

HP System Management Homepage Release Notes

HP-UX, Linux, and Windows Operating Systems



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1 Features

HP System Management Homepage (HP SMH) is a web-based interface that consolidates and simplifies single system management for HP servers running the HP-UX, Linux, and Windows operating systems. HP SMH aggregates and displays data from Web Agents and other HP Web-enabled System Management Software that includes:

- HP Insight Diagnostics
- Array Configuration Utility
- HP Software Version Control Agents

The HP System Management Homepage (HP SMH) for HP-UX, Linux, and Windows provides the following features. They apply to all releases, except where noted.

Product features

- Provides security for HP Insight Management Agents using the Secure Sockets Layer (SSL) for Linux and Windows.
- Provides web-based applications and security using SSL.
- Enables you to configure the trust mode level.
- Manages the user system access through the user group account.
- Displays all HP Web-enabled System Management Software that provides information to HP SMH.
- Common HTTP and HTTPS service for HP Insight Management Agents and utilities, for reduced complexity and system resource requirements.
- Simplified architecture for implementing HTTP security and HP management updates.
- Access control through Network Interface Card (NIC) binding and advanced configuration features for individual and groups of users.
- Broad operating system and browser support.
- Automated log collection via `smhassist`.
This feature is available only on HP-UX 11i v2 and HP-UX 11i v3 systems.
- Command Line Interface (CLI) - `smhconfig` - provides users with administrator rights access to set values through the command line.
- Facility to disable port 2301.
- Logging into `syslog` the activities related to login and logout performed on HP SMH.
This feature is available only on HP-UX 11i v2 and HP-UX 11i v3 systems.

Partition Manager

To start Partition Manager, a user with Administrator (root) privileges can run the `parmgr` command with the `-b` option to bypass the authentication step under HP SMH. To use this feature on HP-UX 11i v1, you must install `KRNG11i`, the Strong Random Number Generator software for HP-UX 11i v1, available from the Software Depot web site at <http://www.hp.com/go/softwaredepot>.

Available IP addresses

In HP-UX only, when autostart mode is enabled, any access made through port 2301 detects a change in the list of available IP addresses. In previous releases, SMH would only be accessible using the IP addresses defined at system startup. If new IP addresses were defined then SMH would have to be restarted to use them.

With this new SMH feature, any configuration change in the list of available IP addresses, in clustered and non-clustered environments, would automatically reconfigure SMH, restarting it when needed. Environment

changes such as enabling a new network card, adding ifconfig aliases, or a cluster package failover would trigger this feature.

Alternatively, you can disable this feature by adding the following line to the `/opt/hpsmh/conf.common/smhpd.xml` file: `<monitor-ip-changes>0</monitor-ip-changes>`

For more information, go to the *Distributed Systems Administration Utilities V1.1 Release Notes for HP-UX 11i v2 March 2006* at <http://www.hp.com/go/hpux-core-docs> and select HP-UX 11i v2 from the product list.

Integrated applications to HP SMH

HP SMH is a framework for a number of integrated applications. HP SMH provides the following system management functionality (described in “HP SMH integrated applications” (page 8)) through a single-user interface and the HP SMH Graphical User Interface (GUI).



IMPORTANT: In HP SMH on HP-UX, there are some applications such as Authenticated Commands (PAM), Resource Management, and Network Services Configuration that are not web-based. To access such applications from SMH, an X-windows application must be running on the computer whose IP address you enter in the **DISPLAY** text box in the application's launch page.

