

Installing Optegra[®]
Applications

Optegra Release 6

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Preface

Installing Optegra Applications contains information and instructions for loading Optegra applications and PTC documentation.

Related Documents

The following documents may be helpful as you use *Installing Optegra Applications*:

- *Using the License Manager*
- *Installing EPD.Connect, EPD Roles, and EPD.Visualizer*
- *Installing Vault and Locator*
- *Locator/PC User Guide*
- *Information Browser User Guide*

Book Conventions

The following table illustrates and explains conventions used in writing about Optegra applications.

Convention	Example	Explanation
EPD_HOME	cd \$EPD_HOME/install (UNIX) cd %EPD_HOME%\install (Windows)	Represents the default path where the current version of the product is installed.
Menu selections	Vault > Check Out > Lock	Indicates a command that you can choose from a menu.
Command buttons and options	Mandatory check box, Add button, Description text box	Names selectable items from dialog boxes: options, buttons, toggles, text boxes, and switches.
User input and code	Wheel_Assy_details -xvf /dev/rst0 Enter command> plot_config	Enter the text in a text box or on a command line. Where system output and user input are mixed, user input is bold.
System output	CT_struct.aename	Indicates system responses.
Parameter and variable names	tar -cvf /dev/rst0 filename	Supply an appropriate substitute for each parameter or variable; for example, replace filename with an actual file name.
Commands and keywords	The ciaddobj command creates an instance of a binder.	Shows command syntax.
Text string	"SRFGROUPA" or 'SRFGROUPA'	Shows text strings. Enclose text strings with single or double quotation marks.
Integer	n	Supply an integer for <i>n</i> .
Real number	x	Supply a real number for <i>x</i> .
#	# mkdir /cdrom	Indicates the root (superuser) prompt on command lines.
%	% rlogin remote_system_name -l root	Indicates the C shell prompt on command lines.

Convention	Example	Explanation
\$	\$ rlogin remote_system_name -l root	Indicates the Bourne shell prompt on command lines.
>	> copy filename	Indicates the MS-DOS prompt on command lines.
Keystrokes	Return or Control-g	Indicates the keys to press on a keyboard.

Online User Documentation

Online documentation for each Optegra book is provided in HTML if the documentation CD-ROM is installed. You can view the online documentation from an HTML browser or from the HELP command.

You can also view the online documentation directly from the CD-ROM without installing it.

From an HTML Browser:

1. Navigate to the directory where the documents are installed. For example,
 - \$EPD_HOME/data/html/htmldoc/ (UNIX)
 - %EPD_HOME%\data\html\htmldoc\ (Windows NT)
2. Click `mainmenu.html`. A list of available Optegra documentation appears.
3. Click the book title you want to view.

From the HELP Command:

To view the online documentation for your specific application, click HELP. (Consult the documentation specific to your application for more information.)

From the Documentation CD-ROM:

1. Mount the documentation CD-ROM.
2. Point your browser to:
 - CDROM_mount_point/htmldoc/mainmenu.html (UNIX)
 - CDROM_Drive:\htmldoc\mainmenu.html (Windows NT)

Printing Documentation

A PDF (Portable Document Format) file is included on the CD-ROM for each online book. See the first page of each online book for the document number referenced in the PDF file name. Check with your system administrator if you need more information.

You must have Acrobat Reader installed to view and print PDF files.

The default documentation directories are:

- `$EPD_HOME/data/html/pdf/doc_number.pdf` (UNIX)
- `%EPD_HOME%\data\html\pdf\doc_number.pdf` (Windows NT)

Resources and Services

For resources and services to help you with PTC (Parametric Technology Corporation) software products, see the *PTC Customer Service Guide*. It includes instructions for using the World Wide Web or fax transmissions for customer support.

Documentation Comments

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- Send comments electronically to `doc-webhelp@ptc.com`.
- Fill out and mail the PTC Documentation Survey located in the *PTC Customer Service Guide*.

Overview of Installation

This chapter provides an overview of installing Optegra applications.

- Software Installation Process
- Acquiring and Using an EPD License File
- Installing Applications for First Use

Software Installation Process

All Optegra applications are packaged on one CD-ROM for each operating system environment.

To install Optegra applications:

1. Read the Release Notes for any last-minute information related to the hardware or software.
2. Check the system requirements for each application before you begin installing the applications from the CD.
 - For system requirements on Windows, refer to “System Prerequisites” on page 2-2.
 - For system requirements on UNIX platforms, refer to “System Prerequisites” on page 3-2.
3. Install Oracle if you are installing the Vault server. Instructions on installing Oracle are available in *Installing Vault and Locator*.
4. Apply for licenses. For details, refer to the other chapters in this book and *Using the License Manager*.
5. Install the software the Software License Manager from the Optegra CD-ROM.
 - For installing the applications on Windows, refer to “Installing Applications” on page 2-6.
 - For installing the applications on UNIX platforms, refer to Chapter 4, “Installing Applications on UNIX Platforms.”

For some applications, installation is complete after this step.

6. Install the HTML and PDF files for the documentation. For details, refer to Chapter 7, “Documentation”.
7. Start the EPD License Manager Daemon. For complete information on how to receive, install, and use the EPD license daemon and license files, refer to *Using the License Manager*.
8. Set up and configure the application for its first use. See the installation guides referred to in “Installing Applications for First Use” on page 1-3.

Acquiring and Using an EPD License File

All Optegra applications require an Electronic Product Definition (EPD) license file. Request your updated licenses through your local services representative. The license files have the following default path names:

- Operating systems based on UNIX —
/usr/cvswlm/epd/epd.licences
- Windows — c:\cvswlm\epd\epd.lic

On Windows NT, after the license manager and the license file has been installed, start the FLEXlm License Service. For more information on installing the license file, refer to *Using the License Manager*.

The following Optegra applications are not licensed by *session* floating licenses. The method is indicated in the table below.

Table 1-1 Optegra Applications not Licensed by Floating Licenses

Application	License	License Type
Distributed Vault	DistVault	Domain. One per Vault.
Oracle	Oracle	Concurrent database access.
Programming	Programming	Domain. One per License Manager's domain.
Vault	Vault	Domain. One per Vault.

For more information on licenses, refer to *Using the License Manager*.

Installing Applications for First Use

After installing the selected software, follow the post-installation or configuration instructions described in the appropriate installation guide.

Refer to the following documentation, as required.

- For EPD.Connect and its interfaces, see *Installing EPD.Connect, EPD.Roles, and EPD. Visualizer*.
- For Vault, Distributed Vault, Programming, see *Installing Vault and Locator*.
- For the Vault client, see *Installing Vault and Locator (UNIX) or Locator/PC User Guide (Windows)*.
- For Information Browser, see *Information Browser User Guide*.

Installing Applications on Windows

This chapter describes the procedure for installing Optegra applications on Windows.

- System Prerequisites
- Installing Applications
- Removing Applications
- Installation Stamping

System Prerequisites

This section describes the disk space, hardware and software requirements for installing Optegra on Windows.

Disk Space Requirements

Before you install Optegra, determine the total disk space required.

The following table provides the disk space requirements for each Optegra application.

Table 2-1 Approximate Disk Space Required in Kilobytes

Application/Option	Approximate Disk Space Required
Administrator	2800
AutoCAD Interface	50
CATIA Support	80
Distributed Vault	19000
EPD.Connect	47000
Information Browser	31000
License Manager	800
Locator	29000
MEDUSA Support	80
Pro/ENGINEER Interface	300
Pro/ENGINEER Support	80
Programming	25000
Programming SDK	650
Vault Server	211000

Hardware and Software Requirements

The hardware and software requirements for each application are listed in the following table.

Table 2-2 Hardware and Software Requirements

Application	Hardware Requirements	Software Requirements
Optegra	CD-ROM drive for installing the applications	Windows operating system:
	VGA monitor or higher	For Optegra servers —
	Ethernet	Windows NT 4.0 with Service Pack 5
	At least one tape drive for backing-up data (either 4-millimeter or 8-millimeter tape format). Tape drives must be local with Optegra Vault for Windows NT.	For Optegra clients — Windows 98 Windows 2000 Windows NT 4.0 with Service Pack 5, 6
Programmer	Same as Optegra	VC++ 6.0 Compiler Service pack 3
		Oracle8i Release 3 (8.1.7).
Vault Server	Same as Optegra	Windows NT 4.0 with Service Pack 5
		Oracle8i Release 3 (8.1.7).

System and Memory Requirements

The system and memory requirements for each application are listed in the following table.

Table 2-3 System and Memory Requirements

Application	Windows	Minimum Memory (in MB)	Recommended Memory (in MB)	System
Administrator	98	32	64	Pentium or higher
	2000	64	128	Pentium or higher
	NT	32	64	Pentium or higher

Table 2-3 System and Memory Requirements (Continued)

Application	Windows	Minimum Memory (in MB)	Recommended Memory (in MB)	System
AutoCAD Interface	98	32	64	Pentium or higher
	2000	64	128	Pentium or higher
	NT	32	64	Pentium or higher
CATIA Support	Not supported on Windows			
Distributed Vault	98	Not supported		
	2000	Not supported		
	NT	128	256	Pentium or higher
EPD.Connect	98	32	64	Pentium or higher
	2000	64	128	Pentium or higher
	NT	32	64	Pentium or higher
Information Browser	98	64	128	Pentium or higher
	2000	64	128	Pentium or higher
	NT	64	128	Pentium or higher
License Manager	98	32	64	Pentium or higher
	2000	64	128	Pentium or higher
	NT	64	128	Pentium or higher
Locator/PC	98	32	64	Pentium or higher
	2000	64	128	Pentium or higher
	NT	32	64	Pentium or higher
MEDUSA Support	Not supported on Windows			
Pro/ENGINEER Interface	98	32	64	Pentium or higher
	2000	64	128	Pentium or higher
	NT	32	64	Pentium or higher
Pro/ENGINEER Support	98	32	64	Pentium or higher
	2000	64	128	Pentium or higher
	NT	64	128	Pentium or higher
Vault Server	98	Not supported		
	2000	Not supported		
	NT	128	256	Pentium or higher

Configuration Requirements

The configuration requirements for the Vault server are:

- Ensure that the TEMP environment variable has been set to wherever your TEMP directory is located. Set it for User Variables for Administrator on the Environment tab of the System panel. For example, C:\TEMP.
- Format and configure a minimum of two storage pool partitions on NTFS drive before you install Vault. See the *Vault Administrator for Windows NT User Guide* for details.

