## HP OpenView Smart Plug-in for UNIX® Operating Systems

## **Installation Guide**

Version: A.02.50

For HP-UX and Solaris OpenView Operations Management Servers



Manufacturing Part Number: None September 2003

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## Support

Please visit the HP OpenView web site at:

```
http://openview.hp.com/
```

There you will find contact information and details about the products, services, and support that HP OpenView offers.

The support area of the HP OpenView web site includes:

- Downloadable documentation
- Troubleshooting information
- Patches and updates
- Problem reporting
- Training information
- Support program information

## 1 OSSPI Requirements

This chapter lists the software and hardware prerequisites that you must fulfil for the management server and managed nodes, before you install the Smart Plug-in for UNIX Operating Systems, A.02.50.

### **Supported Software**

The OSSPI integrates with existing OVO installations and consists of components for the OVO management server and the OVO managed nodes (agents). Table 1-1, Supported OVO Management Server Software, shows which OVO management server platforms and which operating systems are supported by the OSSPI. Please ensure that you install the OSSPI software *only* on systems running those versions of the operating system and the OVO software indicated.

Platform	Operating System	OVO 6.00	OVO 7.10
HP-UX	10.20	1	1
	11.00	1	1
	11.11	1	1
Solaris	2.6	1	1
	7.0	1	1
	8.0	1	1

 Table 1-1
 Supported OVO Management Server Software

Table 1-2, Supported OVO Agent Software, shows which versions of the OVO managed-node platforms and which operating systems are supported by the OSSPI.

Table 1-2Supported OVO Agent Software

Platform	Operating System	OVO 6.00	OVO 7.10
AIX <sup>a</sup>	4.3.x	1	1
	$5.1~5\mathrm{L}$	1	1
	5.2	1	1

Table 1-2	Supported OVO Agent Software (Continued)
-----------	------------------------------------------

Platform	Operating System	OVO 6.00	OVO 7.10
Debian Linux	2.2 (Kernel 2.2)	1	1
	3.0 (Kernel 2.2)	1	1
	3.0 R 1(Kernel 2.4)	1	1
HP-UX	10.20	1	1
	11.00	1	1
	11i <sup>b</sup>	1	1
	11.22		1
Red Hat Linux	7.0 <sup>c</sup>	1	1
	7.1 (Kernel 2.4)	1	1
	7.1 (Kernel 2.4)	1	1
	7.3 (Kernel 2.4)	1	1
	8.0 (Kernel 2.4)	1	1
SuSE Linux	6.4 (Kernel 2.2)	1	1
	7.0 (Kernel 2.2)	1	1
	7.1 (Kernel 2.4)	1	1
	7.2 (Kernel 2.4)	1	1
	7.3 (Kernel 2.4)	1	1
	8.0 (Kernel 2.4)	1	1
	8.1 (Kernel 2.4)	1	1

Platform	Operating System	OVO 6.00	OVO 7.10
Solaris	2.6	1	1
	7.0	1	1
	8.0	1	1
	9.0	1	1
Tru64	4.0F	1	1
	4.0G	1	1
	5.0A	1	1
	5.1	1	1
	5.1 A	1	1
Turbo Linux	6.5 (Japanese only)	1	1
	7.0 (Japanese only)	1	1

 Table 1-2
 Supported OVO Agent Software (Continued)

a. 32 and 64 bit

b. Although it is planned to use HP-UX 11i to describe a whole family of HP-UX 11.x releases, today HP-UX 11i is commonly used as a synonym for HP-UX 11.11

c. Kernel 2.2

## **Performance Tools**

#### Table 1-3 Supported OV Performance Tools

DI - 46	Performance Tools			
Platform	Coda <sup>a</sup>	OVPA <sup>b</sup>	GlancePlus <sup>c</sup>	NP <sup>d</sup>
AIX	1	C.3.80	C.3.80	1
HP-UX	1	C.3.70	C.3.70	1
Linux	1	C.4.0	C.4.0	1
Solaris	1	C.3.75	C.3.75	1
Tru64	1	C.3.60	C.3.60	1

a. OVO Embedded Performance Component

b. OpenView Performance (formerly MeasureWare)

c. HP OpenView GlancePlus

d. No Performance Tool

## **Disk-Space Requirements**

Table 1-4 lists the disk space requirements for the both the installation of the OSSPI software and the OSSPI's run-time files on the OVO management server.

