

HP OpenView Performance Agent Release Notes for AlphaServer Systems

Release C.03.60.00 and C.03.61.00



i n v e n t

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1 HP OpenView Performance Agent Release Notes for AlphaServer Systems

Announcements

This document provides a description of the changes made to HP OpenView Performance Agent for AlphaServer systems in June 2002.

NOTE The names OpenView Performance Agent for AlphaServer Systems (formerly MeasureWare Agent) and OpenView Performance Manager (formerly PerfView) are used throughout this document. However, the software components and processes names operationally remain MeasureWare Agent (MWA) and PerfView (PV).

This document contains important information not included in the manuals or in the on-line help.

NOTE Before using this software, you must review and accept the license terms and conditions spelled out in the `readme` file available in `<directory>/readme.mwa`. Where `<directory>` is your CD-ROM directory.

This release of HP OpenView Performance Agent (OVPA) for AlphaServer systems delivers two separate packages on two CD-ROMs:

- To run OV Performance Agent in NCS mode, install the OVPA C.03.61.00 package.
- To run OV Performance Agent in DCE mode, install either OVPA C.03.60.00 or OVPA C.03.61.00 package, depending on the version of DCE software installed on your system, as shown in Table 1-1 on page 4.

Table 1-1 OVPA Versions and DCE Versions Compatibility

OS version	C.03.61.00	C.03.60.00
4.0G	---	DCE V3.1, V3.2
5.0	---	DCE V3.1, V3.2
5.0A	---	DCE V3.1, V3.2
5.1	DCE V4.1.4	DCE V4.1, V4.2
5.1A	DCE V4.2	---

NOTE If you try to install the OVPA package that is not compatible with the DCE software running on your system, or if you upgrade your DCE software, OVPA may not work as expected and you will have to re-install your OV Performance Agent software.

For more information on installing OVPA to run in DCE mode, refer to the `install.txt` document in the `<directory>` (where `<directory>` is your CD-ROM directory), or the *HP OpenView Performance Agent: Installation and Configuration Guide for AlphaServer Systems* which comes with the installation media.

This release includes several enhancements and defect repairs, including the defect repairs released with the MWADEC_00001 and MWADEC_00002 patches. Refer to section “Patches and Fixes for This Version” on page 10 of these Release Notes for more information.

This release adds support for Compaq Tru64 UNIX operating system versions 4.0G, 5.0, 5.0A, 5.1, and 5.1A.

What's New in This Release?

This Section summarizes the functionality and features added to this release of HP OpenView Performance Agent.

Features

- OV Performance Agent was enhanced to provide support for Compaq Tru64 UNIX operating system versions 4.0G, 5.0, 5.0A, 5.1, and 5.1A.
- OV Performance Agent was enhanced to use either NCS/RPC Calls or DCE/RPC Calls. With this enhancement, the DCE Base Services for Tru64 UNIX software is no longer required to run OV Performance Agent in native NCS mode. However, if you want to run OV Performance Agent in DCE mode, you will have to purchase and install DCE software and install the DCE OV Performance Agent fileset. For more information on how to install your OV Performance Agent software, refer to the *HP OpenView Performance Agent: Installation and Configuration Guide for AlphaServer Systems* or the `install.txt` document.

The following changes have been made in OV Performance Agent for AlphaServer systems:

- Changes in OV Performance Agent packaging
OV Performance Agent for AlphaServer systems delivers two packages on two separate CD-ROMs:
 - OVPA C.03.60.00 supporting NCS/DCE (DCE V3.1, V4.0, and V4.1)
 - OVPA C.03.61.00 supporting NCS/DCE (DCE V4.1.4 and V4.2)Both OVPA packages include three filesets:
 - NCS fileset in `tarncs` tar file. These files use the `llbd` daemon to support OV Performance Agent running in NCS mode.
 - DCE fileset in `tardce` tar file if you are installing OVPA C.03.60.00, or `tardce32` tar file if you are installing OVPA C.03.61.00.
Either of these DCE filesets require DCE Runtime Services to be installed on the system. Both the DCE communication protocol, and emulation of the NCS communication protocol are supported.
 - Common fileset in `tarfile` tar file. These are the common files which get installed in addition to NCS or DCE fileset.

What's New in This Release?

- Changes in OV Performance Agent installation

A new option `-b [ncs | dce]` has been added to the `install.mwa` script. With this option, you can specify whether to install an NCS or a DCE fileset.

