

HP OpenView Performance Agent

For the Windows® Operating System

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Installation and Configuration Guide

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1 Installing or Upgrading OpenView Performance Agent

Introduction

HP OpenView Performance Agent software captures performance, resource, and transaction data from systems running Microsoft Windows. (See [Supported Architecture and Operating Systems](#) on page 10 for details on the supported Windows platform) Using minimal system resources, the software continuously collects, logs, summarizes, and time stamps data, and detects alarm conditions on current and historical data across your system. Using the Application Response Measurement (ARM) API standard, OpenView Performance Agent can log the end-to-end response times for instrumented business applications.

OV Performance supports monitoring of virtual machines hosted on VMware ESX Server 3.0.1. For more information, refer to the section titled [OV Performance Agent on a Virtual Machine](#).



Henceforth, in this document:

- OV Performance Agent or OVPA for Windows will be used to refer to MeasureWare Agent (MWA) for Windows
- OV Performance Manager (OVPM) in this document refers only to versions 4.0 and later. The name OVPM 3.x is used throughout this document to refer to the product that was formerly known as PerfView
- OV Operations will be used to refer to IT/Operations

The process names and software components will operationally remain as MeasureWare Agent (MWA).

OpenView Performance Agent includes the Extended Collection Builder and Manager, which allows access to Windows Registry performance counters. With the Extended Collection Builder and Manager, data available through the Windows registry can be collected and logged.

You can analyze the data using spreadsheet programs, Hewlett-Packard analysis products such as OV Performance Manager, or third-party analysis products. Also, OV Performance Agent provides data access to HP OpenView Performance Manager, HP OpenView Network Node Manager, and HP OpenView Operations.

OV Performance Agent uses data source integration (DSI) technology to receive, alarm on, and log data from external data sources such as applications, databases, networks, and other systems. The comprehensive data logged and stored by OV Performance Agent allows you to:

- Characterize the workloads in the environment.
- Analyze resource usage and load balance.
- Perform trend analysis on historical data to isolate and identify bottlenecks.
- Perform service-level management based on transaction response time.
- Facilitate capacity planning.
- Respond to alarm conditions.
- Solve system management problems before they arise.



If you have a factory integrated system, skip this chapter and go directly to [Chapter 2, Starting and Running OV Performance Agent](#).

Installation Requirements

Before installing OpenView Performance Agent make sure your system meets the requirements described in this section. These system and configuration prerequisites are necessary for OpenView Performance Agent to operate properly on your system.

Hardware

OpenView Performance Agent runs on Microsoft Windows systems satisfying one of the following requirements:

- Intel Pentium processor or equivalent
- Intel Itanium2
- AMD Opteron
- Intel Pentium with EM64T
- Intel Xeon with EM64T

Supported Architecture and Operating Systems

Table 1 Supported Architecture and operating system versions

Architecture	Operating System	Protocol
X86	<ul style="list-style-type: none">• Windows 2003 Standard Edition, Windows 2003 Enterprise Edition, Windows 2003 Datacenter Edition, Windows 2003 Web Edition,• Windows 2000 Datacenter Server, Windows 2000 Professional Server, Windows 2000 Advanced Server with Service Pack 4 or later• Windows XP Standard with Service Pack 1• Windows Server 2003 R2 Standard Edition, Windows Server 2003 R2 Enterprise Edition, Windows Server 2003 R2 DataCenter Edition	HTTP(S), RPC

Table 1 Supported Architecture and operating system versions

Architecture	Operating System	Protocol
X86_64, AMD 64, EM64T	<ul style="list-style-type: none">• Windows 2003 Server for x64 Editions• Windows XP Professional x64 Edition• Windows Server 2003 R2 for x64 Edition	RPC
IPF	Windows 2003 Server for Itanium-based Systems	RPC

See [Network Considerations](#) on page 13 for information on networking software requirements for OpenView Performance Agent.

Communication Protocols

OV Performance Agent supports the following communication protocols:

- HTTP(S) 1.1
- RPC

Disk Space

OpenView Performance Agent uses disk space in the following areas—program files, Control Panel applet, data files, log files, and temporary files.



For OpenView Performance Agent applications, allow for at least 50 MB of free space on the drive you specify. For OpenView Performance Agent log files, allow for at least 60 MB of free space on the drive you specify.

- Program Files - OpenView Performance Agent requires approximately 10 MB of disk space for installation of program files that are stored in the Install directory path. Some additional space is required during installation (see “Temporary files” below).
- Control Panel Applet - OpenView Performance services program and various DLLs require 2.5 MB disk space in the <\$windir\$\system32 directory.



InstallDir is the directory where OV Performance Agent will be installed. All OV Performance Agent related binaries and shared libraries can be found at locations <InstallDir>\bin and <InstallDir>\lib respectively. The default path for InstallDir is <drive>:\Program Files\HP OpenView\. DataDir is the default directory where the data files are stored. The default path is <drive>:\Program Files\HP OpenView\data.



If you have already installed any HP OpenView Products, OVPA will be installed in the same directory.

- Configuration, Status, and Log Files - Configuration, status, and log files by default are stored separately from program files. Status and configuration files are stored in the <DataDir> directory and require about 1 MB of disk space for the installation. As the status files accumulate data, this number could increase to 10 MB.

Log files are stored in the <DataDir>\datafiles directory. The amount of disk space used for log files varies significantly depending on the system workload and the amount of performance data you collect. Using the default configuration settings, you can anticipate a 60 MB maximum size to be reached between two to six months. However, if you are *not* tracking transactions, the maximum size is 50 MB. See Chapter 3 of the *OpenView Performance Agent for Windows: User's Manual* for information on how to limit and configure the data storage requirements for OpenView Performance Agent log files.

- Archived Log Files - When the OpenView Performance Agent log files reach their maximum size, the oldest data is automatically rolled out to make room for more data. See Chapter 2 of the *OpenView Performance Agent for Windows User's Manual* for more information on OpenView Performance agent automatic roll action and for strategies to effectively manage data collection.

- **Temporary Files** - The OpenView Performance Agent installation program uses about 10 MB of temporary storage in the `<$TEMP$>` directory, which is released when the installation is complete. OpenView Performance Agent also uses the `<$TEMP$>` directory during normal operation for storing temporary files during Scan, Analyze, and Status operations. The exact amount of free disk space required depends on the number and size of reports that are open at same time.

Network Considerations

OpenView Performance Agent cannot install unless TCP/IP network protocol is installed and running. You can check for this by looking for the TCP/IP Service in the Services program under Administrative Tools in the Windows Control Panel.



If you allow Dynamic Host Configuration Protocol (DHCP) server service to remain enabled, problems can occur with viewing data and receiving alarms in OV Performance Manager. Because OV Performance Manager 3.x finds a system through its IP address, a system whose IP address has changed from its original configuration in OV Performance Manager 3.x will not be found.