ovo	Operating System	Files (MB)	
Version		Install <sup>a</sup>	Runtime
6.00	HP-UX 10.20, 11.00	17	2
	Solaris 2.6, 7, 8	17	2
7.00 and 7.10	HP-UX 10.20, 11.00 11i <sup>b</sup>	17	2
1.10	Solaris 7, 8	17	2

Table 1-4Disk-Space Requirements: OVO ManagementServer

a. Does not include documentation (+5MB)

b. Although it is planned to use HP-UX 11i to describe a whole family of HP-UX 11.x releases, today HP-UX 11i is commonly used as a synonym for HP-UX 11.11

Table 1-5 lists the disk space requirements for the both the installation of the OSSPI software and the OSSPI's run-time files on the OVO managed nodes.

Table 1-5Disk-Space Requirements: OVO Managed<br/>Node

Operating System	Files (MB)	
Operating System	Install	Runtime
AIX 4.3.x, 5.1	n/a	1
HP-UX 11.11	n/a	1
Linux	n/a	1

## Table 1-5Disk-Space Requirements: OVO Managed<br/>Node (Continued)

Operating System	Files (MB)	
Operating System	Install	Runtime
Solaris	n/a	1
Tru64	n/a	1

**OSSPI** Requirements

## 2 Upgrading the OSSPI

You can use three scenarios to upgrade the OSSPI :

1. If you do not wish to remove the previous versions of the OSSPI templates, you can simply install the latest version of the OSSPI. However, to avoid duplication of messages, you may want to remove the old template groups since the new template groups may contain some of the templates which are present in the old template groups.

To install the latest version of the templates and OSSPI software without removing the previous version of the templates, refer to "Installing the OSSPI" on page 23.

- 2. If you wish to remove the previous versions of the templates before installing the new version of the OSSPI, do the following:
  - a. Remove the existing templates. Refer to "Removing the Existing OSSPI Templates" on page 19.
  - b. Install the latest templates and OSSPI software. Refer to "Installing the OSSPI" on page 23.
- 3. If you have customized any of the OSSPI templates and want to customize the new templates in the same fashion, do the following:
  - a. Copy the existing OSSPI templates. Refer to "Copying Your Customized OSSPI Templates" on page 17.
  - b. Download the existing OSSPI templates. Refer to "Downloading Your Customized OSSPI Templates" on page 18.
  - c. Remove the existing OSSPI templates. Refer to "Removing the Existing OSSPI Templates" on page 19.
  - d. Upload the existing OSSPI templates. Refer to "Uploading Your Customized Templates" on page 21.
  - e. Install the latest templates and OSSPI software. Refer to "Installing the OSSPI" on page 23.
  - f. Reference the uploaded templates to customize the new templates.

### **Copying Your Customized OSSPI Templates**

Use the OVO GUI to copy your customized OSSPI templates:

- Step 1. Open the Message Source Templates window.
- **Step 2.** Select the template or template group that has been customized and click **copy**.
- **Step 3.** Modify the template or template group name. Be sure you choose a unique name (for example, append "\_existing" to the end of each name).
- Step 4. Click OK.

## Downloading Your Customized OSSPI Templates

Use the OVO GUI to download your customized OSSPI templates:

- Step 1. Select Actions:Server > Download Configuration from the menu bar.
- **Step 2.** Modify the Download Path/Name to /tmp or another directory name. This directory name is used when you upload the templates.
- Step 3. Select Templates.
- **Step 4.** In the left-hand pane of the Select Templates to Download window shown in Figure 2-1, select the templates or template groups you want to download and click [->] to move them to the right-hand pane. If you are downloading a template group, click [Select All Contained Templates].

