New*
Known Problems and Solutions	*Help – Documentation – Release Info*
System Requirements	*Help – Documentation – Release Info*
Allegro Platform Migration Guide	*Help – Documentation – Release Info*
White papers, Application Notes	*Help – Web Resources – Community*
Best Practices	*Help – Documentation – Best Practices*
Tutorials	*Help – Documentation – Tutorials*
Training	Formal, structured, instructor led, hands-on training in a classroom environment.
	Help – Web Resources – Education Services
Additional Resources	
Workshops	Contact your Cadence Account Manager for more information.
Webinars	*Help – Web Resources – Online Support*
Feature demos	*Help – Documentation – Demos*
SKILL updates	*<cdsroot>/share/pcb/examples/skill/DOC*
Customer Support	http://support.cadence.com/wps/myportal/cos/psa/contacts.html

Frequently Asked Questions

How do I uninstall the Release 16.5 software manually?

1. Open Add or Remove Programs from the Control Panel of Windows.
2. Select *Cadence SPB/OrCAD 16.5*.
3. `Click` *Remove* to launch the installation wizard.
4. Follow the instructions in the wizard to uninstall the products.

How can I install Release 16.5 into different locations with the same DVD image from the same machine?

Release 16.5 does not support installation into different locations.

Note: When you run the installation for the second time with the same DVD on the same machine. The target directory cannot be changed, and the Control File dialog boxes are not presented. This is the correct behavior for this release.

Caution

You should not attempt to modify the registry information. If you modify the registry, the update process will not work.

How can I set up the environment again (start menu, registry entry, .INI file, branding OrCAD products, etc.) without installing additional products?

Use the same base DVD image and go through the whole installation process again. Click *Next* in each dialog box to proceed.

The installer will automatically add the programs in this release to the Windows Firewall Exceptions list for Windows XP, Service Pack 2. How can I disable this functionality during installation? How can I remove the programs from the exceptions list if the anti-virus program is not compatible with Windows XP, SP2, or if this setup is not allowed for my corporate firewall policy?

The installer searches the destination directory for the programs and then adds them to the Windows Firewall Exceptions list. It sets up one registry entry for each program under the following registry keys:

```
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\SharedAccess\Parameters\FirewallPolicy\DomainProfile
\AuthorizedApplications\List
```

```
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services
\SharedAccess\Parameters\FirewallPolicy\StandardProfile
\AuthorizedApplications\List
```

If you want to disable this functionality during installation, you must run "setup.exe" from a DOS Command Prompt window with the following switch:

```
setup.exe -nofirewallexceptions
```

You can use the DOS command `reg.exe` to create a script that deletes all the registry entries for this release.

The license server or manager fails because of dongle issues on my Windows XP SP3 32-bit machine. What can be the problems and how do I resolve them?

Problems:

It has been observed that on Windows XP SP3 32-bit machines, the following issues might occur related to dongle:

- The license manager is unable to serve any licenses because it does not recognize the dongle. The default dongle drivers are not installed properly on some 32-bit Windows XP SP3 machines.
- The license server fails with the message when the system comes out of hibernation:

  ```
  Can’t get hostid of type 15 [Cannot read dongle: check dongle or
  driver. (-110,499:2 ‘‘No such file or directory‘‘)]
  ```

Solution:

Run the patched dongle-driver installer `CDS_FLEXId_Dongle_Driver_Installer.exe` from the `flexid` directory. The dongle driver installer will install the patched drivers only if Windows XP SP3 is detected on the machine, otherwise it will use the original drivers that are packaged with the default installers.

Cadence Online Support

Cadence Online Support gives you answers to your technical questions. Find the latest in hotfixes, case and product change release (CCR) information, technical documentation, solutions, software updates and more.

> **Note:** To register on Cadence Online Support you will need your email address and your host-ID or serial number.