Environment Space Requirements

To provide enough environment space for EPD.Connect, add information to the `config.sys` file. Otherwise, while setting many environment variables in the batch files, you will often see the message `Running out of environment space`.

1. To increase the environment space, add the following line to the `config.sys` file:

```
SHELL=c:\command.com /p /e:4096
```

The number 4096 would increase in increments of 1024 (1024, 2048, 3072, 4096, and so on).

2. Restart the PC.

Installing Applications

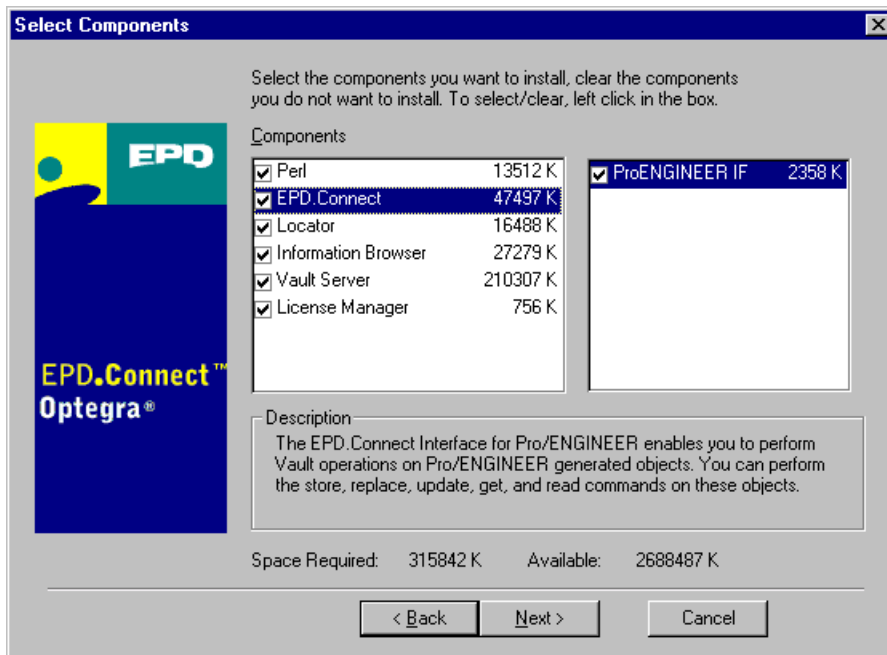
This section describes the installation process for Optegra applications.

Client Applications

To install Optegra client applications:

1. Put the Optegra CD-ROM into the CD-ROM drive.

The installation process begins. During installation, the Select Components window appears. If the Select Components window fails to appear execute `setup.exe` from the CD-ROM drive.



2. Choose the applications you want to install. Highlight a component to display its description.

The following table contains the descriptions of application components.

Table 2-4 Optegra Applications for Windows

Application	Option	Description
Perl	—	Perl is installed as a separate component and needs to be installed only once. The Perl installation works as follows: Perl is installed only once, as long as the Perl version required is the same (applicable for Perl revision 5.00502 and above), even if the Optegra release changes. The PERL_PATH is modified accordingly during installation. If an Optegra component using Perl is selected for installation, Perl is installed automatically, if it is not already installed on the target machine. Multiple versions of Perl are maintained to support Optegra products using different Perl versions.
EPD.Connect	—	EPD.Connect links electronic product definition (EPD) applications in a common desktop environment. It provides access and interconnection between software tools used in the EPD process.
	EPD Interface for Pro/ENGINEER	The EPD.Connect Interface for Pro/ENGINEER enables you to perform Vault operations on Pro/ENGINEER generated objects through EPD.Connect. Required files to add Pro/ENGINEER support to the Vault.
Locator	—	Used with Vault in client-server systems. Locator organizes and manages any type of electronic document.
	Administrator	Used with Vault in client-server systems. Administrator provides system and project administration tasks.
	AutoCAD Interface	Used with Vault in client-server systems. AutoCAD Interface stores AutoCAD drawings and any related files.
	Programming SDK	Used to customize Locator commands.
Information Browser	—	Information Browser enables hierarchical navigation through local file system and Vault database, along with customizable menu setup and data source plugin capability.

Table 2-4 Optegra Applications for Windows (Continued)

Application	Option	Description
Vault Server	—	An electronic data management (EDM) tool used to organize and manage the data required for designing and manufacturing a product.
	Distributed Vault	Provides access to objects across multiple Vaults (servers) that are connected in a distributed, cooperative arrangement.
	Programmer	Provides information and instructions for writing applications using the Vault programmatic interface and command triggers.
	CATIA Support	The EPD.Connect Interface for CATIA enables you to perform Vault operations on CATIA generated objects. You can perform the STORE, REPLACE, UPDATE, GET, and READ commands on these objects.
	MEDUSA Support	The EPD.Connect Interface for CATIA enables you to perform Vault operations on MEDUSA generated objects. You can perform the STORE, REPLACE, UPDATE, GET, and READ commands on these objects.
	Pro/ENGINEER Support	The EPD.Connect Interface for Pro/ENGINEER enables you to perform Vault operations on Pro/ENGINEER generated objects through EPD.Connect. Required files to add Pro/ENGINEER support to the Vault.
License Manager	—	The Software License Manager grants or refuses permission to use an application. You cannot use applications without the License Manager.

3. Click Next.
4. Continue with the installation process until it is completed. A message appears informing you of a successful installation.

Using a Shortcut to Launch Client Applications

The installation of Optegra applications creates a shortcut menu for launching client applications. To use this shortcut menu, choose Start > Programs > EPD.Connect and Optegra > application name. For example, choose Start > Programs > EPD.Connect and Optegra > EDP:Connect to launch EPD.Connect.

For EPD.Connect, we recommend you to modify the shortcut properties on Windows 95 to close the MS-DOS window so that it does not remain a part of the taskbar and to avoid running out of environment space when launching the applications.

To modify the shortcut property:

1. On the taskbar, right-click Start.
2. Click Explore. The Exploring Start Menu appears.
3. Open the Programs folder from the right panel.
4. Open the EPD.Connect and Optegra folder (default folder name).
5. Right-click EPD.Connect. Select Properties.
6. Click Program.
7. Select Close on Exit. Click Apply.
8. Select Memory.
9. Change the Initial Environment to 4096.
10. Click OK.

Please note: Close on Exit, Memory, Initial Environment applies only to EPD.Connect.

Server Applications

This section describes the installing process for Optegra Server Applications.

Please note: To install these applications, you must login using administrator privileges. The license server is always installed the C:\CVswlm folder. The README_License.txt file assists you in acquiring a license. For more information on licenses, refer to *Using the License Manager*.

Vault Server

To install the Vault Server Applications on Windows NT:

1. Log in with Administrator privileges.
2. Put the Optegra CD-ROM into the CD-ROM drive.

The installation process begins. During installation, the Select Components window appears. If the Select Components window fails to appear, execute `setup.exe` from the CD-ROM drive.

3. Select Vault Server. Select any other option except Distributed Vault. Click Next.

Please note: Table 2-4 contains descriptions of components you can install. Highlight a component to display its description.

4. The Select Oracle SID window appears. Select the Oracle SID. Click Next.
5. The Default Directories window for Tablespaces appears. Select the directory. Click Next.
6. The Default Directories window for Rollback appears. Select the directory. Click Next.
7. The Select Components window appears. Choose the Default Revision Sequence for Vault files. Click Next.
 - Numbers — consists of 500 codes from 1 to 500. This is the default sequence.
 - Alphabets — consists of 702 codes from A to ZZ.
 - Letters — a special case of alphabet that consists of 552 codes from A to ZZ that do not use the letters I, O, or Q.

The default sequence automatically applies to the public authority scheme. Changing the default revision sequence does not change the revision of the existing files. For information on revision sequences, refer to the *Vault Administrator for Windows NT User Guide*.

8. The Select Programs Folder window appears. This does not apply for the Vault Server. Click Next.
9. The Start Copying Files window appears. Click OK.
10. Refer to the *Optegra Release Notes* after the installation is complete. For a list of documents you would need to refer after installing, refer to Appendix B, “Documentation Map”.

Distributed Vault

Before installing Distributed Vault, ensure that you have installed and configured Vault Server.

1. Log in with Administrator privileges.
2. Put the Optegra CD-ROM into the CD-ROM drive.

The installation process begins. During installation, the Select Components dialog box appears.

3. Select Vault Server and Distributed Vault option. Click Next.
4. The Select Components window appears. Choose the default revision sequence for Vault files. Click Next.

Select any of three revision code sequences as the default:

- Numbers — consists of 500 codes from 1 to 500. This is the default sequence.
- Alphabets — consists of 702 codes from A to ZZ.
- Letters — a special case of alphabet that consists of 552 codes from A to ZZ that do not use the letters I, O, or Q.

The default sequence automatically applies to the public authority scheme. Changing the default revision sequence does not change the revision of the existing files. For information on revision sequences, refer to the *Vault Administrator for Windows NT User Guide*.

5. The Distribute Object directory (DOD) window appears. This window allows you to decide whether you want the DOD on this vault.
6. Select Local DOD or Remote DOD to specify whether the DOD Vault is local or remote. Click Next.

Selecting Local DOD will make your machine a DOD. If you select Remote DOD you will be prompted for a DOD Vault name.

7. Refer to the *Optegra Release Notes* after the installation is complete. For a list of documents and where you would need to go from this book refer Appendix B, “Documentation Map”.

Removing Applications

This section describes the procedure for removing applications.

Client Applications

To remove client applications from the system:

1. Choose Start > Settings > Control Panel > Add/Remove Programs.
2. Select the application you would like to remove from the list of applications.

