# READ THIS FIRST
# Optegra® 15.0

Important Installation and Usage Information

**Directory of Online and DVD-ROM Information**

| | |
|---|---|
| Reference Documents | http://www.ptc.com/appserver/cs/doc/refdoc.jsp |
| Platform Support | http://www.ptc.com/partners/hardware/current/support.htm |
| Customer Care | http://www.ptc.com/support/index.htm |

## Welcome

Thank you for choosing Optegra 15.0. This new release contains customer-driven programs and other enhancements, including projects to ensure the long-term supportability of Optegra. To learn more about these new capabilities, refer to http://www.ptc.com/appserver/mkt/products/home.jsp?&k=746 or the online documentation described later.

## Installing PTC Products

To complete product installation, use your product's installation document. You can find PDF files of all documents on the product DVD-ROMs or on the PTC® Web site. On the Web site, choose the product or document type.

http://www.ptc.com/appserver/cs/doc/refdoc.jsp

To access all PTC documentation, you must have a valid user account. To request one, go to http://www.ptc.com/appserver/common/account/basic.jsp.

**Note:** Adobe Reader is required to read PDF files. You can download the software from the following address:

http://www.adobe.com/products/acrobat/readstep2.html

### Product Software and Documentation Available on DVD Media

With this release of Optegra, the product software and documentation for the supported platforms are available on a single DVD-ROM. On UNIX, you must run the Software Loading and Installation Command (SLIC) using the absolute path and the appropriate platform directory. For Windows, the installer starts when you insert the DVD-ROM. To install documentation on Windows, cancel the installer and run `doc\windows\setup.exe`. The rest of the installation procedure remains the same, as documented in the installation guides

You can access the documentation from platform-specific directories in the `doc` directory.



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### Online Documentation for Optegra 15.0

All books in the online documentation set are for this release. Any book included from an earlier release contains current information.

### Release Notes and What's New Information

*What's New in Optegra 15.0* and *Optegra 15.0 Release Notes* are shipped on the product DVD-ROM. What's New is also available when you start EPD.Connect®.

### Viewing What's New Information through EPD.Connect

You can view *What's New in Optegra 15.0* in the Java HTML browser when you start EPD.Connect. By default, this document is displayed each time you start EPD.Connect.

Set the `EPD_SHOW_NEW_R15` variable to `yes` to enable the display of the What's New document. Set this variable to `no` if you do not want to display it. Alternatively, to disable the display of the document, clear the **See this next time** check box at the bottom of the Java HTML browser window.

## Support for CADDS 5i Release 14 and Optegra Release 8

PTC plans to discontinue support for CADDS® 5i Release 14 and Optegra Release 8, effective December 2008. However, PTC will consider resolution of any issues in the maintenance builds of CADDS 5 15.0 and Optegra 15.0 and later.

## Updating the License Management Software

The license management software provided with Optegra is FLEXnet 10.8.5. Update all license servers with the latest license management software, using the Optegra 15.0 DVD-ROM. The FLEXnet license daemons work with the current license files.

## Accessing Open or Resolved Issues

To search for and view reported issues related to a specific release:

1. Access http://www.ptc.com/support/support.htm.
2. Search the Knowledge Base for Technical Application Notes (TAN) related to the specific product.

To access this search tool, you must have an account with PTC. To open an account, go to http://www.ptc.com/appserver/common/account/basic.jsp or call the PTC Customer Care Center. For PTC Customer Services Worldwide Contact Information, see http://www.ptc.com/cs/doc/cont_sup.htm.

## Optegra Support for Oracle 10g

Optegra 15.0 supports Oracle 10g Release 2, patchset 10.2.0.3.

