Cadence Allegro and OrCAD (Including ADW) 17.2-2016 Release
Installation Guide for Windows
Part I - Getting Started ................................................................. 7

Hardware and Software Requirements ........................................... 9
  Network Interface Cards (NICs) .................................................. 10
  Dongles ..................................................................................... 10
  Cadence License File ................................................................. 11

New Features and Enhancements in 17.2-2016 ................................. 13
  New Features and Enhancements ................................................ 13
  New License Manager ................................................................. 14
  Installation Directory Structure Changes .................................... 14
  Cadence Download Manager ...................................................... 15
  Installing without Administrative Privileges ................................. 15
  Change in Start Menu ................................................................ 16
  Diagnosing Installation Issues .................................................... 17
  Repairing Installation to Add Missing Files ................................. 18
  Silent Installation without any Graphical Interface ....................... 18
  Control File in Silent Installation ............................................... 18
  Incrementally Adding Products after Installing a HotFix ................ 18
  Only for 64-Bit Windows Operating Systems Supported ................. 18
  Performance Improvement in HotFix Backup Feature ................... 19
  Fixed CCRs ............................................................................. 19

Installation Overview .................................................................... 21
  High-Level Overview of Installation Flow ................................. 22
  Installation Options for Cadence Products .................................. 23
  Uninstalling License Manager, Products, and Libraries ................. 24
  Updating Scripts or Batch Files to Run Installed Products .......... 24
# Part II - Licensing

## Installing and Configuring License Manager

<table>
<thead>
<tr>
<th>Component</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installing License manager</td>
<td>29</td>
</tr>
<tr>
<td>Standalone Installation</td>
<td>31</td>
</tr>
<tr>
<td>Network Installation</td>
<td>31</td>
</tr>
<tr>
<td>Uninstalling the License Manager</td>
<td>32</td>
</tr>
<tr>
<td>The License Server Configuration Utility</td>
<td>33</td>
</tr>
<tr>
<td>The License Client Configuration Utility</td>
<td>34</td>
</tr>
</tbody>
</table>

## Part III - Interactive Installations

<table>
<thead>
<tr>
<th>Component</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installing the Products</td>
<td>35</td>
</tr>
<tr>
<td>Performing Interactive Product Installation</td>
<td>37</td>
</tr>
<tr>
<td>Performing Maintenance Installation</td>
<td>38</td>
</tr>
<tr>
<td>Modifying an Installation</td>
<td>43</td>
</tr>
<tr>
<td>Repairing an Installation</td>
<td>44</td>
</tr>
<tr>
<td>Removing an Installation</td>
<td>45</td>
</tr>
<tr>
<td>Uninstalling the products</td>
<td>45</td>
</tr>
<tr>
<td>Installing Client on a Remote Computer</td>
<td>47</td>
</tr>
<tr>
<td>Installing a Client Interactively on a Remote Computer</td>
<td>48</td>
</tr>
<tr>
<td>Uninstalling the Client</td>
<td>49</td>
</tr>
</tbody>
</table>

## Installing Allegro Design Entry HDL - Allegro AMS Symbol Library

<table>
<thead>
<tr>
<th>Component</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installing the libraries</td>
<td>51</td>
</tr>
<tr>
<td>Uninstalling the libraries</td>
<td>52</td>
</tr>
</tbody>
</table>

## Installing OrCAD Lite

<table>
<thead>
<tr>
<th>Component</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installing the Lite Products</td>
<td>53</td>
</tr>
<tr>
<td>Uninstalling the Lite Products</td>
<td>55</td>
</tr>
</tbody>
</table>
Configuring and Managing Installations ........................................ 57
Starting the Installation and Setup Utility ........................................ 57
Performing Administrative Tasks ..................................................... 58
Updating Environment Variables and Switch Release Shortcut .......... 58
Enabling Access to Installations in Current User Mode .................... 59
Removing a Release ........................................................................ 60

Diagnosing and Repairing Installation and Licensing ..................... 61
Running Install Diagnose ................................................................. 61
Adding Custom Tasks ..................................................................... 62

Downloading, Installing, and Deploying Releases and Updates using Download Manager ................................................. 65
Viewing Available Releases and Updates ......................................... 65
Downloading and Installing Releases and Updates .......................... 65
Setting Up Automatic Download and Installation of Updates .......... 66
Deploying Across an Enterprise ....................................................... 66

Part IV - Silent Installations .......................................................... 67

Performing Silent Installations ......................................................... 69
Installing License Manager in the Silent Mode ................................. 70
Installing Products in the Silent Mode .............................................. 70
Installing Client in the Silent Mode ................................................ 71
Installing DEHDL-AMS Library in the Silence Mode ...................... 71
Performing Maintenance in the Silent Mode .................................... 72
The silentinstall-SPB.ini file ............................................................. 73

Part V - Additional Information ...................................................... 77

Getting Help ............................................................................... 79
Cadence Online Support ................................................................. 80
Requesting a License ................................................................. 80
Customer Support ................................................................. 80

Performing Special Tasks ......................................................... 81
Updating the Products .............................................................. 81
  Hotfix Update Information ...................................................... 81
  Backup Hotfix ........................................................................ 81
Switching Versions ................................................................. 82
Uninstalling Software ............................................................... 83
  Uninstalling the License Manager ............................................. 83
  Uninstalling the Products ......................................................... 83
Troubleshooting Installation ...................................................... 83
Server Model License Expiration Notification .............................. 84

Troubleshooting: Frequently Asked Questions ......................... 87

Appendix A: Access Levels and Installations ............................... 91
  Same user installs product and library ..................................... 91
  Different users install product and library ............................... 94
Part I - Getting Started

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

- Hardware and Software Requirements on page 9
- New Features and Enhancements in 17.2-2016 on page 13
- Installation Overview on page 21
Hardware and Software Requirements

This manual is designed so that you can quickly find the information you need to install Cadence® Allegro® and OrCAD® (Including ADW) 17.2-2016 products.

**Note:** The ADW product line, individual ADW products, and product family names have been rebranded in Release 17.2-2016. Allegro Design Workbench (ADW) is now referred to as Allegro Engineering Data Management (EDM).

This section describes the system requirements for Windows.

Cadence Allegro and OrCAD products are integrated directly with Windows; the products support hardware and peripherals supported by Windows. A list of hardware and peripherals officially supported by Windows can be obtained from the Microsoft web page.

The products require updating certain Microsoft libraries in the Windows directory. You must install the Cadence software using either a standalone install or a client install. You may not be able to point to the software without installing.

**Operating System**
Microsoft® Windows® 7 Professional, Enterprise, Ultimate or Home Premium (64-bit); Windows 8 (64-bit) (All Service Packs); Windows 10 (64-bit); Windows 2008 R2 Server; Windows 2012 Server (All Service Packs).

**Note:** Cadence Allegro and OrCAD (Including EDM) products do not support Windows 7 Starter and Home Basic. In addition, Windows Server support does not include support for Windows Remote Desktop. Windows RT and Tablets are not supported.

