

# Optegra<sup>®</sup> Release 7 Release Notes

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# Preface

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*Optegra Release 7 Release Notes* include product information that you should note before using Optegra applications.

## Book Conventions

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

Convention	Example	Explanation
EPD_HOME	<code>cd \$EPD_HOME/install</code> (UNIX)  <code>cd %EPD_HOME%\install</code> (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	<code>Wheel_Assy_details</code>  <code>-xvf /dev/rst0</code>  Enter command> <b>plot_config</b>	Enter the text in a text box or on a command line.  Where system output and user input are mixed, user input is in bold.
System output	<code>CT_struct.aename</code>	Indicates system responses.
Parameter and variable names	<code>tar -cvf /dev/rst0 filename</code>	Supply an appropriate substitute for each parameter or variable; for example, replace <b>filename</b> with an actual file name.
Commands and keywords	The <code>ciaddobj</code> command creates an instance of a binder.	Shows command syntax.

Convention	Example	Explanation
Text string	"SRFGROUPA" or 'SRFGROUPA'	Shows text strings. Enclose text strings with single or double quotation marks.
Integer	<i>n</i>	Supply an integer for <i>n</i> .
Real number	<i>x</i>	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.
\$	\$ 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

PTC welcomes your suggestions and comments. You can send feedback electronically to [doc-webhelp@ptc.com](mailto:doc-webhelp@ptc.com).



# Known Issues and Considerations

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This chapter describes known issues and considerations while using Optegra Release 7. These considerations are grouped by product.

- General
- EPD.Connect
- EPD.Visualizer and 3D Viewer
- Vault
- AccessWare

## General

This section describes some known issues and considerations related to version number, browser settings, CADD5 5i on Solaris, and license.

### Obtaining the Build Version Number

You can obtain the build version number for EPD.Connect and Optegra installation on the UNIX operating system by reading the version file, `$EPD_HOME/data/Version`. The default path is `/opt/epd/dm/v70/data/Version`.

To obtain the build version number on the Windows NT operating system, perform the following steps:

1. Run the `regedit` utility.
2. Trace the build version number using the value of the `Install Build` key available at the following location:

```
<My Computer>
  <HKEY_LOCAL_MACHINE>
    <SOFTWARE>
      <Parametric Technology Corporation>
        <product-of-interest>
          <Version-Language>
```

The following example shows how you can obtain the build version on the Windows NT operating system:

```
<My Computer>
  <HKEY_LOCAL_MACHINE>
    <SOFTWARE>
      <Parametric Technology Corporation>
        <EPD.Connect>
          <7.0-French>
```

### Product Version Numbers during Installation

The default value of `$EPD_HOME` is `/opt/epd/dm/v70` on UNIX and `\EPD\DM\v70` on Windows. The product version directory is automatically updated during installation.

### Browser Settings for Java and Online Help

Before using the HTML online Help, make sure that Java and JavaScript are enabled in your browser preferences. Enabling Java and JavaScript allows you to

use the Main Menu, Contents, Index, Search, and Reset buttons in the navigator panel of the HTML online Help.

## CADDS 5i on Sun Solaris

### Setting the ndd (1M) Parameter

To improve the performance of CADDS 5 for Release 11 and later on Solaris 2.6 and later, PTC recommends setting the following ndd (1M) parameter:

```
/usr/sbin/ndd -set /dev/tcp tcp_naglim_def 1
```

Please note: After you change the ndd (1M) setting, you need not restart the system.

To make the tcp\_naglim\_def parameter permanent, add the ndd parameter at the end of the /etc/rc2.d/S69inet file.