The options of an application are not displayed in the list. When an application is selected, all its options are removed.

3. Click Add/Remove.

Perl

Perl is not removed even when all the Optegra products are removed. To remove a Perl version, choose Start > Settings > Control Panel > Add/Remove Programs.

Server Applications

To remove Vault Server and the Distributed Vault:

1. Stop the Optegra Service.
2. Run `setup.exe` from the CD-ROM drive.
3. The Select Component window appears. Select Vault Server and if required, Distributed Vault.
4. A window appears asking you if you would like to:
 - Uninstall
 - Refresh
5. Select Uninstall. Click Next.
6. After the uninstall process is finished choose Start > Settings > Control Panel > Add/Remove Programs.
7. Select Vault Server or Distributed Vault from the list of applications.
8. Click Add/Remove.

Installation Stamping

The Installation Stamping occurs during the installation of Optegra applications on Windows. For each application and any of its options, information is stored in the following Windows registry:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Parametric Technology Corporation\application\release-language
```

Where the language is English, Japanese, French or German.

For example:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Parametric Technology Corporation\EPD.Connect\3.1-English  
EPD.Connect:          7-14-98  
Install Directory:    %EPD_HOME%  
Install Build:        OPTEGRA_R310_V57.11.03
```

If there are any options installed with EPD.Connect, the option and its date of installation is listed.

To view this information do the following:

1. On the taskbar click Start > Run. Enter **regedit** and click OK. This launches the Registry Editor dialog box.
2. Click + next to HKEY_LOCAL_MACHINE.
3. Click + next to SOFTWARE.
4. Click + next to Parametric Technology Corporation and then the application that you have installed.

System Prerequisites for UNIX Platforms

This chapter defines the hardware and software requirements for the installation of Optegra applications on systems based on UNIX.

- System Prerequisites
- Disk Space Requirements
- Installation Considerations

System Prerequisites

To install Optegra, you must meet the hardware and software requirements as listed in the table below.

Table 3-1 System Prerequisites for UNIX Platforms

	Operating System		Environment	Hardware
	Server	Client		
Compaq Tru64 UNIX	4.0E, 4.0F	4.0E, 4.0F	Motif 1.2	Alpha 3000 AXP
HP HP-UX	11	11, 11 <i>i</i>	Motif 2.1	All supported HP systems
IBM AIX	4.3.3	4.3.3	Motif 2.1	Risc System 6000
SGI IRIX	6.5	6.5	Motif 1.2	Indigo, Indigo II, Challenge Series
Sun Solaris	2.6, 8	2.6, 7, 8	Motif 1.2	All supported Sun systems

In addition, you must have the following:

- CD-ROM drive for installing software
- Experience using operating systems based on UNIX
- Knowledge of loading tapes and making mandatory and temporary fixes
- Familiarity with the software maintenance, structure, and procedures
- Experience with Oracle8*i* Release 3 (8.1.7)
- C compiler, for using Vault Programming
- At least one tape drive (Exabyte 8-mm tape or 4-millimeter DAT)
- Ethernet IEEE 802.3 transceiver and controller

Disk Space Requirements

Before you install Optegra software, determine the total disk space requirements. This section covers disk space for the Optegra software as well as tablespaces, swap space, and storage pools.

Software Disk Space

The table below gives disk space requirements for each Optegra product and the Oracle8i Server software. SQL*Plus, an optional product, is listed separately.

Please note: N/A in the table below indicates that the application is not available on that operating system.

Table 3-2 Approximate Disk Space in Megabytes

Application	Compaq Tru64 UNIX	HP HP-UX	IBM AIX	SGI IRIX	Sun Solaris
All Clients	-	202	-	-	199
All Servers	150	259	300	198	275
CADDS 5	5	7	7	6	9
CATIA	N/A	14	4		13
Distributed Vault	161	215	178	187	230
EPD.Connect		109	12		89
EPD.Design Engineer	5	118	18	5	99
EPD.Designer	5	118	18	5	99
EPD.Drafter	5	118	18	5	99
EPD.Explorer		106	12		86
EPD.Manufacturing Engineer	5	118	18	5	99
EPD.PDM Administrator	147	339	307	198	348
EPD.Product and Process Management	147	320	298	185	333
EPD.Visualizer		34			29
Information Browser	85	85	85	85	23
License Manager		8KB	1.5KB		2
Locator	217KB	74	32	218KB	73
MEDUSA		13	N/A		11
PRO/ENGINEER	N/A	11	4		8
Programming		33	24		34
STEP	N/A	18	N/A		19
Vault	147	205	168	172	215

Tablespaces, Storage Pools, and Swap Space

After you know the software disk space, consider the space required for tablespaces, storage pools, and swap space.

Table 3-3 Approximate Disk Space in Megabytes

Disk Space	Operating Systems (All)
Storage Pools (each)	50-70
Swap Space	24+
Tablespaces	150

Tablespaces

Tablespaces include 8 megabytes for EDM_TEMPSPACE and 66 megabytes for EDM_ROLLSPACE. If you plan to use an existing Oracle8i database for Optegra applications, the rollspace and temp space may not be needed.

Please note: Distributed Vault adds 60MB to the Oracle8i tablespace files for a total of 180MB of tablespace.

Storage Pools

A minimum of two storage pools of 50-70 megabytes for each storage pool for a vault or distributed vault is recommended.

Swap Space

Optegra software requires a minimum of 16 megabytes of swap space, with a recommended 24 megabytes. In addition, 2 megabytes of swap space is required for each extra Optegra process that is defined in the `nsm.config` file. This is above the default at the time of installation.

Determining Disk Space Requirements

To determine the disk space required for an Optegra installation, add the disk space for the product software to the disk space for other disk space requirements. The example below is for the Solaris operating system. For a

different operating system or for different product selections, modify the example with the disk space figures in this chapter.

Table 3-4 Determining Disk Space Requirements

Distributed Vault (optional)	148 - 139 = 9 (difference for DV modules)
Oracle8i Server Release 3 (8.1.7) and PL/ SQL	170
Programming (optional)	25
Vault	139
Subtotal	343 MB
Storage pools	500 (50 MB x 10)
Swap space	24
Tablespaces	180 (120 MB for Vault + 60 MB for DV)
Subtotal	704MB
Total	1047MB

For an upgrade from a previous release, calculate the additional disk space requirements by referring to the previous tables on disk space.

Installation Considerations

Consider the following situations before installation.

Before Installing Locator

Before installing Locator (Vault client), decide which directory should contain the product distribution. This value is stored in `$EDM_HOME`. Copy the `pm.config` file into the `data` subdirectory of the Locator account.

If you had previously installed Locator to `/usr/apl/pdm` directory, copy the `pm.config` file to a non-PDM directory before you install Locator. Then delete all files in `/usr/apl/pdm`. After you install Locator, copy the `pm.config` file to the `data` subdirectory.

Restarting the Vault Processes

After you edit the network configuration files, use `nsmstop` and `nsmstart` to bring down the Vault processes and restart them. This allows the network to recognize the new client nodes.

Each of the NSM commands (`nsmstop`, `nsmstart`, `nsmflush`, and `nsmquery`) offer online help. If you need to know how to execute an NSM command, enter the command name followed by `help`. For example:

```
nsmstop help
```

Ensuring SWLM Software Compatibility

After installing any applications, determine if you need to install the latest Software License Manager (SWLM) software on your license servers. You must verify that the revision for the SWLM software is 5.12. To do this execute the following:

```
# cd /usr/CVswlm/bin  
# lmver lmgrd
```

If this returns a revision lower than 5.12, then you must reinstall the 5.12 SWLM software from the Optegra distribution media by selecting it from the installation main menu. Before installing, be sure to stop the SWLM daemons. (Refer to *Using the License Manager* for details on how to stop and start SWLM daemons.)

Installing Applications on UNIX Platforms

This chapter provides instructions for installing Optegra client and server applications on an UNIX-based system using the Software Loading Installation Command (SLIC).

Refer to Chapter 3, “System Prerequisites for UNIX Platforms” for system prerequisites and other system related information before installing any application.

- Specifying the Installation Directory
- HP HP-UX Operating Environment
- Sun Solaris Operating Environment
- SGI IRIX Operating Environment
- Compaq Tru64 UNIX Operating Environment
- IBM AIX Operating Environment
- Overview of SLIC
- Running the Novice Version of SLIC
- Running the Expert Version of SLIC
- Installing Packages Based on EPD Roles

Specifying the Installation Directory

When the applications are installed from the CD-ROM, the default installation directory is `/opt/epd`. To install the applications in a different directory:

- Change the installation directory through the disk setup.
OR
- Create a link to the `/opt/epd` directory before running SLIC.

Creating a Link

To create a link to the `/opt/epd` directory:

1. Create an `epd` directory:

```
mkdir filesystem_x/epd
```

2. Create a link to the `epd` directory:

```
ln -s /filesystem_x/epd /opt/epd
```

HP HP-UX Operating Environment

This section provides installation instructions for the HP HP-UX operating environment.

Local System Installation Instructions

These procedures are for systems with a CD-ROM caddy or a CD-player. Optegra applications run only on HP-UX.

1. Log on the system as `root` user.
2. Create the mount directory for the CD-ROM:

```
# mkdir /cdrom
```
3. Place the Optegra CD-ROM in the CD-ROM caddy and insert the caddy in the CD-player (or place the CD-ROM directly in the CD-player on new servers).
4. Mount the CD-ROM:

```
# /etc/mount -rF cdfs /dev/dsk/c1t2d0/ cdrom
```

where `n` is the device number, usually, 1.

Please note: Use the System Administration (SAM) utility to find out the device number. For more details, refer to Appendix A, “Finding the Device Number on UNIX Platforms”.

5. Invoke the SLIC utility:

```
# /cdrom/hp_ux11/install/slic
```

Please note: Follow the directions later in this chapter for detailed instructions on using SLIC.