**Recommended Software**
Microsoft® Internet Explorer® 11.0 or later

**Minimum Hardware**
Intel® Pentium® 4 or AMD Athlon XP 2000 with multi-core CPU
8 GB RAM
Virtual memory at least twice physical memory
50 GB free disk space
1,024 x 768 display resolution with true color (16-bit color)
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 in some laptops NICs are disabled 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 dongle is supported for Release 17.2-2016:

- FLEXid USB dongle (version 9, flexid9)
Cadence License File

In order to run the Cadence Allegro and OrCAD products, you must have a valid license file (LICENSE.TXT) issued by Cadence.
New Features and Enhancements in 17.2-2016

- New Features and Enhancements
- Fixed CCRs

New Features and Enhancements

Cadence® Allegro® and OrCAD® (Including ADW) Installer 17.2-2016 has the following enhancements and new features.

Note: The ADW product line, individual ADW products, and product family names have been rebranded in Release 17.2-2016. The Allegro Design Workbench (ADW) is now referred to as Allegro Engineering Data Management (EDM).

- New License Manager on page 14
- Installation Directory Structure Changes on page 14
- Cadence Download Manager on page 15
- Installing without Administrative Privileges on page 15
- Change in Start Menu on page 16
- Diagnosing Installation Issues on page 17
- Repairing Installation to Add Missing Files on page 18
- Silent Installation without any Graphical Interface on page 18
- Control File in Silent Installation on page 18
- Incrementally Adding Products after Installing a HotFix on page 18
- Only for 64-Bit Windows Operating Systems Supported on page 18
- Performance Improvement in HotFix Backup Feature on page 19
New License Manager

You must remove any earlier version and upgrade the License Manager to the Cadence License Manager 12.05 (FlexNet® LMTOOLS 13.0.3) version shipped with Cadence Allegro and OrCAD Installer 17.2-2016 for the installed products to work. License Manager shipped with earlier releases will not work with the 17.2-2016 products.

To use Cadence products, set up licensing locally or over a network.

**Important**

Remove or uninstall all earlier versions of License Manager before installing Cadence License Manager 12.05.

1. Install the latest license manager shipped with the installer.

   To check the LMTOOLS version installed on your system, start LMTOOLS (choose Cadence — License Manager — LmTools from the Start menu) and then choose Help — About.

2. Replace the license file in the License Server.

3. In the system where products are installed, configure the license server

   **Note:** For more information, refer to the section on Licensing in this manual.

Installation Directory Structure Changes

With 17.2-2016, the Cadence Allegro and OrCAD hierarchy has been modified. All the user-accessible programs are now consolidated in the `<installation_directory>/tools/bin` folder. Sub-binary directories, such as `pcb/bin` and `fet/bin` no longer appear in the `PATH` environment variable, as they do not contain any user-accessible programs. It is no longer required to set the environment `PATH` variable to run 17.2-2016 programs.

The 17.2-2016 version of Cadence SPB Switch Release is updated to understand the Cadence hierarchy differences between releases. The Windows file associations path differences are automatically updated between releases.

To run batch programs from the command prompt (`cmd.exe`) or batch files, a new batch file, `allegro_cmd.bat`, is provided in the `<installation_directory>/tools/bin` folder. Modify your batch file to include `<installation_directory>/tools/bin/allegro_cmd.bat`.

If you run installed products from the command prompt, add `<installation_directory>/tools/bin` to the `PATH` variable.
In 17.2-2016, help documents are installed only for the selected products. This is a deviation from the previous releases that installed all or no documents.

The latest version of the online help tool, Cadence Help, creates a table of contents on the fly. It then updates the search index to enable searching content across installed documents. The installer provides a new option to generate search index at the end of product installation. If you are installing a server, generate the documentation index by selecting the option so that users accessing the server can view and search documents.

**Cadence Download Manager**

Use the new Cadence® Download Manager to download and install available Cadence Allegro and OrCAD product releases and updates. The easy-to-use manager lets you quickly view, install, and update products from a single window without opening any external browser.

Use the Updates tab of the Preferences dialog box of Cadence Download Manager to schedule automatic updates. Specify the update mode, select packages, and set the schedule by specifying start time, frequency (in terms of weekly recurrence), and the days of the week.

The Download Manager can also be used to manage a local cache to store releases and updates for distribution across an enterprise, streamlining the deployment process.

The user-friendly interface lets you keep a tab on all Cadence Allegro and OrCAD (Including ADW) downloads and installations by displaying the current status of downloads and installations. You can also pause a download and then resume it at a later time, ensuring that the download starts from where it was stopped.

**Note:** See Downloading, Installing, and Deploying Releases and Updates using Download Manager on page 71 for more information.

**Installing without Administrative Privileges**

You can now perform installation without administrative privileges (standard user) using the *Only for me* option. If you do not have administrative privileges and need to install hotfixes, ensure that you install products as a standard user.

For base releases, install the products as a standard user and then configure the installation by running the `InstallConfig` utility using administrative privileges. This utility is present in the `<installation_location>	ools\InstallUtils` folder. The configuration is a one-time activity.
Note: The AdminActions.bat file located at <installation_location>\tools\InstallUtils can be used to configure the installation in the silent or unattended mode.

Note that the installation process will remain the same for the standard-user mode except that a standard user cannot perform all user installation.

Change in Start Menu

In 17.2-2016, you can quickly access the installed release from Cadence Release 17.2-2016 of the Start menu. The installed products are organized under different categories for easier identification and access.

Cadence Switch Release and Download Manager are listed under Start – Cadence.
Diagnosing Installation Issues

Run the Allegro® Install Diagnose utility 
(<installation_location>\tools\InstallUtils\InstallDiagnose) to recognize, list, and repair issues with licensing and installation. The tool identifies and lists issues related to environment variables and runtime environments, redistributable packages, and other software packages depending on the tools installed. The tool also validates license server and client.
Repairing Installation to Add Missing Files

Now you can run the installer in repair mode to add any files or folders missing from the installed hierarchy.

**Note:** See Performing Maintenance Installation on page 46 to know more about the maintenance options.

Silent Installation without any Graphical Interface

The silent or unattended installation mode, that runs in the background without user intervention, does not show any graphical interface now.

Control File in Silent Installation

You can now specify a control file in the silent or unattended installation mode to select products for installation.

**Note:** See Performing Silent Installations on page 63 for more information.

Incrementally Adding Products after Installing a HotFix

You can now incrementally add new products to an installation even after it has been updated with a HotFix. To add products after installing a HotFix, run the base release installer and select the new features to be added.

**Note:** This will roll back the installation to the base release version. Install the latest HotFix after adding new products from the base release.

Only for 64-Bit Windows Operating Systems Supported

The 17.2-2016 products are supported only on the following 64-bit versions of Windows operating systems:

- Microsoft® Windows® 7 (Enterprise, Ultimate, Professional, or Home Premium)
- Windows 8 (All service packs, such as Windows 8.1)
- Windows 10
- Microsoft® Windows® 2008 Server R2
- Microsoft® Windows® 2012 Server
Note: Windows XP, Windows Vista, and Windows 7 (32-bit) are not supported.