#### Figure 2-1 Select Templates to Download

	Select Ter	nplates to Dow	nload	· 🗆
All Templates				
Selected Templates				
Non Selected Templates		1	Selected Lemplates	
Name	Description		Name	Description
SINIX	Templates for 🎴		SPI for OS AIX	HP OpenView SPI
SMS (Windows NT)	Templates for		SPI for OS HP-UX	HP OpenView SPI
SSP	Templates for		SPI for OS Linux	HP OpenView SPI
Solaris	Templates for		SPI for OS Solaris	HP OpenView SPI
Terminal Server	Templates for 😑		SPI for OS Tru64 UNIX	HP OpenView SPI
Terminal Server/MetaFrame	Templates for			
Windows 2000	Templates for	~~~~		
Windows NT	Templates for			
MPE/iX Console Msgs	default config			
OSSPI-Discovery_1	Discovery rela			
OSSPI-FilesystemMsg_2	Messages from			
			Select All Contain	ned Templates
		J		
OK Cancel				Help



## **Removing the Existing OSSPI Templates**

To remove the previous versions of the OSSPI templates before installing the new version of the OSSPI, do the following:

Step 1. From the OVO GUI, *de-assign* the old OSSPI templates from *all* of the OSSPI managed node groups containing nodes that you want to upgrade. To de-assign templates from a managed node group, remove the old OSSPI templates from the template-assignment list and re-distribute the templates. Select Actions: Agents -> Assign Templates.

#### Figure 2-2De-assigning Templates

	-		Define Configuration	• 🗆
	Node/Group	Template	•	
	mig.india.hp.com	Group	Management Server Add	
	stego.india.hp.com	Message	opcmsg(1 3)	
	NG OSSPI-AIX	Message	OSSPI-Discovery_1 Bemove selected	
	NG OSSPI-AIX	Group	OSSPI_AIX_Coda_1	
	NG OSSPI-Discovery	Message	OSSPI-Discovery_1 Bemove nodes/groups	
	NG OSSPI-HPUX	Message	OSSPI-Discovery_1	
	NG OSSPI-HPUX	Group	OSSPI_HPUX_Coda_1 Bemove templates	
	NG OSSPI-Linux	Message	OSSPI-Discovery_1	
	NG OSSPI-Linux	Group	OSSPI_Linux_Coda_1	
	NG OSSPI-Removal	Monitor	OSSPI-alarmdef_write_	
	NG OSSPI-Solaris	Message	OSSPI-Discovery_1	
	NG OSSPI-Solaris	Group	OSSPI_SOL_Coda_1	
	NG OSSPI-Tru64	Message	OSSPI-Discovery_1	
	NG OSSPI-Tru64	Group	OSSPI_Tru64_Coda_1	
	<			
Ľ				
	sort by nodes/groups			
	🔿 sort by templates			
F				
	OK Cancel		He	p

- **Step 2.** Remove the OSSPI templates from the managed nodes and OVO management server.
- Step 3. To remove the OSSPI templates, select Remove Selected
- **Step 4.** Remove the OSSPI template groups.
- **Step 5.** Run the Clean Node application on the managed nodes.
- Step 6. Run the Clean Server application on the OVO management server.

**Step 7.** Remove the old version of the OSSPI software from the management server. Enter:

**swremove SPI-OSUX-OVO-HP** or (HP-UX management server)

**swremove SPI-OSUX-OVO-SOL** (Solaris management server)

- **Step 8.** Install the new version of the OSSPI as described in "Installing the OSSPI" on page 23.
- **Step 9.** Please refer to Chapter 2, Getting Started of the *HP OpenView Smart Plug-in for UNIX Operating Systems: Administrator's Reference* for information on how to distribute the templates.

## **Uploading Your Customized Templates**

To upload your customized templates, do the following:

**Step 1.** From the command line, type:

#### opccfgupld -add -subentity /tmp

where /tmp is the name of the directory you chose in step 2 from "Downloading Your Customized OSSPI Templates" on page 18.