If you are not using a Domain Name System (DNS) name server, you must have a `HOSTS` file present on each system where OpenView Performance Agent is installed. A `HOSTS` file is a locally stored text file that maps host names to IP addresses. The `HOSTS` file should be stored in the `<$windir$>\system32\drivers\etc` directory and have the same format as the `/etc/hosts` file on a UNIX system. The `HOSTS` file should include the name of the OpenView Performance Agent system, as well as any OV Performance Manager and OV Operations system you plan to connect to in the `HOSTS` file.

Install or Upgrade Procedures

OV Performance Agent is on the CD-ROM installation media in several file sets. The size of the product is approximately 30 MB.

If you have previously installed version of OVPA or GlancePlus on the system, stop any performance tools or processes that may be running. For instructions, refer to the section, [Stopping OV Performance Agent](#). For installation instructions, refer to the section, [Installing OV Performance Agent](#).

Stopping OV Performance Agent

OV Performance Agent can be stopped from the Windows command prompt or from a batch file using the `mwacmd (mwacmd.exe)` command as described below.

```
mwacmd stop or mwacmd stop all
```

stops all OVPA services from the command prompt



If you stop the `tttd`, any ARM-instrumented applications that are running *must* also be stopped before you can restart `tttd` and OV Performance Agent process.

Installing OV Performance Agent

Log on to your Windows system as Administrator or as any user that is part of the Administrators group. You can install OV Performance Agent using one of the following two modes:

- [Attended Installation](#)
- [Unattended Installation](#)

Attended Installation

Install OpenView Performance Agent by the following installation procedure. This procedure may take several minutes to complete.

- 1 If you already have OpenView Performance Agent installed and are updating to this version, close all OpenView Performance Agent windows and programs as well as other application windows in use, including the Windows Control Panel.
- 2 Place the OpenView Performance Agent CD in the CD-ROM drive. The OpenView Performance Agent installation window opens.
- 3 Follow the instructions as they appear.



- You cannot install OpenView Performance Agent on a network drive. OpenView Performance agent must begin at startup time, before network drives are connected.
- If your system disk performance counters are turned off, you will see a message indicating that no disk metrics will be collected unless the disk performance counters are turned on. Run the command **diskperf -y** to turn on both logical and physical disk performance counters. Turning on disk performance counters takes effect only after you have rebooted your system.
- If you do not choose to start OpenView Performance Agent automatically whenever you restart your system, you must manually start OpenView Performance agent as described in [Chapter 2, Starting and Running OV Performance Agent](#).
- If you have applications running on your system that have ARM technology, your system is prompted for a restart.
- The OpenView Performance Agent setup program starts the Remote Procedure Call (RPC) services and sets them to automatically start when you restart the system (if they are not already running.)

See the OV Performance Agent Release Notes for updates to OpenView Performance Agent. The OV Performance Agent Release Notes contain information not covered in the documentation set.

Unattended Installation

To carry out unattended installation run the command `setup.exe /s` from the Windows command prompt with command line options.

To start the Unattended Installation:

- 1 Open the Windows command prompt and change to the drive where the OpenView Performance Agent `setup.exe` file is located by typing:

`<drive>:`

where *drive* is the CD-ROM drive containing the OpenView Performance Agent files.

- 2 Follow the syntax format for the command and available options as explained below:

To activate unattended installation, enter:

```
setup.exe /s[/z"-p1 <Install directory path> -p2 <Data  
directory path> -s -v "]
```

Where,

- **-p1**: used to specify the input for the Install Directory path (the default directory path is `SystemDrive\Program Files\HP OpenView`).
- **-p2**: used to specify the input for the Data Directory path (the default directory path is `SystemDrive\Program Files\HP OpenView\data`).
- **-s**: used if you want to start OVPA services immediately after installation.
- **-v**: used if you want OVPA services start-up type to be set to "Manual" instead of "Automatic".
- **/s**: used to carry out installation in unattended mode.
- **/z**: used if you want to give inputs to the installation program. Inputs should be given in between “ ”.

Installation Results

After OpenView Performance Agent files are installed in the default or designated locations, the setup program performs the following activities:

- OpenView Performance Control Panel applet is installed to control OpenView Performance Agent services. For a description of OpenView Performance Agent services, see [Chapter 2, Starting and Running OV Performance Agent](#).
- On Windows, an HP OpenView folder is added to the **Start > Programs** menu, with a submenu containing icons/commands for OpenView Performance Agent programs, online help, and the Release Notes.
- The system path variable is modified to include `<InstallDir>\bin\`.

Directory Structure

For upgraded installations, files are automatically placed in the same directories as those of the previously installed version.

Default file locations are as follows:

- Program and other files are stored in sub-directories of the `<InstallDir>\bin\` directory.
- Data files (log files and other files containing data) are stored in subdirectories of the `DataDir\` directory.

The environment variable `windir` is used to denote the Windows directory in your system. The environment variable `TEMP` is used to denote the temporary files directory stored on your Windows system.



Striped Disks - This option does not enable disk performance counters for physical drives in a striped disk set. If you want to collect data for striped disks, run **diskperf -YE** from the Windows command prompt.

Deploying OV Performance Agent Using OV Operations

If you are using HP OpenView Operations for UNIX 8.x, you can install HP OpenView Performance Agent from the management server to a Windows managed node.


For installation instructions from an HP OpenView Operations for UNIX 8.x management server, please see the chapter, HP OpenView Performance Agent, in the *HP OpenView Operations for UNIX Administrator's Reference*.

OV Performance Agent on a Virtual Machine

This version of OVPA supports monitoring of Virtual Machines (VMs) hosted on VMWare ESX Server 2.5.2 and later. For installation procedures refer to the section, [Install or Upgrade Procedures](#).

Install **VMWare Tools** on the VM. OVPA installed on a VM, hosted on VMWare ESX Server 2.5.2 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, OVPA 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*.

Removing OpenView Performance Agent

Log on to your Windows system as Administrator or as any user that is part of the Administrators group. You can uninstall OV Performance Agent using one of the following two modes on your system:

- [Attended Uninstallation](#)
- [Unattended Uninstallation](#)

Attended Uninstallation

You can uninstall OV Performance Agent using the uninstall program as follows:

- 1 Log on to your Windows system as administrator or as a user with administrative privileges.
- 2 Close the OpenView Performance Agent program, the OpenView Performance Services window, and the Windows Control Panel.
- 3 Go to **Control Panel > Add or Remove Programs**.
- 4 Select **HP OpenView Performance Agent**.
- 5 Click on **Change/Remove** to uninstall.

Unattended Uninstallation

To carry out unattended uninstallation, run `setup.exe /s /x` from the Windows command prompt with command line options.