6. Install the required products using the SLIC utility.

7. Unmount the CD:

```
# /etc/umount /cdrom
```

8. Eject the CD-ROM caddy from the CD-player with the button on the CD-player. Remove the CD-ROM. (On new HP servers, remove the CD-ROM from the CD-player.)

Remote System Installation Instructions

On the host system:

1. Log on the system as `root` user.

2. Create the mount directory for the CD-ROM:

```
# mkdir /cdrom
```

3. Place the Optegra CD-ROM in the CD-ROM caddy and insert the caddy in the CD-player (or place the CD-ROM directly in the CD-ROM player on new HP servers).

4. Mount the CD-ROM:

```
# /etc/mount -rF cdfs /dev/dsk/c21td0 /cdrom
```

where `n` is the device number, usually, 1.

5. Enable access to the remote system by adding the following to the `/etc/exports` file:

```
# /cdrom -ro
```

6. Use the SAM utility to export the `/cdrom` directory.

On the local system:

1. Log on the system as `root` user.

2. Create the mount directory for the CD-ROM:

```
# mkdir /cdrom
```

3. Mount the CD-ROM from the remote system:

```
# mount cd-host:/cdrom /cdrom
```
4. Invoke the SLIC utility:

```
# /cdrom/hp_ux1020/install/slic
```
5. Install the required products using the SLIC utility.
6. Unmount the CD-ROM on both the host and local systems:

```
# /etc/umount /cdrom
```
7. Eject the CD-ROM caddy from the CD-player and remove the CD-ROM (on newer HP servers, you remove the CD-ROM from the CD-player).
8. Change the port number used by the “SW” tools on the HP vault systems from 2121 to another setting. For more details on why this needs to be done and the procedure, refer to “HP HP-UX General Issues” on page 5-5.

Sun Solaris Operating Environment

This section provides installation instructions for the Sun Solaris operating environment.

Local System Installation Instructions

These instructions assume that the Solaris Volume Manager is enabled (the default). If you have stopped it, restart it with this command:

```
# /etc/init.d/volmgt start
```

1. Log on the system as root user.
2. Start OpenWindows:

```
# /usr/openwin/bin/openwin
```
3. Create the mount directory for the CD-ROM:

```
# mkdir /cdrom
```
4. Place the Optegra CD-ROM in the CD-ROM caddy and insert the caddy in the CD-player.
5. Allow the Volume Manager to mount the CD-ROM (automatic when you insert the caddy in the CD-player). A File Manager display appears on the screen.

If the Volume Manager fails to mount the CD-ROM, enter:

```
# /usr/bin/volcheck
```

If the CD-ROM still does not mount, check to see if the `/usr/sbin/vold` daemon is still running. If it has stopped, enter:

```
# /usr/sbin/vold
```

6. Invoke the SLIC utility:

```
# /cdrom/cdrom0/sparc_55/install/slic
```

Please note: Follow the directions later in this chapter for detailed instructions on using SLIC.

7. Install the required products using the SLIC utility.

8. Choose Eject on the File Manager or enter:

```
# eject cdrom
```

Remote System Installation Instructions

These instructions assume that the Solaris Volume Manager has been enabled (the default). If you have stopped it, restart it using the following command:

```
# /etc/init.d/volmgt start
```

On the host system:

1. Log on the system as `root` user.
2. Place the Optegra CD-ROM in the CD-ROM caddy and insert the caddy in the CD-player.
3. Allow the Volume Manager to mount the CD-ROM. (This happens automatically when you insert the caddy in the CD-player.) A File Manager appears. If the Volume Manager fails to mount the CD-ROM, execute the command:

```
# /usr/bin/volcheck
```

If the CD-ROM still is not mounted, make sure the `/usr/sbin/vold` daemon is running. If it is not running, restart it by executing:

```
# /usr/sbin/vold
```

4. Before enabling access to the remote system, determine if other systems can access shared files by checking the `mountd` daemon.

```
# ps -ef | grep mountd
```

If the process `/usr/lib/nfs/mountd` is present, the daemon is running and other systems can access the files.

If it is not running, stop and restart NFS services:

```
# /etc/rc3.d/S15nfs.server stop
# /etc/rc3.d/S15nfs.server start
```

Please note: If you stop and restart NFS services, you should notify other users of the system that services will be interrupted.

5. Enable access to the remote system:

```
# share -F nfs -o ro /cdrom
```

On the local system:

1. Log on the system as root user.

2. Enter OpenWindows.

3. Mount the CD-ROM from the remote system:

```
# /etc/mount cd-host:/cdrom/cdrom0 /mnt
```

4. Invoke the SLIC utility:

```
# /mnt/install/slic
```

5. Install the required products using the SLIC utility.

Please note: You cannot use the File Manager that appears to invoke SLIC.

6. Unmount on both systems and eject the CD-ROM as follows:

- On the local system

```
# /etc/umount /mnt
```

- On the Server

```
# /etc/umount /cdrom
```

7. Eject the CD-ROM by choosing the Eject button on the File Manager.

SGI IRIX Operating Environment

This section provides installation instructions for the SGI IRIX operating environment.

Local System Installation Instructions

1. Log on the system as root user.

2. Create the mount directory for the CD-ROM:

```
# mkdir /cdrom
```

3. Place the Optegra CD-ROM in the CD-ROM caddy and insert the caddy in the CD-player.

4. Mount the prerelease Version 4 SGI CD-ROM as described below. Choose System Manager from the System Tool Chest menu or mount the CD-ROM manually.

- To use the System Tool Chest —

- a. Choose System Tool Chest > System Manager.

- b. In the System Manager Window choose Disks & Files (double-click required). Click on CD-ROM and fill in the form as follows:

```
Disk Resource: /dev/scsi/sc1d610 (default)
Disk Resource is mounted
```

- c. Click Accept. You should now see the /cdrom folder in the Disk and File window.

- d. Choose QUIT to exit the tool.

- To mount the CD-ROM manually —

- a. Type the following:

```
# mkdir /cdrom
# mount -t iso9660 /dev/scsi/sc1dN10 /cdrom
```

where N is the device number, usually 6 for target 6.

5. Invoke the SLIC utility:

```
# /cdrom/mips_irix6/install/slic
```

Please note: Follow the directions later in this chapter for detailed instructions on using SLIC.

6. Install the required products from CD-ROM using the SLIC utility.

7. Unmount the CD-ROM:

```
# /sbin/umount /cdrom
```

8. Eject the CD-ROM from the CD-player.

Remote System Installation Instructions

On the host system:

1. Log on the system as root user.
2. Create the mount directory for the CD-ROM.

```
# mkdir /cdrom
```

3. Place the Optegra CD-ROM in the CD-ROM caddy and insert the caddy in the CD-player.

4. Mount the CD-ROM.

```
# /sbin/mount -t iso9660 /dev/scsi/sc1dNl0  
/cdrom
```

(where N is the device number, usually 6 for target 6)

5. Enable access to the remote system by adding the following to the `/etc/exports` file:

```
# /cdrom -ro
```

On the local system:

1. Log on the system as `root` user.
2. Create the mount directory for the CD-ROM.

```
# mkdir /cdrom
```

3. Place the Optegra CD-ROM in the CD-ROM caddy and insert the caddy in the CD-player.

4. Mount the CD-ROM from the remote system:

```
# /sbin/mount cd-host:/cdrom /cdrom
```

5. Invoke the SLIC utility:

```
# /cdrom/mips_irix6/install/slic
```

6. Install the required products using the SLIC utility.
7. Unmount the CD-ROM on both systems and eject the CD-ROM.

```
# /sbin/umount /cdrom
```

8. Eject the CD-ROM.

Compaq Tru64 UNIX Operating Environment

This section provides installation instructions for the Compaq Tru64 UNIX operating environment.

Local System Installation Instructions

1. Log on the system as `root` user.

2. Create the mount directory for the CD-ROM:

```
# mkdir /cdrom
```

3. Place the Optegra CD-ROM in the CD-ROM caddy and insert the caddy in the CD-player.

4. Mount the CD-ROM:

```
# /sbin/mount -o noversion -t cdfs  
/dev/rz4c /cdrom
```

5. Invoke the SLIC utility:

```
# /cdrom/alpha_osf1/install/slic
```

Please note: Follow the directions later in this chapter for detailed instructions on using SLIC.

6. Install the required products using the SLIC utility.

7. Unmount the CD-ROM:

```
# /sbin/umount /cdrom
```

8. Eject the CD-ROM from the CD-player.

Remote System Installation Instructions

On the host system:

1. Log on the system as `root` user.

2. Create the mount directory for the CD-ROM:

```
# mkdir /cdrom
```

3. Place the Optegra CD-ROM in the CD-ROM caddy and insert the caddy in the CD-player.

4. Mount the CD-ROM:

```
# /sbin/mount -o noversion -t cdfs /dev/rz4c  
/cdrom
```

5. Enable access to the remote system by adding the following to the `/etc/exports` file:

```
# /cdrom -ro
```

On the local system:

1. Log on the system as `root` user.

2. Create the mount directory for the CD-ROM:

```
# mkdir /cdrom
```

3. Place the Optegra CD-ROM in the CD-ROM caddy and insert the caddy in the CD-player.
4. Mount the CD-ROM from the remote system:

```
# /sbin/mount cd-host:/cdrom /cdrom
```
5. Invoke the SLIC utility:

```
# /cdrom/alpha_osf1/install/slic
```
6. Install the required products using the SLIC utility.
7. Unmount the CD-ROM on both systems and eject the CD-ROM:

```
# /sbin/umount /cdrom
```
8. Eject the CD-ROM from the CD-player.

IBM AIX Operating Environment

This section provides installation instructions for the IBM AIX operating environment.

For permissions on directories and other general issues specific to the AIX operating system, see “IBM AIX General Issues” on page 5-4.

Local System Installation Instructions

1. Log on the system as `root` user.
2. Create the mount directory for the CD-ROM:

```
# mkdir /cdrom
```
3. Place the Optegra CD-ROM in the CD-ROM caddy and insert the caddy in the CD-player.
4. Mount the CD-ROM:

```
# /etc/mount -v cdrfs -r /dev/cd0 /cdrom
```
5. Invoke the SLIC utility:

```
# /cdrom/ibm_aix4/install/slic
```

Please note: Follow the directions later in this chapter for detailed instructions on using SLIC.

