

HP GlancePlus

For the Linux Operating System

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Installation Guide

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1 Installing, Upgrading and Running HP GlancePlus

HP GlancePlus is a powerful online real-time system performance monitoring and diagnostic tool that displays data directly to a user terminal or a workstation.

The components are:

- `xglance`: A Motif® interface
- `glance`: A character mode interface
- `perfd`: A remote monitoring capability using remote CLIs **`cpsh`**, **`padv`** and **`mpadv`**

GlancePlus is now supported on VMware ESX Server. For more information, see [GlancePlus in a Virtualized Environment](#) on page 23.



Before using HP GlancePlus you must review and accept the license terms and conditions detailed in the readme file available in `/<directory>/<os>/README`, where `<directory>` is your optical media directory.

HP GlancePlus Components

`xglance`

Use `xglance`, the Motif interface, to:

- View performance through a graphical user interface with multiple window capability
- Use powerful help subsystems including graphics, hyperlinks, and On Window and On Item capabilities
- Alerts you to potential problems with alarm capabilities
- Monitor your system while you are doing other work

glance

Use `glance`, the character mode interface, to:

- Monitor performance over slow data communications links
- Monitor the system remotely
- Monitor the system when an X-display is not available
- Alert you to potential problems with alarm capabilities

perfd

Connect to the `perfd` system metric server to:

- Monitor real time system performance data remotely for one or more systems with CLI clients
- Configure alerts on potential problems in a single remote node or multiple remote nodes, with alarm capabilities
- Share data collection between multiple clients.

System Requirements

Before installing GlancePlus, be sure that your system meets these system requirements. These requirements apply to both `xglance` and `glance`, unless otherwise noted.

Hardware

- System with Intel Pentium equivalent architecture (x86)
- System with AMD64 and EM64T architecture (x86_64)
- System with Itanium architecture (IA64)

Supported Architecture and Operating Systems

The following table lists the supported architecture and operating system versions.

Architecture	Operating System
On 32-bit systems (x86)	<ul style="list-style-type: none">• RedHat Enterprise Linux (ES/AS/WS) 4, and 5• SuSE Enterprise Server 9.x and 10.x
On 64-bit systems (x86_64)	<ul style="list-style-type: none">• RedHat Enterprise Linux (ES/AS/WS) 4, and 5• SuSE Enterprise Server 9.x and 10.x
On Itanium systems (IA64)	<ul style="list-style-type: none">• RedHat Enterprise Linux (ES/AS/WS) 4 (Update 4)• RedHat Enterprise Linux (ES/AS/WS) 5• SuSE Enterprise Server 10.x

Software

- HP GlancePlus is supported on RHEL5.x on x86 and x86_64 with SELinux enabled.
- On RHEL5 and above, and SLES10 and above, HP GlancePlus runs in 64bit mode.
- On 64-bit systems (except RHEL5 and SLES 10.x on x86_64 & IA64), you need to have 32-bit versions of the Motif and other dependent libraries, to have GlancePlus installed and working. By default 64-bit systems get the 64-bit versions of the Motif and other dependent libraries.
- Glance installation is supported only for vMA4.0 and above versions. The installation procedure aborts if the vMA version is less than 4.0.

Requirements - Linux Packages

To install GlancePlus successfully, the following non-HP Software runtime libraries are required:

C++ runtime needed by multiple HP GlancePlus binaries.

