

# HP-UX 11i v3 Read Before Installing or Updating

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# Welcome to HP-UX 11i v3

HP-UX 11i v3 delivers the highest level of integrated virtualization and automation. HP-UX 11i v3 dynamically reduces complexity and cuts deployment times to maximize return on investment.

This DVD booklet provides the following information:

- Contents of the HP-UX 11i v3 media kit.
- Descriptions of the Operating System and Operating Environments.
- New and updated products included in this release. See the *HP-UX 11i v3 Release Notes* for details.
- Critical, late-breaking cold-install and update issues not in the *HP-UX 11i v3 Installation and Update Guide*.

See the *HP-UX 11i v3 Installation and Update Guide* supplied with the HP-UX 11i v3 media kit. This guide has step-by-step instructions and a known problems appendix.

You can access the guide and others on the Instant Information DVD and the HP Technical Documentation website:

<http://docs.hp.com/hpux/os/11iv3>

# Media Kit Contents

This guide is part of the HP-UX 11i v3 media kit, which includes the following DVDs and documents:

- **HP-UX 11i v3 (B.11.31) DVD (2-DVD set)** — Contains the HP-UX Operating System (OS), Operating Environments (OEs), required networking software, Update-UX, Ignite-UX, and online diagnostics.
- **HP-UX 11i v3 (B.11.31) Application DVD** — Contains HP-UX application software.
- **HP-UX 11i v3 Instant Information DVD** — Contains HP-UX manuals, release notes, and white papers. See the DVD booklet for more information.
- *Read Before Installing or Updating to HP-UX 11i v3* — (this document) Provides last-minute information for HP-UX 11i v3. Read this booklet before cold-installing or updating HP-UX 11i v3.
- *HP-UX 11i v3 Installation and Update Guide* — Describes the media kit and instructions to cold-install or update to the latest release of HP-UX.
- *HP-UX 11i v3 Release Notes* — Describes new features and functionality changes for HP-UX 11i v3. Release Notes are available on the Instant Information DVD and the HP Technical Documentation website:  
<http://docs.hp.com/en/oshpux11iv3>
- *Configuring HP-UX for Different Languages* — This book is provided in localized media kits. The English version of this manual is on the Instant Information DVD and the HP Technical Documentation website:  
<http://docs.hp.com/en/oshpux11iv3>
- *VSE Management Software Version 4.0 Installation and Update Guide for HP-UX* — Describes the VSE Management Software system

requirements and installation instructions. Please review this document before installing the optional VSEMgr package in the OE. This guide is also available on the HP Technical Documentation website:

<http://docs.hp.com/en/T8671-90011/>

For more information about the VSEMgr package in the OE, see the *HP-UX 11i Version 3 September 2008 Release Notes*.

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**NOTE:** You should also consult the *HP Virtual Server Environment Management for Integrity Version 4.0 Release Notes* for late additions and corrections to the VSE Management Software documentation. This document is also available on the HP Technical Documentation website:

<http://docs.hp.com/en/T8671-90002/>

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- ***VSE Management Software Version 4.0 Getting Started Guide*** — Describes post-installation steps that are required to configure the VSEMgr package after installation from the OE. This guide is also available on the HP Technical Documentation website:

<http://docs.hp.com/en/T8671-90020/>

## Original HP-UX 11i v3 Operating Environments

The March 2008 release of HP-UX 11i v3 was the last full Operating Environments Update Release (OEUR) provided for the following original HP-UX 11i Operating Environments (OEs):

- Foundation OE
- Enterprise OE
- Mission Critical OE
- Technical Computing OE

Although the end of sale for HP-UX 11i v3 media of original Operating Environments (March 2008 release) is October 30th 2008, you may still continue to purchase licenses for these products. These licenses, along with Operating Environment media for version 1 and version 2 will also be available until the planned end of sales life for the original OEs.

Information on transition, support, and mapping from original to new v3 Operating Environments can be found at

<http://www.hp.com/go/tov3oes>

## New HP-UX 11i v3 Operating Environments

The September 2008 release represents HP's second release of new Operating Environments for version 3 of HP-UX 11i. These new Operating Environments, listed in Table 1 provide a richer set of products and improved choices over the original set of HP-UX 11i OEs.

