HP Performance Manager

for the Windows®, HP-UX, and Solaris operating systems

Software Version: 8.10

Installation, Migration, and Upgrade Guide

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This guide's title page contains the following identifying information:

- Software Version number, which indicates the software version.
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HP Software online support provides an efficient way to access interactive technical support tools. As a valued support customer, you can benefit by using the support site to:

- Search for knowledge documents of interest
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- Enter into discussions with other software customers
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To find more information about access levels and HP Passport, go to:

http://support.openview.hp.com/new_access_levels.jsp

Contents

1 Conventions Used in this Document

The following conventions are used in this document when referring to the location of files on the HP Performance Manager server system.

➤ The forward slash "/" is used on UNIX systems and the backward slash "\" is used on Windows systems. The forward slash "/" is used in the examples and specifications through out this document:

Convention	Description	On Windows Systems	On UNIX Systems
<install_dir>	The directory where Performance Manager is installed.	The default installation directory is `C:\Program Files\HP\HP BTO Software`. If you have the previous versions of HP Software products such as OpenView Performance Agent, OpenView Reporter or OpenView Operations installed on your system, the default Performance Manager installation directory is `C:\Program Files\HP OpenView`.	On HP-UX and Solaris systems, the installation directory is `/opt/OV`.
<data_dir>	The common data directory where data files and log files related to HP Software products are stored	On Windows 2003, the default data directory is `C:\Documents and Settings\All Users\Application Data\HP\HP BTO Software`. On Windows 2008, the default data directory is `C:\ProgramData\HP\HP BTO Software` If you have the previous versions of HP Software products such as OpenView Performance Agent, OpenView Reporter or OpenView Operations installed on your system, the default data directory is `C:\Program Files\HP OpenView\data`.	On HP-UX and Solaris systems, the data directory is `/var/opt/OV`.

Convention	Description	On Windows Systems	On UNIX Systems
<PM_data_dir>	The directory where the Performance Manager data files are placed.	On Windows, the default Performance Manager data directory is `<data _dir>\shared\server\`. However the default data directory on windows cluster is different. For more information, see Installing Performance Manager on a Cluster Environment.	On HP-UX and Solaris systems, the Performance Manager data directory is `/var/opt/OV/shared/ server.`

2 Installation Overview

This guide instructs you on how to install Performance Manager 8.10, upgrade to Performance Manager 8.10 and migrate data from the previous versions of Performance Manager.

This chapter provides information about:

- The operating systems, on which this version of Performance manager is available.

- Hardware and software components that are required to run Performance Manager.

- The components required for each operating environment.

Before installing HP Performance Manager, make sure you go through the Installation Requirements and Pre-requisites sections. For information about documentation on Performance Manager, see Related Documentation.

If you are using HP Performance Manager with HP Operations Manager (HPOM) for Windows or UNIX, then HPOM has to be installed and configured before installing Performance Manager.

Supported Platforms

This version of Performance Manager is available on the following platforms:

Operating Systems	Architecture	Versions
Microsoft Windows	X86 (32 bit) and X86_64 (includes AMD64 and EM64T, 32 bit operating system)	• Windows 2003, Service Pack 2 • Windows 2003 Server, Release 2 • Windows 2008 Server
HP-UX	PA-RISC (32 bit or 64 bit)	• HP-UX 11i V1, V2 (update 2), V3
	IPF	• HP-UX 11iV2 (update 2) and V3
Sun Solaris	Sun SPARC (32 or 64 bit)	• Solaris Sparc 9 • Solaris Sparc 10

Installation Requirements

Before installing Performance Manager successfully on your systems, make sure you check the Java Software Developers Kit and port settings.

During installation, HP Software Installer performs the following tasks:

- Checks if your system meets the disk space requirements. For information on the disk space see Hardware Requirements on page 10.

- Checks if your system has any other HP software product installed.

- Checks if the ports are in use. If there is a conflict, it prompts you to change the port settings .

⚠️ During installation, HP Installer detects if the default http, https, Shutdown port and JK2-AJP 13 ports, that is, 8081, 8444, 8006 and 8010 respectively, are in use by any other application. If any of these ports are in use by other applications, the following warning message appears.

```
INFO:Shutdown port is free

INFO:HTTP Port is free

WARNIG:HTTPS Port is in use.Change after installation
```

Though the installation of Performance Manager will be successful, you will not be able to access Performance Manager using the default port numbers. In such a case, you need to change the default http, https, shutdown and JK2-AJP 13 port settings to access Performance Manager. For more information, see *HP Performance Manager Administrator Guide*.

- Provides a detailed log of what is detected.

- Provides a list of components installed.

- Detects if Performance Manager 5.x is installed during upgrade. If it detects Performance Manager 5.x installed on Windows systems, it prompts you to uninstall `Apache-tomcat Servlet Container Service.` For more information, see Upgrading to Performance Manager 8.10 on page 25.

Hardware Requirements

A minimum of 600 MHz Processor speed with 1 GB of memory is recommended for optimal performance. Installing on a slower system or one with less memory may result in slow performance.

Disk Space

Platform	Disk Space required
HP-UX PA	550 MB in `/opt` and in `/tmp`
HP-UX IA	1.1 GB in `/opt` and in `/tmp`
Windows	200MB in `<install_dir>`
Solaris	400 MB in `/opt` and in `/tmp`

Memory Requirements

Minimum 1 GB of physical memory. If it is a cluster environment, I GB physical memory on each node of the cluster.

It is recommended that you have 2 GB of physical memory for optimal performance.

Supported Browsers

The web browsers that are required to access Performance Manager are as follows:

Operating Systems	Supported Browsers
Microsoft Windows	• Fire Fox 1.5 and 2.0 • Internet Explorer 6 and 7
HP-UX	• On HP-UX PA-RISC, 11i v1, v2, v3 - Firefox 1.5 • On HP-UX IPF 11iv2 and v3 - Firefox 1.5
Sun Solaris	On Solaris 9 and 10 - Firefox 2.0

Communication Protocols

Performance Manager supports the following communication protocols:

- HTTP(S) 1.1
- RPC

Performance Manager by default uses the HTTP(S) protocol to connect to the system running Embedded Performance Component (EPC) or Performance Agent. For information on changing the default data communication protocol, see *HP Performance Manager Administrator Guide*.

Java Runtime Environment (JRE) Requirements

For HP-UX

The default HP-UX configuration, specifically kernel parameters and system tuneables, do not support certain types of Java applications. Applications that typically need to be tuned manually are large, server-side Java applications that run long, have large numbers of threads, and have a large ratio of client to server connects, such as Performance Manager. Upon installation, Java Out-of-Box, which is a stand-alone bundle, installs startup (RC) scripts, modifies kernel parameters, rebuilds the kernel, and reboots the system. During startup, the startup scripts modify system tuneables, thus provide better out of the box behavior for Java. For more information, visit the following website:

http://www.hp.com/products1/unix/java/java2/outofbox/index.html.

Before you install Performance Manager on HP-UX systems, apply the following versions of patches or more recent versions of the same:

Required HP-UX Patches to support Java Runtime Environment (JRE) version 1.50	
HP-UX 11.11 (11iv1) PA	• PHSS_30049 - Loading native libraries for class Server Socket • PHKL_34534 - Kernel thread priority inversion
HP-UX 11iv2 IA and HP-UX 11iv2 PA	• PHKL_35029 - ksleep patch, required by Java 5.0 runtime (Integrity and PA-RISC)

For more information on patches for the HP-UX systems, visit the following web site:

http://www.hp.com/products1/unix/java/patches/index.html

The Java Development Kit requirements are mandatory for HP-UX. Make sure you apply these patches before installing HP Performance Manager.

For Windows

Before you install Performance Manager on Windows systems, apply the following versions of patches or more recent versions of the same

Required Patches to support Java Runtime Environment (JRE) version 1.50 or higher	
Windows 2003	Windows Scripting Host version 5.6, C++ library msvcp60.dll

For information on patches for Windows systems, visit the following web site:

http://java.sun.com/j2se/1.4.2/system-configurations.htm

Other Patches Required

HP-UX 11iv1 PA	• PHCO_25452 1.0 libc cumulative patch. • PHSS_22898 1.0 HP aC++ -AA runtime libraries (aCC A.03.30)
Solaris 9	111711-09* 32-bit Shared library patch for C++

Language Options

The Performance Manager 8.10 version is available in English, Japanese, Korean and Simplified Chinese languages. In localization, the user interface elements, web pages, log files, online help and user documentation are translated to a specific language.

