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# HP OpenView Performance Agent

For the HP-UX Operating System

## Release Notes

**Software version:** C.04.50 / October 2006

This document provides an overview of the changes made to HP OpenView Performance Agent (OVPA) version C.04.50. It contains the following important information that is not included in other manuals and online help:

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## In This Version

OV Performance Agent was formerly called the MeasureWare Agent. In some places the names MeasureWare Agent or MWA might still appear.

This release of OVPA supports the following features:

- Support on HP-UX 11.11 and later.
- Support for HTTP and HTTPS-based data communication.
- Support for single port communication.

HTTPS enables secure communication. OVPA continues to support existing DCE or NCS-based communication. You can configure OVPA to use either DCE or NCS, or HTTP(S)-based data communication. Refer to Chapter 2 of the *HP OpenView Performance Agent Installation and Configuration Guide for HP-UX systems* for more details.

Important points to note are:

- HTTPS-based secure communication is supported only in the OVO 8.x environment.
- HTTP(S) data communication is supported using CODA.
- Applications that use performance data from OVPA can communicate with OVPA using HTTPS data communication. OV Performance Manager 5.0 can communicate with OVPA using HTTPS, while OV Reporter 3.6 and OV Performance Insight 5.1 can communicate only using HTTP data communication.

▶ What is CODA?

CODA is a daemon that handles data communication (both HTTP and HTTPS) when delivered as part of OVPA. It also handles communication with `perfalarm`, the alarm management daemon. CODA, when delivered as part of OV Operations Agent enables lightweight system performance collection and Smart Plug-In support

OVPA shares the Black Box Communication functionality with OV Operations. It includes the `ovbbccb` daemon that is started with and used by CODA. Switching to the new data communication facility makes communication across firewalls easier (see the *HP OpenView Performance Agent Installation and Configuration Guide for HP-UX Systems* for details).

- The DCE or NCS-based alarm management daemon, `alarmgen`, has been replaced by the HTTP-based `perfalarm`. The `Perfalarm` daemon is the preferred daemon to send alarms to OVO servers. The `alarmgen` daemon is still supported for sending alarms to OVPM 3.x (PerfView). For information on how to set up `alarmgen` as the default alarm management daemon. Refer to Chapter 2 of the *HP OpenView Performance Agent Installation and Configuration Guide for HP-UX Systems*.
- This release includes the following new metrics:
  - `GBL_SWAP_SPACE_AVAIL`
  - `GBL_STATTIME`
  - `GBL_MEM_PAGEIN_RATE`
- The scaling for the following metrics has been changed from KB to MB:
  - `GBL_MEM_AVAIL`
  - `GBL_MEM_PHYS`
- Dependency of `tttd` on having `rpcbind` or `portmap` running has been eliminated. `tttd` has been modified to work independent of `rpcbind` or `portmap`.

- User messages in extract/utility tools will now display time in 24-hour format.
- This release includes enhancements and defect fixes. Refer to the [Enhancements and Fixes](#) section for details.

## Installation Notes

For installation requirements and instructions, refer to the *HP OpenView Performance Agent for HP-UX Installation and Configuration Guide* provided as part of the product in Adobe Acrobat (.pdf) format and found as `ovpainst.pdf` in `/opt/perf/paperdocs/ovpa/C/`.

## Software and Hardware Requirements

Before installing OV Performance Agent, make sure that your system meets the following minimum hardware and software requirements:

- Hardware
  - HP 9000, Integrity Servers and HP Workstations supported on the HP-UX 11i Version 1 and Version 2 December 2004 release
- OS platform and compatibility
  - HP-UX 11i Version 1 (11.11) for the PA-RISC architecture
  - HP-UX 11i Version 2 (11.23) for both the Itanium (TM) and PA-RISC architectures
- Disk space
 

OV Performance Agent installs in the `/opt/perf/` and `/opt/OV` directories and creates its log and status files in the `/var/opt/perf/` and `/var/opt/OV` directories.

  - recommended 50 MB in the `/opt/perf/` and `/opt/OV` directories for first-time installation of OVPA
  - recommended 60 MB in the `/var/opt/perf/` and `/var/opt/OV` directories for log and status files

## Compatibility

- On HP-UX 11.11, the following patch must be installed to use the correct version of `libnm.1`. This patch is a Cumulative ARPA Transport patch.

`PHNE_27063` (or superseding patch)

- HPUX 11.11 and beyond running EMC PowerPath v2.1.2 or v3.0.0 must have the latest EMC patches installed to avoid conflicts with the OVPA and GlancePlus products. Without these EMC patches, problems can occur ranging from OVPA and GlancePlus product core dumps to invalid disk queue metrics.