Upgrading the OSSPI Uploading Your Customized Templates

## 3 Installing the OSSPI

To install the Smart Plug-in for UNIX Operating Systems software bundle on the OVO management server, do the following:

**Step 1.** Log on to the OVO management server as **root** user.

- **Step 2.** Mount the HP OpenView Smart Plug-in CD-ROM. Use the CD that contains the management server installation packages (HP OpenView Smart Plug-ins for OVO/UNIX). Refer to the HP OpenView Smart Plug-ins for OVO/UNIX Release Notes for more information.
- **Step 3.** Use swinstall to install the OSSPI fileset. Refer to the *HP OpenViewSmart Plug-ins for OVO/UNIX Release Notes* for more information about product locations and valid platform names.

#### HP-UX (not part of an MC/ServiceGuard cluster)

On an HP-UX system, use the swinstall graphical user interface:

1. Type the following: /usr/sbin/swinstall -s\ /<mount\_point>/OV\_DEPOT/<platform>.sdtape

The SD Install - Software Selection window appears.

- 2. Highlight SPI-OSUX-OVO-HP.
- 3. Select Actions: Mark for Install from the menu bar.
- 4. Select Actions: Install (Analysis) from the menu bar.
- 5. Verify that the analysis phase of the installation completes without errors by clicking on Logfile. This displays the /var/adm/sw/swagent.log log file. Correct any errors that appear.
- 6. Click on **OK** to continue with the installation.
- 7. Exit swinstall after the installation completes.
- Or on an HP-UX system, use the command line:
  - 1. Type the following: /usr/sbin/swinstall -s\ /<mount\_point>/OV\_DEPOT/<platform>.sdtape SPI-OSUX-OVO-HP
  - 2. Check the /var/adm/sw/swagent.log log file and correct any errors that appear.

#### HP-UX (part of an MC/ServiceGuard cluster)

On the *active* node in the MC/ServiceGuard Cluster (the node on which the OVO management server is running), use the command line:

- 1. Type the following: /usr/sbin/swinstall -s\ /<mount\_point>/OV\_DEPOT/<platform>.sdtape\ SPI-OSUX-OVO-HP
- 2. Check the /var/adm/sw/swagent.log log file for any errors.

On each of the *inactive* nodes in the MC/ServiceGuard Cluster (the nodes on which the OVO management server is *not* running), use the command line:

- 1. Type the following: /usr/sbin/swinstall -s\ /<mount\_point>/OV\_DEPOT/<platform>.sdtape\s SPI-OSUX-OVO-HP.SPI-OS-SRV-HP
- 2. Check the /var/adm/sw/swagent.log log file and correct any errors that appear.

Please refer to Appendix A, About MC/ServiceGuard of the *HP OpenView* VantagePoint Operations Administrator's Reference for information on MC/ServiceGuard.

#### Solaris

On a Solaris system, use the command line:

1. Type the following: /usr/sbin/swinstall -s\ /<mount\_point>/OV\_DEPOT/SOLARIS.sdtape SPI-OSUX-OVO-SOL

The swinstall application is installed with OVO (swinstall is also referred to as SD or Software Distributor).

2. Check the /var/adm/sw/swagent.log log file for any errors.

Installing the OSSPI

## 4 Verifying Installation of the OSSPI

This chapter provides information that is designed to help you verify the installation of the OSSPI software. You can find information on the

following topics:

- "Software Bundles" on page 29
- "Verifying Installation of the OSSPI Software" on page 31
- "Installed File Locations" on page 33

### **Software Bundles**

The following tables list the bundles, products, and filesets that make up the OSSPI and explain what the contents are. Table 4-1 shows the contents of the Smart Plug-in for UNIX Operating Systems software depot (SD) file set.

Table 4-1The OSSPI Software Depot (SD)

Software Depot	Description
SPI-OSUX-OVO-HP	OSSPI server software – contains everything necessary to run the OSSPI for HPUX (executables, shell scripts, etc.)
SPI-OSUX-OVO-SOL	OSSPI server software – contains everything necessary to run the OSSPI for Solaris (executables, shell scripts, etc.)

Table 4-2 describes the contents of the Smart Plug-in for UNIX Operating Systems server and agent filesets.