While installing Performance Manager, the installer prompts you to select the language at the beginning of the installation. You will have the option of choosing between English and the language to which your system locale is set. In an English locale, only 'English' option appears.

For example: In Japanese locale, you will have the options: Japanese and English.

3 Installation Steps

⚠ To install Performance Manager 8.10 on your systems, you must log on as administrator (for Windows systems) or root user (for HP-UX and Solaris systems).

If OvTomacatB is installed by any other HP software product, before installing Performance Manager, make sure OvTomcatb is not configured to run in the non-privileged mode, that is without the root user priviliges (HP-UX and Solaris systems) or administrative privileges (on Windows systems). If ovtomcatb is configured to run in the non-privileged mode, modify the settings to run ovtomcatb as root user or administrator.

You can install Performance Manager on the Windows or HP-UX and Solaris systems by following the procedures described in the following sections:

- Installing Performance Manager on Windows on page 16

- Installing HP Performance Manager on HP-UX and Sun Solaris on page 18

⚠ During installation, if the default http, https, Shutdown port and JK2-AJP 13 ports, that is, 8081, 8443, 8006 and 8010 respectively, are in use by any other application, the following warning message appears.

```
INFO:Shutdown port is free

INFO:HTTP Port is free

WARNIG:HTTPS Port is in use.Change after installation
```

Although the installation of Performance Manager will be successful, you will not be able to access Performance Manager using the default port numbers. You need to change the default http, https, shutdown and JK2-AJP 13 port settings to access Performance Manager. For more information, see the *HP Performance Manager Administrator Guide*.

When you upgrade OpenView Reporter 3.70 to Reporter 3.80, the Graphing Component (GC) 4.x will not be removed from your system. When you try to install Performance Manager 8.10 on the same system, the installer prompts you to uninstall GC 4.x. To uninstall GC 4.x, run the following command at the command prompt:

msiexec /x {90605306-2C02-4D00-ADD1-A3D0F1573EAA} /qb

⚠ If you uninstall GC 4.x, the on-demand reports will be removed from the Reporter user interface.

However, if your system has Operations Manager for Windows 7.5 installed and is upgraded to Operations Manager for Windows 8.10, GC 4.x will be automatically removed from your system.

▶ While installing Performance Manager, the installer prompts you to select the language at the beginning of the installation. You will have the option of choosing between English and the language to which your system locale is set. In an English locale, only 'English' option appears.

Installing Performance Manager on Windows

You can install Performance Manager on your Windows system by using either of the following procedures:

- Attended Installation
- Unattended Installation

Attended Installation

To carry out attended installation:

1 Insert the HP Performance Manager CD/DVD media for Windows to the CD/DVD-ROM drive. The HP Performance Manager Installation Home page appears.

2 Click **Install HP Performance Manager**.

   Or

   On the CD/DVD-ROM drive, double-click **HPOvPM_8.10.00_setup.exe**.

   The HP Performance Manager Installation wizard appears.

   ➤ If you are installing Performance Manager for the first-time on your Windows system, the `ovinstallparams.ini` file containing installation parameters, is created in the system's `temporary` directory. During installation, the HP Software Installer checks for the `ovinstallparams.ini` file. If the installer detects the `ovinstallparams.ini file` on your system, a message asking if you want to reuse the values in the file appears.

   - Click **Yes** to use the values in the configuration file as default values.
   - Click **No** to overwrite the existing configuration file.

   If the Installer does not find the file, the installer creates the `ovinstallparams.ini` file with default values in the `temporary` directory. To save the `ovinstallparams.ini` data, copy the file to an alternate location before installing other HP Software products.

3 If you have configured the locale of the system to a language other than English, the installer prompts you to select the language at the beginning of the installation. You will have the option of choosing between English and the language to which your system locale is set. In an English locale, only 'English' option appears.

4 On the Installation wizard, click **Next**. The License Agreement screen appears.

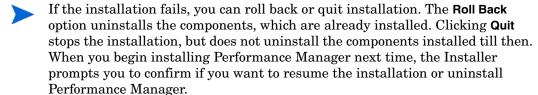5 Read the terms of license agreement and select the 'I accept the terms of License Agreement' option.

> If you have other HP Software products installed on your system, the installation wizard displays the application folder path and data folder path of those products as the default directories for your Performance Manager installation. If no other HP products are installed and you are installing Performance Manager for the first time, specify the folder paths for the following directories:

>> a The application folder path or directory, where you want to store the program files. The default application directory is `C:\Program Files\HP\HP BTO Software`.

>> b The data folder path or directory, where you want to store data files such as log files. On Windows 2003, the default data directory is `C:\Documents and Settings\All Users\Application Data\HP\HP BTO Software`. On Windows 2008, the default data directory is `C:\ProgramData\HP\HP BTO Software`.

6 Click **Next**. The Pre-Install Summary screen appears. This screen displays the list of components that will be installed.

7 Click **Install**.

> If some components are already installed, you will see the **Force Repair of Already Installed Component Packages** check box during installation. You can use either of the following options:

> • Select the Force Repair of Already Installed Component Packages check box to reinstall the selected components, as applicable.

> • Clear the Force Repair of Already Installed Component Packages check box to prevent the reinstallation of selected components, as applicable. Clearing the check box leaves the currently installed software unchanged.

> If the installation fails, you can roll back or quit installation. The **Roll Back** option uninstalls the components, which are already installed. Clicking **Quit** stops the installation, but does not uninstall the components installed till then. When you begin installing Performance Manager next time, the Installer prompts you to confirm if you want to resume the installation or uninstall Performance Manager.

8 Click the **Details** tab and expand the components tree to view the list of components shared among Performance Manager and other HP products.

9 To view the log file on your system, click **View Log Files.**

10 Click **Done** to complete the installation. The Performance Manager icon will be created on your Desktop. To start Performance Manager, double-click the Performance Manager icon. The HP Performance Manager Home page appears.

> If the system requires to be restarted, the message, 'You may need to restart your system for the configuration changes made to the system to take effect. Would you like to quit this installation?' appears. It is recommended that you restart your system after installation, though it is not mandatory.

Unattended Installation

▶ In the unattended installation procedure, the installer uses the values in the `ovinstallparams.ini` file as default values, if it is present in the system's temporary directory. Make sure this file is available before you start installation. If you want to make any changes to the file, modify it before you start installation.

To carry out unattended installation:

1 Open the Windows command prompt and type the name of the drive, where the `HPOvPM_8.10.000_setup.exe` file is located, as shown below:

   `<drive>`:

   In this instance, **`drive`** is the CD/DVD-ROM drive containing the Performance Manager files.

2 If your system locale is set to English, enter the following syntax at the command prompt:

   `HPOvPM_8.10.000_setup.exe -i silent`

   If you have configured the locale of the system to a language other than English, , enter the following syntax at the command prompt:

   `HPOvPM_8.10.000_setup.exe -i`

   The installer prompts you to select the language at the beginning of the installation. You will have the option of choosing between English and the language to which your system locale is set. In an English locale, only 'English' option appears.

▶ The installation process happens in the background. You can open the **Windows Task Manager** -> **Processes** and check for `HPOvPM_8.10.000_setup.exe` listed. You can also check the log file available in the `<temp_directory>/HPOvInstaller` directory to verify if the installation is complete.

In this instance, the `temp directory` refers to the system's `temporary` directory.

Installing HP Performance Manager on HP-UX and Sun Solaris

You can install HP Performance Manager on your HP-UX or Solaris system by using any of the following procedures:

- Attended Installation
- Unattended Installation

Attended Installation

You can install HP Performance Manager on your HP-UX or Solaris systems through Graphical and command line interfaces.

Installing HP Performance Manager through Graphical Interface

To install Performance Manager using X 11 interface, perform the following tasks:

1 Login as a `root` user.

2 Place the HP Performance Manager 8.10 CD/DVD-ROM media in the CD/DVD drive. If necessary, mount the CD/DVD-ROM.

3   To start installation, if you want to use the X11 terminal window, export the DISPLAY variable to point to an X11 terminal. Type the following:

   `<CD/DVD-ROM> HPOvPM_8.10.000_setup.bin`

   The HP Performance Manager Installation wizard appears. This window displays an introductory message i.

