HP OpenView Operations OS/400 Management

Installation Guide

Software Version: A.05.00

HP OpenView

February 2005

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The printing date and part number of the manual indicate the edition of the manual. The printing date will change when a new edition is printed. Minor changes may be made at reprint without changing the printing date. The part number of the manual will change when extensive changes are made.

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Third Edition: February 2005

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Please visit the HP OpenView web site at:

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

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Revision History

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

- Version number, which indicates the software version.
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Table 1 indicates changes made to this document since the last released edition.

Table 1: Changes to This Document

Date	Description

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Conventions

The following typographical conventions are used in this manual.

Table 1: Typographical Conventions

Font	Meaning	Example
Italic	Book or manual titles, and man page names	See the *EView/400 Management for OVO Windows* for more information.
	Provides emphasis	You *must* follow these steps.
	Specifies a variable that you must supply when entering a command	At the prompt, enter rlogin *your_name* where you supply your login name.
	Parameters to a function	The *oper_name* parameter returns an integer response.
Bold	New terms	The **monitor agent** observes...
`Computer`	Text and items on the computer screen	The system replies: Press `Enter`
	Command names	Use the `grep` command ...
	Function names	Use the `opc_connect()` function to connect...
	File and directory names	`/opt/OV/bin/OpC/`
	Process names	Check to see if opcmona is running.
	Window/dialog box names	In the `Add Logfile` window...
`Computer Bold`	Text that you must enter	At the prompt, enter **`ls -l`**
`Keycap`	Keyboard keys	Press **Return**.
[Button]	Buttons on the user interface.	Click [Operator]. Click the [Apply] button.

Font	Meaning	Example
Menu Items	A menu name followed by a colon (:) means that you select the menu, then the item. When the item is followed by an arrow (->), a cascading menu follows.	Select Actions:Utilities->Reports ...

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Documentation Map

HP OpenView Operations OS/400 Management (OV OS/400) provides a set of manuals that help you use the product and understand the concepts underlying the product. This section describes what information is available and where you can find it.

In addition to OV OS/400 documentation, related OpenView products provide a comprehensive set of manuals that help you use the products and improve your understanding of the underlying concepts.

OV OS/400 Printed Manuals

This section provides an overview of the printed manuals and their contents.

HP OpenView Operations OS/400 Management Concepts Guide

Explains OV OS/400 features, functions, architecture, and data flow. Describes OV OS/400 agent and server components, process management, SNA discovery process, network topology, and message windows.

HP OpenView Operations OS/400 Management Installation Guide

Explains how to install, de-install, and configure OV OS/400. Also includes how to upload installation files from the OVO management server, and start and stop OV OS/400. Also describes OS/400 console commands.

HP OpenView Operations OS/400 Management Administrator's Reference

Explains how to customize and use OV OS/400. Also includes detailed troubleshooting procedures and explanations of OV OS/400 system messages.

OV OS/400 Online Information

The following information is available online.

- *HP OpenView Operations OS/400 Management Concepts Guide*
- *HP OpenView Operations OS/400 Installation Guide*
- *HP OpenView Operations OS/400 Administrator's Reference*
- *HP OpenView Operations OS/400 Software Release Notes*

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Installing and De-installing OV OS/400

This chapter describes how to install and de-install HP OpenView OS/400 Management (OV OS/400).

Installation Requirements

This section describes the operating system, hardware, and software requirements for installing OV OS/400 software. To avoid problems during installation, read this section before you start the installation process.

Hardware Requirements

For detailed hardware requirements for the OVO management server and managed nodes, see the following manuals:

- OVO Management Server

  HP OpenView Operations Installation Guide for the Management Server

- OVO OS/400 Managed Node

  HP OpenView Operations Installation Guide for the Management Server

In addition to the requirements listed in these manuals, make sure that the systems you select as the OVO management server and managed node meet the disk space requirements described in Table 3-1.

Table 3-1: Additional Disk-Space Requirements

Machine	Disk Space
OVO Management Server	85 MB
OV OS/400 Managed Node	20 MB

Software Requirements

Before installing OV OS/400, make sure the following software is installed:

- **OVO Management Server**

  OVO Management Server7.0 or higher must be installed

  One of the following operating systems must be installed:

  – HP-UX 11.0 or 11.11

  – Sun Solaris 2.7 or higher

- **OVO OS/400 Managed Node**

  OS/400 V5R1 or higher must be installed

- **Java Requirements**

  Java Plug-in Version 1.4 or higher (available from http://java.sun.com/products/plugin)

- **Previous Versions**

  The installation process supports upgrading from OV OS/400 Version A.04.00.