6. Install the required products using the SLIC utility.
7. Unmount the CD-ROM:

```
# etc/umount /cdrom
```


8. Eject the CD-ROM from the CD-player.

Remote System Installation Instructions

On the host system:

1. Log on the system as `root` user.
2. Create the mount directory for the CD-ROM:

```
# mkdir /cdrom
```
3. Place the Optegra CD-ROM in the CD-ROM caddy and insert the caddy in the CD-player.
4. Mount the CD-ROM:

```
# /etc/mount -v cdrfs -r /dev/cd0 /cdrom
```
5. Enable access to the remote system by adding the following to the `/etc/exports` file:

```
/cdrom -ro
```
6. Use the System Management Utility (SMIT) to export the `/cdrom` directory.

On the local system:

1. Log on the system as `root` user.
2. Create the mount directory for the CD-ROM:

```
# mkdir /cdrom
```
3. Mount the CD-ROM from the remote system:

```
# mount cd-host:/cdrom /cdrom
```
4. Invoke the SLIC utility:

```
# /cdrom/ibm_aix4/install/slic
```
5. Install the required products using the SLIC utility.
6. Unmount the CD-ROM on both systems and eject the CD-ROM:

```
# etc/umount /cdrom
```
7. Eject the CD-ROM from the CD-player.

Overview of SLIC

Before you use SLIC, read this section for background information.

The SLIC utility installs Optegra application software into \$EPD_HOME by default. To specify a directory other than \$EPD_HOME, refer to “Specifying the Installation Directory” on page 4-2.

Versions of SLIC

The following dialog box appears when you run SLIC.



SLIC has two versions - Novice and Expert.

- Novice
When you run the Novice option, SLIC automatically determines the path where all the installation files (file space, swap space, and temp space) are placed. Your interaction with the program is minimal.
- Expert
When you run the Expert option, SLIC lets you specify the path where the installation files are to be placed. In other words, the Expert option allows you to customize the installation to specific requirements.

Using SLIC

To use the SLIC utility:

1. Enter the following as a root user:

```
/cdrom/platform/install/slic
```

Please note: The platform is specified only for a multiplatform CD.

A workaround is required to execute SLIC from the File Manager if the default shell is not the C shell. The following error message appears in the command (Console) window:

```
#shr: slic: not found.
```

If the default login shell for `root` is not set as a C shell, the SLIC program can be run if the full path is entered and `.profile` has the following entries:

```
DISPLAY=systemname:0.0
export DISPLAY
```

2. Choose CV Software License Management 5.12 from the SLIC menu to install the EPD License Manager software.

If you do not want the Software License Manager (SWLM) to run on a particular system, delete the software to conserve disk space. Then, remove the lines related to `rc.CVswlm` from the boot startup file.

3. Select Install > Install from the menu.
4. Choose the applications that you want to install.
(To install Locator using SLIC, select Vault Client from the list of software.)
5. Choose File > Quit to end the SLIC session.

Possible Impediment to Running SLIC

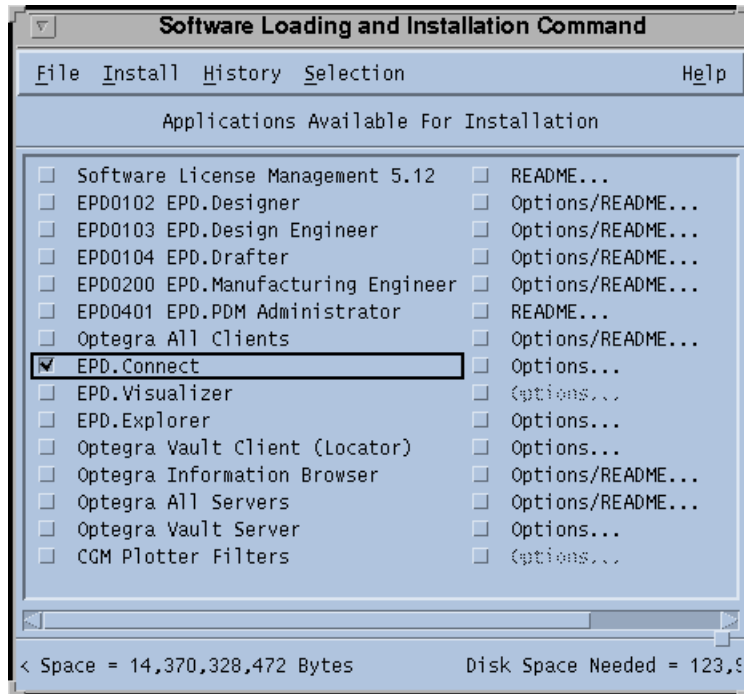
A bug in the UNIX `df -k` command (on all platforms) can prevent SLIC from installing Optegra. It occurs only on systems with more than one gigabyte of available space on a single file system (partition).

Workaround: Make sure that available space on any single file system is less than one gigabyte. Use the `mkfile` command to create a temporary file if necessary.

Please note: In order to run SLIC from the console in a Solaris environment, change the default environment for the `root` account from Bourne shell (`sh`) to C shell (`csh`).

Running the Novice Version of SLIC

1. Click **Novice** on the SLIC dialog box. The Version window appears. Read the instructions and click **OK** to continue with the installation. The SLIC main menu for the Novice version is displayed.



2. Choose the base package(s) from the main menu.
3. Choose **Options** or **Options/README**.

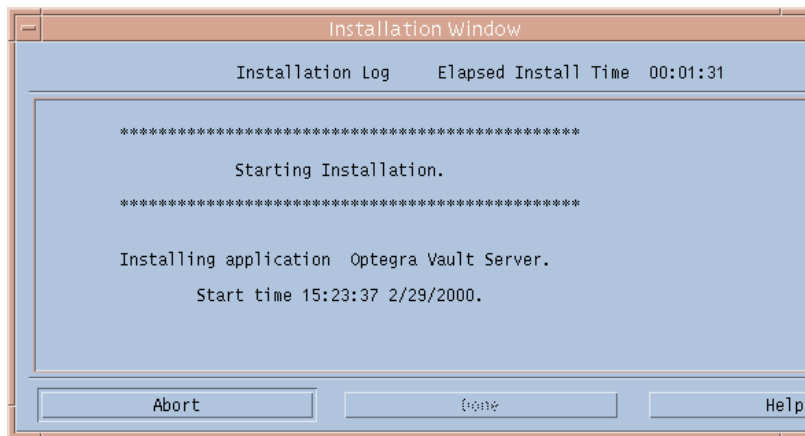
A new window overlays the main menu. You need to choose an option only once (even if you are installing other packages that offer the same options). For a description of the applications and their options refer to Table 4-1 on page 4-16.

Please note: The applications and options listed may vary for different platforms.

4. Select the options and click OK. The main menu reappears, with the selections highlighted.

Please note: To display a list of selected applications in the lower half of the menu, choose the Selection > Display Selected Applications.

5. Select Install > Install from the top menu. The Installation dialog box appears and displays the selected applications and their options. Click OK to confirm that you want to install these applications.
6. The Installation window shows that the installation has started. At this point, you can abort the installation or allow it to proceed.



7. Click Done when the installation is complete.

The Installation Log provides a history of the installation process. When the Elapsed Time clock stops, and the Installation Complete message appears, check the installation log file for any problems during installation. Choose the History option in the main menu or check the log file for your installation in the directory, /usr/cvbin/slic_history. Log files are in the format, history.yymmddhhmm (for example "history.9706181402" stands for June 18, 1997 at 2:02 pm).

8. Choose File > Quit to exit SLIC after the installation is completed .

Table 4-1 Optegra Applications

Application	Option	Description
CV Software License Management 5.12	—	The Software License Manager must be installed on your license servers only. If you are installing your software on a client which is currently served by a primary license server, then you do not need to install the license manager.
EPD0102 EPD.Designer	—	This is a EPD Roles application. You can install this application from the CADD5 CD.
	EPD0002 EPD.Product and Process Management	This is a EPD Roles application. You can install this application from the CADD5 CD.
	Vault Client Programming	Provides information and instructions for writing applications using the Vault programmatic interface and command triggers. This is a EPD Roles application. You can install this application from the CADD5 CD.
EPD0103 EPD.Design Engineer	—	This is a EPD Roles application. You can install this application from the CADD5 CD.
	EPD0002 EPD.Product and Process Management	This is a EPD Roles application. You can install this application from the CADD5 CD.
	Vault Client Programming	Provides information and instructions for writing applications using the Vault programmatic interface and command triggers. This is a EPD Roles application. You can install this application from the CADD5 CD.
EPD0104 EPD.Drafter	—	This is a EPD Roles application. You can install this application from the CADD5 CD.
	EPD0002 EPD.Product and Process Management	This is a EPD Roles application. You can install this application from the CADD5 CD.
	Vault Client Programming	Provides information and instructions for writing applications using the Vault programmatic interface and command triggers. This is a EPD Roles application. You can install this application from the CADD5 CD.

Table 4-1 Optegra Applications (Continued)

Application	Option	Description
EPD0200 EPD.Manufacturing Engineer	—	This is a EPD Roles application. You can install this application from the CADD5 CD.
	EPD0002 EPD.Product and Process Management	This is a EPD Roles application. You can install this application from the CADD5 CD.
	Vault Client Programming	Provides information and instructions for writing applications using the Vault programmatic interface and command triggers. This is a EPD Roles application. You can install this application from the CADD5 CD.
EPD0401 EPD.PDM Administrator	—	This is a EPD Roles application. You can install this application from the CADD5 CD.
All Clients	—	This option installs all associated Optegra clients: EPD.Connect EPD.Visualizer EPD.Explorer Optegra Vault Client (Locator) Alternately, you can select the individual clients you would like to install from the list in the SLIC main menu.
	Vault/Client Programming	Provides information and instructions for writing applications using the Vault programmatic interface and command triggers.
	CADD5 5i Support	Provides the ability to work with CADD5 5i. CADD5 5i must be installed separately.
	EPD Interface for CATIA	Provides the ability to work with CATIA objects. CATIA must be installed separately.
	EPD Interface for MEDUSA	Provides the ability to work with MEDUSA Classic objects. MEDUSA must be installed separately.
	EPD Interface for Pro/ENGINEER	Provides the ability to work with Pro/ENGINEER objects. Pro/ENGINEER must be installed separately.