Performance Improvement in HotFix Backup Feature

In 17.2-2016, there is a significant improvement in the performance of the feature to back up the files updated in HotFix installations.

Fixed CCRs

The following list includes the problems reported and fixed in Cadence Allegro and OrCAD Installer in 17.2-2016. For detailed information about a fixed problem, contact Cadence customer support.

<table>
<thead>
<tr>
<th>CCR ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCMPR00747110</td>
<td>Hotfix notification to users in Windows Client Server method</td>
</tr>
<tr>
<td>CCMPR00750914</td>
<td>Automatic hotfix updates</td>
</tr>
<tr>
<td>CCMPR00821167</td>
<td>Option to check for the latest hotfix and to perform a silent installation if there is a new hotfix</td>
</tr>
</tbody>
</table>
Installation Overview

You can use the Cadence® Allegro® and OrCAD® (Including ADW) 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.

Note: The ADW product line, individual ADW products, and product family names have been rebranded in Release 17.2-2016. Allegro Design Workbench (ADW) is now referred to as Allegro Engineering Data Management (EDM).

This chapter discusses the following topics:

- High-Level Overview of Installation Flow
- Installation Options for Cadence Products
- Uninstalling License Manager, Products, and Libraries
- Updating Scripts or Batch Files to Run Installed Products
High-Level Overview of Installation Flow

1. Install and configure latest License Manager. See Installing and Configuring License Manager on page 29.

2. Install products. See Installing the Products on page 37.

3. Configure installation with admin rights if installed with non-admin privileges.

**Note:** For troubleshooting, see Troubleshooting: Frequently Asked Questions on page 87.
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 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 products and License Manager on a remote system.

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

<table>
<thead>
<tr>
<th>Installation Type</th>
<th>Relevant Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>License Manager and Cadence Products installed locally</td>
<td>Installing and Configuring License Manager</td>
</tr>
<tr>
<td></td>
<td>Installing the Products</td>
</tr>
<tr>
<td>License installed on License Server and Cadence Products installed locally</td>
<td>Installing the Products</td>
</tr>
<tr>
<td>Local machine setup to access Cadence products installed on a remote system</td>
<td>Installing Client on a Remote Computer</td>
</tr>
<tr>
<td>Library installation</td>
<td>Installing Allegro Design Entry HDL - Allegro AMS Symbol Library</td>
</tr>
<tr>
<td>OrCAD Lite Installation</td>
<td>Installing OrCAD Lite</td>
</tr>
</tbody>
</table>

**Note:** If you already have the FLEXnet version 11.13.0.3 or a later version of the Cadence License Manager (Version 12.05 or later) installed, you do not need to install it again.
Uninstalling License Manager, Products, and Libraries

You can uninstall Cadence products, libraries, or license manager using Programs and Features from Control Panel of Windows:

1. Open Programs and Features from the Control Panel of Windows.

2. Navigate to the item to uninstall:
   - *Cadence OrCAD and Allegro (Inlc ADW) 17.2* to uninstall products or client
   - *Cadence License Manager 12.05*, to uninstall license manager
   - *Cadence Allegro 17.2 Library* to uninstall Design Entry HDL-AMS libraries
   - *Cadence OrCAD PCB Designer Lite 17.2* or *Cadence OrCAD PSpice Designer Lite 17.2* to uninstall OrCAD Lite

3. Click *Uninstall* and follow the instructions to uninstall.

**Note:** If you perform a series of installations, un-installations, and re-installations, 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 un-installed 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 34.

Updating Scripts or Batch Files to Run Installed Products

The PATH and CDSROOT variables are not required to run installed Cadence Allegro and OrCAD (Including ADW) products. However, if you have internal batch tools that you use to run the products, reference the `<installation_directory>\tools\bin\allegro_cmd.bat` file in your batch files or scripts to update PATH and set CDSROOT.
Note: Reference allegro_cmd.bat file with its absolute path.
Part II - Licensing

The chapter in this section explains the licensing requirements and installation of Cadence® License Manager for Allegro® and OrCAD® (Including ADW) products.

- Installing and Configuring License Manager
Installing and Configuring License Manager

You must install and configure Cadence® License Manager to be able to use installed products. You can set up licensing locally or over the network.

To set up licensing:

1. Install the License Manager, locally or on a server.

   **Note:** Ensure that you remove any older versions and install the latest Cadence License Manager. For 17.2-2016, upgrade to Cadence License Manager 12.05 or later (FLEXnet
License Manager version 11.13.0.3 or later). You can check the version of FLEXnet by choosing Cadence–License Manager–LmTools from the Windows Start menu. Then choose Help–About.

**Note:** The following platforms are supported for the License Server:

- Windows Server 2008
- Windows Vista
- Windows 7
- Windows 8
- Windows 10
- Windows Server 2012

All platforms specified are both 32-bit and 64-bit.

2. Configure the license server using the License Server Configuration Utility and the license file provided by Cadence.

To be able to run the products, ensure that license is configured in the system where products are installed. You can configure license by either specifying the License Path while installing the products or by using the License Client Configuration Utility. The license path to an existing license server is in the form of `<port_number>@<host_name>`, such as `5280@corporatelicenseserver`.

**Tip**

You can specify and get the license path information from the Cadence license file. The license path is specified in the license file by the `SERVER` keyword in the following form:

```
SERVER <host_name> <license text> <port_number>
```

For example, in the line `SERVER corporatelicenseserver 83065c2 5280`, `corporatelicenseserver` is the host name and `5280` is the port number.

The remaining sections in this chapter describe how to install License Manager and configure license.
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 explain 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 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 in the Silent Mode* on page 70.

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 *Programs – Programs and Features* from the Control Panel of Windows.

2. Navigate to *Cadence License Manager* and click *Uninstall.*
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:

- You received a replacement license file from Cadence
  - your current license file is about to expire
  - you purchase additional licenses for products that you have already installed
- 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; use the comma to separate the hosts, such as port1@host1,port1@host2,port1@host3.

   Tip
   You can get the license path information from the Cadence license file. The license path is specified by the SERVER keyword in the following form:

   \[ \text{SERVER } <\text{host_name} > <\text{license text}> <\text{port_number}> \]

   For example, in the line SERVER corporatelicenseserver 83065c2 5280, corporatelicenseserver is the host name and 5280 is the port number.

   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.
Part III - Interactive Installations

The chapters in this section describes the interactive installation of products, client, and libraries using the Cadence® Allegro® and 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
- Installing OrCAD Lite
- Configuring and Managing Installations
Installing the Products

You can use the Cadence Allegro® and OrCAD® (Including ADW) installer to install products in two modes, interactive and unattended. The interactive mode uses an 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.

Note: The ADW product line, individual ADW products, and product family names have been rebranded in Release 17.2-2016. The Allegro Design Workbench (ADW) is now referred to as Allegro Engineering Data Management (EDM).