Verifying the Software Files

Before you install OV OS/400, make sure that you are installing the correct software files.

There is one software depot bundle for OV OS/400:

- VP400

This bundle contains the following datasets required to run OVO:

VP400-CORE

Common core files:

- Software executables

VP400-CONF

Server configuration files:

- Message templates
- AS/400 node configuration files
- rc.config.d system configuration files

VP400-DOC

Documentation files:

- *OV OS/400 Administrator's Reference*
- *OV OS/400 Concepts Guide*
- *OV OS/400 Installation Guide*
- *OV OS/400 Software Release Notes*

VP400-AS400

AS/400 files:

EVREL5 OV OS/400 Production Library

Installing OV OS/400 on the Management Server

You can install the OV OS/400 software on the OVO management server with one of the following UNIX operating systems:

- HP-UX
- Sun Solaris

If you receive any warning or error messages during installation, you must resolve these problems before continuing with the installation.

About the Software Distributor

The quickest and easiest way to install the OV OS/400 software bundle is with the Software Distributor (SD). The SD installation installs the product bundle you select, verifies that OVO is installed, verifies that the database is correctly configured, and uploads the configuration into OVO.

Use the `/opt/OV/bin/ovstatus` command to verify that the ovwdb process is running prior to the installation of OV OS/400.

To Install OV OS/400 on a Management Server with HP-UX

To install the OV OS/400 software bundle on an OVO management server with HP-UX, follow these steps:

1. Login to the OVO management server as **root** user.
2. If it is not already present, create a directory to mount the CD-ROM:

   ```
   mkdir <mount_point>
   ```

   For example, you could create a cdrom directory by entering:

   ```
   mkdir /cdrom
   ```
3. Mount the CD-ROM as root user by entering the following:

   ```
   mount -r -F cdfs /dev/<cdrom_drive_name> <mount_point>
   ```

   For example, for a local CD-ROM you might enter:

   ```
   mount -r -F cdfs /dev/dsk/c0t2d0 /cdrom
   ```

   You can also run SAM and mount the CD-ROM to a specific path in the Disks and File Systems window.

4. Install the OV OS/400 software.

   Do one of the following:

   - Use the swinstall command.

   Enter the swinstall command as follows:

   ```
   swinstall -s <mount_point>/HPUX-11/VP400.A.05.00.depot VP400Eng
   ```

The swinstall command installs the OV OS/400 software bundle from the software depot and performs basic configurations. The software bundle contains all the OV OS/400 software, configuration files, and documentation.

- Use the swinstall GUI shown in Figure 1-1

To install the OV OS/400 software with the swinstall GUI, follow these steps:

a. Set the DISPLAY variable for the machine on which you want to run the swinstall GUI.

b. At the root prompt, enter the following command:

   `swinstall`

c. In the Specify Source window, select the depot type and location of the OV OS/400 depot directory in the Source Depot Path field, then click [OK].

d. Highlight the VP400 entry.

   Right-click the entry and select Mark for Install.

e. Select Actions: Install (analysis).

   The Install Analysis window appears.

f. When the analysis is completed, click `[Logfile]`.

   Scroll to the bottom of the file and ensure that you have no warnings or errors, and then click `[OK]`.