Detailed information on the new HP-UX 11i v3 Operating Environments can be found at

[www.hp.com/go/hpux11iv3](http://www.hp.com/go/hpux11iv3)

**Table 1 New HP-UX 11i v3 Operating Environments**

<b>New OE</b>	<b>Description</b>
Base OE (BOE)	Provides integrated HP-UX functionality for cost-conscious customers. The BOE contains all the applications included in the Foundation OE, and improves the bundle set by adding much-requested products such as Process Resource Manager (PRM), APA, as well as math libraries and graphics for technical computing applications. This OE is bundled as HPUX11i-BOE.
Virtual Server OE (VSE-OE)	Designed for customers seeking higher resource utilization or embarking on consolidation projects and need virtualization for a flexible UNIX environment. The VSE-OE contains all the products included in the BOE (and the original EOE) and adds a host of other products including the entire VSE Suite. This OE is bundled as HPUX11i-VSE-OE.

**Table 1 New HP-UX 11i v3 Operating Environments** *(continued)*

<b>New OE</b>	<b>Description</b>
High Availability OE (HA-OE)	For customers requiring high availability for large mission-critical applications, this OE contains all the products included in the BOE (and the original EOE), plus applications such as HP Serviceguard and HA toolkits required to enable a mission-critical server. This OE is bundled as HPUX11i-HA-OE.
Data Center OE (DC-OE)	For customers who need both flexibility and high availability, the Data Center OE provides mission-critical virtualization by combining the robust product selection in the VSE-OE and HA-OE in one integrated and tested bundle. This OE contains all the products included in the BOE, VSE-OE, HA-OE (and the original MCOE) and is bundled as HPUX11i-DC-OE.

## Use Subscriber's Choice for Latest Firmware Updates

HP recommends that you sign-up for Subscriber's Choice so you can automatically receive email notices for the latest firmware updates. Make sure you register all your products to receive the appropriate firmware update notices.

You can also go to the Business Support Center website at <http://www.hp.com/go/bizsupport> for the latest HP-UX 11i firmware updates. The IT Resource Center (ITRC) website (<http://itrc.hp.com>) also provides a link to the Business Support Center.

To obtain the system firmware files, installation instructions, and release notes with detailed firmware version information select **Download Drivers and Software** at

<http://www.hp.com/bizsupport>

This site provides a searchable database for various products or you can follow the **Server** link to select the latest firmware download for your specific server product.

Make sure you read the Release Notes for the firmware to ensure a successful update. In general, HP recommends that you update to the latest firmware available before installing or updating to HP-UX 11i v3.

For a matrix of system firmware for I/O adapters with HP-UX 11i v3 boot support, as well as the minimum system firmware requirements for HP-UX 11i v3, refer to the documents at

<http://docs.hp.com/en/hw.html#System%20Firmware>

## HP-UX Virtual Partitions Not Compatible with HP Integrity Virtual Machines

HP-UX Virtual Partitions is not compatible with HP Integrity Virtual Machines. The vPars and Virtual Machines products cannot be installed on the same nPartition or the same virtual partition.

HP Integrity Virtual Machines (HPVM) cannot be installed on a system that has HP-UX Virtual Partitions (vPars) software installed. There is a check during Virtual Machines installation preventing it.

## Important: New Changes in Procedures for Installing VxFS and VxVM

Previous HP-UX 11i v3 Operating Environment Update Releases (OEURs) included VxFS 4.1 and VxVM 4.1. Starting with the September 2008 OEUR, the following versions are included: VxFS 4.1, VxFS 5.0, and VxVM 5.0. Only VxFS 4.1 is installed by default, meaning that all other versions are optional. This has important implications for many install scenarios. For detailed instructions and information about how this impacts you, consult “Appendix C” of the *HP-UX 11i v3 Installation and Update Guide, September 2008* (<http://www.docs.hp.com/en/oshpux11iv3.html#Installing%20and%20Updating>).