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 Programs and Features tool of Windows Control Panel by clicking the Uninstall button.

Note: This chapter discusses interactive installation. To learn about silent or unattended installation, refer to Performing Silent Installations on page 69.

Important

Although you can install the Cadence products without administrative privileges using the Only for me option, you must run the System Configuration Utility with administrative privileges after completing the installation to be able to use the installed products.

This chapter describes:

- Performing Interactive Product Installation on page 38
- Performing Maintenance Installation on page 43
- Uninstalling the products on page 45
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. The remaining steps will change depending upon the option selected in the Setup Type page.

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

2. Click OrCAD and Allegro Product Installation under Main Installation.

   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 products. Select Custom if you want to install specific products.

   - Selecting **Complete** installs all products and documents including the requiring third party software. This will occupy the maximum space on your system.
   - Selecting **Custom** allows you to select specific features and products for installation.

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 or if you do not have administrative privileges.

   **Tip**

   It is recommended that you choose all users option only if multiple people share the installation.

7. Click Next.
On selecting Complete, the Installation Settings page appears and you can skip steps 8 and 9 and move to step 10.

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

8. In the text field of the Control File Location page, 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.

9. Click Next.

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

   Note: If you are installing in per-user mode (Only for me) and there are other installations in the system, ensure that you specify a unique location to not overwrite other existing installations.

   The space required to install all 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.

11. 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 %APPDATA%\SPB_Data for per user installation (Only for me) and C:\SPB_Data for a all user installation. 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.

   If a working directory is already specified in your system, retain the working directory value if you do not want to change existing configurations. Changing this value will alter the value of the HOME variable, which might affect other applications that use this variable and existing configurations for the tools might become ineffective.

   Caution

   Avoid changing the HOME environment variable as it might impact other programs.
12. 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.

**Note:** If you have multiple license servers and you want to access all of them, you can specify the port and host information for each of the license server delimited by a semicolon (;) as follows:

```
port1@host1;port1@host2;port1@host3
```

For example:

```
5280@sunny;5280@blue;5280@sky
```

If your license server has a fault-tolerant server configuration, you can specify the port and host information for each server separated by a comma as follows:

```
port@host1, port@host2, port@host3
```

For example:

```
5280@sunny,5280@blue,5280@sky
```

**Tip**

You can get the license path information from the Cadence license file. The license path is specified by the `SERVER` keyword in the following form:

```
SERVER <host_name> <license text> <port_number>
```

For example, in the line `SERVER corporatelicenseserver 83065c2 5280`, `corporatelicenseserver` is the host name and `5280` is the port number.

**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.*

13. Click *Next*.

If you selected *Complete*, the Ready to Install the program page appears and you can skip steps 14, 15, 16, 17, and 18 and move to step 19.

If you selected Custom, the Select Products page appears.

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

Note: If you select Allegro Data Manager under Allegro EDM Products; it is recommended that you also select Allegro Design Authoring, Allegro Editor Router, and, if needed, Allegro PCB SI (High Speed and Team Design flows) under Allegro Products. Similarly, if you select Allegro Library Manager; also select Allegro PCB Librarian.

15. Click Next.

The Product Configuration page appears.

16. Select Allow programs to connect through Windows firewall to create firewall entries.

17. Click Next.

18. Click Next in the Start Copying Files page.

The Ready to Install the Program page appears.

19. Click Install to install the products or click Back to review settings.

Note: The 17.2-2016 installer also installs Microsoft® Visual C++® Redistributable Packages, namely 2005, 2008, and 2012. Depending on the products selected and the operating system used, the installer might also install SAP® Crystal Reports® runtime engine for .NET Framework (64-bit) version 13.0.11.1467, .NET Framework 4.5, and SQLite® ODBC Driver for Win64.

The installation might take several minutes.

The Setup Complete dialog box appears.

20. Check one or more of the following options listed in the page:

   a. View Product Notes to view online help in Cadence Help.

   b. Open cadence Web Page to open the Cadence Web page in a browser.

   c. Remove Cadence paths from the PATH environment variable of your system to remove paths; this option is greyed out if no Cadence paths are set.

      Note: Do not check this option if you use an older release that needs path to be set.

   d. Generate doc index to enable search in Cadence Help [Must for server installation] to create documentation index used by the Cadence Help tool to display and search installed documents.
**Important**

If the installation will be shared with other users, who might not have write permission, ensure that you generate the documentation index by selecting the **Generate doc index to enable search in Cadence Help [Must for server installation]** option. If index is not generated, users will not be able to view and search documents.

21. 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 17.2-2016**.

**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.

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.

**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. For more information, see **Enabling Access to Installations in Current User Mode** on page 59.

**Note:** If you have an earlier release installed in your system, you can remove the Cadence paths from the PATH variable. The Release 17.2-2016 products do not need any paths to be set.

**Note:** If you installed without administrative privileges, configure the installation with administrative rights. See **Performing Administrative Tasks** on page 58 for more information.

**Important**

On clicking **setup.exe** in the top-level of the Windows DVD image (above the Disk 1 folder), the installer lists Optional Installation options. Click any of the options and follow the wizard to complete installation. If you selected to install any of the Cadence layout editors, install Cadence SPB Manufacturing Option. Similarly, you can install any of the following:
Installing the Products

- OrCAD Document Editor (OrCAD Doc/Panel Editor + DFM Checker)
- OrCAD Library Builder
- OrCAD Component Information Portal
- OrCAD Engineering Data Management

To be able to use Allegro Pulse, the Pulse Server administrator must deploy and configure Pulse by running the setup files in
<installation_location>tools\ecw\SchemaSetup directory. Refer to Allegro Pulse Configuration Guide for more information.

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 reinstalls all program features installed in the system.

1. Click on setup.exe in the top-level of the Windows DVD images (above the Disk 1 folder).
2. Click Product Installation in Cadence Product Components.
   
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.
5. Select one of the following depending on your requirements:
   - Modify: To add new features
   - Repair: To reinstall all program features installed in the system
   - Remove: To remove all installed features
   
   Note: If you select Remove and click Next, the wizard will start immediately and the installation will be removed.
6. Click Next.
Modifying an Installation

If you selected Modify and clicked Next, the Control File Location page appears. Perform the following steps to add or remove features:

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 Select Features page appears.

The products selected during the previous installation are selected by default. You can:

- select new products to install incrementally
- or
- run installation without changing any selection to repair an installed hierarchy

3. Select products, as required.

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

4. 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.

5. Click Next.

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

6. 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.

7. Click Install.

The Setup Complete page appears.

8.
9. Check one or more options in the page.

10. Click *Finish* to complete installation.

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

### Repairing an Installation

If you selected *Repair* and then clicked *Next*, click *Install* to repair the installation.

The installer reinstall all installed features and adds any files missing from the hierarchy.

### Removing an Installation

If you selected *Remove* and then clicked *Next*, the wizard will start and the installation will be removed from your system.