Table 4-1 Optegra Applications (Continued)

Application	Option	Description
EPD.Connect	—	Installs the base EPD.Connect product, which includes the main menu, the product structure window, and the 3D Viewer.
	Options same as for All Clients except for Vault Client Programming.	
EPD.Visualizer	—	A powerful graphics viewing tool that can be used instead of the 3D Viewer in EPD.Connect. It enables the use of clash detection and zoning operations.
EPD.Explorer	—	Improves product development decision making by providing development teams with the ability to visually navigate 3D product assemblies.
	Options same as for All Clients except for the Vault Client Programming.	
Vault Client (Locator)	—	Used with Vault in client-server systems. Locator organizes and manages any type of electronic document.
	Vault Client Programming	Provides information and instructions for writing applications using the Vault programmatic interface and command triggers.
Information Browser	—	Enables hierarchical navigation through local file system and Vault database, along with customizable menu setup and data source plugin capability.
	Options same as for All Clients except for Vault Client Programming.	
All Servers (The All Servers and Vault Server options are mutually exclusive.)	—	Installs the Vault server. Alternately, you can select the individual server you would like to install from the list in the SLIC main menu.
	Vault Client Programming	Provides information and instructions for writing applications using the Vault programmatic interface and command triggers.
	Distributed Vault	Provides access to objects across multiple Vaults (servers) that are connected in a distributed, cooperative arrangement.

Table 4-1 Optegra Applications (Continued)

Application	Option	Description
Vault Server (The All Servers and Vault Server options are mutually exclusive.)	Options same as for All Servers	An electronic data management (EDM) tool used to organize and manage the data required for designing and manufacturing a product.

Upgrading Existing Applications

To upgrade an existing application:

1. Select Selection > Select Previously Installed Applications to re-install existing applications. The SLIC Selection window displays existing applications, including their options.
2. Click OK on the SLIC selection windows to confirm the installation of these applications. SLIC returns to the main menu and highlights the installed applications.
3. Add any new applications. The box for each selected application must be highlighted.
4. Choose options for new or previously installed applications by choosing the Options entry for that application. A new options menu overlays the main menu, listing the options for the selected application. You need to choose an option only once (even if you want the same option for another application).
5. Select the options and click OK.

Please note: Some applications from previous releases may no longer be available. Contact the company if the application you want to install is not listed.

6. Select Install > Install from the top menu. The Installation window lists the selected applications.
7. Click OK to confirm that you want to install these applications. The Installation window shows that the installation has started.
At this point, you can abort the installation or allow it to proceed.
8. Click Done when the installation is complete.

The Installation Log provides a history of the installation process. When the Elapsed Time clock stops, and the `Installation Complete` message appears, check the installation log file for any problems during installation. Choose the `History` option in the main menu or check the log file for your installation in the directory, `/usr/cvbin/slic_history`. Log files are in the format, `history.yymmddhhmm` (for example “`history.9706181402`” stands for June 18, 1997 at 2:02 pm).

9. Choose `File > Quit` to exit SLIC after the installation is completed.

Running the Expert Version of SLIC

When you choose the Expert version, you will see the Version window. Click `OK` to reveal the main menu, which lists available applications and their options. Use the scroll bar on the right to see applications that do not fit in the window. Choose an `Options` entry to see a separate menu listing available options for that application. Where indicated, `README` files for each option provide descriptions.

Please note: To display a list of selected applications in the lower half of the menu, choose `Selection > Display Selected Applications`.

Selecting the Base Package

1. Begin by choosing the base package(s) you have purchased from the main menu.
2. Choose `Options`.
A new window overlays the main menu, listing the options. (Note that in this list, most options are hazed out.) You need to choose an option only once (even if you are installing other packages that offer the same options).
3. Choose the options on that menu.
As you choose your options, the `Disk Space Needed` field at the bottom right of the SLIC main menu increases with each choice. This field is not visible when the options window overlays the main menu.
4. After you select the options, click `OK`. The main menu reappear with your selections highlighted.

Specifying the Location of the Files

1. In the main menu, choose the Disk Space pulldown menu, then the File Space option. A File Distribution window appears.

The File Distribution window shows the required disk space (in bytes). The byte count also appears in the lower half of the window under the Space Required column.

The Not Movable/Movable button tells you if you can install the files in another directory.

The Down/Right Arrow buttons let you change the directory display.

In the upper half of the window, the display shows the bytes of available space. We recommend that you read the help file provided for this window.

The screenshot shows a window titled "File Distribution Window". At the top, it says "Selected Applications" and "Net Disk Space = 0". Below this is a table with four columns: "File System", "Available Space", "Space Needed", and "Net File Space". The table lists several file systems with their respective available and needed space values.

File System	Available Space	Space Needed	Net File Space
/pool1	55,786,496	0	55,786,496
/pool2	59,621,376	0	59,621,376
/usr1	619,460,608	0	619,460,608
/usr2	157,472,768	0	157,472,768
/public	126,476,288	0	126,476,288
/users/muvaidya	410,091,520	0	410,091,520

Below the table, there is another section with three columns: "Space Required", "File or Directory Name", and "Destination File System". This section shows three rows, each with a "Not Movable" button, a space value of 0, a directory name, and a destination file system.

Space Required	File or Directory Name	Destination File System
Not Movable	0 /opt	/
Not Movable	0 /epd	/
Not Movable	0 /dm	/

2. To move all the files to another location, select the Movable button next to the File Distribution window. When the File System Selection window (below) appears, select a listed file system that can accommodate your directory or choose User Specific Pathname to specify another location.

If you choose a file system from this menu, the File Distribution window is updated with your choice. If you choose User Specific Pathname from this menu, the File Selection menu is displayed. Both these menus are explained on the following pages.

When you choose one of the file systems listed in the File System Selection window, the File Distribution window displays the change. The upper half of the screen shows where the files will be installed. The lower half of the screen shows the link.

Please note: SLIC reads the contents of the directory and takes into account any files that were duplicates.

When you choose User Specific Pathname from the File System Selection window, the File Selection Pop-up menu is displayed. Use this window to specify where you want to link your files.

Click OK. The Link Acknowledgment window appears.

3. If the Link Acknowledgment window correctly displays your choices, click OK. The File Distribution window reappears with your changes.
4. When you are satisfied with the way the files are distributed, click the OK button at the bottom of the File Distribution window. The Link Creation window appears.
5. SLIC gives you one more chance to change your mind. If you want the links created as displayed, click the Yes button at the bottom of the screen. You return to the main menu.

Determine the Swap/Temp Space Requirements

Determine the amount of swap and temp space required.

1. Choose the Swap and Temp Space option under the Disk Space menu. A new window appears. The Swap and Temporary Space Calculation window lets you know how much swap and temporary space is currently on the system, how much is needed to run the selected applications, and which applications have been selected for installation.
2. To calculate the swap and temp space required, you must choose from the list all the applications that you will run simultaneously on the system. This establishes a worst case requirement for swap and temp space based on the applications you will be using.

The Minimum SWAP needed field indicates the total Mbytes of swap space required to run the chosen applications.

The Minimum TEMP needed field indicates the total Mbytes of temp space required to run the chosen applications.

3. After you choose the applications, click the Check SWAP and Check TEMP buttons located at the bottom of the options window.

If you need more swap or temp space, a window appears. In this case, a Temp window is shown.

4. Click OK.

Adding Swap

To add more swap to the system and making more disk space available, perform one of the following actions.

On HP-UX: Use the SAM utility to add file system swap or reinstall HP-UX and allocate appropriate swap space.

On Solaris: If you do not have enough swap or temp space on the Solaris operating system, add it using the SLIC interface. Choose one of the following:

- **SwapSpace** — If there is not enough space, a dialog box appears. You can make the changes in this dialog box.
- **Automatic** — SLIC decides where to create the additional swap space.
- **Customize** — The Swap Space Distribution window is displayed and you can create new swap by clicking on the arrows next to the file you want to change. (You can also access the Swap Space Distribution window from the Create Swap option on the Disk Space menu.)

When the swap space is distributed to your satisfaction, click OK. The Swap Creation window asks you to confirm that you want these swap files created.

Installing the Applications

1. Choose Install > Install.

The Installation window lists the applications and options chosen.

2. Click OK to confirm the installation of these applications and options. Another installation window appears and the installation begins.

At this point, you can abort the installation or allow it to proceed.

3. When the installation is complete, click the Done button to return to the main menu. The Installation Log provides a history of the installation process.
4. When the Elapsed Time clock stops, and the Installation Complete message appears, check the installation log file for any problems during installation.

5. Choose the History option in the main menu or check the log file for your installation in the directory, `/usr/cvbin/slic_history`. Log files are in the format, `history.yymmddhhmm` (for example “`history.9706181402`” stands for June 18, 1997 at 2:02 pm).

Exit SLIC

Choose File > Quit to exit SLIC after the installation is completed .

Installing Packages Based on EPD Roles

If you have purchased the following EPD Roles packages, install the applications from both the Optegra distribution CD and the CADD5 5i distribution CD using SLIC.

- EPD.Designer
- EPD.Manufacturing Engineer
- EPD.Design Engineer
- EPD.Drafter

Please note: EPD.Product and Process Management is an option under each of these EPD Roles.

If you have purchased EPD.PDM Administrator, install the applications from the Optegra distribution CD only.

For more information on EPD Roles, refer to *Installing EPD.Connect, EPD Roles and EPD.Visualizer*.

System-Specific Information for UNIX Platforms

This chapter provides information specific to the following platforms and operating systems:

- SGI IRIX General Issues
- Compaq Tru64 UNIX General Issues
- IBM AIX General Issues
- HP HP-UX General Issues

SGI IRIX General Issues

The following information is specific to the SGI IRIX operating environment.