For the EMC PowerPath v2.1.2 release, use the following patch:

`EMCpower_patch213 HP.2.1.3_b002` (or superseding patch)

For the EMC PowerPath v3.0.0 release, use the following patch:

`EMCpower_patch301 HP.3.0.1_b002` (or superseding patch)

For more details about these EMC patches or to check whether a superseding patch is available, please contact EMC Support.

- HP-UX 11.11 requires the following patches for the performance tools to properly run with VERITAS Volume Manager 3.2:  
PHKL\_26419 for HP-UX B.11.11 (11.11) (or superseding patch)  
PHCO\_26420 for HP-UX B.11.11 (11.11) (or superseding patch)
- If multiple processor sets are configured on an HP-UX 11.11 system and you are using the `log application=prm` switch in the `parm` file to log `APP_ metrics` by PRM Group, you must install the following kernel patch for it to work properly:  
PHKL\_28052 (or superseding patch)
- This version of OV Performance Agent has been verified to work with Process Resource Manager (PRM) version C.02.01.



If you are installing or upgrading OVPA on a system that already has GlancePlus installed, upgrade GlancePlus to the same release version. GlancePlus and OVPA versions must always be the same.

## Special Installation instructions

- If you are installing OVPA 4.5 and OVO 7.x agent at the same system, then you must install OVO 7.x agent first and then OVPA 4.5.
- On Itanium-based systems, OVPA 4.5 and OVOU Management Server 8.x (up to 8.10) for HP-UX cannot coexist on the same system.
- If you are installing OVPA 4.5 on a system on which if one or more of the following OV products are installed, then it is recommended to restart them after OVPA 4.5 installation.
  - a OVO Agent
  - b OVO UNIX Management Server
  - c OV Performance Manager
  - d OV Performance Insight
  - e OV Internet Service
- If you have an HP OpenView Smart Plug-In (SPI) installation on your system, you must install the following software updates for the SPI to work successfully with OVPA 4.5.
  - If you are running OVO management server on Windows operating systems, then download and install the following OVO patch:
    - For OVO 7.2x download and install patch `OVOW_00201`
    - For OVO 7.5x download and install patch `OVOW_00202`
 These patches can be downloaded from:  
**[http://support.openview.hp.com/patches/patch\\_index.jsp](http://support.openview.hp.com/patches/patch_index.jsp)**
  - If you are running OVO management server on UNIX operating systems (HP-UX and Solaris) then download and install the software update, `DSI2DDF_A.02.02.00.sdtape`.  
`DSI2DDF_A.02.02.00.sdtape` can be downloaded from the following anonymous ftp location:  
`ftp://ftp.hp.com/pub/ovreporter/ovpa_spi`  
 For more information about the software update, refer to the `Readme` file at the location  
`ftp://ftp.hp.com/pub/ovreporter/ovpa_spi/ReadMe.txt`.

# Enhancements and Fixes

This release provides fixes to the following major problems and change requests:

## QXCR1000244332

**PROBLEM:** 64-bit ARM instrumented applications dumps core in ARM calls.

**FIX:** Instrumented application aborts due to problems in the 64-bit implementation of the ARM APIs is now rectified.

## QXCR1000227979

**PROBLEM:** The BYDSK\_ID metric reports an incorrect value. It is always exported as the MISSING value configured in the report template file.

**FIX:** This problem has been fixed and now, extract command exports correct value of BYDSK\_ID metric.

## QXCR1000216613

**PROBLEM:** OVPA C.03.85 PA-RISC HP-UX 11.23 `extract` terminates abnormally if scope log file path is not specified using `-l` option.

**FIX:** In this release, `extract` works correctly without the log file path being specified.

## QXCR1000235322

**PROBLEM:** In an OVO UNIX 8.10 environment, `alarmgen` is not able to send alarm messages to OVO server.

**FIX:** `alarmgen` and `perfalarm` can now send ITO messages to the OVO management server in an OVO UNIX 8.10 environment.

## QXCR1000086946

**PROBLEM:** Metric `BYNETIF_NET_SPEED` is logged as 31702 instead of 1000000000 for a 1 GB LAN interface.

**FIX:** `BYNETIF_NET_SPEED` metric has been changed to display in Mega bits per second (Mbps). Both Glance and OVPA show this metric in Mbps.