Table 1-1 HP SMH integrated applications

Application Name	Operating System	Application Description
Accounts for Users and Groups (ugweb)	HP-UX	The Accounts for Users and Groups (ugweb) tool is a web-based single-system management tool for managing user accounts and groups on a local system, a Network Information Service (NIS) system, and an LDAP (Lightweight Directory Access Protocol) server. For more information, see the product's online help.
Auditing and Security Attributes Configuration (secweb)	HP-UX	The HP-UX Auditing and Security Attributes Configuration tool is a tool for configuring and managing security attributes, and for configuring and managing the auditing subsystem without having to convert the system to Trusted mode. For more information, see the product's online help.
Authenticated Commands (PAM)	HP-UX	Using Pluggable Authentication Modules (PAM), configure account authentication, password authentication, session authentication, and user authentication.
Disks and File Systems (fsweb)	HP-UX	The Disks and File Systems (fsweb) tool supports system administration tasks, including management of logical groups and volume groups, disk management tasks, and file system tasks. The fsweb tool supports these file systems: Cache File System (CFS), Compact Disc File System (CDFS), Common Internet File System (CIFS), Hierarchical File System (HFS), Network File System (NFS), and Veritas File System (VxFS). For more information, see the product's online help.
Distributed System Authentication Utilities (DSAU)	HP-UX	Distributed Systems Administration Utilities provide several tools for simplifying the management of groups of systems and Serviceguard clusters. Configure configuration synchronization, consolidated logging, and view system logs.
Event Monitoring Service (web-based) (EMSweb)	HP-UX	The EMSWeb tool (bundle EventMonitorGUI) enables the user to manage requests to monitor resources on the system. Using the EMSWeb tool the user can create and manage requests to monitor resources.

Application Name	Operating System	Application Description
Error Management Technology (EMT)	HP-UX	Error Management Technology provides a quick, easy method of accessing error/cause/action information on all system errors. Use it to query or customize error data.
EVWEB	HP-UX	EVWEB is a user component of System Fault Management (SFM). Using evweb, you can view and administer various Web-Based Enterprise Management (WBEM) events that are generated on an HP-UX system. For more information, see the product's online help.
IPMI Event Viewer	HP-UX	View hardware events.
Kernel Configuration (kcweb)	HP-UX	The kcweb tool allows the user to configure an HP-UX kernel and to monitor consumption of kernel resources controlled by parameters. For more information, see the product's online help.
Network Interfaces Configuration	HP-UX	Network Interfaces Configuration is a web-based system management tool that enables you to configure network interfaces on HP-UX installed systems. For more information, see the product's online help.
Network Services Configuration (ncweb)	HP-UX	The ncweb tools allows the user to configure network services. For more information, see the product's online help.
Partition Manager (parmgr)	HP-UX, Linux, Windows	Partition Manager (parmgr) is a web-based application that allows system administrators to use a convenient graphical user interface (GUI) to configure and manage nPartitions on HP server systems. Partition Manager can also detect several types of configuration problems. For more information, see the product's online help.
Peripheral Devices Configuration (pdweb)	HP-UX	The pdweb tool lists and manages the OLRAD-capable PCI slots reported by the <code>olrad</code> command and Peripheral Devices reported by the <code>ioscan</code> command. On selecting a slot/device from the list, it displays details about the selected device/slot. It allows a user to Add / Replace / Delete an OLRAD-capable card online, to view the devices reported by <code>ioscan</code> command, and to re-install the Device Special Files where possible. For more information, see the product's online help.
Printer Management	HP-UX	Configure printers or plotters, manage print requests, and save or restore print spooler configuration.
Resource Management	HP-UX	Using the Event Monitoring Service, configure and view resource monitoring requests on the managed node.
Resource Monitors	HP-UX	Configure the display monitor, and configure the X server.
Role-based Access Control (RBAC)	HP-UX	Allows you to distribute administrative responsibilities by creating roles with appropriate authorizations and assigning them to non-root users and groups.
Security Attributes Configuration (secweb)	HP-UX	The secweb tool enables you to configure system-wide and per user values of security attributes of local and Network Information Service (NIS) users. For more information, see the product's online help.

Application Name	Operating System	Application Description
Serviceguard Cluster - Serviceguard Manager	HP-UX and Linux	Serviceguard allows you to create high availability clusters of HP 9000 and HP Integrity servers. In the event of a component failure, Serviceguard coordinates the failover process by transferring it to other highly available component(s) thereby preventing a network, hardware, or software issue from significantly disrupting service. Serviceguard Manager is the graphical user interface for Serviceguard. You can then do the following: Monitor, Administer, Configure Serviceguard clusters. For more information, see the product's online help.
Software Management	HP-UX	Copy depot software, install software, list depot software, list Installed software, remove depot software, and remove installed software.
Time	HP-UX	Set the system clock, list the NTP client networks, and display NTP network time sources.