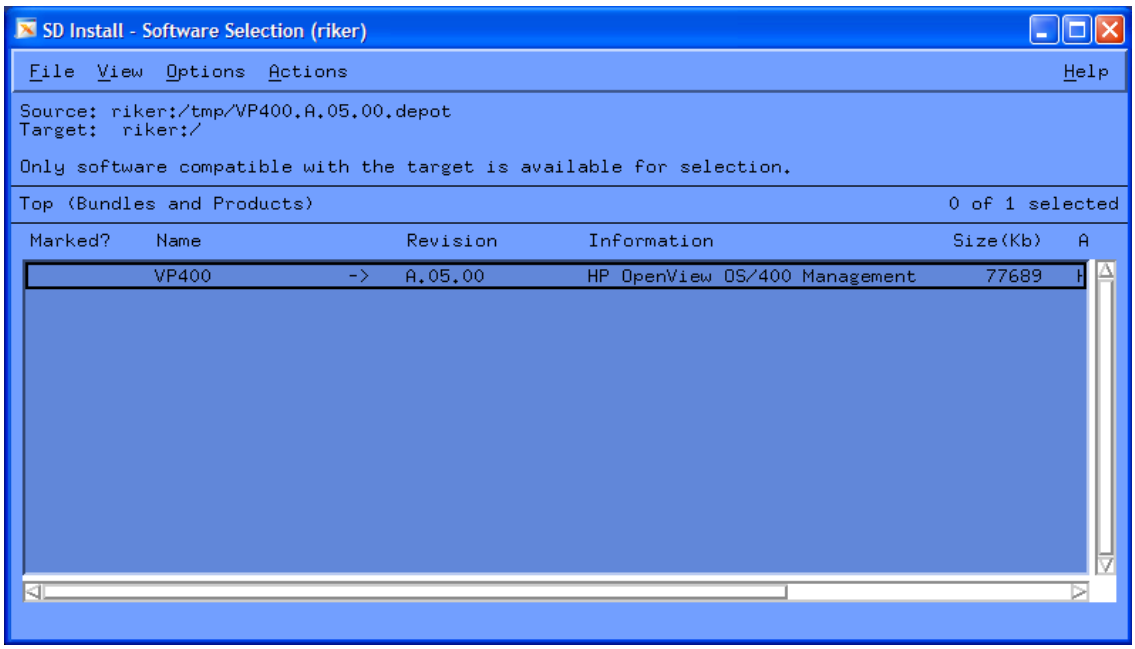
Errors must be corrected prior to continuing installation.

g. In the Install Analysis window, click `[OK]`.

   The installation process starts.

h. After the install process completes, select `File:Exit` in the SD Install Software Selection window.

Figure 3-1: Installing Software with the swinstall GUI



To Install OV OS/400 on a Management Server with Solaris

To install the OV OS/400 software bundle on a OVO management server with Solaris, follow these steps:

1. Login to the OVO management server as root user.
2. Set the language environment to variable to “C”. For example, in an sh Unix shell enter:

   ```
   LANG=C
   export LANG
   ```

3. Insert the OV OS/400 installation CD into the CD-ROM drive.

   The CD-ROM is automatically mounted on Sun Solaris systems.

4. Enter the swinstall command as follows:

   ```
   swinstall -s /cdrom/cdrom0/SOLARIS/VP400.A.05.00.depot
   VP400Eng
   ```

   The swinstall command installs the OV OS/400 software bundle from the depot and performs basic configuration. The software bundle contains all the OV OS/400 software, configuration files, and documentation.

To Verify the Installation on the Management Server

To verify that the installation of the OV OS/400 installed successfully on the OVO management server, follow these steps:

1. From the command line, enter the following:

   ```
   swlist
   ```

   Look for the following entry:

   VP400 A.05.00

2. Start the vp400elli process

   ```
   /opt/OV/bin/ovstart vp400elli
   ```

3. Verify that the vp400elli process started under OpenView.

   Enter the following command:

   ```
   /opt/OV/bin/ovstatus -c
   ```

4. Start the OVO GUI by entering the opc command:

   ```
   /opt/OV/bin/OpC/opc
   ```

5. Log in as administrator (default opc_adm).

6. Verify icons:

   a. Verify that the 400 icon is in the Node Group Bank window.

   b. Verify that the AS/400 Tools icon is in the Application Bank window.

   c. Verify that the AS400 templates are in the Message Source Templates window.

7. If any of the previous steps fail to produce the expected results, do the following:

   a. Verify the installation.

   Use the swverify command to ensure that all rules and dependencies were obeyed during the installation of the OV OS/400 software:

   ```
   swverify -x autoselect_dependencies=false VP400
   ```

   b. Check for error messages.

   Check the following log files for installation error messages:

   - /var/adm/sw/swagent.log
   - /var/adm/sw/swinstall.log

   c. Verify file locations.

   Compare the locations of the OV OS/400 files you installed on the OVO management server with those listed in Table 3-2, “File Locations on the OVO Management Server,”. The file locations should be identical.

Installed File Locations on the Management Server

The installation process copies the necessary files to the OVO management server. The directories the installation process creates for the OV OS/400 on the OVO management server are shown in Table 3-2.