### Uninstalling the products

1. Open *Programs and Features* from the Control Panel of Windows.

   **Note:** Cadence Allegro and OrCAD products will appear in Programs and Features 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 OrCAD and Allegro (Incl ADW) 17.2* from the list of currently installed programs.

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

   The wizard prepares to remove the 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, removing installations, 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 34.

**Note:** You can similarly uninstall the Cadence SPB Manufacturing Option 17.2-2016 from Programs and Features of Windows Control Panel.
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® Allegro® and OrCAD® (Including ADW) products.

**Note:** The ADW product line, individual ADW products, and product family names have been rebranded in Release 17.2-2016. The Allegro Design Workbench (ADW) is now referred to as Allegro Engineering Data Management (EDM).

**Note:** The system that has Cadence Allegro and 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 17.2-2016`.

**Note:** This chapter discusses interactive installation of the client. To learn about silent or unattended installation, refer to Performing Silent Installations on page 69.

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 Complete Product Installation Directory page appears.
   
   **Note:** Avoid spaces and special characters in the installation path.

7. Specify the location of a compatible server.
   
   The server location can either be a mapped drive or an UNC path.

8. 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.

9. Specify the working directory.

10. Click **Next**.

    The Installation Summary page appears.

11. Click **Next**.
The Ready to Install the Program page appears.

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

This will install the files necessary to run the products.

**Note:** The 17.2-2016 installer also installs Microsoft® Visual C++® Redistributable Packages, namely 2005, 2008, and 2012. Depending on the products selected and the operating system used, the installer might also install SAP® Crystal Reports® runtime engine for .NET Framework (64-bit) version 13.0.11.1467, .NET Framework 4.5, and SQLite® ODBC Driver for Win64.

**Important**

If you access any Cadence layout editor, install Cadence SPB PCB Manufacturing Option 17.2-2016 in the client system by choosing Start - All Programs - Cadence Release 17.2 – PCB Editor Utilities – Setup PCB Manufacturing Option. Follow the wizard to complete the installation.

**Uninstalling the Client**

1. Open Programs and Features from the Control Panel of Windows.

   **Note:** Cadence OrCAD and Allegro (Incl ADW) will appear in Programs and Features 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 OrCAD and Allegro (Incl ADW) 17.2* from the list of currently installed programs.

3. Click Uninstall to launch the installation wizard.

   The wizard prepares to remove the 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 Allegro 17.2 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 Cadence Allegro and OrCAD products are already installed, the default path is the installation hierarchy. If products are not installed, the default path is C:\Cadence\SPB_17.2. 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.

5. Click Next.

6. In the Select Features page, select the libraries you want to install.

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 Programs and Features from the Control Panel of Windows.

   Note: Cadence products will appear in Programs and Features 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 Allegro 17.2 Library from the list of currently installed programs.

3. Click Uninstall to launch the installation wizard.

   The wizard prepares to remove the 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.
Installing OrCAD Lite

You can download Lite release version of Cadence OrCAD Lite 17.2-2016 to install Cadence OrCAD personal productivity tools. Depending upon the Lite release version you have downloaded, you will install different sets of productivity tools with certain limits in the size and complexity of the designs.

For detailed information on getting started with Lite products and their limitations with design size and complexity, refer to OrCAD Lite Products Reference.

Installing the Lite Products

You can install Lite products with or without administrative privileges. Without administrative privileges, OrCAD Lite is installed only in the current user mode. With administrative privileges, you can install OrCAD Lite for the current user or for all users. You can have multiple installations of OrCAD Lite 17.2-2016 on a system on current user mode. However, if a OrCAD Lite is installed for all users, the current-user mode installations become redundant. You can also update an existing OrCAD Lite installation if a new update is released by Cadence.

To install OrCAD Lite:

1. Click setup.exe in the Disk1 folder or OrCAD_install.exe of OrCAD 17.2-2016 Lite download.

   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.

2. Click Next to open the License Agreement page.

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

4. 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.
Note: The Anyone who uses this computer [all users] option is available only if you have administrative privileges. You should use this option only if multiple users access the same installation. The Only for me option is recommended.

6. Click Next.

The Installation Settings page appears.

7. Specify the directory where you want to install the products.

Note: For each version of a release, you can only change the destination the first time you install the products. During all subsequent installations, the destination is fixed to the existing directory path. You will no longer be able to change the destination.

8. Click Next.

The Installation Summary dialog box appears.

9. Click Next if you are satisfied with the settings. (Click Back if you want to change any settings.)

The Start Copying Files page appears.

10. Click Install to install the products selected or click Back to review settings.

The Setup Complete dialog box appears.

11. Click Finish.

You can check the View Product Notes checkbox to view product notes. You can also check the Open Cadence Web Page checkbox to open the Cadence Web page.

Check Generate doc index to enable search in Cadence Help to create the index upon completion of installation.

Product installation is complete.

Important

If you installed without administrative privileges, after installation is complete, run the AdminTasks.vbs script with administrative privileges from the <installation_location>\tools\InstallUtils directory. This utility installs the required components and packages and adds firewall exceptions.

You can access the installed products from the Cadence Release17.2-2016 – OrCAD Lite Products options of the Start menu.
Uninstalling the Lite Products

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

2. Select *Cadence OrCAD PCB Designer Lite 17.2* or *Cadence OrCAD PSpice Designer Lite 17.2* depending on the version you had installed.

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

4. Follow the instructions in the wizard to uninstall.
You can use the Cadence Installation and Setup utility to:

■ Configure and complete a installation performed using standard user privileges
■ Update environment variables and the switch release shortcut
■ Enable access to installations performed by another user in the per user mode
■ Remove a release from the Programs and Features list

This chapter discusses the following topics:

- Starting the Installation and Setup Utility on page 57
- Performing Administrative Tasks on page 58
- Updating Environment Variables and Switch Release Shortcut on page 58
- Enabling Access to Installations in Current User Mode on page 59
- Removing a Release on page 60

Starting the Installation and Setup Utility

You can start the utility by double-clicking
<installation_location>\tools\Installutils\InstallConfig.

This utility is also available from the installation CD in the Disk1/InstallUtilities folder.

Start the utility in the normal mode and perform the following to get the page from where you can choose the correction option:

1. Click Next in the Installation Setup Utility page.

The Select an Option page appears. This page has the following options:

- Perform one time system level configuration: Select to complete installation and configure the system to be able to access products installed without administrative rights. See Performing Administrative Tasks on page 58 for more details.
Performing Administrative Tasks

To complete installation and configure system to be able to access products installed without administrative privileges, perform the following steps:

**Note:** It is recommended that you run the batch command
<install_location>\tools\InstallUtils\AdminActions.bat to perform these steps with default values.

1. Select *Perform one time system level configuration*.
2. Click *Next*.
3. Specify the installation location and working directory, if needed. The default values are displayed.
4. Click *Configure*.
5. Click *Finish*.

