

Systems Inventory Manager Installation Guide



Manufacturing Part Number : 5187-0790

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This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org>).

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

This product includes PHP, freely available from the PHP Group (<http://www.php.net>).

Publication History

The manual's publication date and part number indicate its current edition. The publication date will change when a new edition is released. The manual part number will change when extensive changes are made.

To ensure that you receive the new editions, you should subscribe to the appropriate product support service. See your HP sales representative for details.

- *Systems Inventory Manager Installation Guide*

May 2002, Edition 1

Software depot web site at <http://software.hp.com/products/SIM/info.html>

New editions of this manual will incorporate all material updated since the previous edition. For the latest version, see the documentation on the web:

<http://software.hp.com/products/SIM/info.html>

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Or, use this web form to send us feedback:

<http://docs.hp.com/assistance/feedback.html>

Conventions

We use the following typographical conventions.

| | |
|-------------------|---|
| <i>audit</i> (5) | An HP-UX manpage. <i>audit</i> is the name and <i>5</i> is the section in the <i>HP-UX Reference</i> . On the web and on the Instant Information CD, it may be a hot link to the manpage itself. From the HP-UX command line, enter “man audit” or “man 5 audit” to view the manpage. See <i>man</i> (1). |
| <i>Book Title</i> | The title of a book. On the web and on the Instant Information CD, it may be a hot link to the book itself. |
| <i>Emphasis</i> | Text that is emphasized. |
| Emphasis | Text that is strongly emphasized. |
| ComputerOut | Text displayed by the computer. |
| Command | A command name or qualified command phrase. |
| Computer | Computer font indicates literal items displayed by the computer. For example: file not found |
| Filename | Text that shows a filename and/or filepath. |
| User Input | Commands and other text that you type. |
| <i>Variable</i> | The name of a variable that you may replace in a command or function or information in a display that represents several possible values. |
| [] | The contents are optional in formats and command descriptions. |
| { } | The contents are required in formats and command descriptions. If the contents are a list separated by , you must choose one of the items |
| ... | The preceding element may be repeated an arbitrary number of times. |
| | Separates items in a list of choices. |

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1

Preparing for Software Installation

This chapter provides an overview of the **Systems Inventory Manager (SIM)** web application Version 1.0, the necessary software components and information regarding the software installation process:

- Introducing SIM
- Navigating this Guide
- System Requirements
- The Next Step

Introducing SIM

The Systems Inventory Manager (SIM) web application is a tool that allows you to easily collect, store and manage inventory and configuration information for HP-UX based servers and workstations. This guide describes how to install SIM on machines that are executing the HP-UX operating system.



The time required for this installation is approximately one hour, your actual time may vary.

Navigating this Guide

This list outlines the installation process and related chapters.

- **Chapter 1, “Preparing for Software Installation,” on page 9**
 - Navigating this Guide
 - Introducing SIM
 - System Requirements
 - Go to Chapter 2 or 3
- **Chapter 2, “Remove Previous Software Components,” on page 13**
 - Removing Previously Installed Components
 - Go to Chapter 3
- **Chapter 3, “SIM Software Installation,” on page 15**
 - Install SIM
 - Installing DMI on Client Servers
 - Go to Chapter 4
- **Chapter 4, “Complete the Installation,” on page 19**
 - Enabling Client Systems
 - Logging into SIM

System Requirements

To ensure that the SIM web application operates successfully on your machine, be sure that you meet all of the system requirements described in this section.

Operating System The HP-UX 11.00 or 11.11 operating system is required. You can determine which operating system is running on your system with the `uname -a` command.

Required Software The following versions of software must be currently installed on your system.

- HP Apache 2.0 - minimum version 2.0.0.00.11. Additional information can be found at:
<http://www.hp.com/products1/unix/webserver/apache/downloads/index.html>
- Java 1.3 - minimum version 1.3.1.01.00. Additional information can be found at:
<http://www.hp.com/products1/unix/java/>

If either HP Apache v2.0 or Java v1.3 are not currently installed, you can obtain the software and installation instructions from the web sites referenced above.

Required Patches There are no patches currently required for the Systems Inventory Manager web application.

DMI is included in the SysInvMgr bundle. There are patches that it requires when running on HP-UX 11.00. Refer to the DMI README file for more information.

Patches may exist for the software referenced in the Required Software section. Refer to the web sites for each product to ensure that all patches are obtained and installed on your system.