To uninstall from the command prompt, enter:

```
setup.exe /s /x [/z"-r all"]
```

where,

- **-r**: used to specify retention of OVPA created log files.
- **-r all**: used to specify deletion of OVPA created log files.
- **/s**: used to carry out tasks in unattended mode.
- **/x**: used to carry out uninstallation.

- `/z:` used to give inputs to the installation program. Inputs should be given in between “ ”.

Removing all OpenView Performance Agent Files

By default, the uninstall program does not remove OpenView Performance Agent configuration, status, and log files. It also does not remove `<InstallDir>\bin\` from the system path variable. You can manually remove these items if you want to clean up your system. Do not remove additional files or change the path variable if any RPM Tools application (OV Performance Manager or Reporter, for example) is still installed on your system.

If OpenView Performance Agent is the last RPM Tools application to be removed during an attended uninstall, you are prompted as to whether you want to remove all files in the `<InstallDir>\bin\` and the `DataDir\` directories.

During an unattended uninstall, you can achieve the same result of removing all files within the `<InstallDir>\bin\` directory by including the `-r all` option.



After uninstallation, the OV Performance agent uninstall program may display a message stating that it was not able to remove some items. The uninstall program marks these files for deleting and removes them during the next system restart. If you get this message, restart your system before you try to reinstall OV Performance Agent.

Results of the Uninstallation

The uninstall program removes OpenView Performance Agent program files, except for `perfstat.exe`. However, if OpenView Performance Agent is the only RPM Tool installed on the system, `perfstat.exe` is also removed. The uninstall program also removes the OpenView Performance services and Windows registry entries associated with OpenView Performance Agent.

Viewing and Printing Documents

OV Performance Agent software includes the standard OV Performance Agent documentation set in viewable formats. You can view the Adobe Acrobat format (*.pdf) documents online and print as needed. The ASCII text (*.txt) documents are printable. However, you can view a text file on your screen using any text editor. The documents are listed in the following table along with their file names and online locations.

Table 2 OV Performance Agent Documentation Set

Document	File Name	Windows Location
<i>HP OpenView Performance Agent for Windows Installation & Configuration Guide</i>	ovpainst.pdf	<i>InstallDir</i> \paperdocs\ovpa\C
<i>HP OpenView Performance Agent for Windows User's Manual</i>	ovpausers.pdf	<i>InstallDir</i> \paperdocs\ovpa\C
<i>HP OpenView Performance Agent for Windows Data Source Integration Guide</i>	ovpadsi.pdf	<i>InstallDir</i> \paperdocs\ovpa\C
<i>HP OpenView Performance Agent for Windows: Tracking Your Transactions</i>	tytnt.pdf	<i>InstallDir</i> \paperdocs\ovpa\C

Table 2 OV Performance Agent Documentation Set (cont'd)

Document	File Name	Windows Location
<i>Application Response Measurement (ARM) API Guide</i>	arm2api.pdf	<i>InstallDir</i> \paperdocs\arm\C
<i>HP OpenView Performance Agent for Windows Dictionary of Operating System of Performance Metrics</i>	ovpa-metrics.pdf ovpa-metrics.txt	<i>InstallDir</i> \paperdocs\ovpa\C
<i>HP OpenView Performance Agent Windows Metric Definitions</i>	metnt.pdf	<i>InstallDir</i> \paperdocs\ovpa\C

See [Chapter 2, Starting and Running OV Performance Agent](#) for information about running OpenView Performance Agent for Windows.

Release Notes

See OV Performance Agent Release Notes for additional information that you may not find in the OpenView Performance Agent manuals and online help. The Release Notes offer a list of new features as well as explanations of fixes to previous problems and current known problems, and how to deal with them. You can read the Release Notes at the end of the installation. You can also access them after installation from the HP OpenView folder on the **Start** -> **Programs** menu.

Online Help

Refer to the OV Performance Agent Online Help, accessible from the HP OpenView program folder or from OV Performance Agent main window. Metrics Online Help is also available at the same location.

Viewing Documents on the Web

The listed documents can also be viewed on the HP OpenView Manuals web site at:

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

Select performance agent from the product list box, select the release version (which automatically selects the appropriate OS), and click **[Open]** to view the document online, or click **[Download]** to save the file to your computer.

Adobe Acrobat Files

The Adobe Acrobat files were created with Acrobat 7.0 and are viewed with the Adobe Acrobat Reader versions 4.0 and higher. If Acrobat Reader is not installed on your system, you can download it from Adobe's web site:

<http://www.adobe.com>

While viewing a document in the Acrobat Reader, you can print a single page, a group of pages, or the entire document.

2 Starting and Running OV Performance Agent

Introduction

This chapter explains the tasks involved in starting up and running OV Performance Agent after it has been installed on your Windows system.

The following topics are discussed:

- Starting and Stopping OV Performance Agent Services
- Configuring Communication Mode for OV Performance Agent
- Communicating Across Firewall
- Configuring Secure Communication
- Configuring Data Sources
- Configuration Options
- Defining Alarms
- Backup Considerations

➤ If you are planning to log data from other sources using data source integration (DSI), read the *HP OpenView Performance Agent for Windows Data Source Integration Guide*.

OV Performance Agent supports the HTTP data communication mechanism, along with RPC mode on 32-bit Windows systems. If you are installing OV Performance Agent for the first time, the default data communication mode is HTTP.

➤ On 64-bit Windows systems, only the RPC data communication mechanism is supported.

If you are upgrading OV Performance Agent 8.x, the previously used RPC data communication mode is used. If you want to move to the new HTTP mode of data communication, you can change the configuration after installation. For more information, see the section [Communicating in the HTTP Environment](#) on page 35. OV Performance Agent supports secure data communication (HTTPS) only in an HP OpenView Operations environment.

Security Restrictions

The following security-related restrictions are applicable in controlling OV Performance Agent Services:

- To start or stop OV Performance Agent Services, you must be a member of the Administrators or Power Users group.
- To refresh OV Performance Agent configuration files, you must be a member of the Administrators or Power Users group.
- To configure OV Performance Agent Services, you must be a member of the Administrators group.

Any user can view the status of OV Performance Agent Services from the Services program in the Windows Control Panel or the Services program under Administrative Tools in the Windows Control Panel.

Starting and Stopping OV Performance Agent Services

When installation is complete, you can start OV Performance Agent. OV Performance Agent can be started from the Windows GUI or command prompt.

Starting and Stopping from the Windows GUI

To start the OV Performance Agent from the Windows GUI, do the following:

- 1 To open OV Performance Agent, click **Start > Programs > OV Performance Agent**. Or Choose **Start/Stop** from the Agent menu on the OV Performance Agent main window. Or, from the Windows Control Panel, double-click **OVPA** to open the OV Performance Agent Start/Stop dialog box.
- 2 To start all OVPA services, click **Start Services**.
- 3 To stop all OVPA services, click **Stop Services**.