## Supported Operating System Versions

Optegra supports the following platforms and server-client combinations:

| Platform | Server | Client |
|---|---|---|
| HP PA-RISC | HP-UX 11i | HP-UX 11i |
| Intel | Windows XP Professional (Service Pack 2 or Service Pack 3), Windows Server 2003 (Service Pack 2) | Windows XP Professional (Service Pack 2 or Service Pack 3), Windows XP Professional x64 Edition (Service Pack 1) |
| Sun SPARC | Solaris 10, Solaris 8 | Solaris 10, Solaris 8 |
| Sun x64 | Solaris 10 | Solaris 10 |

On Solaris and HP-UX, you can use the `uname -a` command to determine the system's operating system version. Use `more /etc/motd` to obtain information on the operating system version if the `motd` file has not been modified previously.

### Solaris 10 x86 Support

Optegra 15.0 is now available on Solaris 10 x86 and certified x64 platforms. Refer to the Platform Support page for details.

### IBM AIX Support

PTC no longer supports CADDS 5 and Optegra on the IBM AIX operating system. For details, refer to http://www.ptc.com/WCMS/files/55649/en/IBM_retire_final_070807.pdf.

## Supported Compilers

Compilers for this Optegra release are listed in the following table.

| Platform | Operating System | C | C++ |
|---|---|---|---|
| HP PA-RISC | HP-UX 11i | B.11.X.32509-32512.GP | A.03.63 |
| Intel | Windows XP with SP 2 | Visual Studio 2005 | Visual Studio 2005 |
| Sun SPARC | Solaris 8 | Sun Studio 10 | Sun Studio 10 |
| Sun x64 | Solaris 10 | Sun Studio 10 | Sun Studio 10 |

## Supported Patches

Optegra was subjected to final qualifications using system patches that are available on vendor-specific Web sites. The following list provides the baseline patch requirement. Contact your hardware vendor for patch availability.

| Operating System | Recommended Patch Bundle | Specific Patches Required |
|---|---|---|
| HP-UX 11i | BUNDLE11i B.11.11.0102 Required Patch Bundle for HP-UX 11i, February 2001 | GOLDAPPS11i June 2005 |

| Operating System | Recommended Patch Bundle | Specific Patches Required |
|---|---|---|
| HP-UX 11i Fire GL-X1-256 Graphics Card | — | Dec 11i Dec2003 Quality Gold Pack and Hardware Enablement<br>Graphics and Technical Computing B.11.11.13<br>PHNE_29947 |
| HP-UX 11i Fire GL-X3 Graphics Card | — | June 2004 HWEnable11i (or later)<br>June 2004 GoldBASE11i (or later)<br>June 2004 GoldAPPS11i (or later)<br>PHSS_31281 Xserver cumulative patch<br>PHSS_31270 3D Common Run<br>PHSS_31271 PEX 5.1/Starbase/Hardcopy Run<br>PHSS_31276 OpenGL 1.1 Run<br>PHSS_32185 C8000 PDC 2.12, BMC 2.32 Firmware Patch |
| Solaris 10 x86 | — | — |
| Solaris 10 SPARC | — | 118367-03<br>XVR-2500 120928-25 (Sun Ultra 45) |
| Sun Blade 2500, Solaris 8 HW 05/03 | — | XVR-1200<br>XVR-600 |
| Sun Blade 2000, Solaris 8 HW 02/02 | — | XVR-1000 112564-24<br>XVR-500, Elite 3D, Expert 3D 108576-32<br>OpenGL 1.2.3 112628-11 (for 32-bit)<br>OpenGL 1.2.3 112629-11 (for 64-bit) |
| Sun Blade 1500, Solaris 8 HW 05/03 | — | XVR-1000 112564-05<br>XVR-500, Elite 3D, Expert 3D 108576-32<br>OpenGL 1.2.3 112628-11 (for 32-bit)<br>OpenGL 1.2.3 112629-11 (for 64-bit) |