To Access Cadence Online Support, go to:

http://support.cadence.com/

Note: OrCAD customers need to contact Cadence Channel Partners. Cadence Channel Partners are listed at:

http://www.cadence.com/Alliances/channel_partner/pages/default.aspx

Requesting a License

If you need to change your license (for instance, you want to upgrade to a newer version or purchase additional products), or if you need additional licenses for other users, contact Cadence Product Sales at:

North America Customers - Phone: 800.746.6223
International Customers - Phone: 408.943.1234

Email: salesinfo@cadence.com

or check the following website for contact information in your local area:

http://www.cadence.com/contact.html

Customer Support

Cadence Customer Support is available online. There are specific email addresses, phone and FAX numbers for different regions of the world. The website provides contact details for your particular area.

To Contact Cadence Customer Support, go to:

http://support.cadence.com/wps/myportal/cos/psa/contacts.html

Performing Special Tasks

Updating the Products

Hotfix Update Information

Hotfixes are made available periodically after a main release ships. These typically contain bug fixes and minor performance or functional enhancements based on the current main release.

The Cadence software update process works on an “as-requested” model. You must subscribe in order to be alerted about an update. Under this process, you will receive an email when selected product updates are available. These emails will contain a link to an online order form. When you are ready to receive and install the release, complete and submit your order.

> **Note:** You must have a current maintenance agreement to be eligible for software updates.

Backup Hotfix

You can enable backup option while installing HotFix. This option needs to be enabled for every installation. If you enable this option for an installation, then you can uninstall the complete installation or rollback the last HotFix that was installed. Rollback is possible for the last two installed HotFixes in sequence, provided backup is enabled for both the installations. For example, you installed three hotfixes with backup enabled: hotfix1, hotfix2, and hotfix3. You can only rollback hotfix3 and hotfix2, and not hotfix1.

Note that if you did not select backup in the current installation, rollback will not be available even if the last installation was with backup enabled. For example, you installed hotfix1 with backup on and then installed hotfix2 with backup off. Later on, if you install hotfix3 with backup on, you can only rollback hotfix3.

Note: You can use Add or Remove Programs of the Windows Control Panel to uninstall. In Add or Remove Programs, select the Cadence SPB/OrCAD release and click *Remove*. The uninstall process lets you select between HotFIx and full release uninstall.

To install HotFix in silent mode with backup on:

Note: Installation might take more time if backup is on.

1. Edit the INI file to set the `IsrBackup` variable to `Y`. The following sample file has the variable set to Y.

   ```
   [State]

   TargetDir=C:\Cadence\SPB_16.5

   IsrBackup=Y
   ```

2. At the command prompt, give the following command:

   ```
   <hotfix_path>\SPB163_ISR.exe !quiet=C:\Silent_ISR.ini
   ```

   Where, `C:\Silent_ISR.ini` is the INI file with `IsrBackup` set to `Y`.

To install HotFix in silent mode with backup off:

1. Edit the INI file to set the `IsrBackup` variable to `N` as shown in the sample file:

   ```
   [State]

   TargetDir=C:\Cadence\SPB_16.5

   IsrBackup=N
   ```

2. At the command prompt, give the following command:

   ```
   <hotfix_path>\SPB163_ISR.exe !quiet=C:\Silent_ISR.ini
   ```

   Where, `C:\Silent_ISR.ini` is the INI file with `IsrBackup` set to `N`.

Switching Versions

Once you install 16.5, you should only use the latest version of the switchversion program to change releases.