> If you are installing HP Performance Manager for the first-time on your HP-UX or Solaris system, the `ovinstallparams.ini` file containing the installation parameters is created in the system's `temporary` directory. During installation, HP Installer checks for the `ovinstallparams.ini` file. If HP Installer detects the `ovinstallparams.ini file` on your system, a message asking if you want to reuse the values in the file appears.
>
> — Click **Yes** to use the values in the configuration file as default values.
> — Click **No** to overwrite the existing configuration file.
>
> If HP Installer does not find the file, the system creates the `ovinstallparams.ini` file with default values in the `temporary` directory. To save the `ovinstallparams.ini` data, copy the file to an alternate location, before installing other HP products.

   If you have configured the locale of the system to a language other than English, the installer prompts you to select the language at the beginning of the installation. You will have the option of choosing between English and the language to which your system locale is set. In an English locale, only 'English' option appears.

4   On the HP Performance Manager Installation wizard, click **Next**. The License Agreement screen appears.

5   Read the terms of license agreement. To continue with installation, select `I accept the terms of License Agreement` option.

6   Click **Next**. The Pre-Install Summary screen appears. The screen displays the list of components that will be installed.

7   Click **Install**.

> While installing, you might see the **Force Repair of Already Installed Component Packages** checkbox. You can use either of the following options:
>
> • Select the Force Repair of Already Installed Component Packages check box to reinstall the selected components, as applicable.
> • Clear the Force Repair of Already Installed Component Packages check box to prevent reinstallation of the selected HP Software components, as applicable. Clearing the checkbox does not change the currently installed software components.

> If the installation fails, you can roll back or quit installation. The **Roll Back** option uninstalls the components, which are already installed. Clicking **Quit** stops the installation, but does not uninstall the components installed till then. When you begin installing Performance Manager next time, the Installer prompts you to confirm if you want to resume the installation or uninstall Performance Manager.

8   Click the **Details** tab and expand the components tree to view the list of components shared among HP Performance Manager and other HP Software products.

9   To view the log file on your system, click **View Log Files.**

10 Click **Done** to complete the installation.

> If the system requires to be restarted, the message, 'You may need to restart your system for the configuration changes made to the system to take effect. Would you like to quit this installation?' appears. It is recommended that you restart your system after installation, though it is not mandatory.

Installing HP Performance Manager through Command Line Interface

To install Performance Manager through Command Line interface:

1 Login as a `root` user.

2 Insert the HP Performance Manager 8.10 CD/DVD-ROM media into the CD/DVD drive. If necessary, mount the CD/DVD-ROM.

3 Run the following command:

— If you are installing Performance Manager on a stand-alone system:

<CD/DVDrom_mount>/**HPOvPM_8.10.000_setup.bin -i console**

If you have configured the locale of the system to a language other than English, the installer prompts you to select the language at the beginning of the installation. You will have the option of choosing between English and the language to which your system locale is set. In an English locale, only 'English' option appears.

4 When the prompt, 'I accept the terms of the License Agreement' for the License information appears, type Y to accept the terms and continue installation. The installer checks all the Install Requirements.

5 Click **Enter** to continue. The pre-installation summary appears.

6 Click **Enter** to continue.

When the installation is complete, you will receive a message which states that the installation was completed successfully.

Unattended Installation

To carry out unattended installation:

1 Login as a `root` user.

2 Insert the HP Performance Manager 8.10 CD/DVD-ROM media into the CD/DVD drive. If necessary, mount the CD/DVD-ROM.

3 Type the following syntax at the command prompt:

HPOvPM_8.10.00_setup.bin -i silent.

> If the installer finds a working installation of HP Performance Manager, it will uninstall HP Performance Manager when you run the **-i silent** command. If not, it will install Performance Manager.

4 To verify the installation, check the log files.

Installation Results

On successful installation:

• On the HP-UX and Solaris systems, the application directory and data directory paths are displayed.

- On the Windows systems, the `HP\HP BTO Software\Performance Manager` folder is added to the **Start > Programs** menu on the Windows systems.

- Several log files are created and placed in the `<PM_data_dir>/log` and `<data_dir>/log/tomcat` directories.

The HP Performance Manager documentation is available in the install directory, the location specified for program files. See Chapter 7, Related Documentation, for a comprehensive list of documentation on HP Performance Manager.

Installing Performance Manager License Key

To use Performance Manager, you must have the license key password. When you install Performance Manager for the first time, a 60-day trial license will be provided. Within this 60-day period, you must obtain a permanent license key password or a trial evaluation extension to continue using the product.

To obtain a permanent license:

1 Run the following command at the command prompt:

    *<install_dir>***/bin/ovpm license**

    The status of Performance Manager license will be displayed and the `License Command>` command line prompt appears.

    ▶ On HP-UX and Solaris systems, export the **DISPLAY** variable to direct the AutoPass GUI to a proper display window, before running the **ovpm license** command.

    If you are running Performance Manager with a trial license, the following message appears:

    `Instant On: Yes,` in addition, the expiration Date and the number of days left expiration of license appears.

    If the permanent product license is already installed, the following message appears:

    `HP Performance Manager has a permanent license`

2 Type **gui** at the `License Command>` command line prompt. The **HP Autopass** User Interface appears. The screen displays the following options:

    - Retrieve/Install License Key

    - Install/Restore License Key from file

    - Install/Restore License Key through E-mail/Fax

3 Click any of the above-mentioned options and follow the steps. For more information, see *HP Autopass Online Help*.

Removing HP Performance Manager

You can remove Performance Manager installed on your Windows or HP-UX or Solaris systems by using the procedures described in the following sections:

Uninstalling HP Performance Manager on Windows

You can uninstall HP Performance Manager on your Windows system by using any of the following procedures:

- Attended Uninstallation
- Unattended Uninstallation

Attended Uninstallation

To uninstall Performance Manager using the Uninstallation wizard,

1   Stop HP Performance Manager, if it is running.

2   Go to **Start > Settings > Control Panel**.

3   Double-click **Add or Remove Programs**.

4   Select HP Performance Manager.

5   Click **Change/Remove** to uninstall. The HP Performance Manager Uninstallation wizard appears.

6   Select the **Uninstall** option.

7   Click **Next.** The Pre-uninstall summary screen appears.

8   Click **Uninstall.** The wizard starts uninstalling Performance Manager.

9   Click **Done** to complete uninstallation.

Unattended Uninstallation

To uninstall Performance Manager through command prompt:

1   Open the Windows command prompt and type the name of the drive, where the HP Performance Manager `HPOvPM_8.10.000_setup.exe` file is located, as shown below:

<drive>:

In this instance, *drive* is the location of Performance Manager files.

2   Run the following command.

`<drive>/HPOvPM_8.10.000_setup.exe -i silent`

Uninstalling HP Performance Manager on HP-UX and Solaris

1   Log on as `root` user.

2   Change to the directory `/opt/OV/Uninstall/HPOvPM`.

3   Run the installation:

—   To use an X11 interface, export the `DISPLAY` variable to point to an X11 terminal if necessary. Then run the command:

`./HPOvPM_8.10.000_setup.bin`

— To use a non- X11 interface, run the command:

```
./HPOvPM_8.10.000_setup.bin -i console
```

4 Select Uninstall.

Removing configurations and user graph templates

Removing Performance Manager does not remove configurations or user graph templates. You need to manually remove the files from the data directory.

Removing Performance Manager Files using the Clean-up Script

After removing Performance Manager components, you must run the following clean-up script. This script is available in the *<install_dir>*\support:

clnup_ovpm.bat for Windows

clnup_ovpm.sh for UNIX

The clean-up script removes the following files from *<PM_data_dir>*\conf\perf:

— OVPMconfig.ini

— OVPMUsers.xml

— OVPMSystems.xml

— ovpm.tcf

— VPI_GraphsUserFavorites.txt

— OVPMReportTemplate.htm

— Any folder which starts with the name **"VPI_".**

4 Upgrading to Performance Manager 8.10

If you have HPOM installed on your system, before upgrading to PM version 8.10, make sure you have HPOM for windows, version 8.10 or HPOM for UNIX, version 8.x on your system.