#### Table 4-2The OSSPI Server and Agent File Sets

SD File Set	Description	
SPI-OS-AGT-AIX	OSSPI agent files for AIX	
SPI-OS-CORE	Core OSSPI agent files	
SPI-OS-AGT-HP	OSSPI agent files for HP-UX	
SPI-OS-AGT-LNX	OSSPI agent files for Linux	
SPI-OS-AGT-SOL	OSSPI agent files for Solaris	
SPI-OS-AGT-Tru64	OSSPI agent files for Tru64	
SPI-OS-SRV-HP <sup>a</sup>	OSSPI management server files for HP-UX	
SPI-OS-SRV-SOL <sup>b</sup>	OSSPI management server files for Solaris	
SPI-OS-DOC	OSSPI documentation	

a. present only in OS HP-UX package (SPI-OSUX-OVO-HP) b. present only in OS Solaris package (SPI-OSUX-OVO-SOL)

### Verifying Installation of the OSSPI Software

To verify that the installation of the Smart Plug-in for UNIX Operating Systems completed successfully on the OVO management server, carry out the steps in the following list:

1. On the command line, enter: **swlist**, and look for one of the following entries in the output displayed

SPI-OSUX-OVO-HP A.02.50 or

SPI-OSUX-OVO-SOL A.02.50

2. In the OVO GUI, check that the following elements have been added to the respective windows:

Application Groups:	OSSPI, containing:
	• OSSPI_Admin
	• UN*X_Admin
	• UN*X_Oper
Message Groups:	OSSPI-FS
	OSSPI-Internal
	OSSPI-Kernel
	OSSPI-Services
Message-Source Templates:	SPI for OS AIX
	SPI for OS HPUX
	SPI for OS Linux
	SPI for OS Solaris
	SPI for OS Tru64 Unix
Node Groups:	OSSPI-AIX
	OSSPI-Discovery
	OSSPI-HPUX
	OSSPI-Linux
	OSSPI-Removal

User Profiles:

OSSPI-Solaris OSSPI-Tru64 AIX-admin AIX-operator HPUX-admin HPUX-operator Linux-admin Linux-operator Solaris-admin Solaris-operator Tru64-admin

3. If any of these steps fails to produce the desired results, use the swverify command to ensure that all rules and dependencies were applied during the installation of the OSSPI software. Enter:

#### swverify -x autoselect\_dependencies=false SPI-OSUX-OVO-HP

- a. Check the following log files for more specific information relating to installation problems:
  - /var/adm/sw/swagent.log
  - /var/adm/sw/swinstall.log
- b. Check your installation with the details in Table 4-3, "OSSPI File Locations on the OVO Management Server," on page 33.

## **Installed File Locations**

The installation process copies the necessary files to the OVO management server. Table 4-3 shows the directories that the installation process creates on the OVO management server for the OSSPI server.

#### Table 4-3

#### **OSSPI File Locations on the OVO Management Server**

File Type	Directory Location	
Binaries	/opt/OV/osspi/bin/	
Documentation	/opt/OV/osspi/doc/	
Log files	/var/opt/OV/share/osspi/log/	
Temporary and Runtime	/var/opt/OV/share/osspi/tmp/	
OVO integration - AIX: - Core: - HP-UX: - Linux: - Solaris: - Tru64: - Bitmaps:	<pre>/var/opt/OV/share/tmp/OpC_appl/ /var/lpp/OV/share/tmp/OpC_appl/osspi_AIX /var/opt/OV/share/tmp/OpC_appl/osspi_CORE /var/opt/OV/share/tmp/OpC_appl/osspi_HPUX /var/opt/OV/share/tmp/OpC_appl/osspi_SOLARIS /var/opt/OV/share/tmp/OpC_appl/osspi_TRU64 /etc/opt/OV/share/symbols/C/OSSPI</pre>	

Table 4-4 on page 33 shows the directory locations for the installed OSSPI files on an OVO managed node. These are the standard locations for OVO commands, actions, and monitors.