- For systems with kernel version 2.6:
 - /usr/lib/libstdc++.so.5
- For systems with kernel version 2.6 on IA64:
 - /usr/lib/libstdc++.so.6
- X/Motif runtime library needed by xglance:
 - /usr/X11R6/lib/libXm.so.3
 - /usr/X11R6/lib/libX11.so.6
 - /usr/X11R6/lib/libXext.so.6
 - /usr/X11R6/lib/libXp.so.6
 - /usr/X11R6/lib/libXt.so.6
 - /usr/X11R6/lib/libXmu.so.6
 - /usr/X11R6/lib/libSM.so.6
 - /usr/X11R6/lib/libICE.so.6
- Curses runtime library needed by glance:

- /usr/lib/libncurses.so.5
- Required RPMs on Linux x86_64 (both RHEL5 and SLES10):
 - openmotif-2.2.3-6.x86_64.rpm
 - openmotif-2.2.3-6.i386.rpm
 - libXp-1.0.0-2.2 (only for RHEL5)
- Required RPMs on Linux IA64:
 - xorg-x11-libs-6.9.0-50.14 (only for SLES10)
 - openmotif-libs-2.2.4-21.2 (only for SLES10)
 - libXp-1.0.0-8 (only for RHEL5)
 - openmotif22-2.2.3-18 (only for RHEL5)
- For RHEL4 U4 and above on IA64, perform the following steps:
 - 1 Install complete "Extra CD" supplied with OS. This provides Emulation Layer required for Performance Agent.
 - 2 Install complete "Portability Layer CD" supplied with OS.

To verify if the libraries are installed on your system, run the following commands:

- **rpm --query --whatprovides <library-name>**

These libraries can exist in one or more RPM packages available with the operating system media or can be downloaded from the Internet.

Disk Space

The GlancePlus product uses approximately 38 MB in the /opt/perf directory for first-time installation.

HP GlancePlus required 5MB (for log files) in the /var/opt/perf/ directory and 5MB in /tmp file for installation logs.

Terminals

- xglance: X-terminal or X-workstation display.

- glance: Any terminal supported by the curses library.

Runtime Memory

- xglance: Approximately 20 MB of virtual memory.
- glance: Approximately 10 MB of virtual memory.
- perfd: approximately 10 MB of virtual memory.

On vMA systems:

- glance: Approximately 40 MB of virtual memory.
- perfd: approximately 35 MB of virtual memory.
- scopeux: Approximately 100 MB of virtual memory.
- viserver: approximately 1 GB of virtual memory.



In order to run GlancePlus with HP Performance Agent, you must upgrade both products to the same release version.

GlancePlus and perfd Licenses

To enable a client to use perfd CLI clients such as **cpsh**, **padv**, and **mpadv**, the target node must have a perfd licence. The perfd license is included with the GlancePlus license. The GlancePlus license (gkey) and perfd license (pkey) are installed in the `/var/opt/perf` directory.

On trial versions of GlancePlus, the trial period for the GlancePlus license starts the first time GlancePlus is used. However, the trial period for the perfd license starts at the instance when the first connect request is made by a client node.

Installation or Upgrading Procedures

GlancePlus is on DVD-ROM installation media. The size of the product is approximately 40 MB, including the product documentation.

If you have previously installed GlancePlus or the HP Performance Agent on the system, stop performance tool processes that may be running. For instructions, see [Stopping Active Performance Tool Processes](#) on page 14. For installation instructions, see [Installing GlancePlus](#) on page 15.

For installing GlancePlus in a virtualized environment, see [Installing GlancePlus in a Virtualized Environment](#) on page 24.

Stopping Active Performance Tool Processes

- 1 Log in as **root**.
- 2 Run **perfstat** to check for active performance tools by typing:
/opt/perf/bin/perfstat
- 3 If **perfstat** reports any active **glance** or **xglance** processes, stop the processes.
- 4 If a previously installed version of Performance Agent is running, stop it by typing:
/opt/perf/bin/ovpa stop



Customized configuration files such as the **parm**, **alarmdef**, **ttd.conf** and **datasources** as well as any customized log files will not be overwritten by the new installation.