Starting and Stopping from Command Prompt

You can start and stop OV Performance Agent services from the Windows command prompt or from a batch file using the `ovpacmd` (`ovpacmd.exe`) command as follows:

- **`ovpacmd start` or `ovpacmd start all`**
starts all OVPA services from the command prompt.
- **`ovpacmd stop` or `ovpacmd stop all`**
stops all OVPA services from the command prompt.



The executable `mwacmd.exe` is still provided in this release for backward compatibility. The functionality is same as `ovpacmd.exe`.

Checking the Status of OV Performance Agent Services

To check the status of the OV Performance Agent Services:

- Select **OV Performance Agent > Status** OR
- Click the **Agent Status** icon from the main window OR

To check the status of OV Performance Agent services, from the command prompt run:

```
perfstat
```

Automatic Startup at System Restart

If you have not selected the installation option to automatically start OV Performance Agent Services when your system is restarted, do the following.

- 1 Select **Services** from Administrative Tools in the Control Panel.
- 2 Select **OVPA Collector**, click **Startup** and choose **Automatic** for the Startup Type.
- 3 Repeat step 2 for OVPA Agent, OVPA Transaction Manager, OVPA Extended Collector, and OVPA DSI Service.

Do not set the OVPA Measurement Interface to start automatically.

Restarting OV Performance Agent

To restart the OV Performance Agent, stop and start OVPA by following one of the steps explained in [Starting and Stopping OV Performance Agent Services](#) on page 28.

Refreshing OV Performance Agent Services

If you modify any of the OV Performance Agent configuration files (`parm.mwc`, `ttldconf.mwc`, `alarmdef.mwc`, `dsiconf.mwc`), you must refresh the corresponding service to reflect the changes made to the configuration files. To enable the **Refresh** button, select at least one Configuration Parameter from the OV Performance Agent Services dialog box.

Refreshing from the Windows GUI

- 1 From the Agent menu on the OV Performance Agent main window, choose **Start/Stop**. Or, from the Windows Control Panel, double-click **OVPA** to open the OV Performance Agent Start/Stop dialog box.
- 2 Select the Configuration Parameters you have changed.
- 3 Click the **Refresh** button. To enable the **Refresh** button, select at least one Configuration Parameter in the OV Performance Agent Services dialog box.

Refreshing from Command Prompt

Open the Windows command prompt and type:

```
ovpacmd refresh <config>
```

where *<config>* is:

- **COL** for parm.mwc
- **TRAN** for ttdconf.mwc
- **ALARM** for alarmdef.mwc
- **DSI** for dsiconf.mwc

Services Started with Different Data Communication Modes

RPC

HP OpenView Ctrl Service
OVPA Collector
OVPA Alarm Generator (only if perfalarm is used for alarming)
OVPA DSI Service
OVPA Extend Collector

HTTP

HP OpenView Ctrl Service
OVPA Collector
OVPA Alarm Generator
OVPA DSI Service
OVPA Extend Collector

RPC

OVPA Measurement Interface

OVPA Transaction Manager

OVPA Agent (starts alarmgen only if
perfalarm is not present)

HTTP

OVPA Measurement Interface

OVPA Transaction Manager

Configuring Communication Mode for OV Performance Agent

OV Performance Agent supports both HTTP and RPC mode of communication. To view the current mode, type **Ovpacmd getdatacomm**

To change the communication mode to RPC or HTTP, perform the following steps:

- 1 Stop OVPA.
- 2 Run **ovpacmd setdatacomm <mode>**, where *mode* is one of the following:
 - **HTTP** - HTTP mode of communication
 - **RPC** - RPC mode of communication
- 3 Start OVPA.

Status Checking

Several status files are created in the `DataDir` directory when OV Performance Agent is started.

You can check the status of all or some of the OV Performance Agent processes using the `perfstat` command.

The following status files contain diagnostic information that you can use to troubleshoot problems that may arise with the processes that generate the files:

```
<DataDir>\status.alarmgen  
<DataDir>\status.perflbd  
<DataDir>\status.rep_server  
<DataDir>\status.scope  
<DataDir>\status.perfalarm
```



```
<DataDir>\status.ttd  
<DataDir>\status.mi  
<DataDir>\log\coda.txt
```



Whenever an OV Performance Agent process writes a message to its file, it checks to see if the file is larger than one MB. If it is, the file is renamed to `status.filename.old` and a new status file is created.

Examples Directory

The `InstallDir\examples\` directory contains examples of configuration files, syntax files, and sample program files that you can use to customize your HP Performance Tools. For example, the `InstallDir\example\config\` subdirectory contains sample alarm definitions and examples of `parm` file application-specific parameters. For more information, see the `InstallDir\examples\README` file.

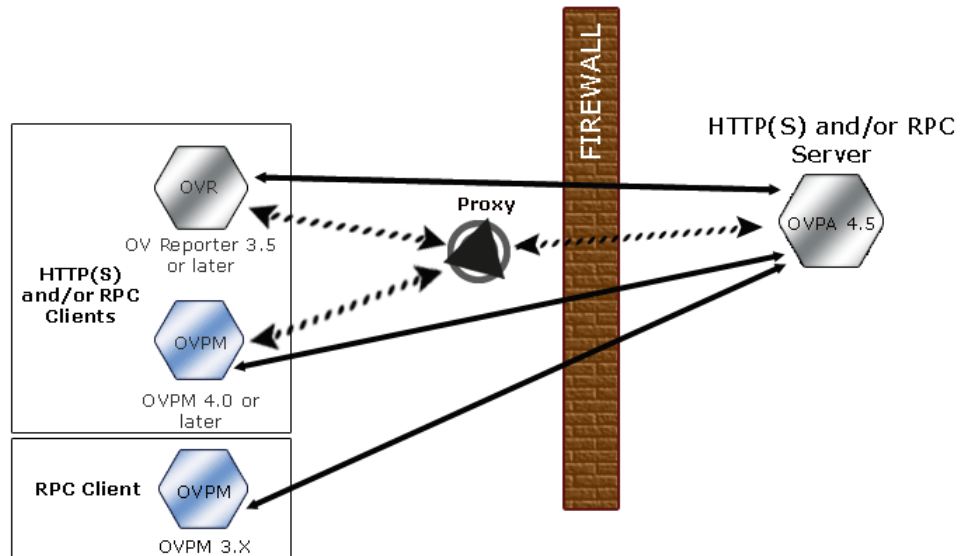
Communicating Across Firewall

In general, a firewall may be defined as a method for filtering the flow of data between two networks. OV Performance Agent (OVPA) now supports HTTP 1.1 based communications interface for data access between client and server applications, in addition to the previously supported communication mechanism through a packet-filtering network firewall. The HTTP based interface is flexible, since it can use proxies, requires fewer ports and is firewall friendly.