Creating Local Storage Pools

To create the disk partitions for storage pools, use the `fx` command to invoke the disk utility. Refer to your system documentation for more information.

Adding Storage Pools Using the `ciaddsp` Command

The following error may occur when you add local SGI disk partitions as storage pools using the `ciaddsp` command.

```
CDMASP120E /pool1: is not empty
/pool1 refers to the directory (SGI partition) for the pool.
```

To correct the problem:

1. Run the following command and ensure that you have a clean partition.

```
% ls -al /pool1
```

This should show only the following listings:

```
drwxr-xr-x 3 root dba 512 Aug 28 10:41.
drwxr-xr-x 43 root sys 1024 Aug 28 10:41..
drwx----- 2 root sys 10752 Feb 17 20:16
lost+found
```

If the partition has additional files, create a clean partition.

2. As `root`, use the `rmdir` command to temporarily remove the `lost+found` directory.
3. Run the storage pool creation command using the following guidelines:
 - If the error occurred during normal installation, run `$EPD_HOME/install/edinstall` as `root`.
 - If the error occurred at a later point, run the `ciaddsp` command from the Optegra account with operator privileges.
4. As `root`, recreate the `lost+found` directory.

Running Tape Commands With Controller Type WD93

To run tape commands on an SGI with a controller type WD93, install SGI Patch 736. This patch is not required for the other controller types. To determine your controller type, use the `hinv` command.

- Remote Tape Capabilities — Remote Tape capabilities are not supported on the SGI platform. Use a local tape device or use the Remote Tape function on a different platform.
- Tape Commands — The device used for tape commands must be of the variable block type as in the following:

```
% /dev/rmt/tps0d4v
```

- For the no-rewind device, use this command:

```
% /dev/rmt/tps0d4nr v
```

Using the ciubkup Command

Logging into the console as the `root` user and running `su - optuser` (`optuser` is Optegra account owner) causes problems with the `ciubkup` command. The following error occurs:

```
/dev/ttyq1: cannot open
```

This means that temporary files could have been left behind. To avoid this, log into the console as `optuser` before running the `ciubkup` command.

Window Sizes: When running the `psed` utility, make the window wide enough for the display. Otherwise you may not see all the processes that are running.

Compaq Tru64 UNIX General Issues

The following information is specific to the Compaq Tru64 UNIX operating environment.

C++ Runtime Support

EPD.Connect, Vault and related applications require C++ runtime libraries on the Compaq Tru64 UNIX operating system. Install these libraries, an optional package called CXXSHRDA306, from the Compaq Tru64 UNIX OSF/1 3.2C CD-ROM.

IBM AIX General Issues

The following information is specific to the IBM AIX operating environment.

Permissions for Directories

When you install Optegra on IBM AIX workstations, directories are installed with incorrect permissions. This results in the inability to run applications. To correct this problem:

1. Issue the following commands as `root`, after installing Optegra or the documentation files:

```
# cd $EPD_HOME
# find . -type d -exec chmod 755 {} \;
```

Tape Commands

In order to run tape commands, such as `ibkup` and `archive` on an IBM platform, the parameters for the tape device must be changed. Use the following procedure:

1. Enter `smit` in a shell tool window.
2. Choose Devices.
3. Choose Tape Drive.
4. Click on Change/Show Characteristics of a Tape Drive.
5. Choose the tape drive to be used for Optegra tape commands. This is, typically, an 8-millimeter tape drive.
6. Change the following:
 - BLOCK size (0 = variable length) — Enter 0
 - Use EXTENDED file marks? — Set to YES
7. Choose OK.

C++ Runtime Support

If you have not purchased C++ runtime support for your IBM system, add the following line to the `.login` file prior to using EPD.Connect and Vault:

```
% setenv LIBPATH $EPD_HOME/lib
```

To determine whether you have C++ runtime support, execute the following command from a window:

```
% lslpp -f xlCrte.obj
```

If support exists, you see the following:

```
Name                               File
-----
Path: /usr/lib/objrepos
xlCrte.obj 01.01.02.47
/usr/lpp/xlC/lib/libC.a
/usr/lpp/xlC/lib/profiled/libC.a
```

If support does not exist, you see the following:

```
lslpp: There is no product in /usr/lib/objrepos,
/etc/objrepos, or /usr/share/lib/objrepos that
matches "xlCrte.obj".
```

HP HP-UX General Issues

The following information is specific to the HP HP-UX operating environment.

Desktop Server

A port conflict prevents the operation of the Desktop Server 3.0.3 on an HP workstation running HP-UX. The port number used by Vault and the port number used by Hewlett Packard's "SW" software install tools is the same. To fix the problem, change the port used by the "SW" tools from 2121 to another setting. Follow the procedure below.

1. To find out what ports are in use, type `netstat -a`. You can use any port number not in use for step 5.
2. Open the file `/usr/lib/sw/sys.defaults`. This file sets default parameters for all the "SW" HP-UX software install tools.

See sample file entries with the number 2121 below. Each line is specific to a process. The string before the first period is the name of the process.

```
swinstall.rpc_binding_info= ncacln_ip_tcp:[2121]
ncadg_ip_udp:[2121]
```

```
swcopy.rpc_binding_info= ncacn_ip_tcp:[2121]
ncadg_ip_udp:[2121]
swremove.rpc_binding_info= ncacn_ip_tcp:[2121]
ncadg_ip_udp:[2121]
swconfig.rpc_binding_info= ncacn_ip_tcp:[2121]
ncadg_ip_udp:[2121]
swverify.rpc_binding_info= ncacn_ip_tcp:[2121]
ncadg_ip_udp:[2121]
swlist.rpc_binding_info= ncacn_ip_tcp:[2121]
ncadg_ip_udp:[2121]
swreg.rpc_binding_info= ncacn_ip_tcp:[2121]
ncadg_ip_udp:[2121]
swacl.rpc_binding_info= ncacn_ip_tcp:[2121]
ncadg_ip_udp:[2121]
swagentd.rpc_binding_info= ncacn_ip_tcp:[2121]
ncadg_ip_udp:[2121]
swagent.rpc_binding_info_alt_source=
ncadg_ip_udp:[2121] ncadg_ip_udp:[2121]
swjob.rpc_binding_info= ncacn_ip_tcp:[2121]
ncadg_ip_udp:[2121]
```

- 3.** Copy all entries that contain 2121 (without the crosshatches as delimiters) from the `/usr/lib/sw/sys.defaults` file and paste them into the `/var/adm/sw/defaults` file.
- 4.** Change all occurrences of 2121 to some other number. Set all entries to the same value. Ensure that the number you pick is unused by any other software on the HP system. Try the number 2131 which appears to be unused. Verify that on your system. (See step 1.)
- 5.** Reboot the computer and restart Oracle and Optegra. Port 2121 is now available for use by the desktop server.

Common Login

This chapter provides an overview of common login for Optegra applications.

Overview

Common login enables you to sign on to all Optegra products using a single user ID and password. When you connect to an Optegra application, the common login uses your user name and password to connect to other Optegra applications.

When you sign on for the first time, your user ID and password are stored.

- For Unix

```
~/ .optegra/optegra.ini
```

The password stored in `optegra.ini` file is encrypted.

- For PC

```
windows directory>\optegra.ini
```

The next time you sign on, the same ID and password are used unless they are overwritten with a new ID and password.

Please note: If you access more than one Optegra application regularly, use the Optegra Login option.

Enabling Common Login

By default, the common login is enabled. To prevent storing the user ID and password for future use, do the following:

```
cisignon -nclogin off
```

Alternatively, you can specify the following environmental variable:

```
setenv OPTEGRA_CLOGIN_ENABLE=no
```

Disabling Common Login

You can disable common login for a single session or permanently.

Disabling a Single Session

To disable common login for a single session, use one of the following commands:

- `edmgui -nclogin`

- `cisignon -nclogin userid=<userid> userpw=<userpw>`

This method overrides all common login facilities and lasts for the duration of the Graphical User Interface session (`edmgui`) or the command line Vault session (`cisignon`).

For the Graphical User Interface, invoke the `edmgui` as follows:

```
edmgui -nclogin
```

To login from the command line,

```
cisignon -nclogin userid=yourid userpw=yourpassword
```

where,

- `<userid>` is the User ID
- `<userpw>` is the password.

Disabling the Common Login Permanently

To disable common login for longer than a single session, set the `OPTEGRA_CLOGIN_ENABLE` environment variable as follows:

```
setenv OPTEGRA_CLOGIN_ENABLE NO
```

To enable common login again, do one of the following:

- Unset the environment variable,

```
unsetenv OPTEGRA_CLOGIN_ENABLE
```
- Set the environment variable to `YES`,

```
setenv OPTEGRA_CLOGIN_ENABLE YES
```

Set the `OPTEGRA_CLOGIN_ENABLE` variable to `no` by using the following command:

- On Unix:

```
setenv OPTEGRA_CLOGIN_ENABLE no
```
- On Windows:

```
set OPTEGRA_CLOGIN_ENABLE=no
```

Vault Login

Before you sign on to Vault for the first time, get the official user name and password from the Vault System Administrator.

Then, click Vault Login on the Locator toolbar. The Optegra Login window appears.

If you have any messages, the system asks if you want to read them. Choose Yes to read the messages else choose NO.

Each time you sign on to Vault with Common Login enabled, the system accesses the stored user ID and password instead of prompting you. If any ambiguity exists, the system selects the first Vault name in the local `pm.config` file.

Please note: If you sign on as a different user, Vault replaces the stored values with the new ones.

This chapter describes how to install the documentation files.

- Installing Online Documentation
- Browser Settings
- Viewing What's New Documentation
- Customizing a mainmenu.html File
- Modifying the Documentation Defaults for Locator/PC

Installing Online Documentation

For Optegra applications, documentation is provided in HTML and Portable Document format. Netscape Navigator and Microsoft Internet Explorer are the recommended default browsers for viewing the HTML documents. A freeware browser is also provided with the software. For instructions on printing the PDF files, see “Printing Documentation” on page xiv.