Updating Environment Variables and Switch Release Shortcut

Perform the following steps to create and update environment variables such as CDSROOT, HOME, CHDL_LIB_INST_DIR, CONCEPT_INST_DIR, OA_PLUGIN_PATH, CDS_LIC_FILE:

1. Select *Configure*.
2. Click *Next*.
3. Specify whether you want to update for per user or all user mode.
4. Specify if you want to configure only environment variable or shortcut or both.
The Cadence SPB Switch Release might point to an incorrect destination after uninstalling Cadence release from a system. To ensure that SPB Switch Release utility is pointing to the correct release, select *Update Switch Release Shortcut*.

You can use the Cadence SPB Switch Release utility from the Start menu to switch between different versions of Cadence installations in your system. For example, if you install the latest release in a system where an earlier release already exists, the earlier or older installation will not be accessible or visible. You can then switch release to be able to access the earlier release.

5. Specify if you want to install other updates and configure firewall.

6. Click *Next*.

7. Specify the paths and additional environment variables.

8. Click *Configure*.

9. Click *Finish*.

**Enabling Access to Installations in Current User Mode**

Cadence® Allegro® and OrCAD® 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 17.2-2016* 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.

**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 you see only the *Configure* option and not any products listed when you choose *Cadence Release 17.2-2016* from the *Start* menu.

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

1. Select *Configure environment to use another user installation*.

2. Click *Next*.

3. Specify the installation location and home directory, if needed.

4. Click *Configure*. 
5. Click Finish.

You can now access the installed products from the Start – Cadence Release 17.2-2016 menu.

Removing a Release

Note: Use Uninstall from Programs and Features of Windows Control Panel to remove installed releases. Using Remove Program and Features Entry will not uninstall shortcuts.

Perform the following steps:

1. Select Remove Program and Features Entry
2. Click Next.
3. Specify the release you want to clean up for removal in the Cleanup Release box.
4. Click Cleanup.
5. Click Finish.
Diagnosing and Repairing Installation and Licensing

Use the Allegro® Install Diagnose utility to identify and repair installation and licensing issues on your system. In addition to the tasks defined in the utility, you can add your own list of tasks to be run.

- Running Install Diagnose
- Adding Custom Tasks

Running Install Diagnose

1. Start the utility by double-clicking `<installation_location>\tools\InstallUtils\InstallDiagnose`.

2. Select a release, say 17.2.

3. Click Run.
The diagnostic tasks performed and their results are listed.

4. Click **Repair** if any failures, marked by a red cross, are listed.

   Click **Run Now** and specify the feature name (say Capture) and release (say 17.2) to test the performance of the license server for that feature.

**Adding Custom Tasks**

In addition to the diagnostic tasks already performed by Install Diagnose, you can add custom tasks by editing

<installation_location>\tools\InstallUtils\InstallDiagnoseCustom.ini

The syntax to add a task is:

[Custom Task Name]
Command=<path to executable>

Argument=[optional list of arguments required to run the command]

WorkingDir=[optional path to working or startup folder required by command]

For example, to add a task named Custom Task1 that runs the command C:\windows\system32\msinfo32.exe, **edit InstallDiagnoseCustom.ini to add the following lines:**

[Custon Task1]

Command=C:\windows\system32\msinfo32.exe

Argument=

WorkingDir=C:\windows\system32\
Downloading, Installing, and Deploying Releases and Updates using Download Manager

This chapter describes the Cadence Download Manager utility that you can use to view, download, install, and deploy releases and updates across an enterprise.

- Viewing Available Releases and Updates
- Downloading and Installing Releases and Updates
- Setting Up Automatic Download and Installation of Updates
- Deploying Across an Enterprise

Viewing Available Releases and Updates

The Download Manager lists all the releases and updates available for download along with information such as release date, version, and status.

You can choose to list releases either from the Internet or from a local cache. You must have a Cadence login ID to use the Internet option. You can specify your login details in the Preferences dialog box. You can also change and set the local cache in the Preferences dialog box.

Access Download Manager by choosing Cadence – Download Manager.

Downloading and Installing Releases and Updates

You can select any listed release and download from the Internet or install from either the Internet or the local cache by clicking the Download or Install buttons.

Note: You can set the Start installation on completion of download option in the Preferences dialog box to automatically start installation when download is complete.

At any time, you can click the View current downloads button to view the status of downloads. You can pause or restart a download from this window.
Setting Up Automatic Download and Installation of Updates

Use the Updates tab of Download Manager to specify settings for automatic download and installation of updates.

1. Click Change Preferences to open the Preferences dialog box.
2. Open the Updates tab.
3. Specify the update mode by selecting an option from the Update Mode list. The available options are Download (default), Download and Install, Notify, and Do Nothing.
4. Select the package you want to schedule for automatic update under Packages.
5. Specify the recurrence settings under Schedule. Set the start time, frequency (in terms of weekly recurrence), and the days of the week.

Deploying Across an Enterprise

You can download releases to a shared location and other users can specify the shared location as their local cache to be able to view and install available releases.

You can download all releases and updates to a shared location.

Other users can perform the following steps to download and install from the shared location:

1. In the Downloads tab of the Preferences dialog, specify the path to the shared location as the local cache.
2. Under Installation Source, select Local Cache.
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 templates of the silent installation files in the Disk1 folder of the installation CD. To perform silent installation modify these files and at the Windows command prompt, enter the relevant command. See the The silentinstall-SPB.ini file section of this chapter for more information on the different fields of the silent installation files.

The following sections provide details about silent or unattended installation:

- Installing License Manager in the Silent Mode
- Installing Products in the Silent Mode
- Installing Client in the Silent Mode
- Installing DEHDL-AMS Library in the Silence Mode
- Performing Maintenance in the Silent Mode
- The silentinstall-SPB.ini file
Installing License Manager in the Silent Mode

1. Navigate to the `Disk1\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 in the Silent Mode

1. Modify the `Disk1\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.
   - **ALWAYS_OVERWRITE**: Specify if existing installations should be overwritten (`ALWAYS_OVERWRITE=Y`), which is the default. Set it to `N` if you want installation to exit and not overwrite if an installation exists.
   - **OVERWRITE_HOME**: Specify if the value of `HOME` should be overwritten with the value specified for `WorkingDir`. By default, the value is set to `Y`.

2. Save the `.ini` file.

3. In the Run dialog box, type the following and then click OK:
Performing Silent Installations

Installing Client in the Silent Mode

1. Modify the Disk1\silentClientinstall-SPB.ini file. You need to modify these three variables:
   - WorkingDir: Specify the home directory
   - FileServerLocation: Specify the server location.
   - ALWAYS_OVERRIDE: Specify if existing installations should be overwritten (ALWAYS_OVERRIDE=Y), which is the default. Set it to N if you want installation to exit and not overwrite if an installation exists.
   - OVERWRITE_HOME: Specify if the value of HOME should be overwritten with the value specified for WorkingDir. By default, the value is set to Y.