2 Issues and workarounds

HP SMH undergoes rigorous testing before releasing any given version of the product. From HP test activities to date, the following items have been uncovered that you should keep in mind. Also, refer to the *HP System Management Homepage Installation Guide* and *HP System Management Homepage Online Help* for known issues.

HP SMH 3.2.2 release for HP-UX 11.31 / HP SMH 3.2.0 release for HP-UX 11.23

- Issue:** Users not defined on the local system, but defined only on an Active Directory, cannot login to HP SMH in an environment where Kerberos authentication via PAM on HP-UX is implemented. This problem occurs in HP-UX 11i v2 and 11i v3 on Integrity systems.
Description: A 64 bit `libnss.winbind.so` is necessary for the authentication. The 64-bit shared library, `/usr/lib/hpux64/libnss_winbind.so.1` that is required for SMH authentication is currently not available.
Workaround: This problem currently does not have any known workaround. The problem is planned to be resolved in a future release of HP SMH.
- Issue/Description:** When HP SMH is installed, the user `hpsmh` and group `hpsmh` is automatically added to the `/etc/passwd` file. If you are using LDAP or any other network service to manage user and group accounts, there might be a possibility that the user ID (UID) and the group ID (GID) is already in use by the LDAP users, which can be confusing. The problem occurs in HP-UX 11i v3 on Integrity systems.
Workaround: To overcome this, add a local `hpsmh` user and group using unique UID and GID (IDs not in use by LDAP or the other network services) manually before installing the HP SMH.
Complete the following steps to manually add the local `hpsmh` user and group IDs:
 - Determine the available reserved IDs for the group (for example, 130) and the user (for example, 125).
 - Add the group using the command `/usr/sbin/groupadd -g 130 hpsmh`.
 - Add the user using the command `/usr/sbin/useradd -u 125 -g hpsmh -d/var/opt/hpsmh \ -c "System Management Homepage" hpsmh`.



NOTE: If you do not manually add the group and the user before installing the HP SMH, the group and user is automatically created during HP SMH installation using locally available IDs, which may already be in use on the network.

- Issue:** Active Directory users cannot login to SMH in an environment where Kerberos authentication via PAM on HP-UX, and Active Directory for Unix users and groups is implemented.
Description: HP SMH on HP-UX currently does not support Kerberos-based authentication.
Workaround: The workaround is to configure the `sysmgthp` service in the `pam.conf` file. To configure the `pam.conf` file, open the `pam.conf` file and add the following:
`sysmgthp auth required libpam_hpsec.so.1`



NOTE: The `libpam_hpsec.so.1` shared library is not available on HP-UX 11i v1.

```
sysmgthp auth sufficient libpam_krb5.so.1
sysmgthp auth required libpam_unix.so.1 try_first_pass
sysmgthp account required libpam_hpsec.so.1
sysmgthp account sufficient libpam_krb5.so.1
sysmgthp account required libpam_unix.so.1
```

After these changes, you will be able to login to HP SMH as a user defined in Active Directory provided the user group is configured. To configure the user group, go to **Settings** ⇒ **System Management Homepage** ⇒ **Security** ⇒ **User Groups**