## Extra Media Swap May Be Required

During OE media installations, if HPSIM-HP-UX is selected either manually or through a dependency, you should expect to do an extra media swap: DVD1, then DVD2, and back to DVD1 (the extra swap), then DVD2.

You should follow the on-screen prompts during media installation. These prompts will include the extra media swap if you select HPSIM-HP-UX or “all products” for installation.

## What's New in This Release

This section provides a quick overview of what is new, has changed, and has been deprecated or obsoleted in the HP-UX 11i v3 September 2008 release. For more details, see the *HP-UX 11i Version 3 September 2008 Release Notes* on the Instant Information DVD and the HP Technical Documentation website:

<http://www.docs.hp.com/en/oshpux11iv3.html> (navigate to **Release Notes**)

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**NOTE:** Updating from HP-UX 11i v1 to HP-UX 11i v3 is not supported. You must first update to an HP-UX 11i v2 Operating Environment. However, you can do a cold-install of HP-UX 11i v3 if you are running HP-UX 11i v1. Please see the *HP-UX 11i v2 Installation and Update Guide* for information on how to update from HP-UX 11i v1 to HP-UX 11i v2. In addition, make sure your system meets the minimum system and disk space requirements before updating from HP-UX 11i v2 to HP-UX 11i v3.

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### New Products in HP-UX 11i v3

This section lists (in Table 2) the new products included in the HP-UX 11i v3 September 2008 release.

For a list of the associated bundle tags, see the *HP-UX 11i v3 Installation and Update Guide, September 2008*. For information on these products, see the *HP-UX 11i Version 3 September 2008 Release Notes*. Both documents can be found at

<http://docs.hp.com/en/oshpux11iv3>

**Table 2 New Products in HP-UX 11i v3 September 2008**

<b>New Product</b>	<b>Description</b>
HP-UX Scheduler Enhancements for Power Management	Provides a new dynamic tunable to dynamically enable or disable the mechanism to put processors in low power consumption state when idle.
HP-UX Swapoff	Provides the ability to remove swap devices without rebooting the system. This feature is enabled by a new command and an enhanced system call. The command is a Software Pack feature and is optional on all OEs.
10GigEthr-01	Newly added as an optional product to the Operating Environments and includes accelerated virtual I/O (AVIO).
Accelerated Virtual I/O (AVIO)	Added are three new Accelerated Virtual I/O device drivers. Provide significant performance improvements over the existing VIO products.
HP Instant Capacity Manager	A web-based interface that can be used to monitor your Instant Capacity (iCAP) environment. Newly added as a component of the VSE Management Software (VSEMgrnt). Delivered as an optional product in VSE-OE and DC-OE.
HP Integrity Virtual Machines	A soft partitioning and virtualization technology that provides operating system isolation, with sub-CPU allocation granularity and shared I/O. Version 4.0 added to the VSE-OE and DC-OE.

**Table 2 New Products in HP-UX 11i v3 September 2008** *(continued)*

<b>New Product</b>	<b>Description</b>
VMKernelSW	One of the software bundles that is used with HP Integrity Virtual Machines (HPVM) V4.0.
Kernel Tracing on HP-UX ( <i>ktracer</i> )	Provides the ability to analyze and troubleshoot HP-UX operating system behavior. Captures information on kernel procedure calls, parameters and timing across all processes and processors, and reports it on demand.
NGROUPS Expansion	Allows users and processes to have group-level permissions based on a larger number of groups than the previous fixed limit.
FIFOENH	Provides high and low thresholds on buffered data in the pipe. As a result, major performance improvement can be seen on a multiprocessor environment when multiple threads are operating on the same fifo. Software Pack feature, optional on all OEs.
Tunable Kernel Base Page Size	Enhancement makes it possible to tune the size of the kernel base page, which was formerly fixed at 4 KB. Now the additional sizes 8 KB, 16 KB, and 64 KB are available. The larger kernel base page size reduces the kernel's memory footprint and makes certain memory management operations more efficient.