- 5 Make sure the **perfd** daemon is not active by typing:
ps -ef | grep perfd
If the **perfd** is still active, type:
/opt/perf/bin/pctl stop
- 6 Make sure the **midaemon** (measurement interface daemon) is not active by typing:
ps -ef | grep midaemon

If the `midaemon` is still active, type:

```
/opt/perf/bin/midaemon -T
```

- 7 Make sure the `ttdd` (transaction daemon) is not active by typing:

```
ps -ef | grep ttdd
```

If the `ttdd` is still active, type:

```
/opt/perf/bin/ttdd -k
```



If you stop `ttdd`, any ARM-instrumented applications that are running must also be stopped before you restart `ttdd` and GlancePlus processes.

- 8 Run **`perfstat`** again to ensure that no performance tools or processes are active. When all tools or processes have been stopped and your customized configuration files are backed up, proceed with the installation.

Installing GlancePlus

- 1 Make sure you are logged in as **`root`**.

- 2 Insert your installation DVD-ROM into the drive.

Typically, Linux systems are configured to automatically mount the DVD-ROM. If your system is not configured to automount the DVD-ROM, then you must manually mount it. Enter:

```
mount -t <type> <device> <dir>
```

In this instance:

`<type>` is the file system type

`<device>` is the DVD-ROM device

`<dir>` is where the DVD-ROM directory will be mounted.

For example:

```
mount -t iso9660 /dev/dvdrom /mnt/dvdrom
```

- 3 Open a terminal window. In the terminal window, change to the DVD-ROM directory by typing:

```
cd /<directory>
```

where `<directory>` is your DVD-ROM directory.

4 Type **ls** to verify that you are in the correct directory. You will see the README file, glance.install scripts, and paperdocs, packages, and ReleaseNotes subdirectories.

5 Run the installation script by typing:

```
./glance.install
```

GlancePlus installation is now complete.

6 To start the `perfd` daemon, type:

```
/opt/perf/bin/pctl start
```



For more information and specific details about the latest version of GlancePlus, see *Release Notes* available in the HP Software Product Manuals doc server web site <http://h20230.www2.hp.com/selfsolve/manuals>.

Installation Script Options

The `glance.install` script includes command line options for more advanced installations. The syntax of the command is:

```
glance.install [-n] [-f] [-v]
```

The command line options have the following meaning:

<code>-n</code>	Use to avoid starting <code>perfd</code> with the installation
<code>-f</code>	Use to force installation (triggers <code>rpm --force --nodeps</code>)
<code>-v</code>	Use for Verbose installation
<code>-x withxglance</code>	Use to install glance with xglance
<code>-x noxglance</code>	Use to install glance without xglance

By default, on vMA4.0, xglance is not installed.

To override the above default, `glance.install` script provides two options to install Glance.

- 1 `[-x withxglance]` - Installs the glance product with xglance
- 2 `[-x noxglance]` - Installs the glance product without xglance

If you want to install xglance, run the following script.

```
-x withxglance
```

But, to install xglance, you must first install all the dependant X11 packages. Both the options mentioned above are available for both vMA and non-vMA installation.

Following is a list of RPMs necessary for Glance installation.

- fontconfig-2.4.1-6.el5.x86_64.rpm
- freetype-2.2.1-16.el5.x86_64.rpm
- libICE-1.0.1-2.1.x86_64.rpm
- libSM-1.0.1-3.1.x86_64.rpm
- libX11-1.0.3-8.el5.x86_64.rpm
- libXau-1.0.1-3.1.x86_64.rpm
- libXdmcp-1.0.1-2.1.x86_64.rpm
- libXext-1.0.1-2.1.x86_64.rpm
- libXft-2.1.10-1.1.x86_64.rpm
- libXmu-1.0.2-5.x86_64.rpm
- libXp-1.0.0-8.x86_64.rpm
- libXrender-0.9.1-3.1.x86_64.rpm
- libXt-1.0.2-3.1.fc6.x86_64.rpm
- libXtst-1.0.1-3.1.x86_64.rpm
- libjpeg-6b-37.x86_64.rpm
- libpng-1.2.10-7.x86_64.rpm
- openmotif-2.3.0-0.3.el5.x86_64.rpm
- openmotif22-2.2.3-18.x86_64.rpm
- xorg-x11-filesystem-7.1-2.fc6.noarch.rpm



If both the script options are used, for example:

```
glance.install -x withxglance -x noxglance
```

a message requesting the user to specify any one of the options is displayed.