- OV Performance Agent supports certificate based, secure (HTTPS) data communication only in the HP OpenView Operations environment. For more information, see [Using Certificates](#) on page 43.

If a network firewall exists between two system, OV Performance Manager and OV Reporter can get data from the OV Performance Agent system.

Figure 1 Communicating with OVPA in a Firewall Environment



- The name OV Performance Manager 3.x is used throughout this document to refer to the product that is formally known as PerfView.

Communicating in the HTTP Environment

For firewall configuration it is important to know which system initiates the communication (client) and which receives communication requests (server), so that the firewall rules can be set up accordingly. In a typical remote communication, a client, using the source port, connects to a server that is listening on the destination port on a remote system. Understand your firewall environment including the client and server data flow. To configure communications with OVPA in a firewall environment, perform the following tasks:

- 1 [Configure OVPA Ports.](#)
- 2 [Configure HTTP Clients in a Firewall Environment.](#)
- 3 [Verify Firewall Configuration.](#)

[Figure 1](#) on page 34 shows how OVPA communicates with Reporter (version 3.5 or later) and OV Performance Manager (OVPM version 4.0 or later) through a firewall. OVPA is an HTTP or HTTPS server. Reporter and OVPM 4.x are HTTP clients. OVPM 5.0 can be an HTTP or HTTPS client. If an HTTP proxy is used, Reporter and OVPM communicate with OVPA through the proxy.

OVPM version 3.x uses the PerfView technology. PerfView does not use the HTTP datacomm components, but it connects to OV Performance Agent 4.5 when the DCE data communication mode is enabled.

Configure OVPA Ports

You can configure OVPA ports in a firewall environment in one of the two ways:

- [Configure Two-Port Communication](#)
- [Configure Single-Port Communication](#)
- [Verify Port Settings](#)

On an OVPA system using BBC5, by default, the BBC communication broker uses port 383 and coda uses a dynamically allocated port.

Configure Port Settings for the BBC Communication Broker

You can configure the port settings of the default port used by the BBC communication broker. Use the `ovconfchg` command to change the port settings on the OV Performance Agent system. Type the following commands:

```
— ovconfchg -ns bbc.cb.ports -set PORTS <host>:<port>
```

(Or)

```
— ovconfchg -ns bbc.cb.ports -set PORTS <domain>:<port>
```

```
Example: ovconfchg -ns bbc.cb.ports -set PORTS  
xyz.abc.com:50383
```

Restart ovpa using the following command:

```
ovpa restart server
```

Configure Two-Port Communication

By default, `coda` daemon uses a dynamically chosen second port, in addition to port 383 used by the BBC communication broker. You can configure the port settings of `coda` to listen at a well known port of your choice using the `ovconfchg` command. Type the following commands:

```
ovconfchg -ns coda.comm -set SERVER_PORT <portnumber>
```

```
ovpa restart server
```



Using a dynamic port when connecting to OVPA remotely through a firewall can be difficult, because you may not know the firewall ports to open.

Configure Single-Port Communication

On the OV Performance Agent system, the BBC communication broker uses port 383 and `coda` uses a port that is dynamically allocated. You can configure the port settings for `coda` to share the same port used by the communication broker using the `ovconfchg` command. Type the following commands:

```
ovconfchg -ns coda.comm -set SERVER_BIND_ADDR localhost
```

```
ovpa restart server
```

Verify Port Settings

To verify the port settings, type the following command:

perfstat -d

The output displays the following information:

- port number of the port used by Coda
- port number of the port used by BBC communication broker
- the port settings configured
- indicates if secure communication is enabled
- indicated if coda metric collection is enabled

For example:

```
Datacomm configuration :
-----
Coda Port                               49552 (Dynamic)
                                         Two port Communication
BBC communication broker port           383
SSL security                             NONE
Coda Metric Collection(Prospector)     Disabled
```

Configure HTTP Clients in a Firewall Environment

There are two ways to configure HTTP clients in a firewall environment:

- [Configuring HTTP Clients \(Reporter/OVPM\) with HTTP Proxy](#)
- [Configuring HTTP Clients \(Reporter/OVPM\) without HTTP Proxy](#)

In both cases, to access data from OVPA nodes, only one port needs to be opened on the HTTP server (OVPA) side.

Configuring HTTP Clients (Reporter/OVPM) with HTTP Proxy

It is recommended that you use HTTP proxies when communicating through a firewall. This simplifies the configuration by using proxies that are often already in use in your environment. The firewall must be open for exactly one

port if proxies are to be used in both directions. To access data collected by OVPA, ports for the HTTP server (OVPA) and the HTTP client (Reporter and OVPM) must be opened.



It is recommended that you do not change the default 383 port.

When an HTTP proxy is used, Reporter and/or OVPM for Windows and UNIX need to be configured to specify the proxy to be used to contact OVPA.

To configure OVPM versions 5.0 and later, and Reporter 3.7:

Type the following command,

```
ovconfchg -ns bbc.http -set PROXY proxy:port+(a)-(b)
```

The variables *a* and *b* are comma separated lists of hostnames, networks, and IP addresses that apply to the proxy. Multiple proxies may be defined for one PROXY key using the “;” or “,” delimiter. “-” before the list indicates that those entities do not use this proxy, “+” before the list indicates that those entities do use this proxy. The first matching proxy is used.

To configure Reporter versions 3.6 and earlier, and OVPM 4.x:

Edit the `/var/opt/OV/conf/BBC/default.txt` configuration file.

In the [DEFAULT] section of the `default.txt` file, locate the lines that relate to the PROXY and set the PROXY parameter as follows.

```
PROXY web-proxy.hp.com:8088-(localhost, *.hp.com) + (*)
```

In this example, the proxy `web-proxy` will be used with port 8088 for every server (*) except requests for the local machine (`localhost`) and requests internal to HP (matching `*.hp.com`, for example **`www.hp.com`**).

Configuring HTTP Clients (Reporter/OVPM) without HTTP Proxy

If HTTP proxies are not available, additional configuration settings are required on the HTTP clients (Reporter and OVPM system).

If Reporter and OVPM for Windows are installed on the same system and both access OVPA in parallel, you can specify a port range as described in this section. If they are running on different systems, you can specify a single port for each. Depending on the versions of OVPM and Reporter you are using select from the following options:

Configure OVPM 5.0 and later, and Reporter 3.7 as follows:

Type the following command,

```
ovconfchg -ns bbc.http -set CLIENT_PORT <port range>
```

Where *<port range>* is the range of ports you want to use.

For example:

```
ovconfchg -ns bbc.http -set CLIENT_PORT 14000-14003
```

Configure Reporter versions 3.6 and earlier, and OVPM 4.x as follows:

Edit the `/var/opt/OV/conf/BBC/default.txt` file as follows.