Setting the ndd (1M) parameter increases the speed of CADDS 5 for Release 11 and later. CADDS 5 uses the /usr/tmp symbolic link for all temporary files, which affects the speed of CADDS 5 on Sun Solaris. To solve this problem, PTC recommends that the /usr/tmp link point to the /tmp directory for all temporary files. To achieve this, set the following environment variable in the .caddsrc-local or .caddsrc file:

```
setenv CV_DB_TMPDIR '/tmp'
```

The same can be achieved by creating the following link:

```
ln -s /tmp /usr/tmp
```

### Configuring Solaris for Graphics Acceleration

Perform the following steps to configure your Sun Solaris computer for graphics acceleration:

1. List information about your graphics board, using the following commands:

```
/usr/sbin/ffbconfig -prconf -propt  
/usr/sbin/afbconfig -prconf -propt
```

Please note: The commands ffbconfig of the Creator3D accelerator board and afbconfig of the Elite3D accelerator board return errors if your computer does not use these accelerator boards.

The output of the `ffbconfig` or `afbconfig` commands indicates the following classes of boards:

- FFB2+ — New Creator3D boards
- FFB\* — Older Creator3D boards
- AFB — Elite3D board

2. Obtain the required patches for the operating system.

3. Run the following commands for any Creator3D board:

```
ffbconfig -default -defoverlay true
ffbconfig -expvis enable
```

The `ffbconfig -default -defoverlay true` command sets the overlay parameter before running CADD5. The `ffbconfig -expvis enable` command is required for OpenGL on Solaris 2.6.

If you have a new Creator3D board, you must also run the following command:

```
ffbconfig -extovl enable
```

This command activates the additional color maps and other hardware features.

If you have an Elite board, run the following commands:

```
afbconfig -default -defoverlay true -expvis enable
afbconfig -extovl enable
```

4. Repeat step 1 to verify your changes and log out.

5. Click Options > Reset Login Screen in the Login screen. The previously specified settings are not effective unless you reset the Login screen. If the Reset Login Screen command is unavailable, restart the computer.

6. Run the `ps` command to verify that the Xsun process has restarted.

7. Log on and test the graphics board.

8. If graphics problems persist, check the resolution using the `ffbconfig -prconf` command. The output must read:

```
Current resolution setting:1280 x 1024 x 76
```

9. If the resolution does not read as shown in step 8, run the following commands:

```
/usr/sbin/ffbconfig -res 1280 x 1024 x 76
/usr/sbin/afbconfig -res 1280 x 1024 x 76
```

## Gamma Correction for the TIS Window

If you have set the `CV_PLATFORM` environment variable to `ogl` mode in the `caddsrc-local` file, change the gamma correction value to control color fading on Solaris 8 by using the following command:

```
/usr/sbin/fbconfig -g <value>
```

If you use the default gamma correction value 2.2, the Text Input Screen (TIS) window appears faded compared to the other CADD5 windows. To view a TIS window with the same color as that of CADD5, set the gamma correction value to a value from 0.9 to 10.

## Setting LM\_LICENSE\_FILE with a Path on UNIX

When you set the LM\_LICENSE\_FILE environment variable using

```
setenv LM_LICENSE_FILE file1:file2:file3:.....:filen
```

the applications that use the license try to obtain the license key from file1. If the license key is not found in file1, the application tries to get the license key from file2, or file3, or file4 and so on. After the application obtains the license key, any spawned applications or license calls and requests made by the applications for checking out other license features are locked to the same license server.

## Unsupported Products

Beginning with CADD5i Release 13 and Optegra Release 7, the following PTC products, based on the Formtek product are no longer supported:

CV: Stellar Sketch	CED-A0177-F
CV: Stellar View	CED-A0178-F
CV: Stellar Cleanup	CED-A0179-F
CV: Stellar Redline	CED-A0180-F
CV: ProSketch	CED-A0181-F
CV: Convert #2	CED-A0182-F
CV: Convert #3	CED-A0183-F
CV: Convert #4	CED-A0184-F
CV: Convert EDMICS	CED-A0185-F
CV: Convert #1 -Base FTKGrp4/TIFF/CALS	CED-A0186-F

If you have any concerns or queries for this proposed action, please contact PTC Technical Support or send e-mail to Marc Donoghue (med@ptc.com).

# EPD.Connect

This section describes some known issues and considerations while using EPD.Connect.