Running GlancePlus

To run GlancePlus, you must be logged into the system where it was installed.

- To start GlancePlus in the character mode interface, type:
glance
- To run the GlancePlus Motif interface, export the display to your workstation using one of the following commands:

Korn shell: **export DISPLAY=<workstationid>:0.0**

C-shell: **setenv DISPLAY <workstationid>:0.0**

Bourne **DISPLAY=<workstationid>:0.0**

shell: **export DISPLAY**

In these instances, *<workstationid>* is the name of the workstation where you want to display GlancePlus. Run `xglance` by typing:

xglance

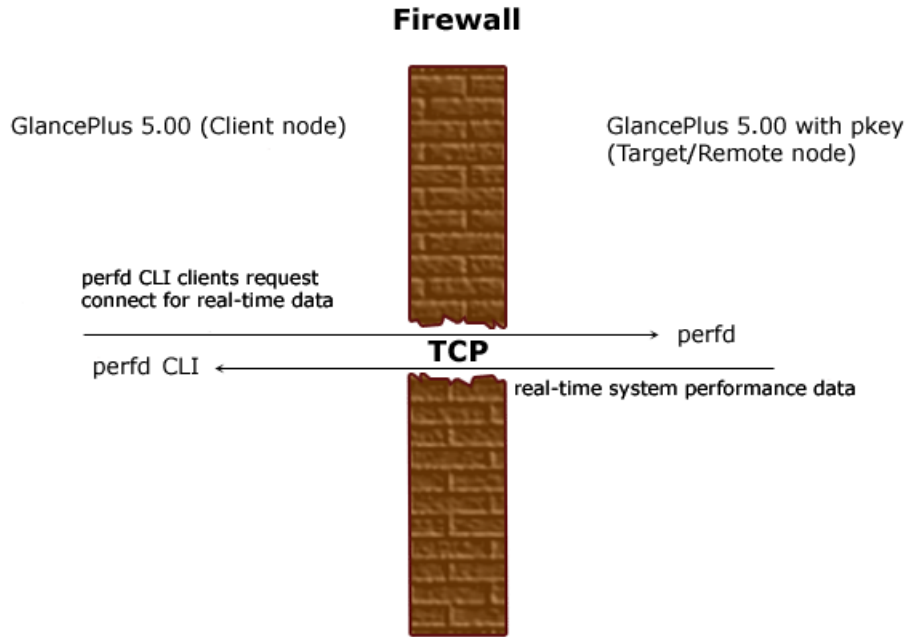
- The `perfd` daemon runs by default when GlancePlus is installed. To remotely monitor system performance data using `perfd` CLIs, run the following commands from the client node:

cpsh, padv, mpadv

See man pages for more information.

Data Communication Across a Firewall

A firewall is a method for securing the flow of data between networks. GlancePlus supports TCP/IP based communications interface for data access between clients and remote nodes using `perfd`.



perfd Configuration

You can configure `perfd` through either of the two modes described in the sections [Modify the `perfd.ini` File](#) on page 21 and [Configure `perfd` Using CLI Parameters](#) on page 22.

perfd.ini File

The default configuration parameters for `perfd` are present in `perfd.ini` file under the `/var/opt/perf` directory. You can update the values for these parameters to suit your requirement. The values you specify in this file are persistent and override the default values. The following table lists the configurable parameters present in this file:

Parameter	Value/Description
<code>interval</code>	Data collection interval in seconds
<code>port</code>	Port number
<code>depth</code>	Number of intervals for which global metric values are kept
<code>maxrps</code>	Maximum number of requests per second
<code>maxtpc</code>	Maximum number of threads per client
<code>maxinvals</code>	Maximum number of invalid requests before disconnect
<code>lightweight</code>	true false If true, <code>perfd</code> does not collect data for processes, application, NFS operations, logical systems or ARM
<code>localonly</code>	true false If true, disallows remote connections

Modify the perfd.ini File

You can modify the `perfd.ini` file using any word processor or editor that can save a file in ASCII format. See the `perfd.ini` file for default values. The configured values are initialized after reboot. To modify the `perfd.ini` file, perform the following steps:

- 1 If `perfd` running, type the following command to stop `perfd`:

```
/opt/perf/bin/pctl stop
```

- 2 Modify the `perfd.ini` file by entering the values for the parameters. For example, to set port number type:

```
port=<port>
```

- 3 To start `perfd` by typing the following:

```
/opt/perf/bin/pctl start
```

Configure perfd Using CLI Parameters

To configure `perfd` for a session, you can use the **perfd** command. See the **perfd** man page for information on the command options.

GlancePlus in a Virtualized Environment

The following sections provide information on GlancePlus in a Virtualized Environment.

GlancePlus on the Service Console

GlancePlus is not supported on service console of VMware ESX Server.

GlancePlus on a Virtual Machine

This version of GlancePlus supports monitoring of Virtual Machines (VMs) hosted on VMware ESX Server 3.0.1 and later. For installation procedures, refer to the section [Installing GlancePlus in a Virtualized Environment](#).

Install **VMware Tools** on the VM. GlancePlus installed on a VM, hosted on VMware ESX Server 3.0.1 and later, requires VMware tools to recognize the virtual machine as a Guest operating system.

On VMs hosted on VMware ESX Server 3.0.1, enable the **VMware Guest API** on the VMs. To capture the Virtual Machine's utilization of physical resources of a system, GlancePlus uses the **VMware Guest API**. For more information about **VMware Guest API**, refer to latest documentation available on **VMware Guest SDK** from VMware.

▶ For complete list of metrics and descriptions, refer to the *Release Notes and Dictionary of Performance Metrics*.

GlancePlus on vMA

This version of Glanceplus supports monitoring of multiple ESX servers and their VMs using vMA. The supported ESX servers are from ESX server version 3.5 update 2 to ESX Server 4.0i.

Install **VMware Tools** on vMA. **VMware Tools** improve the management of the virtual machines and enhances the performance.

Enable **VMware Guest API** to capture the vMA machine's utilization of physical resources on the system. For more information about **VMware Guest API**, refer to latest documentation available on **VMware Guest SDK** from VMware.

- ▶ For complete list of metrics and descriptions, refer to the *Release Notes* and *Dictionary of Performance Metrics*.

The following table lists all the features which are supported in vMA:

Features/Functionalities	Linux	vMA
Alarming	Available	Available
Application metric class	Available	Available
BYLS metric	Not available	Available
proc metric	Available	Available
Transaction metric class	Available	Available
Table class	Available	Available
ARM	Available	Available

Installing GlancePlus in a Virtualized Environment

To install GlancePlus, follow these steps:

- 1 Make sure you are logged in as **vi-admin**.

- ▶ Typically, on vMA 4.0 the root user account is disabled. Follow the Step 2 to run any command with root privileges.

- 2 To run a command with root privileges:

Type the command **sudo bash**, and then type the password. This initiates a shell with root privileges.

- ▶ Alternatively, you can enter all the commands for installing GlancePlus by prefixing **sudo** before the command and typing the root password.

- 3 Insert your installation DVD-ROM into the drive.

Typically, Linux systems are configured to automatically mount the DVD-ROM. If your system is not configured to automount the DVD-ROM, then you must manually mount it. Enter:

```
mount -t <type> <device> <dir>
```

In this instance:

<type> is the file system type

<device> is the DVD-ROM device

<dir> is where the DVD-ROM directory will be mounted.