- 1 Locate the lines that apply to `CLIENT_PORT` and uncomment the line
`;CLIENT_PORT = .`

- 2 Specify the port range for the `CLIENT_PORT` parameter. For example:

```
CLIENT_PORT = <port range>
```

Where *<port range>* is the range of ports you want to use. For example:

```
CLIENT_PORT = 14000-14003
```

Verify Firewall Configuration

To verify your configuration, use the command:

```
ovcodautl -ping -n <system name>
```

This output of this command indicate the status of your communication settings.

Configuring Systems with Multiple IP Addresses

If your environment includes systems with multiple network interfaces and IP addresses and you want to use a dedicated interface for the HTTP-based communication, then you can use the parameters `CLIENT_BIND_ADDR` and `SERVER_BIND_ADDR` to specify the IP address that should be used.

- If you have multiple network interfaces and IP addresses on the OVPA (Server) system, specify the `SERVER_BIND_ADDR` parameter as follows:

```
ovconfchg -ns bbc.http -set SERVER_BIND_ADDR <IP Address>
```

- If you have multiple network interfaces and IP addresses on the OVPM 5.0 (client) system, specify the `CLIENT_BIND_ADDR` parameter as follows:

```
ovconfchg -ns bbc.http -set CLIENT_BIND_ADDR <IP Address>
```

- If you have multiple network interfaces and IP addresses on the Reporter/OVPM 4.x system, specify the `CLIENT_BIND_ADDR` parameter.

Edit the `/var/opt/OV/conf/BBC/default.txt` file as follows:

- Locate the lines that apply to `CLIENT_BIND_ADDR` and uncomment the line

```
;CLIENT_BIND_ADDR =
```

- Specify the IP address for the `CLIENT_BIND_ADDR` parameter.

Communicating in the RPC Environment

OV Performance Agent supports communication across a packet-filtering network firewall. This means that even if a network firewall exists between two systems, OV Performance Agent can send alarms to OV Performance Manager 3.x and OV Performance Manager 3.x can graph data from OV Performance Agent on a remote system. (To configure the OV Performance Manager 3.x for UNIX systems to use restricted port addresses see the *HP OpenView Performance Manager Installation Guide*).

To restrict UDP, TCP RPC ports on applications running on Windows system, do the following:

Create the following registry keys using `regedt32` as shown in the example below. The example shows configuration for restriction of port usage from 2200 through 2300.

New registry key:

```
HKEY_LOCAL_MACHINE\Software\Microsoft\Rpc\Internet
```

Add the following values:

Type	Name	Value
REG_SZ	PortsInternetAvailable	"Y"
REG_SZ	UseInternetPorts	"Y"
REG_MULTI_SZ	Ports	2200-2300

For more information, refer to MSDN article "Configuring the Windows XP/2000/NT Registry for Port Allocations and Selective Binding".

Currently, OV Performance Agent cannot restrict UDP RPC ports running on Windows on a per application basis. If you are using a packet filtering firewall based on ports, you need to open all ports greater than 1023 to communicate across the firewall.

To permit Windows nodes to access your internal network based on IP addresses not ports, do the following:

- 1 Configure the Windows node outside your firewall to use the firewall IP address as a Gateway.
- 2 Add the firewall IP address to the local or SUBNET routing table in which the Windows node resides (see Table 2).
- 3 Configure your firewall to give the Windows node access to your internal network.

How you perform these steps depends on several factors including, the security policy of the SUBNET in which the Windows node resides, the default Gateway configuration of your Windows node, and the firewall configuration of your internal network. Consult your firewall administrator or network security officer before making any changes to your environment.

Tables for Configuring the Firewall

Determining the destination and source variables for the firewall will depend on which application resides within the firewall and which operating system the application is running on.

Table 1 OV Performance Manager 3.x and later (PV) for Windows, OV Reporter (OVR) for Windows, OV Performance Agent (OVPA) for Windows

Source	#Ports / Protocol	Destination	Ports / Protocol
PV, OVR	1024-65535/UDP	MS_RPC service	135, 1024-65535/UDP
PV, OVR	382/TCP	OVPA	382/TCP

Table 1 OV Performance Manager 3.x and later (PV) for Windows, OV Reporter (OVR) for Windows, OV Performance Agent (OVPA) for Windows

Source	#Ports / Protocol	Destination	Ports / Protocol
PV, OVR	1024-65535/UDP	OVPA	1024-65535/UDP
OVPA	1024-65535/UDP	MS RPC service	135, 1024-65535/UDP
OVPA	1024-65535/UDP	OVPM	1024-65535/UDP

Table 2 OV Performance Manager 3.x and later on UNIX, OV Performance Agent (OVPA) for Windows

Source	#Ports/Protocol	Destination	Ports / Protocol
OVPM/UNIX	OVPM_RANGE/ UDP	MS RPC service	135, 1024-65535/UDP
OVPM/UNIX	382/TCP	OVPA/WIN	382/TCP
OVPM/UNIX	OVPM_RANGE/ UDP	OVPA/WIN	1024-65535/UDP
OVPA/WIN	1024-65535/UDP	DCE daemon	135,OVPM_RANGE/ UDP
OVPA/WIN	1024-65535/UDP	OVPM/UNIX	OVPM_RANGE/UDP

OVPM_RANGE is the range of ports that have been calculated for the OV Performance Manager.

Configuring Secure Communication

OV Performance Agent supports certificate based secure communication and client authentication based communication.

Using Certificates

OV Performance Agent supports certificate based secure data communication only in the HP OpenView Operations 8.x environment.

To configure secure communication on your OVO setup, refer to the *HP OpenView Operations for UNIX Firewall Concepts and Configuration Guide*. For more information on OVO 8.x HTTPS agent, refer *HP OpenView Operations HTTPS Agent Concepts and Configuration Guide*.

If you have already configured HTTPS communication in the OVO 8.x environment, make the following changes to configure secure communication between OV Performance Agent and OVPM 5.0.



OV Reporter and OVPM 4.x do not support certificate based secure communication.

On the OV Performance Agent system, set `SSL_SECURITY` to `REMOTE` for `coda`. Type the following commands:

```
ovconfchg -ns coda -set SSL_SECURITY REMOTE
ovcodutil -config
```

Using Client Authentication

OV Performance Agent enables optional authentication of client connections, for example by OV Performance Manager 3.x or OV Reporter. The authentication capability allows you to specify, for a given OV Performance Agent instance, which hosts are allowed to make client connections to that instance.

The Client Authentication feature will work to enable or disable connections from any version of the OV Performance Manager and OV Reporter clients. Your client software does not need to be updated for you to take advantage of this feature.