- Version information

Depending on which fileset is installed on the system, the `perfstat -v` output lists major OV Performance Agent executable components along with the appropriate suffix which is either NCS or DCE.

For an example output of the `perfstat -v` command, see “Software Version Information & the File Placement Plan” on page 21 of these Release Notes.

- OpenView Performance Agent was enhanced to provide optional Client Authentication. For more information refer to chapter 2, "Starting Up & Running OpenView Performance Agent" in the *HP OpenView Performance Agent: Installation and Configuration Guide for AlphaServer Systems*.
- OV Performance Agent was enhanced to log `FILESYSTEM`, `BYCPU` (metrics specific to individual processors), and `LVOLUME` metrics. The following metrics have been added:

Filesystem metrics

FS_TYPE
FS_DEVNAME
FS_DIRNAME
FS_BLOCK_SIZE
FS_MAX_SIZE
FS_MAX_INODES
FS_SPACE_UTIL
FS_INODE_UTIL

BYCPU metrics

BYCPU_ID
BYCPU_CPU_TOTAL_UTIL
BYCPU_STATE
BYCPU_CSWITCH_RATE
BYCPU_INTERRUPT_RATE
BYCPU_CPU_USER_MODE_UTIL
BYCPU_CPU_SYS_MODE_UTIL

LVOLUME metrics

LV_DIRNAME
LV_READ_BYTE_RATE
LV_READ_RATE
LV_SPACE_UTIL

LV_WRITE_BYTE_RATE
LV_WRITE_RATE

With this enhancement the logging of FILESYSTEM, BYCPU, and LVOLUME metrics is enabled by default as indicated with the `filesystem`, `cpu`, and `lvm` keywords in the log line of the `/var/opt/perf/parm` file:

```
log global application process device=disk,lvm,cpu,filesystem
```

You can turn off/on the logging of FILESYSTEM, CPU, and LVOLUME metrics by editing this line in the `parm` file and restarting the `scopeux` data collector.

NOTE Installation of OV Performance Agent does *not* force an overwrite of configuration files in the `/var/opt/perf/` directory if they existed there prior to the installation. These files include the `parm` file.

The default versions of these files are installed under `/usr/opt/perf/newconfig/`.

With this enhancement you can add your own alarms on a per FILESYSTEM, CPU, and LVOLUME basis. The procedures for writing per FILESYSTEM, CPU, or per LVOLUME alarms are similar to those used for per DISK or per NETIF alarms. For more information refer to chapter 7 "Performance Alarms" in the *HP OpenView Performance Agent for UNIX User's Manual*.

You can extract/export FILESYSTEM, CPU, and LVOLUME metrics and view them with OV Performance Manager in the same manner as any metric of any other class. For detailed or summarized data, you will select `extract/export` in the command line or guided mode.

— command line mode

In the command line mode, you can use the following arguments:

```
detail extract/export -y (FILESYSTEM)
                    -u (CPU)
                    -z (LVOLUME)
```

```
summary extract/export -Y (FILESYSTEM)
                    -U (CPU)
                    -Z (LVOLUME)
```

What's New in This Release?

— guided mode

The guided mode offers you help text and the ability to select between extracting/exporting FILESYSTEM, CPU, and LVOLUME data.

The utility program recognizes FILESYSTEM, CPU, and LVOLUME classes and prints out scan results. In the logfile scan output, the FILESYSTEM, CPU, and LVOLUME record information is displayed.

After the parm file is checked, the following information about logdev will be displayed:

```
Will log disk, lan, lvolume, filesystem, cpu data in "logdev"  
Maximum size of "logdev" = 10.0 MB
```

- Added the following new Global metrics

```
GBL_CPU_IDLE_TIME  
GBL_CPU_IDLE_UTIL  
GBL_CPU_WAIT_TIME  
GBL_CPU_WAIT_UTIL  
GBL_MEM_CACHE_HIT_PCT  
GBL_DISK_TIME_PEAK  
GBL_NET_PACKET_RATE  
GBL_NFS_CALL  
GBL_NFS_CALL_RATE  
GBL_DISK_PHYS_IO  
GBL_SYSTEM_UPTIME_HOURS
```

- Added the following new Network Interface metrics

```
BYNETIF_IN_BYTE_RATE  
BYNETIF_OUT_BYTE_RATE
```