▶ It is recommended to save the VPI_Graphs template files available in the `<INSTALL_DIR>/ newconfig` directory to another location before upgrading to Performance Manager 8.10, as HP Installer replaces these files while upgrading.

Upgrading from Performance Manager 5.x

You can upgrade to Performance Manager 8.10 on the Windows or HP-UX or Solaris systems by using the procedures described in the following sections:

- Upgrading to Performance Manager 8.10 on HP-UX and Solaris
- Upgrading to Performance Manager 8.10 on Windows

▶ Performance Manager version 5.x uses Apache-tomcat Servlet Container Service. During upgrade on Windows systems, HP Installer prompts you to uninstall Apache-tomcat. You can retain Apache-tomcat if you want to use for other applications installed on your system. For more information, see Preserving Tomcat 5.0.25.

Upgrading to Performance Manager 8.10 on HP-UX and Solaris

To upgrade to Performance Manager through the command line interface:

1 Login as a `root` user.

2 Insert the HP Performance Manager 8.10 CD/DVD-ROM into the CD/DVD drive. If necessary, mount the CD/DVD-ROM.

3 Run the following command:

<CD/DVDrom_mount>/**HPOvPM_8.10.000_setup.bin -i console**

4 When the installer prompts you to continue with installtion, press Enter. The prompt, 'I accept the terms of the License Agreement' for the License information appears

5 Type Y to accept the terms and continue installation. The installer checks if your system meets the installation requirements.

▶ If HP installer detects Performance Manager 5.x is installed on your system, it does not remove the `/opt/jakarta-tomcat-5.0.25` directory and its contents.

6   Press Enter to continue with installation. The pre-installation summary details such as the name and version of the application being installed, application directory and data directory paths will be displayed.

7   Press Enter to continue with installation. When the upgrade is successfully completed, the list components that are installed with Performance Manager 8.10 will be displayed.

To upgrade to Performance Manager through X11 interface:

1   Login as a `root` user.

2   Insert the HP Performance Manager 8.10 CD/DVD-ROM media into the CD/DVD drive. If necessary, mount the CD/DVD-ROM.

3   Export the DISPLAY variable to point to a X11 terminal.

4   Run the following command:

<CD/DVDrom_mount>/**HPOvPM_8.10.000_setup.bin**

The HP Performance Manager Installation wizard appears, click **Next**. The License Agreement screen appears.

▶   At any point in the installation process, to change something in the previous step, click **Back**. To cancel the installation, click **Quit**.

5   Read the terms of license agreement. To continue with installation, select `I accept the terms of License Agreement` option.

6   Click **Next**. The Pre-Install Summary screen appears. The screen displays the list of components that will be upgraded.

7   Click **Upgrade**.

   ▶   While installing, you might see the **Force Repair of Already Installed Component Packages** check box. You can use either of the following options:

   •   Select the Force Repair of Already Installed Component Packages check box to reinstall the selected components, as applicable.

   •   Clear the Force Repair of Already Installed Component Packages check box to prevent reinstallation of the selected HP Software components, as applicable. Clearing the checkbox does not change the currently installed software components.

   ▶   If the upgrade fails, you can roll back or quit upgrade. The **Roll Back** option uninstalls the components, which are already installed. Clicking **Quit** stops the upgrade, but does not uninstall the components installed till then. When you begin upgrading Performance Manager next time, the Installer prompts you to confirm if you want to resume the upgrade or uninstall Performance Manager.

8   Click the **Details** tab and expand the components tree to view the list of components shared among HP Performance Manager and other HP Software products.

9   To view the log file on your system, click **View Log Files.**

10   Click **Done** to complete the installation.

   ▶   If the system requires to be restarted, the message, 'You may need to restart your system for the configuration changes made to the system to take effect. Would you like to quit this installation?' appears. It is recommended that you restart your system after installation, though it is not mandatory.

Upgrading to Performance Manager 8.10 on Windows

To upgrade to Performance Manager 8.10:

1   Insert the HP Performance Manager 8.10 CD/DVD for Windows on the CD/DVD-ROM drive. The HP Performance Manager Installation Home page appears.

2   Click **Install HP Performance Manager**.

Or

On the CD/DVD-ROM drive, double-click **HPOvPM_8.10.000_setup.exe**. The HP Performance Manager Installation wizard that displays the location of the media files and log files appears.

3   Click **Next**. The License Agreement screen appears.

4   Read the terms of license agreement and select the 'I accept the terms of License Agreement' option.

5   Click **Next**. The Installer checks for the install requirements.When the install requirements check is complete, a message indicating the same appears.

6   Click **Next**. The Pre-Install Summary screen appears. This screen displays the list of components that will be installed with Performance Manager 8.10.

7   If some components are already installed, you will see the **Force Repair of Already Installed Component Packages** check box during installation. You can use either of the following options:

    —   Select the Force Repair of Already Installed Component Packages check box to reinstall the selected components, as applicable.

    —   Clear the Force Repair of Already Installed Component Packages check box to prevent the reinstallation of selected components, as applicable. Clearing the check box leaves the currently installed software unchanged.

8   Expand the components tree to view the list of components shared among HP Performance Manager and other HP products.

9   Click **Upgrade.** If the HP Software Installer detects Performance Manager 5.0 installation on your system, the Apache Tomcat Uninstall windows appears.

10   Click **Uninstall,** if you want to remove all files from the `Apache Software Foundation\jakarta-tomcat-5.0.25\` directory. The Tomcat5 service shuts down after uninstallation. A message asking you to confirm the delection of all the files in Tomcat 5.0 directory appears. The installer then installs the `HPOVTomcatB.`

▶   The uninstallation of the Apache Tomcat leaves \Programs Files\Apache Software Foundation empty, but does not remove the directory. It is recommended you manually delete the Apache Software Foundation directory.

11   Click **Yes** to continue. All the files in the Tomcat 5.0 directory will be delected. A message indicating the uninstallation of Apache Tomcat appears.

12   Click **Close**. The HP Software Installer appears.

13   Click **Done** to complete the upgrade process. The Performance Manager version 5.x will be removed from your system and the Performance Manager version 8.10 desktop icon will be created. To start Performance Manager, double-click the Performance Manager icon. The HP Performance Manager Home page appears.

► If the system requires to be restarted, the message, 'You may need to restart your system for the configuration changes made to the system to take effect. Would you like to quit this installation?' appears. It is recommended that you restart your system after installation, though it is not mandatory.

► If the upgrade fails, you can roll back or quit upgrade:
  — If you click Roll Back, all the components installed will be uninstalled.
  — If you click Quit, the installer stops the upgrade, but does not uninstall the components installed till the previous step in the upgrade process.

When you begin upgrading Performance Manager next time, the Installer prompts you to confirm if you want to resume the upgrade or uninstall Performance Manager.
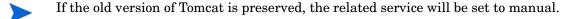
Preserving Tomcat 5.0.25

Performance Manager installs Apache Tomcat, version 5.05. To retain Tomcat 5.05, perform the following tasks:

On Windows

During upgrade, you will receive a message asking you to remove the Apache Tomcat from the `Apache Software Foundation\jakarta-tomcat-5.0.25` directory. If you select **Uninstall**, the Tomcat5 service shuts down and the files in the directory `\Apache Software Foundation` will be removed. The installer then installs the HPOVTomcatB to the `tomcat` directory.

However, the directory will not be deleted. It is recommended you manually delete the Apache Software Foundation directory.

► If the old version of Tomcat is preserved, the related service will be set to manual.

On HP-UX and Solaris

1 Install Performance Manager 8.10. When you install Performance Manager 8.10, the installer will retain the Apache Tomcat-5.0.25 installed on the system.

When the installation is complete, you will have two instances of tomcat installed:
  — `/opt/jakarta-tomcat-5.0.25`
  — `/opt/OV/nonOV/tomcat/b`

Upgrading from Performance Manager 6.x

HP Installer detects the presence of Performance Manager 6.x on your system, it will upgrade to Performance Manager 8.10.