For example:

```
mount -t iso9660 /dev/dvdrom /mnt/dvdrom
```

- 4 Open a terminal window. In the terminal window, change to the DVD-ROM directory by typing:


```
cd /<directory>
```

where *<directory>* is your DVD-ROM directory.

- 5 Type **ls** to verify that you are in the correct directory. You will see the README file, `glance.install` scripts, and `paperdocs`, `packages`, and `ReleaseNotes` subdirectories.
- 6 Run the installation script by typing:

```
./glance.install
```

GlancePlus installation is now complete.

 Type **sudo glance.install**, and enter the root password if you ignored the Step 2 in this section

- 7 To start the `perfd` daemon, type:

```
/opt/perf/bin/pctl start
```

For details on installation script, see [Installation Script Options](#) on page 16.

viserver

viserver is the java daemon that runs on a vMA system and gets BYLS data from the vMA 4.0 system.

Prerequisites for running viserver

Before starting viserver, make sure of the following:

- The system has 1GB of physical memory
- The floppy disk drives are disabled, and
- Portmap services are up and running

Configuring viserver

You can configure viserver setting in the two configurable files `viserver.properties` and `VILog4j.xml`. These files are available in `/var/opt/perf/`.

`viserver.properties`

The properties of viserver is specified in the `viserver.properties` file. This file contains the following parameters:

- `port`

The `port` parameter is the loopback port through which viserver and clients communicate. The port details is non-editable and it changes everytime you restart viserver.

- `hosts`

The `hosts` parameter defines the number of hosts that viserver can support. The default value is 20.

Note that if you have more hosts in your environment, you can edit this parameter to specify your required settings. If HP Performance Agent is not able to collect data for the number of hosts that you specified, you need to reduce the entries in `vifp` targets.

- `instance`

The `instance` parameter defines the number of instances viserver can support. The default value is 200.

Note that if you have more instances in your environment, you can edit this parameter to specify your required settings. If HP Performance Agent is not able to collect data for the number of instances that you specified, you need to reduce the entries in `vifp` targets.

- `jvmArgs`

The `jvmArgs` parameter allows you to add `jvm` arguments and modify `jvm` as required in customers environment.

The default configuration for `jvmArgs` is as follows:

```
jvmArgs=-Xms256m -Xmx512m -classpath /opt/perf/bin/java/  
activation.jar:/opt/perf/bin/java/axis-ant.jar:/opt/perf/  
bin/java/axis.jar:/opt/perf/bin/java/  
commons-discovery-0.2.jar:/opt/perf/bin/java/  
commons-logging-1.0.4.jar:/opt/perf/bin/java/jaxrpc.jar:/  
opt/perf/bin/java/log4j-1.2.8.jar:/opt/perf/bin/java/  
mailapi.jar:/opt/perf/bin/java/saaj.jar:/opt/perf/bin/  
java/vifplib25.jar:/opt/perf/bin/java/vim25.jar:/opt/  
perf/bin/java/viserver.jar:/opt/perf/bin/java/  
wsdl4j-1.5.1.jar com.hp.perfagent.
```

You can add or remove the configuration settings as required.

- `log4jInterval`

The `log4jInterval` parameter specifies the interval at which `viserver` checks for changes in `VIlog4j.xml` file. The default value is 60000 milliseconds (1 minute). You can modify this value as required.



You need to restart `viserver` if you change the configuration settings for any of the parameters. The new settings are effective only after you restart `viserver`.

VIlog4j.xml

`Viserver` uses `VIlog4j.xml` file located at `/var/opt/perf/` to log status information in `status.viserver` file. The `log4j.dtd` file available in `/var/opt/perf/` defines the template for the `VIlog4j.xml` file. You can change the configuration settings in the `VIlog4j.xml` file and the changes are effective after a specified time. The value of the specified time is defined in the parameter `log4jInterval`.