- **Issue:** Using the FireFox 3 browser, when you attempt to open HP SMH in the current HP SIM window, the Single Sign-On (SSO) content is not displayed in the HP SMH login page.
Description: This is expected behavior as FireFox uses same-origin policy (SOP) for Javascripts. One possible workaround is you could open HP SMH in a new browser window or tab.
For more information about this issue, visit the Mozilla developer center site at https://developer.mozilla.org/En/Same_origin_policy_for_JavaScript
- **Issue:** It is not possible to modify the `smhpd.conf` file.
Description: This is expected behavior. HP SMH does not allow you to modify the `smhpd.conf` file. This file is generated every time HP SMH starts. Even if you modify this file, HP SMH overwrites it when you start HP SMH the next time.
- **Issue:** Multiple users can simultaneously login to HP SMH as root users and perform administration tasks.
Description: This is expected behavior. The underlying commands will handle conflicts, if any.
- **Issue:** Internal disks are displayed at **Home > Storage > Disks**.
Description: A system can have internal disks that do not show under **Home > Storage > Disks**. However, when you navigate to **Home > System Configuration > Disks and File Systems**, the external LUN disks as well as the internal disks are displayed. But, at **Home > Storage > Disks**, only internal disks are displayed. This is the expected behavior.
See QXCR1001049632 for further details.
- **For HP SMH 3.1.2 for HP-UX 11i v2 only**
Issue: HP SMH does not work if Apache 2.0 is removed. This issue occurs because HP SMH requires Apache 2.0 to be installed. While you can migrate to Apache 2.2, HP SMH 3.1.2 works only with Apache 2.0.
Description: The current version of HP SMH runs using only Apache 2.0 which executes from the path `/opt/hpws`. Even if Apache version 2.2 is installed, SMH works well without any conflicts. This is because Apache runs using port number 80 whereas HP SMH runs using port number 2301 and 2381. Even when multiple instances of Apache are operating, SMH works by using its own instance of only Apache version 2.0.
Workaround: You can have both Apache versions 2.0 and 2.2 on the same system. The two versions can coexist since they execute from different paths. Apache 2.0 runs from the path `/opt/hpws` whereas Apache 2.2 runs from the path `/opt/hpws22`.

HP SMH WebApps for HP-UX 11.31

Disks and File Systems (FSWeb)

- **Issue:** If a Serviceguard cluster is down, the **Disks and File Systems** application does not allow creating a perfect cluster volume group.
Description: The **Disks and File Systems** application creates and distributes a volume group, but it fails to mark the volume group as cluster aware. As a result, it appears that the creating cluster volume group operation has failed, and instead a new volume group is created. This is a known behavior of the **Disks and File Systems** application in HP-UX 11i v2 (11.23).
Workaround: To resolve this issue, change the volume group cluster-aware either by bringing the Serviceguard cluster up and running `vgchange` command or explicitly configure the volume group as

a cluster volume group in the Serviceguard cluster configuration after creating the cluster volume group in Disks and File Systems.

- **Issue:** An error occurs when a volume group is created using HP SMH.

Description: In the Disks and File Systems application, after filling the mandatory fields in the Create Volume Group page, the following error message is displayed - `Pvcreate :Bad input parameter`. This problem is currently noticed on HP-UX 11i v3 (11.31): FSWeb B.11.31.13 and HP SMH 3.2.2.

Workaround: You can force create the VG by selecting the **Force physical volume creation** option, and create the physical volumes without any validation.

- **Issue:** HP SMH displays physical volumes (PVs) that are already a part of an inactive volume group (VG) as unused.

Description: In the Disks and File Systems application, during the creation of VGs, PVs that are already a part of inactive/deactivated VGs are shown as unused. This problem is currently noticed on HP-UX 11i v3 (11.31): FSWeb B.11.31.13 and HP SMH 3.2.2.

Workaround: The following warning message is displayed - `Existing Data Found on Device`. This message helps the user to discontinue creating and overwriting the used VG.

Support and other resources

New and changed information in this edition

The following sections list what is new for the HP SMH releases.

March 2011 release for HP-UX

HP SMH 3.2.2 for HP-UX 11i v3 includes product enhancements and fixes for internally found defects. Following are the product enhancements:

- ▲ A CLI-based option to configure the SSL Cipher Suite.

December 2010 release for HP-UX

HP SMH 3.2.0 for HP-UX 11i v2 includes product enhancements and fixes for internally found defects. Following are the product enhancements:

- HP SMH on 11i v2 supports both Apache 2.0 and Apache 2.2. SMH can be configured to use either Apache 2.0 or Apache 2.2.



NOTE: The minimum version of Apache required to be installed for facilitating Apache 2.2 support with HP SMH is `hpuxws22Apache B.2.2.8.10`.