Incompatible Software

No version of Apache Strong or MySQL can exist on the machine while installing or running the SIM web application. During the installation of the SIM web application, the system is examined to ensure that Apache Strong and My SQL are not installed. Should either application be discovered, the SIM web application will not configure.

If it is essential that Apache Strong or My SQL exist on the system, another system that does not contain either of these products must be used to run the Systems Inventory Manager web application.

Storage Requirements

The SIM web application requires 35 MB of free disk space. The associated database and logging files (`/var`) require an additional 1 GB of free disk space.

The database is created during installation so its size requirement is not included in the `swinstall`'s disk space analysis. **This must be manually verified by you before starting the installation process.**

The Next Step

Tuning

The default HP-UX configuration does not support certain types of Java applications adequately. The Java Out-Of-Box Tool for HP-UX should be installed to configure kernel parameters to improve the performance and behavior of the Java application. You can find more information regarding the Java Out-Of-Box Tool and downloaded it at:

<http://www.hp.com/products1/unix/java/java2/outofbox/index.html>

More information about the kernel parameters that are changed is available at this web site. **Because the kernel is being modified, you should backup your system prior to installing the bundle.**

Networking

You must be able to resolve localhost as SIM uses it to grant access to MySQL. To ensure that this is possible, execute:

```
nslookup localhost
```

The response should be `127.0.0.1`, which is the standard IP for the localhost.

Additionally, these Tomcat ports must be available:

8007 - Ajp12Connector (mod_jk webserver connectors and mod_jserv connector)

8009 - Ajp13Connector (mod_jk webserver connectors)

8081 - Http10Connector (the HTTP connector)

You can use the telnet command to determine if the port is available.

```
telnet [hostname] [port number]
```

The Next Step

If you have previously installed any version of the SIM web application, you *must* begin with Chapter 2 and remove any existing SIM software components. After locating the SIM media and deciding your software installation path, you are ready to begin:

- Chapter 2: Remove Previous Software Components
- Chapter 3: SIM Software Installation

2

Remove Previous Software Components

This chapter describes how to remove any previously installed SIM web application software components. The SIM software components removed with this process cannot be removed by the automatic installation process. In this chapter, you will remove the following software components:

- Apache
- Tomcat
- MySQL
- SIM web application

IMPORTANT

For the SIM web application to operate properly, all previously installed versions of SIM must be removed prior to installing SIM.

Your progress, in this guide, to install the SIM web application follows:

- Chapter 1: Preparing for Software Installation
- **Chapter 2: Remove Previous Software Components**
- Chapter 3: SIM Software Installation
- Chapter 4: Complete the Installation

Removing Previously Installed Components

There are a number of open source software products integrated into the SIM web application to facilitate various underlying functionality. These open source products were installed previously as part of the SIM installation. The components that are manually removed in order are:

- SysInvMgr
- ApacheStrong
- HPAPache
- Tomcat
- My SQL

Remove Software Components

To remove the previously installed software components:

1. Remove existing SIM software:

```
swremove SysInvMgr
```

IMPORTANT

Ensure that you have removed the SysInvMgr component before attempting to remove Apache, Tomcat or MySQL as these products will fail to un-install.

2. Remove existing HPAPache software components:

```
swremove ApacheStrong
```

3. Remove the directories containing the remaining HPAPache components, enter:

```
cd /opt  
rm -rf apache
```

4. Remove the directories containing the remaining Tomcat components, enter:

```
rm -rf tomcat  
rm -rf jakarta-tomcat-3.2.3
```

5. Remove the existing MySQL software:

```
swremove mysql
```

The Next Step

Now that you have removed all previous software versions, you can begin to install the SIM web application. Continue with **Chapter 3: SIM Software Installation**.

This chapter describes how to interactively install the software components of the SIM web application via the use of the SIM software depot. The software installation is largely automatic requiring little interaction from you. In this chapter you will:

- Install SIM
- Installing DMI on Client Servers

Your progress, in this guide, to install the SIM web application follows:

- Chapter 1: Preparing for Software Installation
- Chapter 2: Remove Previous Software Components (If necessary)
- **Chapter 3: SIM Software Installation**
- Chapter 4: Complete the Installation

Install SIM

This section describes the SIM web application installation process. You will be collectively installing Tomcat, Java, MySQL, DMI, as well as the SIM web application software in this process.