- Added the following new Process metrics

```
PROC_APP_ID  
PROC_DISK_BLOCK_READ  
PROC_DISK_BLOCK_READ_RATE  
PROC_DISK_BLOCK_WRITE  
PROC_DISK_BLOCK_WRITE_RATE  
PROC_DISK_BLOCK_IO  
PROC_DISK_BLOCK_IO_RATE  
PROC_MINOR_FAULT  
PROC_MAJOR_FAULT
```


- Added the following new Application metrics

APP_DISK_BLOCK_IO
APP_DISK_BLOCK_IO_RATE
APP_DISK_BLOCK_READ_RATE
APP_DISK_BLOCK_WRITE_RATE
APP_DISK_BLOCK_READ
APP_DISK_BLOCK_WRITE
APP_MINOR_FAULT
APP_MINOR_FAULT_RATE
APP_MAJOR_FAULT
APP_MAJOR_FAULT_RATE

- Added the following new Disk metrics

BYDSK_DIRNAME
BYDSK_AVG_SERVICE_TIME
BYDSK_REQUEST_QUEUE

- Added the following new Configuration metrics

GBL_NUM_CPU
GBL_THRESHOLD_PROCMEM

To define the memory process threshold options, modify the `memory=<num>` parameter in the threshold line in the `parm` file. The default value is 500 MB.

- New functionality was added to the `agsysdb` command. This new functionality allows you to manually remove an OV Performance Manager system from the `agdb` file without using the connected OV Performance Manager software.

The syntax for this new feature is:

```
agsysdb [-delpv]
```

- OV Performance Agent for AlphaServer systems was enhanced to support installation on symbolic links. For more information refer to chapter 1 "Installing OV Performance Agent" in the *HP OpenView Performance Agent: Installation and Configuration Guide for AlphaServer Systems* or the `install.txt` document.
- OV Performance Agent for AlphaServer systems was enhanced to run on a cluster node. In order to receive alarms correctly when connecting OV Performance Manager to OV Performance Agent on a cluster node, you will need to connect the products via the node IP address and *not* via the cluster IP address.

Patches and Fixes for This Version

The following major requests were fixed in this release.

Request ID	Description
H554001640	The problem has been fixed, so that now PIDs having up to 10 digits can be logged and displayed.
H554002058	The <code>*_MEM_RES_*</code> and <code>*_MEM_VIRT_*</code> metrics can now be properly displayed for values greater than 4GB.
H554002051	<code>extract -xt w-1 -gapdzcnt</code> now produces a valid log file.
H554002052	A problem that caused <code>extract</code> to create unreadable log files when processing log files greater than 32 disk devices and/or greater than 4 LAN devices has been fixed.
H554002053	Whitespace characters trailing application names in the <code>parm</code> file no longer result in 'visually duplicate' application names in <code>logindx</code> .
H554002054	<code>alarmgen</code> no longer sends false alarms if not all processes are engaged within application.
H554002055	A problem that caused <code>extract</code> to create unreadable files when extracting global summary records from logfiles containing more than 32 disk devices has been fixed.
H554002105	Export summarization of multiple instance data is now summarized correctly by the <code>export</code> function of <code>extract</code> when a shift is specified and the end of the shift occurs before the end of the summarization interval.
H554002183	The utility <code>-xp</code> and utility <code>-xc</code> no longer report the <code>parm</code> or the <code>alarmdef</code> file syntax error if a directory is specified instead of appropriate file.
H554002193	A new metric <code>GBL_THRESHOLD_PROCMEM</code> has been added to OV Performance Agent.
H554002245	OV Performance Agent now supports installation on symbolic links.
H554002350	The utility <code>-xr</code> was improved so that now correct values of MB per day are determined for the resize operation. The logfiles are being resized to allow for the exact number of days as specified with the <code>days=</code> option.
R555005307	Fixed an <code>extract</code> problem that occurred when computing dates from specified arguments where the computation crossed year boundaries.