NOTE: If HP SMH is configured for Apache 2.2 version, install Tomcat 2.2 version to facilitate the Java application functioning.

- A CLI-based option to configure the SSL Cipher Suite.
- Port 1188 is the default port used by Tomcat instance within SMH. This port can be configured to a different value.
- A new configuration parameter `TOMCAT_PORT` is added in HP-UX 11i v2 to configure the port used for Apache and Tomcat communication.

September 2010 release for Linux and Windows

HP SMH 6.2 for Linux and Windows includes the following product enhancements:

- A CLI-based configurable logging option where log severity for `smh_enc.log` can be configured. Only log messages equal to or higher than the severity set in `smh_enc.log` will be logged.
- An option to enable/disable **Port 2301** on the HP SMH installer (Windows only).
- Support for the Autostart mode (Linux only).
- A CLI-based option to configure the SSL Cipher Suite.
- The **System Status** and **Overall System Summary** tabs on the SMH Home page have been changed to **Overall System Health Status** and **Component Status Summary** respectively.
- Better UI timeout handling and detailed webapp timeout logging in `smh_enc.log`.
- Support for logging the security settings changes through the GUI and CLI.

The following open source products were revved:

- Updated OpenSSL version to 0.9.8n
- Updated Apache version to 2.2.15
- Updated PHP version to 5.2.13



NOTE: Corrected possible information disclosure may be used to obtain the version information of the web server used by HP System Management Homepage.

September 2010 release for HP-UX

HP SMH 3.2.1 for HP-UX 11i v3 includes product enhancements and fixes for internally found defects. Following are the product enhancements:

- HP SMH on 11i v3 supports both Apache 2.0 and Apache 2.2. SMH can be configured to use either Apache 2.0 or Apache 2.2.
- Port 1188 is the default port used by Tomcat instance within SMH. This port can be configured to a different value.
- A new configuration parameter `TOMCAT_PORT` is added in HP-UX 11i v3 to configure the port used for Apache and Tomcat communication.
- **System Status** and **Overall System Summary** tabs on the SMH Home page have been changed to **Overall System Health Status** and **Component Status Summary** respectively.

HP SMH 3.1.2 for HP-UX 11i v2 includes fixes for the internally found defects.

March 2010 release for Linux and Windows

HP SMH 6.1.0 provides the provides the following functionalities over previous HP SMH Windows and Linux releases:

- Added operating system support to include:
 - Windows 7 for x86 and x64
 - Windows 2008 R2 Server core
 - Windows Vista SP2
 - SUSE Linux Enterprise Server (SLES) 11 for x86 and AMD64/EMT64T
 - SUSE Linux Enterprise Server (SLES) 10 SP2 or later for x86 and AMD64/EMT64T
 - SUSE Linux Enterprise Server (SLES) 9 SP4 for x86 and AMD64/EMT64T
 - XEN 5.5 update 2
- The following open source products were revamped:
 - Updated OpenSSL version to 0.9.81
 - Updated Namazu (Windows only) version to 2.0.20



NOTE: Corrected possible information disclosure may be used to obtain the version information of the web server used by HP System Management Homepage.

- Support for Firefox web browser version 3 and 3.5.

March 2010 release for HP-UX

HP SMH 3.1.0 for HP-UX 11i v2 and HP-UX 11i v3 includes product enhancements and fixes for internally found defects. Following are the product enhancements:

- Automated log collection via `smhassist`.
- Command Line Interface (CLI) - `smhconfig` - that provides users with administrator rights access to set values through the command line.
- Facility to disable port 2301.
- Logging into `syslog` the activities related to login and logout performed on HP SMH.
- Help page and help icon for custom menu.

There are no changes in HP SMH 2.2.9.3 for HP-UX 11i v1.

November 2009 release for Linux and Windows

Following are the product enhancements for the HP SMH November 2009 Linux and Windows release:

- Support for the new operating systems:
 - Windows Server 7 for x86 and x64
 - Windows Server 2008 R2 for x64
 - Windows Server 2008 R2 for 64-bit Itanium-based systems
 - Red Hat Enterprise Linux 5 update 3 for x86 and AMD64/EMT64T
 - Red Hat Enterprise Linux 5 update 4 for x86 and AMD64/EMT64T
 - ESX 4.0
- Support for Internet Explorer web browser version 8.
- SMHlogreader tool support.
- Native x64 support.