Software Location The software depot referred to in this section is downloaded from the SIM Software Depot at:

<http://www.software.hp.com/products/SIM/downloads.html>

NOTE If problems occur during this installation, refer to the *SIM Troubleshooting Guide* to assist you in isolating the problem. You can find this guide at:

<http://www.software.hp.com/products/SIM/info.html>

Install SIM Components

To install all components:

1. Make sure that all of the SIM system requirements have been satisfied. Refer to the System Requirements section in Chapter 1, “Preparing for Software Installation”.
2. Log on to the system that you’ve chosen to install SIM on as root.
3. Use a web browser to download the SIM software depot to a directory with at least 35 Mb of free space.

IMPORTANT

This installation process will refer to the `/var/tmp/` directory as an example of a directory that you might choose to use. Replace this directory with the name of the actual directory you have chosen to install from.

4. Use `swcopy` to copy the software in the depot file into a temporary depot. For example:

For HP-UX 11.00:

```
/usr/sbin/swcopy -x enforce_dependencies=false \  
-s [/var/tmp/]SysInvMgr_B.11.00.06_HP-UX_B.11.00_32+64.depot \  
@ [/var/tmp/]SysInvMgr_B.11.00.06_HP-UX_B.11.00_32+64
```

For HP-UX 11.11:

```
/usr/sbin/swcopy -x enforce_dependencies=false \  
-s [/var/tmp/]SysInvMgr_B.11.11.06_B.11.11_32+64.depot \  
@ [/var/tmp/]SysInvMgr_B.11.11.06_B.11.11_32+64
```


5. Execute `swinstall` to install the SIM components contained in the SIM software depot:

For HP-UX 11.00:

```
/usr/sbin/swinstall -s  
[system]:[/var/tmp/]SysInvMgr_B.11.00.06_HP-UX_B.11.00_32+64  
SysInvMgr
```

For HP-UX 11.11:

```
/usr/sbin/swinstall -s  
[system]:[/var/tmp/]SysInvMgr_B.11.11.06_B.11.11_32+64 SysInvMgr
```

Installing DMI on Client Servers

This section describes how to install the **Desktop Management Interface (DMI)** component on client servers and is optional in its entirety. DMI is used as the inventory data collection and communication mechanism between client servers and SIM.

It is highly recommended that you install the latest version of DMI on each client server from which you intend to collect inventory data.

The latest versions for each HP-UX version are:

10.20 - B.10.20.36
11.00 - B.11.00.37
11.11 - B.11.11.37

Software Location The software products referred to in this section are located:

For HP-UX 10.20 the software is in the HP Software Depot at:

<http://www.software.hp.com/products/SCR/info.html>

For HP-UX 11.x the software is contained in the SysInvMgr bundle previously downloaded or can be obtained from the HP Software Depot at:

<http://www.software.hp.com/products/SIM/info.html>

Install DMI

To install the DMI component on client servers:

1. Obtain the appropriate DMI depot for the client server operating system.
2. The client server installation of DMI is simplified if it has the same version of operating system as the server on which you installed SIM. If this is the case, the depot created when you downloaded from the software depot contains the correct version of DMI.

You can simply execute `swinstall`, using the depot that you created, specifying DMI as the software selection.

For example:

```
/usr/sbin/swinstall -s [/depot directory] DMI
```

The Next Step

Now that you have completed installing all of the software components necessary to the SIM web application, it is necessary to complete the software installation process. Continue with the software installation with **Chapter 4: Complete the Installation**.

4

Complete the Installation

This chapter describes the remaining steps that complete the installation of the SIM web application. In this chapter you will:

- Enabling Client Systems
- Logging into SIM

Your progress, in this guide, to install the SIM web application follows:

- Chapter 1: Preparing for Software Installation
- Chapter 2: Remove Previous Software Components (If necessary)
- Chapter 3: SIM Software Installation
- **Chapter 4: Complete the Installation**

Enabling Client Systems

This section describes how to enable any client systems executing DMI to interact with the SIM web application. For collection of inventory and configuration data, DMI must be managing each server from which data is to be collected. There are no actions to be performed on the server system, modifications are necessary on client servers only.

Modify Client Server(s)

Modify the `dmiMachines` file on each client server:

1. Edit the `/var/dmi/dmiMachines` file on the client server to add a line that identifies the SIM IP address to allow access from SIM.
2. Repeat this process for each client server that you want managed by DMI to facilitate interaction with SIM.

Logging into SIM

After you have successfully installed or updated the SIM web application, log into SIM with this information:

1. Launch the SIM web application from your web browser with this URL:

`http://[system_name]:8081/simgui`

The SIM login screen appears in your browser.

2. Log in using the user name of your choice, in the user field enter:

`[your user name]`

3. Click **Begin**.

The SIM web application appears upon successful login.