- R555007797 Fixed a problem where extracted application summaries appear to contain no data.
- R555012610 PROC_IO_BYTE_CUM has been corrected to cope with large values (GBs) of IO. It now has a limit of 2048 GB. When this limit is exceeded, it correctly reports o/f for overflow.
- R555012772 On active systems where the I/O throughput is high, the following metrics will report correct values when the value exceeds a gigabyte:
- GBL_DISK_PHYS_BYTE
 - GBL_DISK_PHYS_READ_BYTE
 - GBL_DISK_PHYS_WRITE_BYTE
 - GBL_DISK_PHYS_BYTE_RATE
 - GBL_DISK_PHYS_READ_BYTE_RATE
 - GBL_DISK_PHYS_WRITE_BYTE_RATE
- R555015006 Previously, bad network metric values had been observed on busy Omniback servers, and the bad values were possible on any system with very high network throughput rates on the order of thousands of packets per second. This problem has been corrected in this release.
- R555013804 The problem where an incorrect value could be reported for the PROC_CPU_TOTAL_TIME_CUM metric has been corrected.
- R555015034 The problem that could cause intermittent scope cores during execution of a mwa stop command was fixed.
- 8606104166 The mwa script was enhanced, so that now it will not go into an infinite loop if perflbd does not shut down during the mwa stop process.
- 8606164090 The BYDSK_CURR_QUEUE_LENGTH metric has been fixed, so that correct values are reported.
- 8606180774 OV Performance Agent has been enhanced to collect the GBL_NUM_CPU metric.
- 8606215342 The PROC_RUN_TIME metric, and the metrics that are derived from it (PROC_CPU_TOTAL_TIME_CUM, PROC_DISK_BLOCK_IO_CUM, PROC_IO_BYTE_CUM), no longer decrease after a period of 23 days.
- 8606221770 OV Performance Agent was enhanced to provide support for Compaq Tru64 UNIX operating system versions 4.0G, 5.0, 5.0A, 5.1, and 5.1A.
- 8606231563 Oracle processes are properly assigned to the appropriate application as defined in the OV Performance Agent parm file.

8606263267 OV Performance Agent now checks if the `proc` filesystem is mounted. If the `proc` filesystem is not mounted, the `scopeux` data collector is not started and the following error message is written to the `status.scope` file:

```
The procfs is not mounted.
```

To overcome the problem, you will have to manually mount the `proc` filesystem: `mount -t procfs proc /<dir>`

where `<dir>` stands for the mount point directory

The following requests have been addressed with the MWADEC_00001 patch.

Request ID	Description
-------------------	--------------------

H554001164	Now you can compare the <code>PROC_STOP_REASON</code> metric in the <code>alarmdef</code> file.
------------	---

The `alarmdef` syntax

```
if (PROC_INTEREST == "K")
```

does not work because this is a character array that does not just contain a specific character, but an array of character values that indicate process states and it is not possible to test for just the "killed" processes.

H554001275	Data in the exported file is now correct when it is exported in binary format.
------------	--

H554001385	The <code>GBL_CPU_TOTAL_UTIL</code> metric now shows the correct CPU utilization on multi processor systems.
------------	--

R555000274	The updated <code>rxshorts</code> file is now included into the OV Performance Agent product. The file consists of:
------------	---

- the last four digits of the `pcsmetricid` preceded by a 0
- abbreviated metric name
- abbreviated metric definition

8606146007	All of the metrics now have their own IDs and are present in the <code>rxitemid</code> file and metric description module. As a result they are extracted correctly in the exported binary.
------------	---

The following requests have been addressed with the MWADEC_00002 patch.

Request ID	Description
H554001600	Report title can now be 246 characters long, so adding a description in the report title no longer results in an error.
H554001673	<code>extract</code> has been fixed to indicate that LAN information has already been written if global information has been requested.
H554001951	The problem with memory metrics and memory region metrics has been fixed so that now correct values are displayed.
H554001972	OV Performance Agent no longer logs multiple processes with identical metric values.
8606164675	The <code>GBL_ACTIVE_PROC</code> and <code>GBL_ALIVE_PROC</code> metrics have been fixed, so that now correct values are reported.
8606172252	The problem with incorrect parsing of the disk list has been fixed, so that now OV Performance Agent logs disk devices correctly and the data for affected disks are accessible from OV Performance Manager.
8606187450	OV Performance Agent no longer logs processes more than once in an interval. The process table is now updated regularly.
8606209646	OV Performance Agent has been enhanced so that now <code>scopeux</code> no longer aborts during the startup process.

Known Problems and Workarounds

The following requests remain open in this release. Refer to “Patches and Fixes for This Version” on page 10 for information about requests that have been fixed or addressed with patches.

To see the status of the following requests or other open requests, see “Online Documentation and Support” on page 27 in the “Software Version Information & the File Placement Plan” section in these Release Notes.