For authorized clients, the authentication process is transparent — their client connection proceeds as it has with previous versions of OV Performance Agent. Unauthorized clients receive a message indicating denial of service, for example:

```
Could not connect to OV Performance agent data source on host
<hostname>.
```

Enabling Authentication with the authip File

Authentication is enabled by the presence of a file called `authip`. For HTTP based communication, the `authip` file exists in the `<DataDir>\data\conf\perf` directory. For RPC based communication, the `authip` file exists in the `<disk drive>:\Program Files\hp OpenView\data\` directory. The `authip` file lists hosts from which client connections are to be permitted.

- If the `authip` file exists in the default directory, its contents determine which hosts are permitted client connections. Clients running on the same host as the OV Performance Agent instance are automatically authenticated, which means the clients do not need an entry. A zero-length `authip` file dictates that only clients running on the OV Performance Agent host can connect.
- If the `authip` file does not exist in the default directory, then no authentication is performed and any client will be allowed to connect, as was the case with prior OV Performance Agent versions.

The `authip` file is checked each time a client attempts to register for service with OV Performance Agent. OV Performance Agent does not need to be restarted for changes to the `authip` file to become effective.



An existing authorized client session can continue its current connection despite a subsequent change in the server's `authip` file that would otherwise disqualify it, until the client takes an action that requires reregistration with OV Performance Agent. To ensure the `authip` changes are enforced, you may want to stop and restart all OVPA services. If there is then an attempt to reopen the data source, the `authip` file will be reread and the connection denied.

In the case of OV Performance Manager 3.x registration for alarms, a previously authorized client will continue to receive alarms until the data source has been removed (not just closed) by the client. To add or delete

entries into the `agdb` file use the `agsysdb` utility program. Refer to *HP OpenView Performance Agent for Windows User's Manual*. Additionally, you can also use OV Performance Manager 3.x to enable or disable alarms.

The OV Performance Agent client authentication capability requires that your network be able to resolve the client entries in the `authip` file. Depending upon the nature of the entries, this may require name services such as those provided by DNS, NIS, or `<%windir%>\system32\drivers\etc\hosts` files. A good test is to make sure that you can successfully "ping" each `authip` entry from the OV Performance Agent host. Client authentication will work through a firewall, with the same proviso that the client entries in the `authip` file be pingable from the OV Performance Agent host.

Formatting the `authip` File

The `authip` file must conform to the following format:

- One client host may be listed per line.
- Client entries can be in any one of the following formats:
 - Fully qualified domain name
 - Alias
 - IP address in IPv4 dotted quad format
- A line containing a `#` in the first column is taken as a comment, and is ignored.
- Blank or zero-length lines are ignored.
- The IP address may not have leading zeros, that is, the IP address 23.10.10.10 cannot be represented as 023.10.10.10.
- Client entries may have spaces or tabs preceding them.
- Client entries on a line are terminated by spaces, tabs, new lines, or the `#` sign.

Thus, given an `<%windir%>\system32\drivers\etc\hosts` entry as follows: `123.456.789.1 testbox testbox.group1.thecompany.com` any one of the following entries in the `authip` file would enable clients from the `testbox` host to connect:

```
#===== Examples of authip file entries =====  
#  
# Use of an IP address
```

```
123.456.789.1
# Use of an alias
testbox
# Use of a fully qualified domain name
testbox.group1.thecompany.com
#===== End of examples of authip file entries =====
```



In order to use the authentication capability (aliases or hostnames in the `authip` file), the Domain Name System (DNS) on your local system has to be configured properly. For further information on how to configure your DNS, refer to the Microsoft Windows online help.

Configuring Data Sources

OV Performance Agent uses a set of repository servers that provides previously collected data to the alarm generator and the OV Performance Manager analysis product. There is a repository server for each specific data source such as scopeux log files or DSI log files. Each data source consists of a single log file set. The data source is configured in the `datasources` file that resides in the `<DataDir>\conf\perf` directory. When you first start up OV Performance Agent after installation, a default data source named SCOPE is already configured and provides a scopeux log file set.

If you want to add repository servers for other data sources, configure them in the `datasources` file. When you restart OV Performance Agent, the `perflbd` daemon looks for `perflbd.mwc` (the file that resides in `<DataDir>` directory is a link to `datasources` file), reads it, and starts a repository server for each data source it finds.

Configuring Data Sources for OV Performance Manager 3.x and OV Reporter

OV Performance Agent data is automatically configured for accessibility and alarm generation in OV Performance Manager 3.x and OV Reporter. You can configure additional data sources in the `datasources` file (or `perflbd.mwc` file) as described in Chapter 3 of the *OV Performance Agent for Windows: User's Manual* and the *OV Performance Agent for Windows: Data Source Integration Guide*. Additional data sources can include raw log files, extracted log files, or log files created with OV Performance Agent's Data Source Integration (DSI) technology or from data collections you create using the Extended Collection Builder and Manager.

IP Addresses

After you have configured an OV Performance Agent system as a data source for OV Performance Manager 3.x, avoid changing the IP address of either the OV Performance Agent system or the OV Performance Manager 3.x system.

However, if you must change the IP address of one or more systems, follow the procedure below to avoid problems.

To change the IP address of an OV Performance Agent system:

- 1 On the OV Performance Manager 3.x system, select **Manage** from the **Data Sources** menu on the OV Performance Manager 3.x dialog box.
- 2 Delete the OV Performance Agent system from the list of known systems.
- 3 Change the IP address of the OV Performance Agent system.
- 4 Add the OV Performance Agent system back as a data source to OV Performance Manager 3.x.

To change the IP address of an OV Performance Manager 3.x system, see OV Performance Manager 3.x documentation.

Configuration Options

OV Performance Agent includes default configuration files that allow you to quickly start monitoring the performance of systems across your organization. You can change the default settings to suit the conditions in your particular computing environment.

Collection Parameters File (`parm.mwc`)

By default, OV Performance Agent is set up to monitor global, process, application, transaction, and disk data with a maximum log file size of 60 MB (50 MB if you are *not* tracking transactions).

You use the `parm.mwc` file to customize various data collection parameters, such as specifying the types of data to monitor, setting up groups of processes to be monitored together as one application, and changing the maximum size of the log file. See Chapter 2 of the *OV Performance Agent for Windows User's Manual* for more information.

Transaction Configuration File (`tttdconf.mwc`)

You can monitor transaction data for applications that have been instrumented with Application Response Measurement (ARM) API calls. The `tttdconf.mwc` file allows you to define transaction and application names, performance distribution ranges, and the service level objectives to be met by each transaction. See the *OV Performance Agent for Windows: Tracking Your Transactions* manual for more information on transaction tracking.

Customized Data Collection

With the Extended Collection Builder and Manager, you can configure customized data collections of Windows registry counters. See the Extended Collection Builder and Manager Online Help for details on how to build and manage Windows registry counter collections. The Online Help is available by choosing **Extended Collections** from the Configure menu in the OV Performance Agent main window. Then click the **Help** button from the Extended Collection Builder and Manager dialog box.