| Operating System | Recommended Patch Bundle | Specific Patches Required |
|---|---|---|
| Solaris 8 | Recommended Patch Cluster March 25, 2003 | OpenGL 1.1.2 107104-13 (for 32-bit)<br>OpenGL 1.1.2 107105-13 (for 64-bit)<br>OpenGL 1.2 108131-17 (for 32-bit)<br>OpenGL 1.2 108132-17 (for 64-bit)<br>OpenGL 1.2.1 109543-18 (for 32-bit)<br>OpenGL 1.2.1 109544-18 (for 64-bit)<br>OpenGL 1.2.2 111993-02 (for 32-bit)<br>OpenGL 1.2.2 111994-02 (for 64-bit)<br>OpenGL 1.3 113886-34 (for 32-bit)<br>OpenGL 1.3 113887-34 (for 64-bit) |
| Windows XP Professional x64 Edition | Service Pack 1 | — |
| Windows XP Professional | Service Pack 2<br>Service Pack 3 | — |

## EDMInformation and EDMControl Support

The following applications are now available on Windows and UNIX as client or server:

- EDMInformation and EDMControl
- EPD interface for exploring AEC objects

Set the following environment variables to connect to a EDMInformation or EDMControl server from a Windows client:

- `setenv ORACLE_SID "oraclesid"`
- `setenv DBMS_HOST "hostname"`
- `setenv INFO_PASSWD "info_userid/info_passwd"`
- `setenv DBMS_PASSWD "dbms_userid/dbms_passwd"`
- `setenv dbmsnetd 300007`
- `setenv DBMS 300007`

If CADDS is installed, you can start the DBMS process by using the shortcut provided from **Start** on Windows.

## EPD.Connect

### Installing and Setting Up the cadds2pv Converter for DIVISION™ MockUp

Use the `cadds2pv` converter instead of the `cv2vdi` converter to convert CADDS parts to graphics in the `.bgf` format that is compatible with DIVISION MockUp. The `cv2vdi` converter is no longer supported.

To use the cadds2pv converter, you must install and configure ProductView™ Adapter for CADDS 5 as follows before you start EPD.Connect. ProductView Adapter is available only on HP-UX and Solaris SPARC.

- Set the PVIEW_HOME environment variable to the installation directory of ProductView Adapter:

  ```
  setenv PVIEW_HOME /opt/ptc/productview_adapters
  ```

- Add the ${PVIEW_HOME}/sun4_solaris/obj directory to the PATH environment variable:

  ```
  setenv PATH ${PATH}:${PVIEW_HOME}/sun4_solaris/obj
  ```

- Add the ${PVIEW_HOME}/etc/caddstools/sun4_solaris/lib directory to the LD_LIBRARY_PATH environment variable:

  ```
  setenv LD_LIBRARY_PATH
  ${LD_LIBRARY_PATH}:${PVIEW_HOME}/etc/caddstools/sun4_solaris/lib
  ```

**Note:** The **Display > Convert > All** and **Display > Convert > Selected** commands are currently not supported. If you select these commands, the converted objects are displayed in the default color of red.

### Cadds2pvs Command

Instead of directly running the cadds2pvs binary as in the previous releases, you must run one of the following scripts to generate the .gaf and the .gbf graphics files from a CADDS 5 part:

- cadds2pvs.pl on Windows
- cadds2pvs on UNIX

Both these scripts create the .gaf and .gbf files from the _pd file instead of the _td file of previous releases. Additionally, these scripts use the CADDS2PVS utility along with the CVPATH variable. Therefore, do not run this utility directly.

**Note:** The -f, the -u unit_type, and the -S options of the cadds2pvs command are not supported. See Appendix F, "CADDS Interface" of the *EPD.Visualizer User Guide* for details.

### Generating a List of the Selected Nodes in the Product Structure Window

EPD.Connect now supports the listing of up to 13,000 nodes using the TREE_STATS KEYWORD=SELECT_LIST command.

### Using the C5HOME Variable on Windows

You can use the C5HOME environment variable, available when you install CADDS 5, to distinguish between the CADDS $HOME and the default $HOME directories. This variable defines the location of the caddsrc-local file and the parts directory. If C5HOME exists, EPD.Connect uses the value of this variable instead of the values of $HOME, $EPD_HOME, or any other location you have defined.