October 2009 release for HP-UX

Defects are fixed in HP SMH 3.0.2.1 for HP-UX 11i v2 and HP-UX 11i v3, and HP SMH 2.2.9.3.1 for HP-UX 11i v1. Following are the details:

- Changes are made in the Namazu search engine to fix a security vulnerability. This defect fix was earlier (July web release) available only on HP-UX 11i v3. This release includes the fix in all three HP-UX versions (HP-UX 11i v1, v2, and v3).
- The following defects are resolved:
 - CR QXCR1000961776. On HP-UX 11i v1 systems, HP SMH now correctly displays the Description and other data in the System Summary page.
 - CR QXCR1000939573. On HP-UX 11i v1, 11i v2, and 11i v3 systems, you can now access HP SMH using IPv6 address in the URL when SMH is in both 'autostart URL' mode and 'Start on Boot' mode. This is possible on both ports, 2301 and 2381.
 - CR QXCR1000940148. Unnecessary awk errors are no longer logged on HP-UX 11i v1 and v2. The issue is not applicable to HP-UX 11i v1.



IMPORTANT: The support for long length passwords of up to 255 characters in the shadow password mode is not available yet. HP SMH is pre-enabled to support maintaining long passwords ahead of this feature actually being available in HP-UX.

September 2009 release for HP-UX

HP SMH 3.0.2 for HP-UX 11i v2 and HP-UX 11i v3 includes product enhancements and defect fixes. Following are the product enhancements:

- Support for IPv6 addresses.
- Support for Internet Explorer web browser version 8.
- Support for long length passwords of up to 255 characters in the shadow password mode.
- Support for Java 6. This enables you to open the Java-based HP SMH plug-in applications such as HP Serviceguard and Partition Manager, where Java 6 is installed. On HP-UX 11i v1 HP SMH continues to support Java 1.5.

HP SMH 2.2.9.3 for HP-UX 11i v1 contains defect fixes.

March 2009 release for HP-UX

HP SMH 3.0.0 for HP-UX 11i v2 and HP-UX 11i v3 provides the following product enhancements:

- Improved feature-rich user interface
- User configurable user interface properties

- User control of session and user interface timeouts
 - Capability to verify HP SMH software dependency information using the new `smhassist` command
- HP SMH 2.2.9.2 for HP-UX 11i v1 contains defect fixes.

January 2009 release for Linux and Windows

HP SMH 3.0 provides the following functionality over previous HP SMH releases:

- New user interface
- Support for Kerberos on Windows
- Support for Command Line Interface
- The ability to disable port 2301
- User configurable user interface properties
- User control of session and user interface timeouts
- Log localization
- IPv6 support

Added operating system support to include:

- **HP ProLiant servers**
 - Windows Server 2008 Essential Business Server
 - Windows Server HPC 2008
 - Windows Server 2003 Standard Edition SP2 for x86 and x64
 - Windows Server 2003 R2, Standard Edition SP2 for x86 and x64
 - Windows Server 2003, Web Edition SP2
 - Windows Server 2003 Enterprise Edition SP2 x86 and x64
 - Windows Server 2003 R2 Enterprise Edition SP2 x86 and x64
 - Windows Server 2003 Small Business Server, Standard and Premium R2
 - Windows Vista Business Edition
 - Windows Vista Enterprise Edition
 - Windows Vista Ultimate Edition
 - Windows XP SP2
 - Red Hat Enterprise Linux 4 update 8 or later for x86 and AMD64/EMT64T
 - Oracle Enterprise Linux
 - SUSE Linux Enterprise Server (SLES) 11 for x86 and AMD64/EMT64T
 - SUSE Linux Enterprise Server (SLES) 10 SP2 or later for x86 and AMD64/EMT64T
 - ESX 3.5 update 5
 - Citrix XEN 5.6
- **HP Integrity servers**
 - Windows Server 2008 for Itanium-based systems, 64-bit

Security bulletin and alert policy for non-HP owned software components

Open source software (such as OpenSSL) or third-party software (such as Java) are sometimes included in HP products. HP discloses that the non-HP owned software components listed in the HP System Management Homepage end user license agreement (EULA) are included with HP System Management Homepage.