**Table 2 New Products in HP-UX 11i v3 September 2008** (continued)

<b>New Product</b>	<b>Description</b>
Tune-N-Tools	Delivers the tool <i>tuneserver</i> (1m). When executed, sets kernel tunables to values appropriate for major customer business application workloads.
Base-VxTools-50	Contains a set of enablers and infrastructure tools for VxVM.
OnlineJFS 5.0	Available as an optional product in DC-OE, VSE-OE, and HA-OE.
VxFS 5.0	VxFS 5.0 provides you with new commands and features for managing files of increased sizes, and better optimization of storage resources.
VxVM 5.0	Provides enhanced volume management features, improved cluster and node functionality and additional multipathing capabilities.
Decimal Floating-Point Arithmetic	Includes support for decimal floating-point (decimal FP) arithmetic for C on HP-UX 11i v3 (11.31) September 2008 Update for Integrity servers, following the current draft revision of the IEEE 754 floating-point standard and ISO/IEC Technical Report 24732.

**Table 2 New Products in HP-UX 11i v3 September 2008** *(continued)*

<b>New Product</b>	<b>Description</b>
Dynamic System V Semaphore Tunables	Allows the system administrator to change the system V semaphore tunable(s) value(s) dynamically without requiring a reboot of the system. Software Pack product. Optional on all OEs.
MallocNextGen	Provides a totally new implementation of the user space memory allocator. This new allocator may show better performance for multi-threaded applications or applications with small block allocations. Software Pack product. Optional on all OEs.
Java JDK/JRE for HP-UX	JDK/JRE version 6.0 is a new version of the HP-UX Java Development Kit (JDK) for the Java 2 Platform Standard Edition. JDK/JRE version 5.0 and SDK/RTE 1.4.2 have been updated to incorporate defect and security bulletin fixes.

**Table 2 New Products in HP-UX 11i v3 September 2008** (continued)

<b>New Product</b>	<b>Description</b>
Numeric User Group Name	With this feature it is possible to create user/group names that begin with a numeric character and in turn be entirely numeric. Software Pack product. Optional on all OEs.
New and Updated Asian Iconv Converters	Several Asian character sets now have <code>iconv</code> conversion support added to convert data directly from these character sets to and from various transformation formats of Unicode such as UTF-8, UTF-16 and UTF-32.

## Updated Products in HP-UX 11i v3

This section lists (in Table 3) products that have changed, or have been deprecated or obsoleted in the HP-UX 11i v3 September 2008 release.

For a list of the associated bundle tags, see the *HP-UX 11i v3 Installation and Update Guide, September 2008*. For information on what has changed for these products, see the *HP-UX 11i Version 3 September 2008 Release Notes*. Both documents can be found at

<http://docs.hp.com/en/oshpux11iv3>

**Table 3 Updated Products in HP-UX 11i v3 September 2008**

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**Updated Products**

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Asian Iconv Converters (New and Updated)

Boot Loader

Commands and Functions:

*getaddrinfo*(3N) Function

*ioinit*(1M) Command

*ioscan*(1M) Command

*mpsched*(1) Command

*scsimgr*(1M) Command

Distributed Systems Administration Utilities

Drivers:

10GigEthr-00

CommonIO

FibrChanl-00

FibrChanl-01

FibrChanl-02

GigEther-01

IB4X-00

IEther-00

PCIMUX-00

RAID-01

scsiU320-00

SerialSCSI-00

**Table 3 Updated Products in HP-UX 11i v3 September 2008** *(continued)*

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**Updated Products**

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Dynamic Root Disk

European TrueType Fonts Extension - Arabic, Hebrew, Thai, and Vietnamese

Event Monitoring Services

Feature Enablement Patch Bundle (FEATURE11i)

Firefox, FirefoxSrc

Hardware Enablement Patch Bundle for HP-UX 11i v3 (HWEnable11i)

High Availability Monitors

HP Application Discovery Agent

HP Caliper

HP CIFS Client

HP CIFS Server

HP GlancePlus Pak

HP Instant Capacity

HP Instant Support Enterprise Edition

**Table 3 Updated Products in HP-UX 11i v3 September 2008** *(continued)*

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**Updated Products**

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HP Integrity VM Guest Support Libraries (VMGuestLib)