To access parts from the location set as the value of the C5HOME variable, you may need to change the values of the following variables in the cvepd.ini or the caddsrc-local file to point to the value of the C5HOME variable:

- CA_ASSYPREFIX
- CA_READPREFIX
- CVCREATEDIR

If you uninstall CADDS 5 and want to access parts and the caddsrc-local file from $HOME, $EPD_HOME, or any other location that you have defined, you must manually remove the C5HOME variable. You may also have to appropriately modify the CA_ASSYPREFIX, CA_READPREFIX, CVCREATEDIR variables in the cvepd.ini or the caddsrc-local file.

## Clash Detection and Management (CDM)

CDM is a new application in EPD.Connect that enables you to detect and manage clashes. For details about its capabilities, refer to http://www.ptc.com/products/cadds5/clash-detection-and-management-solution.

### Setting NLSPATH and LD_LIBRARY_PATH on UNIX

When logging on as a Vault user to the standalone or the CADDS 5-connected mode of CDM, include ${EPD_HOME}/data/reposit/<lang>/%N.cat in the NLSPATH variable and ${EPD_HOME}/lib in the LD_LIBRARY_PATH variable. On HP-UX, you must set the SHLIB_PATH variable instead of LD_LIBRARY_PATH.

### Closing the CDM Message Window

Press the SPACEBAR instead of clicking **Ok** to close the CDM Message window that opens when you set a clash state to an invalid transition on the Modify Clash property sheet.

### Accessing Log Files

CDM creates a new log file in the /tmp directory on UNIX or the %TEMP% folder on Windows for each CDM session. All events that occur during that session are logged in that file. The name of a log file starts with cdm.log.latest. These log files are accessible even after CDM session exits. You can identify the log file for a CDM session based on the last modified date and time of the file.

## 3D Navigation

### Accessing a USB 3Dconnexion 3D Mouse on UNIX

If you have connected a 3Dconnexion 3D mouse to your workstation through the USB port, you must start its driver as root to access the device.

## Optegra Vault

### Single Entry for Optegra Applications in Add or Remove Programs Dialog Box

The installer on Windows creates a single entry for **Optegra Applications** in the dialog box that opens when you click **Start** > **Settings** > **Control Panel** > **Add or Remove**

**Programs**. You can select **Optegra Applications** and click **Remove** to remove all installed Optegra software.

### Changing the Rulebase Setup

While processing Database commands such as `Store`, `Update`, `Replace`, `Get`, and `Read`, change the rulebase files for initial and cleanup input to include one of the following lines after `COMMAND-GTCODE`:

- `COMMAND-APPEND=R`
- `COMMAND-APPEND=A`

The values of the `COMMAND-APPEND` parameter indicate the following actions:

- `R`—Replace the audit file
- `A`—Append the existing audit file

### Distributing the Vault Servers on Two Nodes

Distributing Vault servers for better load management works only when the main node and the auxiliary node are both on UNIX or on Windows. This configuration does not work for a combination of platforms.

### Enhanced Storage Capacity of Tape Media on UNIX and Windows

The incremental backup command for Vault, `CIIBKUP`, and the archive command, `CIARCHIVE`, can store up to 90 percent of the maximum storage capacity of the tape media. The value of the `ETAPESIZE` environment variable specifies the storage capacity in gigabytes. The default value is `2`. Make the value equal to or less than the actual storage capacity of the tape media. The `ETAPESIZE` environment variable is only used with the `TAPENLABEL` command.

### Incremental Backup on Windows

If you use the `tapelabel` command, you can perform an incremental backup only if the tape capacity is greater than the size of the data to be backed up.

## Optegra and CADDS Compatibility

If you want to use EPD-enabled CADDS 5 for Release 15.0, you must install Optegra 15.0. Earlier versions of Optegra are not supported.

**Note:** EPD-enabled CADDS 5 is supported on Sun Solaris SPARC only.

## CADDS 5 and Optegra Interoperability

In Optegra 15.0, the NAV/CAMU mode works with CADDS 5 Releases 14 and 15.0.