• Upgrading to Performance Manager 8.10 on HP-UX and Solaris
• Upgrading to Performance Manager 8.10 on Windows

Upgrading to Performance Manager 8.10 on HP-UX and Solaris

1   Login as a `root` user.

2   Insert the HP Performance Manager 8.10 CD/DVD-ROM into the CD/DVD drive. If necessary, mount the CD/DVD-ROM.

3   Run the following command:

    *<CD/DVDrom_mount>***/HPOvPM_8.10.000_setup.bin -i console**

4   When the installer prompts you to continue with installation, press Enter. The prompt, 'I accept the terms of the License Agreement' for the License information appears

5   Type `Y` to accept the terms and continue installation. The installer checks if your system meets the installation requirements.

6   Press Enter to continue with installation. The pre-installation summary details such as the name and version of the application being installed, application directory and data directory paths will be displayed.

7   Press Enter to continue with installation. When the upgrade is successfully completed, the list components that are installed with Performance Manager 8.10 will be displayed.

1   Login as a `root` user.

2   Insert the HP Performance Manager 8.10 CD/DVD-ROM into the CD/DVD drive. If necessary, mount the CD/DVD-ROM.

3   Export the DISPLAY variable to point to a X11 terminal.

4   Run the following command:

    *<CD/DVDrom_mount>***/HPOvPM_8.10.000_setup.bin**

    The HP Performance Manager Installation wizard appears, click **Next**. The License Agreement screen appears.

▶   At any point in the installation process, to change something in the previous step, click **Back**. To cancel the installation, click **Quit**.

5   Read the terms of license agreement. To continue with installation, select `I accept the terms of License Agreement` option.

6   Click **Next**. The Pre-Install Summary screen appears. The screen displays the list of components that will be upgraded.

7   Click **Upgrade**.

   ▶   While installing, you might see the **Force Repair of Already Installed Component Packages** check box. You can use either of the following options:

   •   Select the Force Repair of Already Installed Component Packages check box to reinstall the selected components, as applicable.

   •   Clear the Force Repair of Already Installed Component Packages check box to prevent reinstallation of the selected HP Software components, as applicable. Clearing the checkbox does not change the currently installed software components.

> If the upgrade fails, you can roll back or quit upgrade. The **Roll Back** option uninstalls the components, which are already installed. Clicking **Quit** stops the upgrade, but does not uninstall the components installed till then. When you begin upgrading Performance Manager next time, the Installer prompts you to confirm if you want to resume the upgrade or uninstall Performance Manager.

8   Click the **Details** tab and expand the components tree to view the list of components shared among HP Performance Manager and other HP Software products.

9   To view the log file on your system, click **View Log Files.**

10 Click **Done** to complete the installation.

> If the system requires to be restarted, the message, 'You may need to restart your system for the configuration changes made to the system to take effect. Would you like to quit this installation?' appears. It is recommended that you restart your system after installation, though it is not mandatory.

Upgrading to Performance Manager 8.10 on Windows

To upgrade to Performance Manager 8.10:

1   Insert the HP Performance Manager 8.10 CD/DVD for Windows on the CD/DVD-ROM drive. The HP Performance Manager Installation Home page appears.

2   If you are installing Performance Manager on a stand-alone system, click **Install HP Performance Manager**.

Or

On the CD/DVD-ROM drive, double-click **HPOvPM_8.10.000_setup.exe**.

If you are installing Performance Manager on a cluster, type the following syntax on the command prompt:

> If you are upgrading Performance Manager on a system where HP Operations Manager is not installed, you should prepare you file system before you must prepare the file system before you upgrade. For instructions, see Preparing File System for Data Directory on a Windows Node on page 43.

    HPOvPM_8.10.00_setup.exe -Dpmdatadir=<PM_data_dir>

In this instance, <PM_data_dir> is the location on the shared cluster drive.

The HP Performance Manager Installation wizard that displays the location of the media files and log files appears.

3   Click **Next**. The License Agreement screen appears.

4   Read the terms of license agreement and select the 'I accept the terms of License Agreement' option.

5   Click **Next**. The Installer checks for the install requirements.When the install requirements check is complete, click **Next**. The Pre-Install Summary screen appears. This screen displays the list of components that will be installed with Performance Manager 8.10.

6   Click **Upgrade.**

7   Click the **Details** tab and expand the components tree to view the list of components shared among HP Performance Manager and other HP products.

8   Click **Done** to complete the upgrade process. The Performance Manager version 6.x will be removed from your system and the Performance Manager version 8.10 desktop icon will be created. To start Performance Manager, double-click the Performance Manager icon. The HP Performance Manager Home page appears.

Upgrading from Performance Manager 8.00

HP Installer detects the presence of Performance Manager 8.00 on your system, it will upgrade to Performance Manager 8.10.

- Upgrading to Performance Manager 8.10 on HP-UX and Solaris
- Upgrading to Performance Manager 8.10 on Windows

Upgrading to Performance Manager 8.10 on HP-UX and Solaris

To upgrade to Performance Manager through the command line interface:

1   Login as a `root` user.

2   Insert the HP Performance Manager 8.10 CD/DVD-ROM into the CD/DVD drive. If necessary, mount the CD/DVD-ROM.

3   Run the following command:

   <CD/DVDrom_mount>/**HPOvPM_8.10.000_setup.bin -i console**

4   When the installer prompts you to continue with installtion, press Enter. The prompt, 'I accept the terms of the License Agreement' for the License information appears.

▶   At any point in the installation process, to change something in the previous step, click **Back**. To cancel the installation, click **Quit**.

5   Type `Y` to accept the terms and continue installation. The installer checks if your system meets the installation requirements.

6   Press **Enter** to continue with installation. The pre-installation summary details such as the name and version of the application being installed, application directory and data directory paths will be displayed.

7   Press **Enter** to continue with installation. When the upgrade is successfully completed, the list components that are installed with Performance Manager 8.10 will be displayed.

To upgrade to Performance Manager through X11 interface:

1   Login as a `root` user.

2   Insert the HP Performance Manager 8.10 CD/DVD-ROM into the CD/DVD drive. If necessary, mount the CD/DVD-ROM.

3   Export the DISPLAY variable to point to a X11 terminal.

4   Run the following command:

   <CD/DVDrom_mount>/**HPOvPM_8.10.000_setup.bin**

The HP Performance Manager Installation wizard appears, click **Next**. The License Agreement screen appears.

5   Read the terms of license agreement. To continue with installation, select `I accept the terms of License Agreement` option.

6   Click **Next**. The Pre-Install Summary screen appears. The screen displays the list of components that will be upgraded.

7   Click **Upgrade**.

> While installing, you might see the **Force Repair of Already Installed Component Packages** check box. You can use either of the following options:
>
> • Select the Force Repair of Already Installed Component Packages check box to reinstall the selected components, as applicable.
>
> • Clear the Force Repair of Already Installed Component Packages check box to prevent reinstallation of the selected HP Software components, as applicable. Clearing the checkbox does not change the currently installed software components.

> If the upgrade fails, you can roll back or quit upgrade. The **Roll Back** option uninstalls the components, which are already installed. Clicking **Quit** stops the upgrade, but does not uninstall the components installed till then. When you begin upgrading Performance Manager next time, the Installer prompts you to confirm if you want to resume the upgrade or uninstall Performance Manager.

8   Click the **Details** tab and expand the components tree to view the list of components shared among HP Performance Manager and other HP Software products.

9   To view the log file on your system, click **View Log Files.**

10 Click **Done** to complete the installation.

> If the system requires to be restarted, the message, 'You may need to restart your system for the configuration changes made to the system to take effect. Would you like to quit this installation?' appears. It is recommended that you restart your system after installation, though it is not mandatory.

Upgrading to Performance Manager 8.10 on Windows

To upgrade to Performance Manager 8.10:

1   Insert the HP Performance Manager 8.10 CD/DVD for Windows on the CD/DVD-ROM drive. The HP Performance Manager Installation Home page appears.

2   Click **Install HP Performance Manager.**

Or

On the CD/DVD-ROM drive, double-click **HPOvPM_8.10.000_setup.exe**. The HP Performance Manager Installation wizard that displays the location of the media files and log files appears.