There are blocks in the XML file that are required for the logging to work properly. Do not change or delete these blocks as they interfere with other modules of the product.

The only recommended change is the level change of `com.hp.perfagent` logger (For details see [Loggers](#) on page 29).

The `xml` file consist of appenders and loggers.

Appenders

Appenders control the logging mechanism. By default the xml file contains two appenders `status_file` and `console`.

The `status_file` appender contains the following parameters:

- `appender name`

The `appender name` parameter indicates the name of the appender. The default name is set to "statusfile".

- `appender class`

The default configured class is set to `org.apache.log4j.RollingFileAppender`. To configure any other class, refer to the Apache documents.

- `maxFileSize`

The `maxFileSize` parameter specifies the size of a single status file of viserver. The default value is set to 10240KB (10MB).

- `File`

The `File` parameter indicates the absolute path name of the log file. The default path is set to `/var/opt/perf/status.viserver`.

- `layout class`

The default layout class is set to `org.apache.log4j.PatternLayout` and the pattern is specified.

- `Threshold`

The `Threshold` parameter defines the maximum level of details that the appender can log into the specified logger. The default value is set to "all".

- `maxBackupIndex`

The `maxBackupIndex` parameter specifies the maximum number of backup status files that need to be backed up. The moment `status.viserver` reaches the value specified in `maxFileSize`, it will be saved as `status.viserver.1` and logging continues in a new empty `status.viserver` file. When the new `status.viserver` file reaches the value specified in `maxFileSize`, the following happens:

- the `status.viserver` file will be saved as `status.viserver.1`
- the existing `status.viserver.1` will be saved as `status.viserver.2`, and

- logging continues till it reaches the value specified in `maxBackupIndex`.

When the number of the logfiles reach the maximum number as defined for backup, the first `status.viserver` that was saved is deleted, the other files are saved with new names as explained and logging continues in an empty `status.viserver` file

The `console` appender logs data on the console. Console appender is configured to log only fatal informations.

Loggers

You can specify the loggers after you specify the appenders. Loggers specify the following details:

- `logger name`

The logger name is the name of the logger. It can be a specific logger like `perfagent` or a more generic logger (`root`).

- `logging level`

This can be one of `all`, `trace`, `debug`, `info`, `warn`, `error`, `fatal` and `no`.

- `logging details`

This specifies the logging details by specifying the appender.

By default the `xml` file contains the following loggers:

1. `com.hp.perfagent` logger

The `com.hp.perfagent` logger is responsible for logging `perfagent` (`viserver`) specific details in `/var/opt/perf/status.viserver` file. The `com.hp.perfagent` logger appear as follows:

Specified within the block

```
logger name = "com.hp.perfagent">
```

```
....
```

```
</logger>
```

Note that the default logging level for this logger is `"info"` and changing the logging level to `"debug"` will result in more debugging information getting logged into `status.viserver` file.

You can change the configuration for the logger only under the following scenarios:

- For very minimal logging in `status.viserver` change the level to "fatal".
- Change the level to "debug" to log debugging information into `status.viserver`.
- This is recommended only if the Support Engineer asks for it.

2. `root` logger

The `root` logger appear as follows:

Specified within the block

```
<root>
```

```
...
```

```
</root>
```

Note that the default logging level for this logger is "fatal".



It is strongly recommended NOT to change this level. If this level is changed, Glance functionality will get affected.

Viewing Status of viserver

When GlancePlus is installed on vMA 4.0, viserver records the logical data. To view the status of viserver, use one of the following command:

- **perfstat -p** command.

Removing GlancePlus

If you need to remove GlancePlus from a system, use the script `glance.remove` that is in the `/opt/perf/bin/` directory. Before removing GlancePlus, this script will check to see if you wish to remove log and data files that were created.