Request ID	Description
-------------------	--------------------

H554002198	Detailed utility scan (<code>utility xs -D</code>) does not recognize a new logical volume if it was added while <code>scopeux</code> was running.
------------	--

Workaround: Restart the `scopeux` data collector.

H554002272	FILESYSTEM, CPU, and LVOLUME metrics cannot be exported.
------------	--

If you have previously enabled FILESYSTEM, CPU and LVOLUME logging, and then you restart OVPA with FILESYSTEM, CPU, and LVOLUME logging disabled, `export` will produce an empty output file without any values for these metrics.

There are two possible workarounds for this problem.

Workaround 1:

First run `extract` and then `export` FILESYSTEM, CPU, and LVOLUME from the extracted log file:

```
/usr/opt/perf/bin/extract -xt -yuz -f rxlog.yuz  
/usr/opt/perf/bin/extract -xp -yuz -l rxlog.yuz
```

Workaround 2:

Determine the date and time when FILESYSTEM, CPU, and LVOLUME metrics were first logged and then run `export`:

1. Run the utility `scan` to find out the date and time:

```
/usr/opt/perf/bin/utility -xs -D
```

The scan output would look like:

```
06/17/02 16:37 Log Device=FileSys was "FALSE" -> "TRUE"  
06/17/02 16:37 The number of filesystems changed from 0 to 3  
06/17/02 16:37 New filesystem "/"  
06/17/02 16:37 New filesystem "/usr"  
06/17/02 16:37 New filesystem "/var"
```

In this example, the FILESYSTEM metrics were first logged on 06/17/02 16:37

2. Run `export` and specify the beginning of date and time:

```
/usr/opt/perf/bin/extract -xp -y -b 06/17/02 16:37
```

H554002307 When viewing DISK, FILESYSTEM, and CPU data with OV Performance Manager, the data source connection is terminated. The problem occurs only if you try to zoom in on the point where DISK, FILESYSTEM, and CPU data logging is enabled after it has previously been disabled. You will have to restart your data source connection.

You can avoid this problem if you zoom in on the point where DISK, FILESYSTEM, and CPU data has been logged during the entire interval.

H554002333 The utility `scan` program does *not* find filesystem names in old HP-UX, Sun Solaris, and IBM AIX logfiles that already include filesystem records.

The utility `scan` output will look like the following:

```
09/21/01 10:28 Data collected on 5 filesystems:  
Unknown filesystem #0  
Unknown filesystem #3  
Unknown filesystem #5  
Unknown filesystem #7  
Unknown filesystem #9
```

H554002349 The value of the `BYDSK_DIRNAME` shows `n/a` for disks containing `advfs` filesystem with a LSM partition. The problem occurs because the current implementation ignores logical volumes under AdvFS domain

Workaround: To determine the disk configuration, you can use other LSM utilities, such as `volprint` and `volinfo`.

H554002363 The incoming stream of data is not mapped correctly if `$any` is specified in the `format` file.

Known Problems and Workarounds

H554002373 The GBL_MEM_CACHE_HIT_PCT metric shows 0 (zero) at all times. The problem occurs on Tru64 UNIX 4.0G systems because the kernel does not update the counters.

Workaround: To obtain values for the GBL_MEM_CACHE_HIT_PCT metric, you can use the pmgr utility that is available from the operating system CD-ROM.

WARNING On Tru64 UNIX systems with RAID disks, the BYDSK_UTIL and the GBL_DISK_UTIL_PEAK metric values can sometimes be 100%, even when there is no disk activity.

This is because the RAID disk arrays are designed to use the maximum IO data from the kernel architecture. The collected metric values depend on the RAID kernel module refresh interval.

Compatibility and Installation Requirements

Installation of OV Performance Agent is discussed in the manual *HP OpenView Performance Agent: Installation and Configuration Guide for AlphaServer Systems* which comes with the installation media.

The `install.txt` document in the `<directory>` directory (where `<directory>` is your CD-ROM directory) also contains more specific information on disk space requirements as well as more specific installation instructions.