3   Click **Next**. The License Agreement screen appears.

4   Read the terms of license agreement and select the 'I accept the terms of License Agreement' option.

5 Click **Next**. The Installer checks for the install requirements.When the install requirements check is complete, click **Next**. The Pre-Install Summary screen appears. This screen displays the list of components that will be installed with Performance Manager 8.10.

6 Click **Upgrade.**

7 Click the **Details** tab and expand the components tree to view the list of components shared among HP Performance Manager and other HP products.

8 Click **Done** to complete the upgrade process. The Performance Manager version 8.00 will be removed from your system and the Performance Manager version 8.10 desktop icon will be created. To start Performance Manager, double-click the Performance Manager icon. The HP Performance Manager Home page appears.

5 Migrating from PerfView to HP Performance Manager

HP PerfView on HP-UX and Solaris is known as HP Performance Manager version C.03.xx for HP-UX and Solaris. In this document, HP Performance Manager C.03.xx, is referred to as PerfView. For a list of platforms where HP Performance Manager 8.10 is supported, see Supported Platforms on page 9.

Migration Procedures

HP Performance Manager 8.10 installable package contains a utility called `pvmigrate`. This executable allows you to migrate information such as templates, users, nodes and node-groups from PerfView to Performance Manager.

The `pvmigrate` utility is not required to start using Performance Manager. You must run the program only once to copy the configuration information from PerfView to Performance Manager.

Task 1: Install HP Performance Manager 8.10.

For instructions, see Installation Steps. PerfView and Performance Manager maybe installed on the same system or different system depending on the operating system. For a list of platforms where HP Performance Manager 8.10 is supported, see Supported Platforms on page 9.

If Performance Manager and PerfView are installed on the same system, go to Task 3. However if you want to migrate only the custom templates, then you need to perform Task 2 and then go to Option 3: Migrate individual user's custom drill-down templates under Task 3.

Task 2: Consolidate and copy all the configuration information from PerfView

1 Run the following syntax at the command prompt:

   `pvsysdb -ll > pvsysdb_ll.txt`

   The file `pvsysdb_ll.txt` contains information about all the nodes and node-groups from PerfView.

2 Run the following syntax at the command prompt:

   `pvtemputil -f > pvtemputil.txt`

   The file `pvtemputil.txt` contains information about the custom and pre-defined graph templates from PerfView.

3 Copy the following files to the system where Performance Manager is installed. You need to copy the files to the directory: *<Install_Dir>*/bin:

   — `pvsysdb_ll.txt`

   — `pvtemputil.txt`

   — *<PV_Install_Dir>*\rpmtools\data\drill_*.txt (In this instance, *<PV_Install_Dir>* is the directory where PerfView is installed)

Task 3:   Run the PVmigrate utility

Select from the following options:

- If you want to migrate nodes, node-groups, custom graphs, pre-defined graph templates and pre-defined drill down templates, select Option 1: Migrate nodes, node-groups, custom graphs and pre-defined templates.

- If you do not want to migrate the drill-down templates from PerfView, select Option 2: Migrate nodes, node-groups, custom graphs and pre-defined templates.

- If you want to migrate only custom graphs, select Option 3: Migrate individual user's custom drill-down templates.

Option 1: Migrate nodes, node-groups, custom graphs and pre-defined templates

1   Login as a root user or super user (or as a user with the permissions to write to the location *<Data_Dir>* directory) to the system where Performance Manager is installed.

2   Execute the following syntax at the command prompt:

cd <*Install_Dir*>/bin

pvmigrate all

All the files will be converted to the format which can be interpreted by Performance Manager and saved to the directory *<Data_Dir>*/shared/server/conf/perf. When running Performance Manager, these graphs will be listed under the category **PerfView** when logged in using the blank logon name.

Option 2: Migrate nodes, node-groups, custom graphs and pre-defined templates

1   Login as a root user or super user (or as a user with the permissions to write to the location *<Data_Dir>*/conf/perf directory) to the system where Performance Manager is installed.

2   Execute the following syntax at the command prompt:

cd <*Install_Dir*>/bin

pvmigrate

All the files will be converted to the format which can be interpreted by Performance Manager and saved to the directory *<Data_Dir>*/shared/server/conf/perf. When running Performance Manager, these graphs will be listed under the category **PerfView** when logged in using the blank logon name.

Option 3: Migrate individual user's custom drill-down templates

Use this option if you want to migrate only the custom templates:

1   Login as the user.

2   Execute the following command:

cd <*Install_Dir*>/bin

pvmigrate local

All the files will be converted to the format which can be interpreted by Performance Manager and saved to the directory *<Data_Dir>*/shared/server/conf/perf. When running Performance Manager, these graphs will be listed under the category **PerfView_user**.

3   Repeat this step for any additional users with customized drill-down templates. When running Performance Manager, these drill-down templates will be under the `PerfView_user` graphs. You need to logon as a blank user to view the graphs.

Post Migration

Listed below are a few changes which you will notice after you migrate from PerfView to HP Performance Manager.

Table 0.1

Components	Post migration
User Interface	Performance Manager can be accessed through a web browser.
Lists of nodes and node groups	The list of systems and groups configured in PerfView will be listed in a file `pmsystems.txt`. This file will be available in the location *<Data_Dir>*`/shared/server/conf/perf`
Batch Execution	Both PerfView and Performance Manager allow execution from batch scripts. See PerfView Batch Commands for a list and comparison with Performance Manager.

Template Changes Post Migration

Listed below are some changes in the templates after you migrate to Performance Manager:

- The Sort and Filter information from the drill-down templates will not be preserved after migration. However Performance Manager provides options to filter and highlight tables. For more information, refer to the *HP Performance Manager Tutorials*.

- In some versions of PerfView, the metric label included the data source, class, instance, and metric names, for example, "`SCOPE:GLOBAL:GLOBAL:GBL_CPU_TOTAL_UTIL`". In newer versions of PerfView the metric labels included only the system name and metric name, For example: "`MySystem:GBL_CPU_TOTAL_UTIL`", or the instance name, For example: "`MySystem:Desktop:APP_CPU_TOTAL_UTIL`". Performance Manager supports user-defined metric labels. After migration, the metric names will be changed to match the drill-down labels in PerfView and the system name will be included in the graph titles.

- Metrics per graph in PerfView is 8. The value for metrics per graph is configurable in Performance Manager 8.10.

- Performance Manager allows you to draw graph for more than one system at a time by selecting multiple systems. This feature is not available in PerfView.

- For multi-instance graphs (such as Application, Transaction), PerfView prompts you to select for which you want to draw a graph. In Performance Manager, by default all instances will be selected. However, you can disable the instance prompting option from the user interface. For information about Instance Prompting, refer to the *Online Help* from the user interface.

- In PerfView, the graph definition is associated with the node for which the graph is designed. For example: "Global History" graph will be different for HP-UX and Windows nodes. After migration the graph names will include the system name to indicate this difference.

  Example:

  — "History" is the graph for HP-UX and most systems

  — "NT History" is for NT systems

  — "Windows History" is for Windows 3.1 and Windows 9x

  — "MPE History" for HP3000 systems running the MPE operating system.

  When drawing a graph, you need to select the one that most closely matches the system which you selected.

To use drill-down tables designed using PerfView, select a system, date range and the drill-down table from the graph list. If you want to closely match the graph data to PerfView, you must specify the value of Points Every as unsummarized. If you specify the value for "Points Every" anything other than "unsummarized", the summarized data will be displayed for a longer time interval.

If you have multi-instance metrics specified in your graph template, after migration you must make sure you add the parameter "@@" in the graph label to retain the instance identification. You can add this either by editing the graph templates or from the user interface.