To view the EULA, use a text editor to open the `eula_license.xml` file, and search for third-party software.

HP addresses security bulletins for the software components listed in the EULA with the same level of support afforded HP products. HP is committed to reducing security defects and helping you mitigate the risks associated with security defects when they do occur.

HP has a well-defined process when a security defect is found that culminates with the publication of a security bulletin. The security bulletin provides you with a high level description of the problem and explains how to mitigate the security defect.

Subscribing to security bulletins

To receive security information (bulletins and alerts) from HP:

1. Open a browser and go to the HP home page at <http://www.hp.com>.
2. Click the **Support and Drivers** tab.
3. Click **Sign up: driver, support, and security alerts**, which appears under **Additional Resources** in the right navigation pane.
4. Select **Business and IT Professionals** to open the Subscriber's Choice web page.
5. Do one of the following:
 - Sign in if you are a registered customer.
 - Enter your email address to sign-up now. Then, select the box next to **Driver and Support alerts** and click **Continue**.

Typographic conventions

<code>find(1)</code>	HP-UX manpage. In this example, "find" is the manpage name and "1" is the manpage section.
<i>Book Title</i>	Title of a book or other document.
<u><i>Linked Title</i></u>	Title that is a hyperlink to a book or other document.
http://www.hp.com	A Web site address that is a hyperlink to the site.
Command	Command name or qualified command phrase.
user input	Commands and other text that you type.
computer output	Text displayed by the computer.
Enter	The name of a keyboard key. Note that Return and Enter both refer to the same key. A sequence such as Ctrl+A indicates that you must hold down the key labeled Ctrl while pressing the A key.
term	Defined use of an important word or phrase.
variable	The name of an environment variable, for example <code>PATH</code> or <code>errno</code> .
value	A value that you may replace in a command or function, or information in a display that represents several possible values.
<element>	An element used in a markup language.
attrib=	An attribute used in a markup language.

Related information

HP SMH documentation

For more information about HP SMH, see the following sources:

- **HP System Management Homepage Release Notes** The release notes provide documentation for what's new with the release, features and change notifications, system requirements, and known issues. The release notes are available on the HP Technical Documentation website at <http://www.hp.com/go/hpux-core-docs>, select HP-UX 11i v3 for the latest documents and for previous versions of the documents, select either HP-UX 11i v1 or HP-UX 11i v2. Also, for Linux and Windows operating system releases, the release notes is available at the HP SMH web page at <http://h18013.www1.hp.com/products/servers/management/agents/documentation.html>.
- **HP System Management Homepage Help System** The help system provides a complete set of documentation for using, maintaining, and troubleshooting HP SMH. In HP SMH, go to the **Help** menu.