## Setting Variables in the epdconn.ini File

Set the following variables in the `epdconn.ini` file:

- `CA_EDIT_ATTR_WITH_SIGNOUT`

Setting the value of this variable to 0 enables you to edit the attributes without signing out Vault objects. However, this setting is known to cause attribute handling problems for objects of type PART.

The default setting for this variable is 1. PTC strongly recommends the default setting. To edit the attributes, sign out Vault objects before editing the attributes.

- `CA_OUTPUT_PREC`

In the Item Properties panel, a minor one-time rounding-off error occurs when you store a file using the Save or Save As option. For example, a rotational orientation of 180 degrees is converted to 180.000000000012 degrees when you use Save, Close, or Open.

The precision value for storing the rotational or positional orientation is specified by the `CA_OUTPUT_PREC` variable. The default value of this variable is 12. This default value causes the rounding-off error while storing the file with the Save or Save As command. To resolve this issue, increase the value of the `CA_OUTPUT_PREC` variable in the `epdconn.ini` file to 15.

## Setting the Variable for Client Timeout

You can set the `EDM_O_TIMEOUT` variable during Vault startup to the waiting time required for the client to fetch the results from the server. The default waiting time is 20 minutes. If you set this variable to less than 20 minutes, it resets to 20 minutes.

## Setting the EDMOPORT Environment Variable

To access two or more Vaults from the `pm.config` file during a single EPD.Connect session, ensure that the setting for the `EDMOPORT` variable is the same in all the Vaults and the client.



## Creating Instances of a Class with Different Children

EPD.Connect allows you to create instances of a class with different children. However, as a good practice, do not create such structures. These structures can lead to inconsistent product structures and could cause problems while using other applications, like CAMU, where they would be translated as is.

## EPD.Connect and DIVISION MockUp 2000i2

When the Convert and Load functions are used to display parts of an assembly in DIVISION MockUp, these functions fail with the following error:

```
cv2vdi Fatal: cannot set output name for multiple input file.
```

To resolve this problem, replace line number 164 in the `$EPD_HOME/data/explorer/convert/CADDS` file

```
$call = "$dwise_conv_name -part $target -o $outfile -pb  
$outdir $dwise_conv_opt";
```

with:

```
$outdir =~ /\[/[a-zA-Z0-9_\-]+\$/;  
$path = $`;  
$call = "$dwise_conv_name $outdir/_pd -p $path $dwise_conv_opt";
```

## Changing the Application Property of CAMU Parts

To change the application property of CAMU parts that are already stored, get and update or replace these parts.

## Tree Font Customizer on HP-UX

The Tree Font Customizer now works as intended on HP-UX for all languages except Japanese.

## navsetup Script

Beginning with Optegra Release 5, the `navsetup` script is not being shipped. All the releases before Release 5 used different `cab` binaries for working with different versions of CADDs. Hence, `navsetup` scripts were run to put the appropriate `cab` binary in the `$EPD_HOME/bin` directory from the TAR files.

In addition, the `navsetup` script was used to copy different menu files, depending on the revision of CADD5 that you were using. From Optegra Release 5, a single cab binary works with all the supported releases of CADD5. The binary is directly installed in the `$EPD_HOME/bin` directory. The menu files are also directly loaded during the installation, and the same sets of menu files are supported for different releases of CADD5.

## Support for the Comma Decimal Separator

Geometric orientation values are supported at locales where the decimal separator is a comma. For example, in the French locale, values with a comma as the decimal separator are correctly converted in client's locale during `get` or `read` Vault operations and opening of PS or CAMU files.

## Plotting a Tree Structure in EPD-Enabled CADD5 5i Mode

To plot an assembly tree structure in the EPD-enabled CADD5 5i mode, choose `File > Plot > Create CGM File` or `File > Plot > Plot CGM` from the EPD.Connect main menu. For details refer to section "Plotting a Tree Structure" on page 2-49 in *EPD.Connect User Guide*.