Using Data Source Integration (DSI) technology, you have another means for customizing data collections. Once you have your data collection method implemented, you can feed data into OV Performance Agent using DSI. Refer to the *OV Performance Agent for Windows Data Source Integration Guide* for information about using DSI.

Defining Alarms

If you plan to use alarms to monitor performance, you need to specify the conditions that generate alarms in a set of alarm definitions in the OV Performance Agent `alarmdef` file. When OV Performance Agent is first installed, the `alarmdef` file contains a set of default alarm definitions. You can use these default definitions or customize them to suit your needs.

For detailed information about defining alarms, see Chapter 7, “Performance Alarms,” in the *HP OpenView Performance Agent for Windows User's Guide*. This chapter describes the alarm definitions syntax, how alarms work, and how alarms can be used to monitor performance.

Controlling OV Performance Agent Services from the Command Prompt

OV Performance Agent services can be started and stopped from the Windows command prompt or from a batch file using the `ovpacmd` (`ovpacmd.exe`) command as described below.

You must be a member of the Administrators or Power Users group to execute these commands.

- **ovpacmd stop**
stops the OV Performance Collector and OV Performance Agent services.
- **ovpacmd start**
starts the OV Performance Collector, OV Performance Agent, Transaction Manager, Extended Collection services.
- **ovpacmd start dsi**
starts the Data Source Integration service that allows for continual logging for data feeds configured in the `dsiconf.mwc` file.
- **ovpacmd stop dsi**
stops the Data Source Integration service that allows for continual logging for data feeds configured in the `dsiconf.mwc` file.

An example of using the command prompt would be to restart OV Performance Agent services from a batch file to refresh OV Performance Agent configuration files if you want to automatically shift to a different set of alarm definitions during off hours. Include a command in the batch file to copy an alternate `alarmdef.mwc` file into the `<InstallDir>\data` directory.

Backup Considerations

You may want to keep the following items in mind when backing up a Windows system on which OV Performance Agent is installed and running.

- You need not stop OV Performance Agent services in order to back up the system.
- If OV Performance Agent services are running at the time of the backup, the files listed below are not included in the back up. Additional files may also be excluded in the back up if the OV Performance Agent program is open. If the backup program you use has the option to back up open files, you may want to set this option so that these files will be included in the backup.

```
<InstallDir>\data\status.scope  
<InstallDir>\data\status.mi  
<InstallDir>\data\status.perflbd  
<InstallDir>\data\status.ttd  
<InstallDir>\data\status.rep_server  
<InstallDir>\data\status.alarmgen  
<InstallDir>\data\datafiles\logindx  
<InstallDir>\data\datafiles\logglob  
<InstallDir>\data\datafiles\logappl  
<InstallDir>\data\datafiles\logproc  
<InstallDir>\data\datafiles\logdev  
<InstallDir>\data\datafiles\logtran  
<InstallDir>\data\datafiles\agdb  
<InstallDir>\data\datafiles\agdb.lk  
<InstallDir>\data\datafiles\perflbd.pid
```

- If OV Performance Agent log files are backed up while OV Performance Agent is running, each raw log file (logglob, logappl, logproc, logdev, and logtran) may contain a slightly different amount of data. This situation arises because each individual file is backed up at a slightly different time. This behavior may make the data more difficult to interpret if you ever have to restore the log files from the backup tape.
- If you want to stop OV Performance Agent services prior to backing up your system, you can do so by selecting **Start/Stop** from the Agent menu of the OV Performance Agent main window. (You can also use the Windows Control Panel, Windows command prompt, or a batch file to stop OV Performance Agent services as described earlier in this chapter).

- Restart the OV Performance Agent services after the backup is complete.



Stopping and starting OV Performance Agent services causes a gap in your log files for the period while data collection is stopped.

Unattended Backups

Control OV Performance Agent services from a batch file if you want to stop OV Performance Agent prior to an unattended backup. You can then restart it automatically when the backup is finished.

A Configuring Coda

Introduction

This appendix provides a list of options to configure `coda` and the BBC communication broker `ovbbccb`, using the `ovconfchg` tool to change the configuration settings for OV Performance Agent.

DISABLE_PROSPECTOR

Use this option to specify the data collection preferences through `coda`, when both the OVO agent and OVPA are installed. The default value is `false`. The format is as follows:

```
ovconfchg -namespace coda -set DISABLE_PROSPECTOR <value>
```

- `true`: `coda` will not collect data for the Coda datasource
- `false`: `coda` will collect the data for the Coda datasource

RESPONSE_SIZE_LIMIT

Use this command to specify the maximum amount of memory allocated by the `coda` daemon for a query response. The default value is `104857600` (100 megabytes). The format is as follows:

```
ovconfchg -namespace coda -set RESPONSE_SIZE_LIMIT <value>
```



If the specified limit is exceeded the following error message appears:

```
coda_out_of_resource
```

SSL_SECURITY

Use this option to enable secure communication through `coda`. The default value is `NONE`. The format is as follows:

```
ovconfchg -namespace coda -set SSL_SECURITY <value>
```

- NONE: coda does not require SSL connections for either the local or remote clients
- REMOTE: coda requires all remote connections to use SSL
- ALL: coda requires all connections (both local and remote) to use SSL

SERVER_BIND_ADDR

Use this option to specify the bind address for the server port. The default value is `localhost`. When the value is set to `localhost`, all clients connect to `ovbbcch` and requests are forwarded by `ovbbcch` to `coda`. The format is as follows:

```
ovconfchg -namespace coda.comm -set SERVER_BIND_ADDR localhost
```

LOG_SERVER_ACCESS

You can enable or disable the access to server using this option. If this option is set to `true`, the communication broker BBC records every access to the server, providing information about the senders IP address, requested HTTP address, requested HTTP method, and response status. This value typically will not be changed.

```
ovconfchg -namespace coda.comm -set LOG_SERVER_ACCESS false
```

PROXY

Use this option to configure the proxy. The format is as follows:

```
ovconfchg -ns bbc.http -set PROXY proxy:port+(a)-(b)
```

Where, the variables *a* and *b* are comma separated lists of hostnames, networks, and IP addresses that apply to the proxy.

Multiple proxies may be defined for one PROXY key using the “;” or “,” delimiter. “-” before the list indicates that those entities do not use this proxy, “+” before the list indicates that those entities use this proxy. The first matching proxy is used.

For example:

```
ovconfchg -ns bbc.http -set PROXY srv1.abc.com:8088+*  
ovconfchg -namespace coda.comm -set SERVER_PORT 0
```

SERVER_PORT

You can configure the port settings of the default port used by the BBC communication broker. Use the `ovconfchg` tool to change the port settings on the OV Performance Agent system. Type the commands:

```
ovconfchg -ns bbc.cb.ports -set SERVER_PORT <port number>
```

```
ovconfchg -namespace coda.comm -set SERVER_PORT <port number>
```


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