The script supports the following command line options for a more flexible product removal. The syntax of the command is as follows:

glance.remove [-f] [-h] [-r]

- f Force removal. Do not prompt for confirmation before removing the product (non-interactive mode).
- h Help: Displays this usage message.
- r Remove GlancePlus configuration and data files as well as the product files.

It is possible that some product packages may remain installed on the system, if those packages are shared across other HP Software products and are required by other tools. They will be removed only when the last tool requiring them is also removed.

Removing GlancePlus in a Virtualized Environment

To uninstall GlancePlus, follow these steps:

- 1 Make sure you are logged in as **vi-admin**.



Typically, on vMA 4.0 the root user account is disabled. Follow the Step 2 to run any command with root privileges.

- 2 To run a command with root privileges:

Type the command **sudo bash**, and then type the password. This initiates a shell with root privileges.



Alternatively, you can enter all the commands for removing GlancePlus by prefixing **sudo** before the command and typing the root password.

- 3 Change the directory path by typing:

```
cd /opt/perf/bin/
```

4 Type **ls** to verify that the `glance.remove` script is available in this directory.

5 Run the uninstall script. To uninstall, type:

```
./glance.remove
```

▶ Type **sudo glance.remove**, and enter the root password if you ignored the Step 2 in this section.

Before removing GlancePlus, this script will check to see if you wish to remove log and data files that were created.

The script supports the following command line options for a more flexible product removal. The syntax of the command is as follows:

```
glance.remove [-f] [-h] [-r]
```

-f Force removal. Do not prompt for confirmation before removing the product (non-interactive mode).

-h Help: Displays this usage message.

-r Remove GlancePlus configuration and data files as well as the product files.

It is possible that some product packages may remain installed on the system, if those packages are shared across other HP Software products and are required by other tools. They will be removed only when the last tool requiring them is also removed.

2 Documentation

Release Notes

For additional information about this release of GlancePlus, refer to the GlancePlus Release Notes located in the HP Software Products Manuals website at

<http://h20230.www2.hp.com/selfsolve/manuals>

Online Help

For **xglance** users

- To learn about the features available in the Motif interface version of GlancePlus, click on the Help menu in any xglance window.
- To get help on a particular xglance window, display the window, then select **On This Window** from the Help menu.
- To get help on a particular item in an xglance window, click the **?** button in the top right corner of the window, then click the item you want to know about. Note that xglance will stay in the **On Item Help** mode until you click the **?** button again.

You can also get help on an item by pointing to the item, then clicking the right mouse button.

For **glance** users:

To learn about all of the features available in the character mode version of GlancePlus, enter the **h** command or select the **Help** softkey. Type **?** to display the glance command menu.

Printable Documents

The GlancePlus software includes the standard GlancePlus documentation set in viewable and printable file formats. You can view the Adobe Acrobat format (*.pdf) documents online and print as needed. ASCII text (*.txt) documents are also printable. However, you can view a text file on your screen using any UNIX text editor such as vi.

The documents are listed in the following table along with their file names and online locations.

Table 1 GlancePlus Documentation Set

Document	File Name	Location
<i>HP GlancePlus Installation Guide</i>	gpinst.pdf	/opt/perf/ paperdocs/gp/C
<i>GlancePlus for Linux Metrics Dictionary</i>	gp-metrics.txt	/opt/perf/ paperdocs/gp/C
<i>HP Performance Agent and GlancePlus Tracking Your Transactions Manual</i>	tyt.pdf	/opt/perf/ paperdocs/arm/C
<i>Application Response Measurement (ARM) API Guide</i>	armapi.pdf	/opt/perf/ paperdocs/arm/C

Glossary

perfd

Perfd is a system performance daemon that provides real-time access to system performance metrics. For all but the global metric class, perfd only provides data for the last interval only. For global data, perfd can provide average, minimum, maximum values as well as standard deviation based on a configurable collection depth (5 minutes by default).

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Document title:

Version number:

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