## EPD.Visualizer and 3D Viewer

If you are using EPD.Visualizer or 3D Viewer in the `xgl` mode on Sun Solaris, you must include the `$EPD_HOME/lib/xglstub` path as follows to the existing paths specified for the `LD_LIBRARY_PATH` variable:

```
setenv LD_LIBRARY_PATH $EPD_HOME/lib/xglstub:${LD_LIBRARY_PATH}
```

# Vault

This section describes some known issues and considerations while using Vault.

## Performing Vault Operations

After you perform a Vault operation, EPD.Connect may occasionally issue the ORA-02108 error during the automatic refresh session of the Data Browser. Ignore this error and click the Refresh button of the Data Browser to view the correct update of the Vault database.

## Registration Effect for Vault Commands

The AUTOREGISTRATION effect for the CIGET, CISTORE, and CICOPY commands follows:

- For the CIGET command, if the file revision that you transferred previously has been released, Vault creates a new revision at the initial in-work status level. If AUTOREGISTRATION is ON, Vault registers the file automatically.
- For the CISTORE command, if AUTOREGISTRATION is ON, Vault stores the given file and registers it automatically.
- For the CICOPY command, if AUTOREGISTRATION is ON, Vault registers the file copy automatically.

## Edit User Attributes Dialog Box and the EDMGUI

You cannot access the Edit User Attributes dialog box using the Edit > User Attributes, View > Vault > Files, and View > Vault > Parts views menus in an out-of-box application. To enable the Edit User Attributes dialog box, edit the \$EPD\_HOME/data/app-defaults/\$LANG/Edmgui file as follows:

1. Delete the comment symbol (!) from the following lines:

```
!Edmgui.E240.textValue  
!Edmgui.E240.source
```

2. Add E240 at the end of the Edmgui.Edit.contents menu list.

## Known Inconsistencies in the User Interface

After enabling the Edit User Attributes dialog box, the following known inconsistencies may be observed in the User Attributes panels. These inconsistencies are related to the user interface and do not affect the database.

- **Changing Attribute Values** — If you edit an attribute value and open the Edit User Attributes dialog box again, the Attribute Value field displays the value that was last changed for the selected attribute.
- **Deleting Attributes** — When you select an attribute for deletion and click Delete, the attribute value is deleted but the attribute name is still displayed in the list. The attribute name is deleted only when you click OK.
- **Creating New Attributes Names** — Newly created attribute names are not associated with an object.

## Workaround for Inconsistencies

To work around these inconsistencies, use the Vault command-line interface to edit user attributes.

- To add a new instance or change the value of a user attribute, use the `ciassociat` command as follows:

```
ciassociat object-name=<file/part name>
object-type=<file/part>
input-attrs=<attribute filename that holds
the value of all attributes, the instance
number and the value>
```

The format of the attribute file is

```
ATTRIBUTE_NAME(instance number)=
attribute_value
```

- To change the value of the existing attributes, use the `cichquattr` command as follows:

```
cichquattr object-name=<file/part name>
object-type=<file/part>
input-attrs=<attribute filename that holds
the value of all attributes, the instance
number and the value>
```

## Installing Applications on Windows

The information in this section overrides some of the information in Chapter 2, *Installing Applications on Windows*, in *Installing Optegra Applications*. Refer to this section for the changes in the installation information for Optegra 7.

### System Prerequisites

This section describes the new requirements for disk space, hardware, and software for Windows. The next table provides the disk space requirements for each Optegra application.

Disk Space Requirements : Before you install Optegra, determine the total required disk space.

**Table 1-1 Approximate Required Disk Space in Kilobytes**

<b>Application/Option</b>	<b>Approximate Disk Space Required</b>
Administrator	4400
AutoCAD Interface	60
CATIA Support	80
Distributed Vault	20000
EPD.Connect	60000
Information Browser	35000
License Manager	800
Locator	29000
MEDUSA Support	80
Pro/ENGINEER Interface	2400
Pro/ENGINEER Support	80
Programming	28000
Programming SDK	650
Vault Server	262000

Hardware and Software Requirements: The changes in the latest software environment needed for Optegra 7 products and programming environment are:

- Windows NT 4.0 with Service Pack 6
- VC++ 6.0 compiler with Service Pack 4
- Oracle 9i Release 2 (9.2.0.1.0)

System and Memory Requirements: The following applications are now supported on the Windows XP platform also:

- Administrator
- AutoCAD Interface
- EPD.Connect
- Information Browser
- Locator/PC
- Pro/ENGINEER Interface

The minimum and recommended memory requirements for the previous applications are the same for the Windows XP and Windows NT platforms.