PerfView Batch Commands

The following table list a comparison between keywords in PerfView and keywords in Performance Manager. For more information about running graphs in batch and keywords, see the *HP Performance Manager Administrator Guide*:

Table 1   **PerfView Batch Commands**

PerfView Command		ovpmbatch keyword
b[egindate] *<date_specifier>*	Specify begin date	**STARTTIME**
dest *<destination-string>*	Specify printing destination, either file or printer	**outputdir**=*<directory>*
ds *<datasource_name>*	Specify input data source (required)	**DATASOURCE**=PA or EPC **CLASS=***<class_name>*
e[nddate] *<date_specifier>*	Specify end date	**STOPTIME**=*YYYY,MM,DD HH:MM:SS.*
format ["ascii", "wks", "graph"]	Specify output format	**GRAPHTYPE**= Line, area, bar, hbar, mixed, pie,table, htable, gauge, xml, csv, tsv
graph <graph name>	Draw a graph	(one graph per execution)
gn <graph_name>	Specify graph name	**GRAPH**=*<graph_name>*
gt ["line", "pie", "stacked"]	Specify graph type	**GRAPHTYPE**= Line, area, bar, hbar, mixed, pie,table, htable, gauge, xml, csv, tsv
h[elp]	Print command line syntax	**?**
met[ric] *<metric_name>*	Specify a metric	**METRIC**=*<metric_name>* **DATASOURCE**=PA/EPC **SYSTEMNAME**=*<system_name>* **CLASS**=*<class_name>*
range *<date_range>*	Set the range of dates to graph	**DATERANGE**=< *Minutes, Hours, Days, Weeks>* **ENDING**=*<now> <last> <date/time>*
sum *<summarization_level>*	Select a summarization level	**POINTSEVERY**=*<duration>* **NUMBEROFPOINTS**=*<number>*
ymax *<max_value>*	Specify y-max value	**MINY=***<real number>* **MAXY=***<real number>* **MINYR=***<real number>* **MAXYR=***<real number>*

6 Installing Performance Manager on a Cluster Environment

You can install Performance Manager on Windows, HP-UX or Solaris cluster environments by following the procedures described in the following sections. The HP Performance Manager installation wizard does not detect a cluster environment:

If you are using HP Performance Manager with HP Operations Manager (HPOM) for Windows or UNIX, then HPOM has to be installed and configured before installing Performance Manager.

Cluster Terminologies

Resource Group

In cluster environments such as VERITAS Cluster, Sun Cluster or MC/ServiceGuard, applications are represented as compounds of resources. The resources constitute a Resource Group, which represents an application running in a cluster environment.

The terminologies for a resource group are different in various cluster environment, see Table 2 for a list of terms on different cluster environment. Instead of cluster specific terms, High Availability (HA) Resource Group is used in this document as a generic term for a resource group in a cluster environment. Performance Manager is cluster-aware and requires a dedicated resource group.

Table 2   Resource Group in cluster environments

Cluster Environment	Abbreviation	HA Resource Group Represented As...
MC ServiceGuard	MC/SG	Package
VERITAS Cluster Server	VCS	Service Group
Sun Cluster	SC	Resource Group
Microsoft Server Cluster	MSCS	Resource Group

➤
- If HPOM is installed on the cluster system, Performance Manager has to be configured on the same resource group.

- If Performance Manager and Reporter are installed on your system, then the you can either configure the same resource group or configure different resource groups for both Performance Manager and Reporter.

System Requirements

Before installing Performance Manager, make sure that the Installation Requirements on page 9 are met on each node of the cluster.

Requirements to Install Performance Manager on a Cluster

To setup Performance Manager on a cluster, make sure the following resources are available:

- Minimum two node server cluster
- Shared disk to store the PM configuration files
- At least one dedicated static IP address resolving to the cluster's virtual server name

Read before Installation

If you do not have HP Operations Manager installed on the system, before installing Performance Manager on a cluster you need to prepare your file system for data directory. For instructions, refer to the procedures described in the following sections:

- Preparing File System for Data Directory on a Windows Node on page 43.
- Preparing File System for Data Directory on a HP-UX and a Solaris Node on page 45

If you have HP Operations Manager installed on a cluster, you need not prepare the file system and you can proceed with the installation. For instructions, refer to the procedures described in the following sections:

- Installing Performance Manager on a Windows Cluster on page 42
- Installing Performance Manager on a HP-UX or a Solaris Cluster on page 45

▶ Do not start the installation on multiple nodes on the same cluster simultaneously. You must install Performance Manager on the one node first, after you complete the installation on one node, you can start the installation on the next node.

Installing Performance Manager on a Windows Cluster

To run Performance Manager on a cluster, Performance Manager must be installed on all the nodes of the cluster. To install Performance Manager 8.10 on a cluster system, perform the following tasks:

If you are installing Performance Manager on a node where HPOM is installed,

1 For instructions to install, see Installing Performance Manager on Windows on page 16. Do not make any configuration changes.

2 Go to step 10.

If you are installing Performance Manager on a node where HPOM is not installed,

You need to prepare the file system. For instructions, see Preparing File System for Data Directory on a Windows Node on page 43. After you prepare the file system, you can proceed with the installation. For installation instructions, see Installation Steps After Preparation Of File System on Windows.

Preparing File System for Data Directory on a Windows Node

1 Identify the location on the cluster's shared drive where you want the <PM_data_dir>.

2 Create the directory structure. For example: If you want `R:\HP` as you data directory, then create the complete directory structure on the shared cluster drive, `R:\HP\<data _dir>`.

Installation Steps After Preparation Of File System on Windows

After you prepare the file system for data directory, to install Performance Manager, perform the following tasks:

1 Type the following syntax on the command prompt:

`HPOvPM_8.10.00_setup.exe -Dpmdatadir=<PM_data_dir>`

The HP Performance Manager Installation wizard appears.

> ▶ If you are installing Performance Manager for the first-time on your Windows system, the `ovinstallparams.ini` file containing installation parameters, is created in the system's `temporary` directory. During installation, the HP Software Installer checks for the `ovinstallparams.ini` file. If the installer detects the `ovinstallparams.ini file` on your system, a message asking if you want to reuse the values in the file appears.
>
>   • Click **Yes** to use the values in the configuration file as default values.
>
>   • Click **No** to overwrite the existing configuration file.
>
>   If the Installer does not find the file, the installer creates the `ovinstallparams.ini` file with default values in the `temporary` directory. To save the `ovinstallparams.ini` data, copy the file to an alternate location before installing other HP Software products.

2 If you have configured the locale of the system to a language other than English, the installer prompts you to select the language at the beginning of the installation. You will have the option of choosing between English and the language to which your system locale is set. In an English locale, only 'English' option appears.

3 On the Installation wizard, click **Next**. The License Agreement screen appears.

4   Read the terms of license agreement and select the 'I accept the terms of License Agreement' option.

> If you have other HP Software products installed on your system, the installation wizard displays the application folder path and data folder path of those products as the default directories for your Performance Manager installation. If no other HP products are installed and you are installing Performance Manager for the first time, specify the folder paths for the following directories:

   a   The application folder path or directory, where you want to store the program files. The default application directory is `C:\Program Files\HP\HP BTO Software`.

   b   The data folder path or directory, where you want to store data files such as log files. On Windows 2003, the default data directory is `C:\Documents and Settings\All Users\Application Data\HP\HP BTO Software`. On Windows 2008, the default data directory is `C:\ProgramData\HP\HP BTO Software`.

5   Click **Next**. The Pre-Install Summary screen appears. This screen displays the list of components that will be installed.

6   Click **Install**.

> If some components are already installed, you will see the **Force Repair of Already Installed Component Packages** check box during installation. You can use either of the following options:

   • Select the Force Repair of Already Installed Component Packages check box to reinstall the selected components, as applicable.

   • Clear the Force Repair of Already Installed Component Packages check box to prevent the reinstallation of selected components, as applicable. Clearing the check box leaves the currently installed software unchanged.

> If the installation fails, you can roll back or quit installation. The **Roll Back** option uninstalls the components, which are already installed. Clicking **Quit** stops the installation, but does not uninstall the components installed till then. When you begin installing Performance Manager next time, the Installer prompts you to confirm if you want to resume the installation or uninstall Performance Manager.

7   Click the **Details** tab and expand the components tree to view the list of components shared among Performance Manager and other HP products.

8   To view the log file on your system, click **View Log Files.**

9   Click **Done** to complete the installation. The Performance Manager icon will be created on your Desktop. To start Performance Manager, double-click the Performance Manager icon. The HP Performance Manager Home page appears.

> If the system requires to be restarted, the message, 'You may need to restart your system for the configuration changes made to the system to take effect. Would you like to quit this installation?' appears. It is recommended that you restart your system after installation, though it is not mandatory.

10   To verify the installation, see Installation Results on page 20.

11   Make sure that the Performance Manager home page is accessible through a browser. You need to specify the name or IP address of the node in the url.