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

Installing DEHDL-AMS Library in the Silence Mode

1. Modify the .ini file. You need to modify these three variables:
   - TargetDir: Specify the location where you want to install the library file
   - ALLUSERS: Specify if the installation is for all users, (ALLUSERS=YES), or the current user (ALLUSERS=NO), which is the default.
   - Features: Specify the products that you want to install

2. Run the setup by using the command:

   <path_to_Disk1>\setup.exe !quiet=<path to .ini file>\<.ini file>.

Note: Similar to uninstalling the other installed products, as described in Performing Maintenance in the Silent Mode on page 72, specify OnMaintenance = REMOVEALL in the [state] section to remove installed libraries.
Performing Maintenance in the Silent Mode

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 81 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_VC_REDIST:** Specify Y if you want to update Microsoft Visual C++ Redistributable.
   - **CONFIGURE_FIREWALL:** Specify Y if you want to create firewall entries.
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`
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.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td></td>
</tr>
<tr>
<td>TargetDir</td>
<td>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_17.2 edit the template to read TargetDir=D:\Cadence\SPB_17.2. 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.</td>
</tr>
<tr>
<td>RebootIfReqd</td>
<td>Specify RebootIfReqd=Y if you want the computer to reboot when installation is completed. The default value is N.</td>
</tr>
<tr>
<td>FileServerLocation</td>
<td>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.</td>
</tr>
<tr>
<td>OnMaintenance</td>
<td>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.</td>
</tr>
<tr>
<td>Setting</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Rollback</td>
<td>Specify <code>Rollback=Y</code> in combination with <code>OnMaintenance=REMOVEALL</code>, if you want to perform rollback. Note that Rollback is used to uninstall or remove specific HotFixes.</td>
</tr>
<tr>
<td>IsrBackup</td>
<td>Specify <code>IsrBackup=Y</code> 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 81.</td>
</tr>
<tr>
<td>ALLUSERS</td>
<td>Specify if the installation is for all users (<code>ALLUSERS=YES</code>), or the current user (<code>ALLUSERS=NO</code>), 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.</td>
</tr>
<tr>
<td>GEN_DOC_INDEX</td>
<td>Specify <code>Y</code> to generate document index. Document index are generated and used the online help tool, Cadence Help.</td>
</tr>
</tbody>
</table>

**Important**

Generate document index if you are installing a server that will be accessed by users without write permission on the installation hierarchy. Users will not be able to view or search installed documents if the index is not generated.

| REMOVE_CADENCE_PATH | Specify `Y` to remove Cadence paths from the `PATH` environment variable. By default `N` is specified to ensure paths are not removed. |
Performing Silent Installations

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 Allegro products, remove the semicolon from the beginning of the line `Feature7=Allegro Products`, as shown below.

```
[Features]
;Feature0=OrCAD Products
;Feature1=OrCAD Products\OrCAD Capture CIS
;Feature2=OrCAD Products\OrCAD PSpice Designer
;Feature3=OrCAD Products\OrCAD FPGA System Planner
;Feature4=OrCAD Products\OrCAD PCB Designer
;Feature5=OrCAD Products\OrCAD PCB SI
;Feature6=OrCAD Products\PSpice
Feature7=Allegro 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_VC_REDIST

Specify `Y` if you want to update Microsoft Visual C++ Redistributables.

**Note:** Installed products might not run if `UPDATE_VC_REDIST` is set to `N`.

CONFIGURE_FIREWALL

Specify `Y` if you want to create firewall entries.

ALWAYS_OVERWRITE

Overwrites existing installation if set to `Y`, which is the default.

IKNOWBEST

Specify `IKNOWBEST=YES` if you do not want the installer to check disk space before installation. The valid values are `YES` and `NO`. 
### The silentinstall-SPB.ini file

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERWRITE_HOME</td>
<td>Overwrites the value of HOME with the value specified for WorkingDir if set to Y.</td>
</tr>
<tr>
<td>USE_CTRL_FILE</td>
<td>Specify Y if you want installer to use a control file.</td>
</tr>
<tr>
<td>CTRL_FILE_PATH</td>
<td>Specify the absolute path to the control file. Used if USE_CTRL_FILE is set to Y.</td>
</tr>
<tr>
<td>Features</td>
<td>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.</td>
</tr>
<tr>
<td>Data</td>
<td></td>
</tr>
<tr>
<td>WorkingDir</td>
<td>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.</td>
</tr>
<tr>
<td>FootprintPath</td>
<td>Specify the footprint path; commented by default.</td>
</tr>
<tr>
<td>overwrite-lic-path</td>
<td>Specify the port and host information to overwrite CDS_LIC_FILE. Commented by default.</td>
</tr>
<tr>
<td>append-lic-path</td>
<td>Specify the port and host information to append in CDS_LIC_FILE. Commented by default.</td>
</tr>
</tbody>
</table>

**Note:** See Installing and Configuring License Manager on page 29 for more information on licensing.
Part V - Additional Information

The chapters in this section give 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
- Troubleshooting: Frequently Asked Questions
This document describes available resources for information, recommendations, and websites to help you use the Cadence® Allegro® and OrCAD® tools.

<table>
<thead>
<tr>
<th>Resource</th>
<th>Found in...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Documentation</td>
<td>Context sensitive help, user guides, tutorials, and white papers to help you in the adoption of Cadence tools.</td>
</tr>
<tr>
<td>What’s New in PCB Editor</td>
<td>Help – What’s New</td>
</tr>
<tr>
<td>Known Problems and Solutions</td>
<td>Help – Documentation – Release Info</td>
</tr>
<tr>
<td>System Requirements</td>
<td>Help – Documentation – Release Info</td>
</tr>
<tr>
<td>White papers, Application Notes</td>
<td>Help – Web Resources – Community</td>
</tr>
<tr>
<td>Best Practices</td>
<td>Help – Documentation – Best Practices</td>
</tr>
<tr>
<td>Tutorials</td>
<td>Help – Documentation – Tutorials</td>
</tr>
<tr>
<td>Training</td>
<td>Formal, structured, instructor led, hands-on training in a classroom environment.</td>
</tr>
<tr>
<td></td>
<td>Help – Web Resources – Education Services</td>
</tr>
</tbody>
</table>

**Additional Resources**

| Workshops                               | Contact your Cadence Account Manager for more information.                  |
| Webinars                                | Help – Web Resources – Online Support                                       |
| Feature demos                           | Help – Documentation – Demos                                                |
| SKILL updates                           | `<install_location>/share/pcb/examples/skill/DOC`                           |
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 Programs and Features of the Windows Control Panel to uninstall. In Programs and Features, select the Cadence Allegro and OrCAD release and click **Uninstall**. The uninstall process lets you select between HotFtx 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_17.2
IsrBackup=Y
```

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

```
<hotfix_path>\SPB172_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_17.2
IsrBackup=N
```

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

```
<hotfix_path>\SPB166_ISR.exe !quiet=C:\Silent_ISR.ini
```

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

Switching Versions

You can use Cadence SPB Switch Release to switch between the different Cadence SPB installations earlier than 17.2-2016 in your system. To start this program choose Cadence SPB Switch Release from the Start menu.