Uninstalling Software

Note: If you perform a series of installations, uninstallations, and reinstallations, you run the risk of corrupting the CDS_LIC_FILE environment variable on the file server or on the remote client computer. If this variable is corrupted, you may be unable to run any products that are still installed. For example, if you had a previous Cadence release installed, then installed and uninstalled a new release, you may be unable to run any products from the previous Cadence release. Once the CDS_LIC_FILE environment variable is corrupted, the only remedy is to

manually edit the environment variable and reset its value to reflect the license server information, in the form of `<port_number>@<host_name>`. For example, the value of the CDS_LIC_FILE environment variable for a single license server might be:

```
CDS_LIC_FILE = 5280@pc1
```

and for redundant license servers, it might be:

```
CDS_LIC_FILE = 5280@pc1;5280@pc2;5280@pc3
```

Uninstalling the License Manager

To Uninstall the License Manager

1. Open Add or Remove Programs from the Control Panel of Windows.
2. Navigate to the *Cadence License Manager* and click *Remove*.

Uninstalling the Products

To Uninstall the Cadence SPB/OrCAD 16.5 products

1. Open Add or Remove Programs from the Control Panel of Windows.
2. Navigate to *Cadence SPB/OrCAD 16.5* and click *Remove*.

Troubleshooting Installation

The Cadence SPB/OrCAD installer creates a log file that you can use to troubleshoot installation problems. The log file allows you to identify the steps executed during installation, the user inputs, error conditions that lead to termination of installation, environment variables before and after installation, and third party software installed before and after installation.

The log file is saved in the install directory with the name `InstLog<date>_<time>.txt`. The file is organized into different sections that helps in finding information quickly.

Server Model License Expiration Notification

The lmCheckExpiration.exe utility checks all licenses in the specified license file. You can schedule the utility to run periodically on your system using a job scheduler to notify you when licenses are close to expiring.

The utility has the following syntax:

```
lmCheckExpiration.exe

   [-c license_file] [-d days_to_expire] [-m email_address]
[features]
```

Where:

Parameter	Description
`-c license_file`	Use the specified license file. You can specify a path to the license file, or port@host, or both as a concatenated, colon-separated list. The default is to look for and check the CDS_LIC_FILE, the clients file, or the LM_LICENSE_FILE, in that order.
`-d days_to_expire`	Include only those licenses expiring within the specified number of days. The default is to return only those licenses expiring today.
`-m email_address`	Send the expiration report to the specified address. The report is also written to the command prompt.
`features`	Specify a list of features (products) to check. If you do not specify any features, the default is to return information for all licenses served by the license server(s).

The utility returns 0 for success, 1 if it cannot connect to any of the license servers, and 2 for an invalid argument.

If a license is going to expire within the specified number of days, the utility writes a warning message, and optionally sends mail to a specified user. The message includes the license name, version, expiration date, and the number of days before expiration.

You can download the licensing utilities from the Windows tab of the Cadence Downloads page at http://downloads.cadence.com.

Frequently Asked Questions

This chapter contains frequently asked questions and their solutions.

Can I use mapped drives and UNC path while installing client?

Answer: You can use both mapped drives and UNC (Universal Naming Convention) paths for the server location when installing a client. If you use a mapped drive and UAC (User Account Control) is on, browse to the location instead of typing the path to the server location.

If you are performing silent or unattended installation, ensure that the mapped drive is accessible from your system by using the Windows command prompt or any other shell, specially if UAC is on. In silent or unattended installations, you can use mapped drives for `TargetDir` and `FileServerLocationDir`.

During installation, I get a Program Compatibility Assistant message stating that the program might not have installed correctly. What do I do?

Answer: You might receive a Program Compatibility Assistant message on Windows 7 or Windows Vista systems, especially while installing HotFixes. If you do not want to receive the messages, you can turn off or adjust the Program Compatibility Assistant using Group Policy. Note that a similar Program Compatibility Assistant message might also appear when running the License Client Configuration utility.

Although I have administraive rights, when I install SPB 16.5 on Server 2008 machine the following message is displayed: The system administrator has set policies to prevent this installation.

Answer: Enable the MSI installation on your machine. You need administrative rights to turn on this setting.

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\Installer]

"DisableMSI"=dword:00000000
```

Users will not to be able to install on the system if the value of `DisableMSI` is set to `1`.