To install the documentation:

1. Put the Optegra Documentation CD-ROM into the CD-ROM drive.
2. Choose one of the following options:
 - Install All the HTML Books
 - Install All the PDF Books
3. To install only specific HTML or PDF books, click Change and follow the instructions.

Please note: For more information on application-specific documents, refer to Appendix B, “Documentation Map”.

Browser Settings

Before using the HTML online help, make sure that Java and JavaScript is enabled in your browser preferences. Enabling Java and JavaScript allows you to use the following buttons in the navigator panel of the HTML online help:

- Main Menu
- Contents
- Index
- Search
- Reset

Enabling Java and JavaScript

To enable Java and JavaScript in Netscape:

1. Choose Edit > Preferences.
2. In the Category field, click Advanced.

3. Check Enable Java and Enable JavaScript.
4. Click OK.

Please note: On IBM RS6000 only -- After installing Help, verify that the environment variable `MOZILLA_HOME` is set to the complete path to the `MOZILLA_HOME` directory, which contains the Netscape executable. If this environment variable is not set correctly, Netscape does not find all the files it needs to operate correctly.

Viewing What's New Documentation

The *What's New in Optegra Release 6* is an HTML document that describes new features in this release of Optegra. You can view this document in the Java HTML Browser. By default, this document is displayed every time EPD.Connect is started.

The `EPD_SHOW_NEW_R6` allows you to enable or disable the display of this document.

- If this variable is set to `yes`, the document is displayed.
- If the variable is set to `no`, the document is not displayed.

Alternatively, to disable the display of this document, you can deselect the `See this next time` option at the bottom of the window.

Please note: When you deselect the `See this next time` option, a `whatsnew.ini` file is stored in the `$HOME` directory in UNIX and the `$USERPROFILE` in Windows. If EPD.Connect finds a `whatsnew.ini` file in these directories, the document is not displayed. Hence, to view this document after you have deselected the `See this next time` option, delete the `whatsnew.ini` file in the `$HOME` or the `$USERPROFILE` directory.

Customizing a mainmenu.html File

If you have not loaded all the HTML books from the CD-ROM, or if you have created your own HTML files in a subdirectory in `$EPD_HOME/html/htmldoc`, you can execute the `mk_main` script to generate a customized main menu (`mainmenu.html`). The `mainmenu.html` is then read when you view the list of available online documents from Optegra.

The `mk_main` script creates a `mainmenu.html` file based on the actual documents contained in any `htmldoc` subdirectory.

To run the `mk_main` script, type:

```
# cd $EPD_HOME/html/htmldoc
# mk_main
```

Please note: If you want to add your books to the collection, your documents must be in the `$EPD_HOME/html/htmldoc` directory. For `mk_main` to add your book to the `mainmenu.html`, the first file must be in the format: `index.html`. Be sure to include the document title by including `<TITLE>` in the `index.html` file.

Modifying the Documentation Defaults for Locator/PC

The `edmwin.ini` file allows you to modify the default location of the documentation files, the HTML file to be displayed, and the HTML browser.

HTML File to be Displayed

By default, the `mainmenu.html` file is displayed. To change the default file, edit the `main_html_file` entry in the `edmwin.ini` file. This entry specifies the HTML file that appears when you access Help > Browse User Guide.

Location of the Documentation Files

By default, the HTML files are installed in the `%EPD_HOME%\html\htmldoc\` directory and the PDF files are installed in the `%EPD_HOME%\html\pdf\` directory.

To change the default location of the HTML and PDF files, edit the `user_guide_directory` entry in the `edmwin.ini` file. This entry specifies the installation directory for the documentation files.

HTML Browser

To change the default HTML browser, modify the `brws_name` entry in the `edwin.ini` file. This entry specifies the name of the browser.

Finding the Device Number on UNIX Platforms

This appendix contains instructions for finding the CD-ROM device number or name before installing Optegra applications using SLIC.

- HP HP-UX Operating Environment
- Compaq Tru64 UNIX Operating Environment
- IBM AIX Operating Environment

HP HP-UX Operating Environment

For the HP HP-UX operating environment, use the *System Administration (SAM)* utility to determine the CD-ROM device number.

1. Start the SAM utility:

```
sam
```

A list of options is displayed.

2. Choose Disks and File Systems.

Another list of options is displayed.

3. Choose CDROM, Floppy and Hard Disks.

4. On the resulting display, look for the **SCSI CD-ROM** line on the right. The number in the corresponding left column tells you what to enter to mount the CD. For example, if the number is

```
2.0.1.2.0
```

the device number is 2. The number maps to the device name in the command as follows:

Command	c	2	0	1	d	n
Number		2.	0.	1.		2.

Compaq Tru64 UNIX Operating Environment

For the Compaq Tru64 UNIX operating environment, use the *uerf* command to determine the CD-ROM device number.

1. Log in as *root*.
2. Enter the following in a shell:

```
/usr/sbin/uerf -R | more
```

3. Search for a device named *RRD42* or *RRD43*. The line immediately above it provides the unit number of this device (for example, *r24*)

or

at the console prompt (*>>>*) enter

```
SHOW DEVICE
```

This command lists all devices on the system, including the *RRD42* or *RRD43* CD-ROM device.

IBM AIX Operating Environment

For the IBM AIX operating environment, use the `SMIT` utility to determine the CD-ROM device name.

1. Log in as `root`.
2. Enter the following in a shell:

```
smit
```
3. Select `Devices`. Press `Return`.
4. Select `CD ROM Drive`. Press `Return`.
5. Select `List All Defined CD ROM Drives`. Press `Return`. The CD-ROM device name appears in the first column, `Name`.
6. Append the above name to `/dev/` to construct the CD-ROM device name to mount the CD.

Documentation Map

This appendix provides a documentation map to guide you through documents that you would need to use. Refer to the *Release Notes* before using any other documentation.

- Documents for Windows Applications
- Documents for UNIX Applications

Documents for Windows Applications

The following is a list of documents for each application in the Windows environment. These documents are listed in the order in which you would need to refer to them. This is also the order recommended to ensure a proper installation and understanding of the application.

Table B-1 Documents for Windows Applications

Application	Option	Description
EPD.Connect	—	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer EPD.Connect User Guide</i>
	EPD Interface for Pro/ENGINEER	<i>EPD.Connect User Guide</i>
Locator	—	<i>Locator/PC User Guide</i>
	Administrator	<i>Vault Administrator for Windows NT User Guide</i>
	AutoCAD Interface	<i>Optegra Interface for AutoCAD User Guide</i>
	Programming SDK	<i>Locator/PC User Guide</i>
Information Browser	—	<i>Information Browser User Guide</i>
		Same as EPD.Connect.
Vault Server	—	<i>Installing Vault and Locator</i>
	Distributed Vault	<i>Installing Vault and Locator Vault Administrator for Windows NT User Guide</i>
	Programming	<i>Vault Administrator for Windows NT User Guide Vault Programmer Guide</i>
	CATIA Support	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer EPD.Connect User Guide</i>
	MEDUSA Support	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer EPD.Connect User Guide</i>
	Pro/ENGINEER Support	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer EPD.Connect User Guide</i>
License Manager	—	<i>Using the Licence Manager</i>

Documents for UNIX Applications

The following is a list of documents for each application in the UNIX environment. These documents are listed in the order in which you would need to refer to them. This is also the order recommended to ensure a proper installation and understanding of the application.

Table B-2 Documents for UNIX Applications

Application	Option	Next Document
CV Software License Management 5.12	—	<i>Using the License Manager</i>
EPD0102 EPD.Designer	—	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer</i>
	EPD0002 EPD.Product and Process Management	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer</i>
	Vault Client Programming	<i>Installing Vault and Locator Vault Programmer Guide</i>
EPD0103 EPD.Design Engineer	—	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer</i>
	EPD0002 EPD.Product and Process Management	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer</i>
	Vault Client Programming	<i>Installing Vault and Locator Vault Programmer Guide</i>
EPD0104 EPD.Drafter	—	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer</i>
	EPD0002 EPD.Product and Process Management	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer</i>
	Vault Client Programming	<i>Installing Vault and Locator Vault Programmer Guide</i>
EPD0200 EPD.Manufacturing Engineer	—	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer</i>
	EPD0002 EPD.Product and Process Management	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer</i>

Table B-2 Documents for UNIX Applications

Application	Option	Next Document
	Vault Client Programming	<i>Installing Vault and Locator Vault Programmer Guide</i>
EPD0401 EPD.PDM Administrator	—	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer</i>
All Clients	Vault Client Programming	<i>Installing Vault and Locator Vault Programmer Guide</i>
	CADDS 5 Support	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer EPD.Connect User Guide</i>
	EPD Interface for CATIA	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer EPD.Connect User Guide</i>
	EPD Interface for MEDUSA	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer EPD.Connect User Guide</i>
	EPD Interface for Pro/ENGINEER	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer EPD.Connect User Guide</i>
EPD.Connect	—	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer</i>
	Options are the same as for All Clients with the exception of the option Vault Client Programming.	—
EPD.Visualizer	—	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer EPD.Visualizer User Guide</i>
EPD.Explorer	—	<i>Installing EPD.Connect, EPD Roles, and EPD.Visualizer EPD.Connect User Guide</i>
	Options are the same as for All Clients with the exception of the option Vault Client Programming.	—
Vault Client (Locator)	—	<i>Installing Vault and Locator Vault End User Guide</i>

Table B-2 Documents for UNIX Applications

Application	Option	Next Document
	Vault Client Programming	<i>Vault Programmer Guide</i>
Information Browser	—	<i>Information Browser User Guide</i>
	Same as EPD.Connect.	Same as EPD.Connect.
All Servers	—	
	Vault Client Programming	<i>Installing Vault and Locator Vault End User Guide</i>
	Distributed Vault	<i>Installing Vault and Locator Vault End User Guide Distributed Vault System Administrator and Manager Guide</i>
Vault Server	Options same as for All Servers.	<i>Installing Vault and Locator</i>

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