## QXCR1000233643

**PROBLEM:** Memory leak in `rep_server`

**FIX:** This problem is now fixed.

QXCR1000233663

**PROBLEM:** `status.rep_server` is filled up with spurious 6 digit hex numbers during log file roll over.

**FIX:** This problem is now fixed.

QXCR1000026571

**PROBLEM:** On HP-UX metrics `GBL_DISK_LOGL_[READ|WRITE]_BYTE*` are reported incorrectly by OVPA/Glance

**FIX:** This problem is now fixed.

QXCR1000293699

**PROBLEM** The BBC 2/3/4 configuration could not be found.

**FIX** Install the following patches:

For HP-UX 11i v1, PHSS\_35064

For HP-UX 11i v2, PHSS\_35065

QXCR1000292051

**PROBLEM** HPOvLcore.HPOVSECCO & HPOVBBC using INFO, instead of NOTE.

**FIX** Install the following patches:

For HP-UX 11i v1, PHSS\_35064

For HP-UX 11i v2, PHSS\_35065

## Known Problems, Limitations, and Workarounds

QXCR1000240349

**PROBLEM:** BBC5 daemon fails to start on a system with OVPM 3.x (PerfView) installed. The default port for `pvalarm`, the PerfView alarm management daemon is 383, which conflicts with the default port for BBC communication broker daemon `ovbbccb`.

**WORKAROUND:** Choose a different port for `pvalarm`.

QXCR1000240349

**PROBLEM:** On Itanium-based systems, OVPA 4.5 and OVO UNIX Management Server 8.x (up to 8.10) for HP-UX can not co-exist.

**WORKAROUND:** None.

QXCR1000240349

**PROBLEM:** If you are installing on an HP-UX 11.23 system you may see the following warning message for GlancePlus Pak and OVPA bundles.

WARNING: The software specification B3699AA refers to a bundle (or to a product, subproduct or fileset within a bundle). Only some of the software specified could be selected. The messages below show those items which could not be selected and those items which were selected but generated a warning:

**WORKAROUND:** This message can be safely ignored

QXCR1000287213

**PROBLEM:** Installation of OVPA 4.5 on a system with an OVO 7.x agent already installed sends the following alert message continuously:

BBC Local Location Broker of subagent 0 aborted; process did an exit 77.The process has been started for '6' times in the last '0 d 00:00:50' already. (OpC30-1198)

**WORKAROUND:** Restart OVO 7.x agent by running the following commands

```
# opcagt -kill  
# opcagt -start
```

QXCR1000287583

**PROBLEM:** Installation/uninstallation of OVPA 4.5 on a system with OVO 8.x running in non-root user mode, switches the user id back to root for ovc, coda and ovbbccb processes.

**WORKAROUND:** Run `ovswitchuser.sh` to fix the above problem.

QXCR1000237437

**PROBLEM:** Uninstallation of OVO 8.x agent is incomplete if OVO 8.x and OVPA 4.5 are installed on the same system

**WORKAROUND:** Hotfix is available through HP Support

QXCR1000237478

PROBLEM: Uninstallation of OVO 8.x agent stops `ovc`, `ovbbccb` and `coda`

WORKAROUND: Hotfix is available through HP Support.

QXCR1000282671

PROBLEM: If you stop OVO 8.x agent using command `opcagt -stop`, `coda` is also stopped

WORKAROUND: Hotfix is available through HP Support.

QXCR1000291031

PROBLEM: In a HTTPS based secure data communication environment, OVPM 5.0 encounters a timeout condition while communicating with OVPA 4.5, if OVPA 4.5 is additionally configured for single port communication. Refer section "Communicating Across a Firewall" in HP OpenView Performance Agent *Installation and Configuration Guide* (`ovpainst.pdf`) for details about "Single port communication" and "Secure Communication".

WORKAROUND: When you wish to enable HTTPS data communication, use a fixed second port number instead of configuring `coda` for single-port communication. If you do not configure single-port data communication, then by default, OVPA's `coda` process will use a dynamically chosen second port (in addition to port 383 which is used by the `ovbbccb` communication broker process). This use of a dynamic port can be difficult when connecting to OVPA remotely through a firewall, because you will not know what firewall ports to open. Instead of configuring single-port data communication along with HTTPS, choose a port other than 383 that you will open in the firewall and then configure OVPA to use it for `coda` as follows.

- a `ovconfchg -ns coda.comm -set SERVER_PORT <portnumber>`
- b `ovconfchg -ns coda.comm -set SERVER_BIND_ADDR 0`
- c `ovpa restart server`

QXCR1000296328

PROBLEM Fileset preinstall scripts for HPOvLcore and HPOvPerf not sourcing `control_utils`.