- **HP System Management Homepage Installation Guide** The installation guide provides information about installing and getting started using HP SMH. It includes an introduction to basic concepts, definitions, and functionality associated with HP SMH. The installation guide is available on the HP Technical Documentation website at <http://www.hp.com/go/hpux-core-docs>, select HP-UX 11i v3 for the latest documents and for previous versions of the documents, select either HP-UX 11i v1 or HP-UX 11i v2. Also, for Linux and Windows operating system releases, the installation guide is available on the Management CD and at the HP SMH web page at <http://h18013.www1.hp.com/products/servers/management/agents/documentation.html>.
- **HP System Management Homepage User Guide** The user guide provides a complete set of documentation for using, maintaining, and troubleshooting HP SMH. The user guide is available on the HP Technical Documentation website at <http://www.hp.com/go/hpux-core-docs>, select HP-UX 11i v3 for the latest documents and for previous versions of the documents, select either HP-UX 11i v1 or HP-UX 11i v2. Also, for Linux and Windows operating system releases, the user guide is available at the HP SMH web page at <http://h18013.www1.hp.com/products/servers/management/agents/documentation.html>.
- **Simplifying single-system management on HP-UX 11i – HP System Management Homepage (HP SMH)** This white paper introduces HP SMH and its various plug-ins. The use cases involving HP SMH plug-ins highlight the features provided by HP SMH. The white paper is available on the HP Technical Documentation website at <http://www.hp.com/go/hpux-core-docs>, select HP-UX 11i v3 for the latest documents and for previous versions of the documents, select either HP-UX 11i v1 or HP-UX 11i v2, and search with the document title "Simplifying single-system management on HP-UX 11i - HP System Management Homepage (HP SMH)."
- **Safe and Powerful: Security in HP-UX System Management Homepage (SMH)** This white paper provides an overview of the security aspects in HP SMH. The white paper describes the various security features that the application provides, and includes security related tips for system administrators. The white paper is available on the HP Technical Documentation website at <http://www.hp.com/go/hpux-core-docs>, select HP-UX 11i v3 for the latest documents and for previous versions of the documents, select either HP-UX 11i v1 or HP-UX 11i v2, and search with the document title "Safe and Powerful: Security in HP-UX System Management Homepage (SMH)."
- **hpsmh (1m) manpage** For HP-UX releases, the manpage is available from the command line using the `man hpsmh` command. This information is not available for Linux and Windows operating systems.
- **smhstartconfig (1M) manpage** For HP-UX operating system releases, the manpage is available from the CLI using the `man smhstartconfig` command. This information is not available for Linux and Windows operating systems.
- **sam (1M) manpage** For HP-UX operating system releases, the manpage is available from the CLI using the `man sam` command. This information is not available for Linux and Windows operating systems.
- **smh (1m) manpage** This command is available in HP-UX 11i v3 (B.11.31) only. This is an enhanced version of the `sam (1m)` command. For HP-UX operating system releases, the manpage is available from the CLI using the `man smh` command. This information is not available for Linux and Windows operating systems.
- **smhassist (1m) manpage** You can use the `smhassist` command to verify the configurations of SMH and see if there are any dependent software, patches or configuration errors. For HP-UX 11i v3 (B.11.31) and HP-UX 11i v2 (B.11.23) operating system releases, the manpage is available from the CLI using the `man smhassist` command. This information is not available for HP-UX 11i v1 (B.11.11), Linux, and Windows operating systems.
- **smhconfig (1m) manpage** You can use the `smhconfig` CLI to set configuration values through the command line. The CLI provides users having administrative rights access to modify configuration options, including the required security checks that allow the configuration options to be changed. For HP-UX 11i v3 (B.11.31) and HP-UX 11i v2 (B.11.23) operating system releases, the manpage is available using the `man smhconfig` command. This information is not available for HP-UX 11i v1 (B.11.11), Linux, and Windows operating systems.

- **HP System Management Homepage website** The website provides HP SMH information and product links. Go to the HP SMH website at <http://hp.com/go/smh>.
- **HP Insight Essentials software page** This web page is at <http://www.hp.com/servers/manage>.

HP-UX documentation

For more information about using HP SMH in an HP-UX environment, see the following sources. They are available on the Instant Information DVD and on the HP Technical Documentation web site at <http://www.hp.com/go/hpux-core-docs>.

- **HP-UX 11i Installation and Update Guides (v1, B.11.11; v2, B.11.23; v3 B.11.31)** Provide instructions on how to install or update to HP-UX.
- **HP-UX 11i Release Notes (v1, B.11.11; v2, B.11.23; v3 B.11.31)** Describe new features and functionality changes for HP-UX 11i, including information on HP SMH.
- For HP-UX operating system release documentation, check for the latest version on <http://www.hp.com/go/hpux-core-docs>.

HP Encourages Your Comments

HP encourages your comments concerning this document. HP is committed to providing documentation that meets your needs. Send any errors found, suggestions for improvement, or compliments to: feedback@fc.hp.com. Include the document title, manufacturing part number, and any comment, error found, or suggestion for improvement you have concerning this document.

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