#### Table 4-4 OSSPI File Locations for the OVO Managed Node

File Type	Operating System	Directory Location
Binaries	AIX	/usr/lpp/OV/bin/OpC/
	HP-UX, Linux, Solaris, Tru64	/var/opt/OV/bin/OpC/

File Type	Operating System	Directory Location
Default Configuration	AIX	/etc/lpp/OV/osspi/conf/
	HP-UX, Linux, Solaris, Tru64	/etc/opt/OV/osspi/conf/
Configuration	AIX	/usr/lpp/OV/osspi/conf/
& Discovery	HP-UX, Linux, Solaris, Tru64	/var/opt/OV/osspi/conf/
Logs	AIX	/var/lpp/OV/osspi/log/
	HP-UX, Linux, Solaris, Tru64	/var/opt/OV/osspi/log/
Temporary &	AIX	/var/lpp/OV/osspi/tmp/
Runtime	HP-UX, Linux, Solaris, Tru64	/var/opt/OV/osspi/tmp/

#### Table 4-4 OSSPI File Locations for the OVO Managed Node (Continued)

## 5 Uninstalling the OSSPI

This chapter describes how to remove the OSSPI software from the OVO managed node and the OVO management server.

### In this Section

This section describes how to remove the OSSPI software quickly and cleanly. The information provided in this section covers the following areas:

- "Removing the OSSPI from the Managed Node" on page 37
- "Removing the OSSPI from the Management Server" on page 39

### **Removing the OSSPI from the Managed Node**

To remove the OSSPI software from the OVO managed node, you should carry out the following steps in the order specified:

1. In the OVO GUI, *de-assign* the OSSPI templates from *all* those OSSPI managed nodes from which you want to uninstall the OSSPI software by moving the nodes (not copying them) from the OSSPI-AIX, OSSPI-HPUX, OSSPI-Linux, OSSPI-Solaris, or OSSPI-Tru64 Node Group in which they reside to the OSSPI-Removal Node Group. This includes the OVO management server if it is also a managed node and you want to uninstall the OSSPI software.

The OSSPI-Removal Node Group has only the monitor template OSSPI-alarmdef\_write\_1 assigned to it.

- 2. Use the OVO GUI to *distribute* the OSSPI-alarmdef\_write\_1 template to the OSSPI-Removal Node Group. This de-activates and removes any remaining OSSPI template definitions from the managed nodes present in the OSSPI-Removal Node Group and, in addition, de-activates any alarm definitions.
- **NOTE** This step should be carried out regardless of whether OV Performance or GlancePlus is running on the managed nodes.
  - 3. Remove any OSSPI configuration data from the managed nodes by running the OSSPI's Clean Node application on the managed nodes in the OSSPI-Removal Node Group:
    - a. In the OVO Application Bank window, open the OSSPI application group OSSPI\_Admin
    - b. In the OSSPI\_Admin application-group window, select the Clean Node application, drag it across to the OVO Node Bank window, and drop it onto the OSSPI-Removal node group icon. The application prompts you to confirm the activation of the clean-up operation:

Are you sure you want to delete the OSSPI from the Node  $\left[ \text{Yes/No} \right]$ 

To remove configuration data used by the OSSPI enter: Yes

4. Remove the managed nodes manually from the OSSPI-Removal Node Group using the following menu option:

Actions > Node > Remove from this group

# Removing the OSSPI from the Management Server

To remove the OSSPI software completely, you should first carry out the steps described in "Removing the OSSPI from the Managed Node" on page 37 and then remove the OSSPI components from the OVO management server, as follows:

1. Remove the OSSPI software from the OVO management server by using the following command in a shell on the OVO management server itself:

swremove SPI-OSUX-OVO-HP

or

```
swremove SPI-OSUX-OVO-SOL
```

- 2. Remove the OSSPI configuration data from the OVO management server using the OSSPI Clean Server application, which you can find in the OSSPI\_Admin application-group window:
  - a. In the OVO Node Bank window, select the OVO management server icon and drag it across to the OSSPI\_Admin application-group window
  - b. Drop it onto the OSSPI Clean Server application icon
- 3. Remove any remaining OSSPI-specific actions, commands, and monitors by distributing the actions, commands, and monitors to *all* managed nodes.
- 4. Remove all OSSPI components manually from the OVO GUI, for example:
  - Node Groups
  - Application Groups
  - Message Groups
  - Templates and Template Groups
  - Users and User Profiles

Uninstalling the OSSPI Removing the OSSPI from the Management Server