Example: **http://xyz.abc.hp.com:8081/OVPM**

12 Stop Performance Manager, by typing the following syntax at the command prompt:

ovc -stop ovtomcatB

13 Move the resource group which contains the shared drive to the next node.

14 Verify if the shared drive is accessible from this node of the cluster.

15 Repeat step 1 to step 12 on all nodes of the cluster.

16 After you install Performance Manager, start Performance Manager on all the nodes by typing the following syntax at the command prompt:

ovc -start ovtomcatB

17 After installing Performance Manager on all the nodes, make sure that the Performance Manager home page is accessible through a browser. You need to specify the virtual name or virtual IP address of the cluster in the url:

Syntax:

http://<clustername>:8081/OVPM

http://<clusterIPaddress>:8081/OVPM

If you are using the Performance Manager icon on the desktop to open Performance Manager, you need to modify the shortcut to point to the cluster name or IP address. By default the shortcut will point to the name or IP address of the physical node.

▶ If you are configuring Performance Manager, make sure the configuration changes are consistent across all the nodes of the cluster. For information, see *HP Performance Manager Administrator Guide*.

Preparing File System for Data Directory on a HP-UX and a Solaris Node

To prepare the file system for the data directory, follow these steps:

1 Create the directories *<OVDataDir>*/shared/server. The default data directory (*OVDataDir*) is: /var/opt/OV/conf/perf. You cannot specify an alternate directory.

2 Prepare mount points for the shared drive:

— /var/opt/OV/shared/server

Make sure that the mount has 'write' permissions for a root user. After you mount the file system, you can proceed with the installation.

Installing Performance Manager on a HP-UX or a Solaris Cluster

To run Performance Manager on a cluster, Performance Manager must be installed on all nodes of a cluster. To install Performance Manager 8.10 on a cluster system, perform the following tasks:

1 If you are installing Performance Manager on a node where HPOM is installed, go to step 2. If you are installing Performance Manager on a node where HPOM is not installed, you need to prepare the file system for data directory. For instructions on preparing a file system, refer to the section Preparing File System for Data Directory on a HP-UX and a Solaris Node on page 45.

2 Install Performance Manager 8.10 on this node. For installation instructions, see Installing HP Performance Manager on HP-UX and Sun Solaris on page 18. Do not make any configuration changes.

3 To verify the installation on all the nodes, see Installation Results on page 20.

4 Make sure that the Performance Manager 8 home page is accessible through a browser. You need to specify the name or IP address of the primary node of the cluster in the url.

   Example: **http://xyz.abc.hp.com:8081/OVPM**

5 Stop Performance Manager 8.10, by typing the following syntax at the command prompt:

   ovc -stop ovtomcatB

6 Move the resource group which contains the shared disk to the next node.

7 Verify if the shared drive is accessible from this node of the cluster.

8 Repeat step 1 to step 5 on all nodes of the cluster.

9 After you install Performance Manager on all the nodes, start Performance Manager on all the nodes by typing the following syntax at the command prompt:

   ovc -start ovtomcatB

10 After installing Performance Manager on all the nodes, make sure that the Performance Manager home page is accessible through a browser. You need to specify the virtual name or virtual IP address of the cluster in the url:

   http://<clustername>:8081/OVPM

   http://<clusterIPaddress>:8081/OVPM

▶ If you are configuring Performance Manager, make sure the configuration changes are consistent across all the nodes of the cluster. For information, see *HP Performance Manager Administrator Guide*.

Upgrading to Performance Manager 8.10 Installed on a Cluster

Upgrading from Performance Manager 6.x

If HPOM 8.10 is installed on your system, you need not prepare the file system for data directory. For instructions to upgrade Performance Manager, see Upgrading from Performance Manager 6.x on page 28.

If HPOM 8.10 is not installed on your system, you need to prepare your file system. For instructions, refer to the following sections:

1 Preparing File System for Data Directory on a Windows Node on page 43 or

2 Preparing File System for Data Directory on a HP-UX and a Solaris Node on page 45

After you prepare your file system, you can proceed with the upgrade on all the nodes, one node at a time. For instruction, refer to the procedures described in the section: Upgrading from Performance Manager 6.x on page 28.

Upgrading from Performance Manager 8.0

You can upgrade Performance Manager 8.0 installed on all the nodes, one node at a time. For instruction, refer to the procedures described in the section: Upgrading from Performance Manager 8.00 on page 31.

Removing HP Performance Manager

For instructions to uninstall Performance Manager, see Removing HP Performance Manager on page 21. While uninstalling Performance Manager from the last node of the cluster, make sure that the shared drive is active on the last node.

7 Related Documentation

Information on Performance Manager is available from several sources. The context-sensitive help system is the primary source of information on how to use Performance Manager. When you install Performance Manager on your system, the Installation Guide and Release Notes will also be installed.

Document	Location	Purpose
Context-Sensitive Online Help	• Available on Performance Manager Help drop-down menu • Context-sensitive help pages are available for the respective screens and can be viewed by clicking the Help buttons on screens and dialog boxes.	To guide the user to perform the following tasks: • Drawing various types of graphs using out-of-the-box templates • Designing instance comparison, system comparison and multi-source graphs • Editing an existing graph definition and saving it as a user-defined graph • Drilling down to view data at the required granularity • Adding graphs to the Favorites list • Deleting Graphs
Tutorials	Performance Manager Help drop-down menu	To provide step-by-step instructions on configuring and performing various tasks in Performance Manager.
Administration Guide		To provide information on configuring data sources, secure communication, using batch parameters, managing customers, users, logons, nodes and so on.
Release Notes		To provide information on Performance Manager 8.10 release.

A Components and Patches

The components and patches available with installation package of various versions of Performance Manager are listed in the following table:

Product Version / Patches	Components/ Component Dependencies/ Patches
6.0	- HPOvBbc-05.20.050 - HPOvCtrl-01.50.230 - HPOvJxpl-02.61.020 - HPOvJPacc-10.00.132 - HPOvJbbc-05.20.050 - HPOvJdkA-01.04.220 - HPOvJsec-02.20.040 - HPOvXpl-02.61.020 - HPOvPacc-10.00.131 - HPOvSecCo-02.20.040 - HPOvTomcatA-05.00.285 - HPOvLic-04.32.000 - HPOvLicJ-01.04.00
6.01.000 and 6.00.040 (Patch)	- HPOvBbc-06.00.051 - HPOvCtrl-01.50.230 - HPOvJxpl-02.61.082 - HPOvJPacc-10.00.180 - HPOvJbbc-06.00.051 - HPOvJdkA-01.04.220 - HPOvJsec-02.20.040 - HPOvXpl-02.61.082 - HPOvPacc-10.00.180 - HPOvSecCo-02.20.040 - HPOvTomcatA-05.00.285 - HPOvLic-04.32.000 - HPOvLicJ-01.04.00 - HPOvLcja-02.10.000 - HPOvLcko-02.10.000 - HPOvLczS-02.10.000

Product Version / Patches	Components/ Component Dependencies/ Patches
06.01.060 (Patch)	• HPOvBbc-06.00.060 • HPOvCtrl-01.50.230 • HPOvJxpl-02.61.120 • HPOvJPacc-10.00.251 • HPOvJbbc-06.00.060 • HPOvJdkA-01.04.230 • HPOvJsec-02.20.100 • HPOvXpl-02.61.120 • HPOvPacc-10.00.251 • HPOvSecCo-02.20.100 • HPOvTomcatA-05.00.290 • HPOvLic-04.32.000 • HPOvLicJ-01.04.00 • HPOvLcja-02.10.000 • HPOvLcko-02.10.000 • HPOvLczS-02.10.000
8.00.000	• HPOvXpl (Windows)-06.00.076 • HPOvJxpl-06.00.076 • HPOvBbc-06.10.060 • HPOvJbbc-06.10.060 • HPOvJPacc-10.50.050 • HPOvJsec-6.00.050 • HPOvSecCo-6.00.050 • HPOvTomcatB-05.05.230 • HPOvJREB-1.05.005 • HPOvJdkB-1.05.005 • HPOvSecCC-06.00.050 • HPOvLic-05.50.052 (Windows) • HPOvLic-05.51.053 (Solaris) • HPOvLic-05.51.061 (HP-UX)