Table 3-2: File Locations on the OVO Management Server

File Type	Directory
Application Registration	/etc/opt/OV/share/registration/C
Binary and Script	/opt/OV/vp400/bin
Bitmap	/etc/opt/OV/share/bitmaps/C/vp400
Configuration	/etc/opt/OV/share/conf/vp400
Icon Registration	/etc/opt/OV/share/symbols/C/VP400
AS/400 Save File	/opt/OV/vp400/as400
Temp	/var/opt/OV/share/conf/vp400
Log Files	/var/opt/OV/log/vp400
Java Class Files	/opt/OV/www/htdocs/classes/vp400

Installing OV OS/400 on the AS/400 Agent

This section explains how to start the OV OS/400 installation process on the AS/400 agent using the following steps:

- Library installation
- Running the Install Program
- Setting up parameters transfer ID for the OVO server

1. Installing the Library

Be certain that the EVIEW library is not in your library list on the AS/400 agent.

Follow these steps to load the AS/400 components of OV OS/400:

1. Sign on to the AS/400 as QSECOFR.
2. Create a temporary save file in any available library to receive the save file (EVREL5).

   ```
   CRTSAVF FILE(libname/EVREL5)
   ```

3. On the UNIX OVO server, change directory to /opt/OV/vp400/as400, then start an ftp session to the AS/400. Set the file type to binary, then change directory to the library name of the save file created in Step 2. Use the put command to place the library on the AS/400. You must add the ".SAVF" Save File attribute:

   # `cd /opt/OV/vp400/as400`

   # `ftp as400name`

   User: `qsecofr`

   Password: `****`

   ftp> `bin`

   ftp> `cd libname`

   ftp> `put EVREL5 EVREL5.SAVF`

   ftp> `quit`

4. Restore the OV OS/400 library on the AS/400 (a temporary library named EVREL5 will be created):

   ```
   RSTLIB SAVLIB(EVREL5) DEV(*SAVF) SAVF(libname/EVREL5)
   RSTLIB(EVREL5)
   ```

2. Running the Installation Program

From the AS/400 command line enter the following command to create the

OV OS/400 runtime library, EVIEW:

```
CALL EVREL5/EVINSTALL
```

(If this is an upgrade installation from OV OS/400 Version A.04.00 and a previous EVIEW library exists, EVINSTALL will save the existing EVIEW library in a savefile named EVIEW4SAVE in the QGPL library. The EVINSTALL program will keep any message queue and message ID filter definitions that were previously defined and convert them for use with Version A.05.00.)

3. Setting up Parameter Transfer ID for the OVO server

The startup parameters for the agent subsystem are modified on the OVO server and then sent to the AS/400 agent via ftp. Set up or identify an AS/400 user ID with the authority to store and retrieve files from the EVIEW library.

This concludes the installation of the OV OS/400 software on the AS/400 agent. Continue with the *OV OS/400 Administrator's Reference* for information on setting up the configuration parameters for the agent and starting the server processes and the agent subsystem.

De-installing OV OS/400

This section describes how to remove OV OS/400 software from the following:

- OVO GUI
- OVO Management Server
- OVO Managed Nodes

To Remove OV OS/400 Components from the OVO GUI

You must manually remove OV OS/400 components from the OVO GUI.

To remove OV OS/400 components from the OVO GUI, follow these steps:

1. If AS/400 resources have been discovered, the AS/400 resources should be deleted prior to removing the OV OS/400 software. To delete the resources:
   - Open the root map.
   - Open the AS/400 Tools application group.
   - Drag the AS/400 icon on to the Delete Objects application.
   - Open all user maps that are not currently open to allow the complete removal of AS/400 objects from the OpenView object database.
2. From the Node Bank window, click each defined AS/400 node and select `Actions:Node->Delete`
3. Remove the 400 node group.
4. Remove the AS/400 Tools applications and application group.
5. Remove the AS400 templates from Message Source Templates, then re-distribute the remaining templates to the OVO management server node using the following menu sequence:

   ```
   Actions:Agents->Install/Update SW & Config...
   ```
6. Remove the vp400_adm and vp400_op user profiles.
7. Stop the vp400elli process running under OpenView:

   ```
   /opt/OV/bin/ovstop vp400elli
   ```
8. Delete any configuration files for any AS/400 nodes discovered:

   ```
   cd /etc/opt/OV/share/conf/vp400
   rm ev400_config_*
   ```

For more information about removing elements from the OVO GUI, see the *HP OpenView Operations Administrator's Reference.*

To Remove OV OS/400 from the OVO Management Server with HP-UX

To remove the OV OS/400 components from the OVO management server and complete the general clean up process, follow these steps:

1. Enter the following command:

   swremove

2. Select VP400 from the software select list.

To Remove OV OS/400 from the OVO Management Server with Solaris:

To remove the OV OS/400 components from the OVO management server and complete the general cleanup process, enter the following command:

swremove VP400

To Remove OV OS/400 from the OVO Managed Nodes

To remove OV OS/400 from the managed nodes, follow these steps:

1. Stop the OV OS/400 subsystem using the command:

   ```
   ENDSBS EVSBS *IMMED
   ```

2. Enter the following commands to delete the OV OS/400 EVIEW library from the AS/400:

   ```
   CLROUTQ EVIEW/EVCMD
   CLROUTQ EVIEW/EVTRACE
   CLROUTQ EVIEW/EVHSTOQ
   DLTLIB LIB(EVIEW)
   ```

   Enter the following command to delete the EVUSER user profile:

   ```
   DLTUSRPRF USRPRF(EVUSER)
   ```

Glossary

central processing unit

See CPU.

CPU central processing unit. Part of computer with circuits that control the interpretation and execution of instructions.

DASD

Direct Access Storage Device. Also known as “disk pack” or “disk drive.” Device in which access time is effectively independent of the data location.

Data Queue

An AS/400 system object that holds data in which a program writes to read from in FIFO order.

disk drive

See DASD.

disk pack

See DASD.

domain

An AS/400, along with all of its lines, controllers and devices.

Export

The command used to set environment variable in ksh shell.

GUI

Graphical user interface.

HP OpenView Windows

See OVW.

IP

Internet Protocol

IPA

Internet address the internet protocol routes data to.

Initial Program Loader

See IPL.

IPL

Initial Program Loader. Also know as “system restart” or “system startup.” 1. Initialization procedure that causes an operating system to begin operation. 2. Process by which a configuration image is loaded into storage at the beginning of a workday or after a system malfunction. 3. Process of loading system programs and preparing a system to run jobs.

Legacy Link Interface

See LLI.

LLI

Legacy Link Interface. OVO option that allows external processes to connect to OVO action and message managers.

Mapping

A list usually in a profile that establishes a correspondence between items in two groups.

Message Queue

A data queue that holds messages from a specific area of the AS/400. For example QSYSOPR is the message queue for the operating system.

Motif

A set of guidelines that specifies how a user interface for graphical computers should appear on the screen and how the user interacts with it.

Network Node Manager

See NNM.

NNM

Network Node Manager. Comprehensive network management solution that discovers network devices, and provides a map to illustrate the structure of the network and the status of devices and segments. When a major device fails, the event correlation engine evaluates the event stream to pinpoint the root cause of the failure. The manager also helps identify potential trouble spots before a failure occurs.

Node

See Domain.

OpenView NNM

See NNM.

OpenView Windows

See OVW.

OVW OpenView Windows. Customizable OpenView network management GUI.

Port

An access point for data entry and exit.

Server

1. In general, a functional unit that provides shared services or facilities to workstations over a network (for example, a file server, a print server, or a mail server). 2. In the UNIX operating system, an application program that usually runs in the background and is controlled by the system program controller.

setenv

The command used to set environment variables in C shell.

SNA

System Network Architecture. Network architecture that enables the reliable transfer of data among end users, and provides protocols for controlling the resources of various network configurations.

system restart

See IPL.

system startup

See IPL.

TCP

Transmission Control Protocol. Communications protocol used in the Internet and in any network that follows the U.S. Department of Defense standards for inter-network protocol. This protocol provides reliable host-to-host communication between hosts in packet-switched communications networks and in interconnected systems of such networks. It assumes that the Internet protocol is the underlying protocol.

See also TCP/IP.

TCP/IP

Transmission Control Protocol/Internet Protocol. Set of communication protocols that support peer-to-peer connectivity functions for both local and wide area networks.

See also TCP.

Transmission Control Protocol

See TCP.

Transmission Control Protocol/Internet Protocol

See TCP/IP.