FIX None

## Documentation Errata

None



# Software Version Information and File Placement Plan

## Version Information

For a summary of version strings of the major executable components of OV Performance Agent for HP-UX, use the following command:

```
/opt/perf/bin/perfstat -v
```

## File Placement

The following is a list of directory locations for product files.

For a list of all files in the product, enter the command:

```
/usr/sbin/swlist -l file MeasureWare MeasurementInt
```

**Release Notes (English):**

```
/opt/perf/ReleaseNotes/
```

**Release Notes (Japanese):**

```
/opt/perf/ReleaseNotes/ja_JP.SJIS/
```

**Executables including UI programs, daemons, and scripts:**

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

**Shared component binaries:**

```
/opt/OV/bin/
```

```
/opt/OV/lbin/
```

**Shared component libraries:**

```
/opt/OV/lib/
```

**Examples (refer to the README file in the directory for more information):**

```
/opt/perf/examples/
```

**Man pages (English):**

```
/opt/perf/man/man1/
```

```
/opt/perf/man/man3/
```

```
/opt/perf/man/man4/
```

**Man pages (Japanese):**

/opt/perf/man/ja\_JP.SJIS/man1/

**Printable documents:**

/opt/perf/paperdocs/ovpa/C/

/opt/perf/paperdocs/arm/C/

**Printable documents:**

/opt/perf/paperdocs/ovpa/C/

/opt/perf/paperdocs/arm/C/

**Default configuration and template files:**

/opt/perf/newconfig/

/opt/perf/newconfig/etc/rc.config.d/

**Product configuration and status files:**

/var/opt/perf/

/var/opt/OV/conf/perf/

**Product data and internal-use files (created during and after installation):**

/var/opt/perf/datafiles/

**Development include files:**

/opt/perf/include/

**Library files:**

/opt/perf/lib/

/opt/perf/lib/hpux32

/opt/perf/lib/hpux64

/opt/perf/lib/pa20\_64

**OVPA bootup scripts:**

/sbin/init.d/ovpa

/sbin/rc1.d/K190ovpa [linked to /sbin/init.d/ovpa]

/sbin/rc2.d/S810ovpa [linked to /sbin/init.d/ovpa]

**Online help files:**

/opt/perf/help/ovpa/C/

Message catalogs:

/opt/perf/lib/nls/msg/C/

## Local Language Support

Localization into Japanese (ja\_JP.SJIS) is provided.

This version of OVPA product and supporting user documentation are available in Japanese (ja\_JP.SJIS).

The Japanese editions of the following OV Performance Agent manuals are available in PDF format at

**<http://www.jpn.hp.com/go/manual>:**

These manuals are:

- *HP OpenView Performance Agent for HP-UX Installation and Configuration Guide*
- *HP OpenView Performance Agent for UNIX User's Manual*
- *HP OpenView Performance Agent for UNIX Data Source Integration Guide*
- *HP OpenView Performance Agent and GlancePlus for UNIX Tracking Your Transactions*
- *Application Response Measurement (ARM) API Guide*

## Support

Please visit the HP OpenView support web site at:

**<http://www.hp.com/managementsoftware/support>**

This web site provides contact information and details about the products, services, and support that HP OpenView offers.

HP OpenView online software support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valuable support customer, you can benefit by using the support site to:

- Search for knowledge documents of interest
- Submit and track progress on support cases
- Submit enhancement requests online
- Download software patches
- Manage a support contract
- Look up HP support contacts
- Review information about available services
- Enter discussions with other software customers
- Research and register for software training



Most of the support areas require that you register as an HP Passport user and sign in. Many also require an active support contract.

To find more information about access levels, go to:

**[http://www.hp.com/managementsoftware/access\\_level](http://www.hp.com/managementsoftware/access_level)**

To register for an HP Passport ID, go to:

**<http://www.managementsoftware.hp.com/passport-registration.html>**

## Online Documentation

To check for recent updates or to verify that you are using the most recent edition, visit the following URL:

**[http://ovweb.external.hp.com/lpe/doc\\_serv/](http://ovweb.external.hp.com/lpe/doc_serv/)**

- 1 In the Product list, click the product name.
- 2 In the Version list, click the version number.
- 3 In the OS list, click the OS type.
- 4 In the document list, click the document title.
- 5 To retrieve the document, click Open or Download.



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**<http://www.adobe.com>**

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