Note: You do not require SPB Switch Release to switch between 17.2-2016 and earlier releases.

Once you install 17.2-2016, you should only use the latest version of the Cadence SPB Switch Release 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 Programs and Features from Control Panel of Windows.
2. Navigate to the Cadence License Manager and click Uninstall.

Uninstalling the Products

To Uninstall the Cadence Allegro and OrCAD 17.2-2016 products

1. Open Programs and Features from the Control Panel of Windows.
2. Navigate to Cadence OrCAD and Allegro (Incl ADW) 17.2 and click Uninstall.

Troubleshooting Installation

The Cadence Allegro and 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]
```

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-c license_file</td>
<td>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 <code>CDS_LIC_FILE</code>, the clients file, or the <code>LM_LICENSE_FILE</code>, in that order.</td>
</tr>
<tr>
<td>-d days_to_expire</td>
<td>Include only those licenses expiring within the specified number of days. The default is to return only those licenses expiring today.</td>
</tr>
<tr>
<td>-m email_address</td>
<td>Send the expiration report to the specified address. The report is also written to the command prompt.</td>
</tr>
<tr>
<td>features</td>
<td>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).</td>
</tr>
</tbody>
</table>

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.
Troubleshooting: Frequently Asked Questions

This chapter contains frequently asked troubleshooting questions and their solutions.

■ How do I uninstall the Release 17.2-2016 software manually?

■ How can I install Release 17.2-2016 into different locations with the same DVD image from the same machine?

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

■ Although I have administrative rights, when I install 17.2-2016 on Server 2008 machine, why is the following message displayed: The system administrator has set policies to prevent this installation?

■ Although I have administrative rights, when I install 17.2-2016 on Server 2008 machine, why is the following message displayed: The system administrator has set policies to prevent this installation?

■ How do I use an older release after installing a newer release?

■ How do I use an older release after installing a newer release?

■ How do I correct the Cadence Switch Release shortcut?

■ How do I configure or enable the license manager?

■ Installed applications fail to start on my system with configuration error (0xc0000013). What can I do to solve this problem?

■ Why is the firewall exception list updated at the end of installation?

■ Do I need to update the `/etc/hosts` file manually on RHEL systems?

How do I uninstall the Release 17.2-2016 software manually?

1. Open Programs and Features from the Control Panel of Windows.

2. Select *Cadence OrCAD and Allegro (Incl ADW) 17.2*.

3. Click *Uninstall* to launch the installation wizard.
4. Follow the instructions in the wizard to uninstall the products.

**How can I install Release 17.2-2016 into different locations with the same DVD image from the same machine?**

Release 17.2-2016 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, and so on) 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.

**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`.

**Although I have administrative rights, when I install 17.2-2016 on Server 2008 machine why is the following message 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.

How do I use an older release after installing a newer release?

**Answer:** When you install a new release in a system with an earlier release, you can use the Switch Release utility to switch between the installed releases. From the Start menu, choose Cadence SPB Switch Release. Select the release under Select Release and click OK. Click Help to open the PDF help for the Switch Release utility. You might need to run this utility in the compatibility mode (right-click and choose Troubleshoot compatibility) on Windows Vista and 7 systems if your installation is in the all user mode.

How do I correct the Cadence Switch Release shortcut?

**Answer:** To correct Cadence SPB switch Release:

1. Double-click InstallConfig from tools\InstallUtils in your installed hierarchy.
2. Click Next.
3. Select CONFIGURE and click Next.
4. Select Update Switch Release Shortcut and click Next.
5. Specify path and select to update variable, if needed and click Configure.
6. Click Finish.

How do I configure or enable the license manager?

**Answer:** From the start menu, choose Cadence – Release <version> - License Client Configuration Utility. Specify the port and hostname of the license server(s) you want to use, and then click Next. Specify the port and host name in the form of portname@hostname; for example, 5280@sjlic01. 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.
Installed applications fail to start on my system with configuration error (0xc0000013). What can I do to solve this problem?

**Answer:** This problem can arise if the Microsoft 2005 SP1 Redistributable Package installed on your system is changed due any reason, such as by a third party software. Install the package from the `<installation>\tools\mbase` directory. Refer to the `README` available in the directory for more information.

Why is the firewall exception list updated at the end of installation?

**Answer:** The installer creates a firewall exception list to enable communication between the installed Cadence products. The exception list contains only those Cadence products that need to create ports.

Do I need to update the `/etc/hosts` file manually on RHEL systems?

**Answer:** On some RHEL systems, you might need to update the `/etc/hosts` file with the server name, if it is not updated by default. If you receive any error regarding server name not being in the network database, verify the host name in `/etc/hosts` or equivalent database.

You might see the following error in case of license server:

**ERROR (LM -8): can't find SERVER hostname server in network database**

Verify that the application client can reach the license server using the command listed below, replacing `hostname` with the name of the license server.

<table>
<thead>
<tr>
<th>Platform</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP Series 700</td>
<td><code>/usr/bin/telnet hostname</code></td>
</tr>
<tr>
<td>Other platforms</td>
<td><code>/usr/ucb/telnet hostname</code></td>
</tr>
</tbody>
</table>

Use the host name listed in the license file.
Appendix A: Access Levels and Installations

It is not possible to install Cadence® Allegro® and OrCAD® 17.2-2016 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 the products installed by another user using the current user (Only for me) mode, you must configure the installation by choosing Cadence Release 17.2-2016 – Configure from the Start menu. Refer to Enabling Access to Installations in Current User Mode 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.

<table>
<thead>
<tr>
<th>First Installation</th>
<th>Second Installation</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.
<table>
<thead>
<tr>
<th>Library for current user</th>
<th>Products for current user</th>
</tr>
</thead>
</table>
| CHD_LIB_INST_DIR is set in **both** system and user space to library installation path. | **CHD_LIB_INST_DIR** is set in **user space** to product installation path.

*Caution*

*In this case, products will not find the installed libraries.*

<table>
<thead>
<tr>
<th>Library for all users</th>
<th>Products for current user</th>
<th>Products for all users</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHD_LIB_INST_DIR is set in <strong>both</strong> system and user space to library installation path.</td>
<td><strong>CHD_LIB_INST_DIR</strong> is set in <strong>user space</strong> to product installation path.</td>
<td></td>
</tr>
<tr>
<td><strong>As a result, products will not find the installed libraries.</strong></td>
<td><strong>CHD_LIB_INST_DIR</strong> is set to library installation path in <strong>user space</strong> and to product installation path in <strong>system space</strong>.</td>
<td></td>
</tr>
</tbody>
</table>
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:

<table>
<thead>
<tr>
<th>First Installation</th>
<th>Second Installation</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product for current user</td>
<td>Library for current user</td>
<td>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.</td>
</tr>
</tbody>
</table>
| CHD_LIB_INST_DIR is set in user space (of user installing product) to product 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.