## Vault Server

The following information completely replaces the Vault Server section under Server Applications in Chapter 2, “Installing Applications on Windows,” in *Installing Optegra Applications*.

Vault Server: To install the Vault Server Applications on Windows NT:

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

The installation process begins. During installation, the Choose Setup Language window opens. If the window fails to appear, run `setup.exe` from the CD-ROM drive.
3. Select the language and click OK.
4. The Welcome screen opens. Click Next.
5. The Information window opens. Click Next.
6. The Choose Destination window opens. Specify the destination folder and click Next.
7. The Select Components window opens. Choose the applications that you want to install. Highlight a component to display its description. Select Vault Server. Select any other option except Distributed Vault. Click Next.

Please note: Table 2-4, “Optegra Applications for Windows,” in section Installing Applications in Chapter 2, contains descriptions of the components that you can install. Highlight a component to display its description.

8. The Select Oracle SID window opens. Select the Oracle SID and click Next.
9. The Default Directories window for Tablespaces opens. Select a directory. Click Next.
10. The Default Directories window for Rollback opens. Select a directory. Click Next.
11. The Select Database Type window opens. Select the appropriate database type, that is, small, medium, or large, and click Next.
12. The Select Components Optegra Vault Default Revision Sequence window opens. 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*.

13. The Select Programs Folder window opens. This does not apply for the Vault Server. Click Next.
14. The Start Copying Files window opens. Click OK.
15. You are prompted with following message:

Vault files have been copied from the CD image. If you want any site specific configuration, press No. You can continue with the installation once your configuration is over at a later time by running the installer again. If you want to continue with the current vault configuration, press Yes.

If you click No, the Vault installation copies the remaining files and quits without creating the Oracle tablespaces and data files.

If you click Yes, you are prompted to select the installation from the following:

Option	Description
Overwrite existing files	Overwrites all binaries and Oracle files and quits without creating the Oracle tablespaces and datafiles.
Overwrite existing files and install default configuration	Overwrites all binaries and Oracle files and proceeds with the installation using the default configuration.
Overwrite existing files and install default configuration	Overwrites the files and proceeds with the installation using user-defined configuration.
Do nothing with vault	Ignores Vault files while installing the client software. For example, Locator, EPD.Connect, Administrator, or Java_IB.

16. Refer to Appendix B, “Documentation Map,” in *Installing Optegra Applications* for a list of documents for use after installation.

## Preference for a Distributed Vault Environment

If the local Vault is not participating in the distributed Vault environment, you must set the preference `use_dv` to `no` in `$EPD_HOME/cfg/vault.ini` or `$EPD_HOME/cfg-ib/vault.ini`. If there is no distributed Vault setup, but the preference `use_dv` is set to `yes`, then during Vault signon, the application stops responding. In this case, quit the application (including all the JRE processes) and restore the preference `use_dv` value to `no`.



## Installing EPD.Connect with CAMU on the Same System as Vault

While installing EPD.Connect with CADDs CAMU on the same system as Vault, you need to run the `navinstall` script to update Oracle tables and install Vault attribute rules, Vault views, and Vault attributes. Note that when you run the `navinstall` script, the `navrules` called by `navinstall` does not call `ldamlogic`.

## AccessWare

The keyboard shortcuts for editing text boxes are:

- CTRL+U to delete characters from the current character to the first character.
- CTRL+C to copy the contents of a text box.
- CTRL+X to cut the contents of a text box.
- CTRL+V to paste the cut or copied contents into a text box.