HP Integrity Virtual Machines Provider (VMProvider)

HP Process Resource Manager

HP Serviceguard NFS Toolkit

HP System Management Homepage

HP Systems Insight Manager

HP Virtual Server Environment (VSE) Management Software (VSEMgrt)

HP WildeBeest Debugger

HP WBEM Services for HP-UX

HP-UX Accounts for Users and Groups

HP-UX Apache-based Web Server

HP-UX Auto Port Aggregation

HP-UX Auditing and Security Attributes Configuration (secweb)

HP-UX Disks and File Systems

HP-UX FTP Server (WU-FTPD)

**Table 3 Updated Products in HP-UX 11i v3 September 2008** *(continued)*

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**Updated Products**

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HP-UX Kernel Configuration

HP-UX Peripheral Devices Manager

HP-UX Linker and HP Dynamic Loader

HP-UX Mail Server (Sendmail)

HP-UX Nameserver/BIND

HP-UX nPartition Configuration Commands

HP-UX Secure Shell

HP-UX Software Assistant

HP-UX Tomcat-based Servlet Engine

HP-UX Virtual Partitions

HP-UX WBEM Fibre Channel Provider

HP-UX WBEM IOTree Provider

HP-UX WBEM Kernel Providers

HP-UX WBEM RAIDSAs Provider

HP-UX WBEM SCSI Provider

**Table 3 Updated Products in HP-UX 11i v3 September 2008** *(continued)*

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**Updated Products**

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HP-UX WBEMP-LAN Provider

HP-UX Workload Manager

Ignite-UX

Internationalized PostScript Printing Enhancements

I/O Subsystem

IPv6 Upgrade for HP-UX 11i v3

Libc Enhancement

libIO.so Shared Library

LDAP-UX Integration

Mass Storage Stack

Network Interfaces Configuration and Network Services Configuration

nPartition Provider

Obsolescence Bundle

ONCplus

Online Diagnostics

**Table 3 Updated Products in HP-UX 11i v3 September 2008** *(continued)*

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**Updated Products**

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OpenSSL

Partition Manager

Perl

Printer Management (web-based)

PRMKernelSW

PRMLibraries

Quality Pack Patch Bundles (QPKAPPS and QPKBASE)

Red Hat Directory Server for HP-UX

Software Distributor

Software Package Builder

System Fault Management

Thunderbird, ThunderbirdSrc

Update-UX and SW-GETTOOLS

Utilization Provider for HP-UX 11i v3

Virtual Server Environment Configuration Assistant (*VseAssist*)

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## Known Problems

This section contains critical, late-breaking information that was not included in the *HP-UX 11i v3 Installation and Update Guide*.

Before cold-installing or updating to HP-UX 11i v3, make sure you read this entire section and “Appendix A, Known Problems and Troubleshooting,” in the *HP-UX 11i v3 Installation and Update Guide*.

For information and patches for other known problems, go to the HP IT Resource Center website:

<http://itrc.hp.com>

### After Installation, Applications Calling `getpw*()` or `getgr*()` Will Dump Core in `libc` During a Certain Window

After cold installation, the `pwgrd(1M)` daemon creates the file `/var/spool/pwgr/status` with zero size and initializes it with status information. There is a small window between file creation and initialization in which file size is zero. If any application calls `getpw*()` or `getgr*()` APIs during this window, they will dump core in `libc`.

### What To Do

Install `PHCO_37620` to fix this problem. For availability of the patch, check the HP IT Resource Center site: <http://itrc.hp.com>. The other workaround is to rerun the applications/daemons that have failed by dumping core, or reboot the system.

## After Update from HP-UX 11i v3 March 2008 to HP-UX 11i v3 September 2008, Multiple Listings of the Optional Product Libc-enh May Be Seen On PA-RISC Systems

If you have installed the Libc-enh product from the LibcEnhancement bundle released in the HP-UX 11i v3 March 2008 OEUR and are updating to HP-UX 11i v3 September 2008, then after performing the update you may see multiple listings of this product in the *swlist(1M)* output with one of them in an unbundled state.