With C.03.60.00 and C.03.61.00 the following NCS and DCE versions are supported:

- NCS 1.5.1
- DCERTS31x DCE Runtime Services V3.1 for Tru64 UNIX versions 4.0G, 5.0, 5.0A
- DCERTS40x and DCERTS41x DCE Runtime Services V4.0, V4.1, for Tru64 UNIX version 5.1
- DCERTS41x DCE Runtime Services V4.1.4 for Tru64 UNIX version 5.1
- DCERTS42x DCE Runtime Services V4.2 for Tru64 UNIX version 5.1A

Following is a table listing the compatibility between Tru64 UNIX operating system versions and DCE software versions.

Table 1-2 Supported Tru64 UNIX versions and DCE Runtime Services

OVPA Version	Operating System	DCE Runtime Services
C.03.60.00	4.0G	V3.1, V3.2
	5.0	V3.1, V3.2
	5.0A	V3.1, V3.2
	5.1	V4.0, V4.1
C.03.61.00	5.1	V4.1.4
	5.1A	V4.2

NOTE DCE is *not* a standard product on Tru64 UNIX. The DCE Base Services for Tru64 UNIX Package (DCERTS*) has to be purchased separately. The package is required and has to be installed only if you want to install the DCE fileset with the `-b dce` option and run your OV Performance Agent in DCE mode, or emulate NCS mode via DCE.

The `dced` daemon must be running on the system before starting the OV Performance Agent.

- If you use HP OpenView Performance Manager product to analyze the data, the following versions are required:
 - On HP-UX systems, if OV Performance Agent for AlphaServer systems is running, use version C.01.01.01 or later.
 - On Sun systems, if OV Performance Agent for AlphaServer systems is running, use version C.01.01 or later.
- HP OpenView Performance Agent Integration with HP OpenView Performance Manager Integration is accomplished through the repository server (`rep_server`) process. Repositories are initiated through the Performance Location Broker Daemon (`perflbd`). At start-up, `perflbd` reads the file `perflbd.rc`, and creates repositories for data access. Using the repositories with OV Performance Manager allows access to data without having to migrate log files to the central OV Performance Manager analysis system. The length of time it takes for all repositories to be available for access varies, depending on the number of repositories and your system load.

Related Documentation

Refer to the following documents for additional information on how to use OpenView Performance Agent.

Access the following documents in `/usr/opt/perf/paperdocs/mwa/C/`:

- *HP OpenView Performance Agent: Installation and Configuration Guide for AlphaServer Systems* - `mwainst.pdf`
- *HP OpenView Performance Agent for UNIX: User's Manual* - `mwausers.pdf`
- *HP OpenView Performance Agent for AlphaServer Systems Metric Definitions* - `metdec.txt`
- *Platform independent listing of metrics* - `mettable.txt`

- *HP OpenView Performance Agent for UNIX: Data Source Integration Guide* - mwadsi.pdf
- *Firewall Configuration Tutorial* in HTML format (also available on the web - see below)

Access the following man pages by typing `man <man page>`, such as `man extract`:

- agsysdb, dsilog, extract, mwa, ovtrap, perfstat, scopeux, sdlexpt, sdlcomp, sdlgendata, sdlutil, utility

For information relating to configuring this product in a firewalled environment, see:

- *Firewall Configuration Tutorial*, which contains the OV Performance Agent configuration guidelines, and the *Firewall white paper*, available at:

http://ovweb.external.hp.com/lpe/doc_serv/

Select OV Performance Agent for UNIX (formerly MeasureWare Agent) in the product list box and click Go.

NOTE Please check the web site periodically for the latest version of the *Firewall Configuration Tutorial*.

For information on accessing documentation on the Web, see the section “Online Documentation and Support” on page 27 in these Release Notes.

To print an ASCII text file, type:

```
lp -d<printer_name> filename
```

For example,

```
lp -dros1234 metdec.txt
```

NOTE Documentation postscript (.ps) files are no longer shipped with this product.

Software Availability in Native Languages

Localized OpenView Performance Agent is *not* available for AlphaServer systems.

Software Version Information & the File Placement Plan

Version Information

Depending on the set installed on your system, NCS fileset will be listed with an NCS suffix, and DCE fileset will be listed with a DCE suffix.

List of version strings for the major executable components of OV Performance Agent:

- NCS fileset - version strings for C.03.60.00

MeasureWare executables in the directory /usr/opt/perf/bin

scopeux	C.03.60.00	NCS	06/27/02	OSF	4.0+
perflbd	C.03.60.00	NCS	06/27/02	OSF	4.0+
alarmgen	C.03.60.00	NCS	06/27/02	OSF	4.0+
agdbserver	C.03.60.00	NCS	06/27/02	OSF	4.0+
agsysdb	C.03.60.00	NCS	06/27/02	OSF	4.0+
rep_server	C.03.60.00	NCS	06/27/02	OSF	4.0+
extract	C.03.60.00	NCS	06/27/02	OSF	4.0+
utility	C.03.60.00	NCS	06/27/02	OSF	4.0+
mwa	C.03.60.00		06/27/02		
perfstat	C.03.60.00		06/27/02		
dsilog	C.03.60.00	NCS	06/27/02	OSF	4.0+
sdlcomp	C.03.60.00	NCS	06/27/02	OSF	4.0+
sdlexpt	C.03.60.00	NCS	06/27/02	OSF	4.0+
sdlgendata	C.03.60.00	NCS	06/27/02	OSF	4.0+
sdlutil	C.03.60.00	NCS	06/27/02	OSF	4.0+

MeasureWare libraries in the directory /usr/opt/perf/lib

libmwa.so	C.03.60.00	NCS	06/27/02	OSF	4.0+
libnums.so	C.03.60.00		06/27/02	OSF	4.0+

MeasureWare metric description file in the directory /var/opt/perf

metdesc	C.03.60.00		06/27/02		
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All critical MeasureWare files are accessible

HP OpenView Performance Agent Release Notes for AlphaServer Systems
Software Version Information & the File Placement Plan

- **NCS fileset - version strings for C.03.61.00**

MeasureWare executables in the directory /usr/opt/perf/bin

scopeux	C.03.61.00	NCS	06/27/02	OSF	4.0+
perflbd	C.03.61.00	NCS	06/27/02	OSF	4.0+
alarmgen	C.03.61.00	NCS	06/27/02	OSF	4.0+
agdbserver	C.03.61.00	NCS	06/27/02	OSF	4.0+
agsysdb	C.03.61.00	NCS	06/27/02	OSF	4.0+
rep_server	C.03.61.00	NCS	06/27/02	OSF	4.0+
extract	C.03.61.00	NCS	06/27/02	OSF	4.0+
utility	C.03.61.00	NCS	06/27/02	OSF	4.0+
mwa	C.03.61.00		06/27/02		
perfstat	C.03.61.00		06/27/02		
dsilog	C.03.61.00	NCS	06/27/02	OSF	4.0+
sdlcomp	C.03.61.00	NCS	06/27/02	OSF	4.0+
sdlxpt	C.03.61.00	NCS	06/27/02	OSF	4.0+
sdlgendata	C.03.61.00	NCS	06/27/02	OSF	4.0+
sdlutil	C.03.61.00	NCS	06/27/02	OSF	4.0+

MeasureWare libraries in the directory /usr/opt/perf/lib

libmwa.so	C.03.61.00	NCS	06/27/02	OSF	4.0+
libnums.so	C.03.61.00		06/27/02	OSF	4.0+

MeasureWare metric description file in the directory /var/opt/perf

metdesc	C.03.61.00		06/27/02		
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All critical MeasureWare files are accessible

- **DCE fileset - version strings for C.03.60.00**

MeasureWare executables in the directory /usr/opt/perf/bin

scopeux	C.03.60.00	DCE	06/27/02	OSF	4.0+
perflbd	C.03.60.00	DCE	06/27/02	OSF	4.0+
alarmgen	C.03.60.00	DCE	06/27/02	OSF	4.0+
agdbserver	C.03.60.00	DCE	06/27/02	OSF	4.0+
agsysdb	C.03.60.00	DCE	06/27/02	OSF	4.0+
rep_server	C.03.60.00	DCE	06/27/02	OSF	4.0+

```
extract C.03.60.00 DCE 06/27/02 OSF 4.0+
utility C.03.60.00 DCE 06/27/02 OSF 4.0+
    mwa C.03.60.00 06/27/02
perfstat C.03.60.00 06/27/02
    dsilog C.03.60.00 DCE 06/27/02 OSF 4.0+
    sdlcomp C.03.60.00 DCE 06/27/02 OSF 4.0+
    sdlexpt C.03.60.00 DCE 06/27/02 OSF 4.0+
sdlgendata C.03.60.00 DCE 06/27/02 OSF 4.0+
    sdlutil C.03.60.00 DCE 06/27/02 OSF 4.0+
```

MeasureWare libraries in the directory /usr/opt/perf/lib

```
libmwa.so C.03.60.00 DCE 06/27/02 OSF 4.0+
libnums.so C.03.60.00 06/27/02 OSF 4.0+
```

MeasureWare metric description file in the directory /var/opt/perf

```
metdesc C.03.60.00 06/27/02
```

All critical MeasureWare files are accessible

- **DCE fileset - version strings for C.03.61.00**

MeasureWare executables in the directory /usr/opt/perf/bin

```
scopeux C.03.61.00 DCE 06/27/02 OSF 5.1+
perflbd C.03.61.00 DCE 06/27/02 OSF 5.1+
alarmgen C.03.61.00 DCE 06/27/02 OSF 5.1+
agdbserver C.03.61.00 DCE 06/27/02 OSF 5.1+
agsysdb C.03.61.00 DCE 06/27/02 OSF 5.1+
rep_server C.03.61.00 DCE 06/27/02 OSF 5.1+
    extract C.03.61.00 DCE 06/27/02 OSF 5.1+
    utility C.03.61.00 DCE 06/27/02 OSF 5.1+
        mwa C.03.61.00 06/27/02
perfstat C.03.61.00 06/27/02
    dsilog C.03.61.00 DCE 06/27/02 OSF 5.1+
    sdlcomp C.03.61.00 DCE 06/27/02 OSF 5.1+
    sdlexpt C.03.61.00 DCE 06/27/02 OSF 5.1+
sdlgendata C.03.61.00 DCE 06/27/02 OSF 5.1+
    sdlutil C.03.61.00 DCE 06/27/02 OSF 5.1+
```

HP OpenView Performance Agent Release Notes for AlphaServer Systems

Software Version Information & the File Placement Plan

MeasureWare libraries in the directory `/usr/opt/perf/lib`

`libmwa.so` C.03.61.00 DCE 06/27/02 OSF 5.1+

`libnums.so` C.03.61.00 06/27/02 OSF 5.1+

MeasureWare metric description file in the directory `/var/opt/perf`

`metdesc` C.03.61.00 06/27/02

All critical MeasureWare files are accessible

For a summary of version strings for installed performance tools, enter the command:

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

File Placement

Release Notes and install documentation:

`/usr/opt/perf/ReleaseNotes/`

Paper documents:

`/usr/opt/perf/paperdocs/mwa/C/`

Executables and scripts:

`/usr/opt/perf/bin/`

Online help files:

`/usr/opt/perf/help/mwa/C/`

Messages and catalog files:

`/usr/opt/perf/lib/nls/msg/C/`

Installation files and holding area:

`/usr/opt/perf/newconfig/`

Program libraries:

`/usr/opt/perf/lib/`

Man pages:

`/usr/opt/perf/man/`

Product configuration and status files:

`/var/opt/perf/`

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

`/var/opt/perf/datafiles`

startup and shutdown scripts:

`/etc/`

`/etc/default`

Examples:

```
/usr/opt/perf/examples/README  
/usr/opt/perf/examples/mwaconfig/parm_apps
```

Links created during installation:

```
/usr/bin/mwa is linked to /usr/opt/perf/bin/mwa  
/usr/bin/perfstat is linked to /usr/opt/perf/bin/perfstat  
/sbin/rc3.d/S73mwa is linked to /sbin/init.d/mwa
```

Online Documentation and Support

Go to the HP OpenView eCare web site to access interactive technical support tools. The same information and tools used by HP OpenView phone support experts are now available at:

<http://support.openview.hp.com>

To view the status of customer requests:

1. Go to the troubleshooting window and select search knowledge base for documents, known problems, & patches.
2. You can search for documents, known problems or patches in one of two ways:
 - a. Search by keyword by filling in the pertinent information and clicking SEARCH.OR
 - b. Search by document ID number, by selecting the document id lookup tab, entering the document ID number and clicking VIEW DOCUMENT.

To view these or archived Release Notes and other documentation:

1. Go to the using products window and select user manuals. This takes you to the HP OpenView manuals web site:
http://ovweb.external.hp.com/lpe/doc_serv/
2. Select OV Performance Agent for UNIX (formerly MeasureWare Agent) in the product list box and click Go.
You can also select MeasureWare Agent for UNIX (now known as OpenView Performance Agent).
3. To see archived versions of the OV Performance Agent documentation, select Older in the Release list box and then click Go.