### What To Do

Reinstall the Libc-enh product.

## Olrad Operations Fail for HP-UX Peripheral Devices Manager When Done through sam/smh/pdweb Commands In TUI Mode

Olrad operations like “replace card online,” “delete card online,” “add card online,” and “reinstall device files” fail when done through the sam/smh/pdweb TUI. These operations are multi-step operations. They create intermediate files to save the results. With HP-UX Peripheral Devices Manager (PeriphDevWeb) B.11.31.04, there is an error in creating these intermediate files and the operations fail with message similar to

```
sh: /var/sam/sessiondirs/root/AAA018488/filename: Cannot  
create the specified file
```

where *filename* is the intermediate file.

## What To Do

These operations can be performed using the Web GUI (HP SMH → Tools → Peripheral Devices) or the Command Line Interface using the `/usr/bin/olrad` and `/usr/sbin/insf` commands.

If you do not use the `sam/smh/pdweb` TUI, no action is required. If you want to use the TUI, download the latest `PeriphDevWeb` product (version B.11.31.05 or greater) from <http://software.hp.com>. This product contains the fix for the problem and the same will be included in the next OEUR release for HP-UX 11i v3.

## VxVM Not Supported On Systems With USB Devices At This Time

A message such as the following may be logged into `dmesg` during VxVM operations:

```
"WARNING: VxVM vxio V-5-3-946 vol_disk_change_iopolicy: Public region
policy specific open failed for c0t2d0_0x5000020 ret = 0xffffffff"
```

These messages are logged when internal or external USB devices are detected on the system and when the minor number of the USB devices collide with any of the other storage disks connected to the system. This results in the corresponding disks (disks that have same minor number as that of the USB devices) not being able to be opened by VxVM.

In the above WARNING message, "open failed for `cXtXdX`" indicates which disks will not function well under VxVM.

## What To Do

No workaround exists for this problem at this time. HP and Symantec are investigating possible solutions. Although the disks might work, the behavior is unknown and not supported. VxVM is not supported on systems that have USB devices connected at this point in time. This co-existence issue is

tracked by QXCR1000834043. VxVM will be supported on systems that have USB devices once the fix for QXCR1000834043 is available.

## Clicking Veritas Enterprise Administrator Link on the System Management Homepage May Result in VEA Abort and Core Dump

After installing the HP-UX 11i v3 September 2008 OEUR, clicking the **Veritas Enterprise Administrator** (VEA) link on the System Management Homepage may result in VEA aborting and dumping core. This happens due to lower version of JRE available on the system.

### What To Do

Take the following steps:

1. Enter

```
mv /opt/VRTSob/jre /opt/VRTSob/jre_old
```

2. Enter

```
cp -r /opt/java1.5 /opt/VRTSob/jre
```

3. Try launching VEA by clicking the **Veritas Enterprise Administrator** link on the System Management Homepage.

## SSL Certificates Generated While Cold-Installing HP WBEM Services A.02.07.02 May Not Be Accepted by WBEM Service Clients

While cold-installing HP WBEM Services, the SSL certificates are generated with short host names. These certificates cannot be used by the WBEM Service clients. The following warning message is logged in the `swagent.log` file:

Warning: Cannot find the fully-qualified domain name (FQDN) for this system, SSL certificates for WBEM Services are created with the short hostname. Correct this either by editing the /etc/hosts file or by making the appropriate DNS registration. If not corrected, the created certificates may not be acceptable to the WBEMService clients that expect a FQDN in the common name field of the SSL certificate. After the hostname(FQDN) is configured, run /opt/wbem/sbin/gen\_wbem\_certs to create SSL certificates for WBEMServices. The existing certificates /etc/opt/hp/sslshare/cert.pem and /etc/opt/hp/sslshare/file.pem will be moved to /etc/opt/hp/sslshare/cert.pem.bak and /etc/opt/hp/sslshare/file.pem.bak respectively.

## What To Do

As a workaround, after configuring the host name, run the /opt/wbem/sbin/gen\_wbem\_certs utility to create SSL certificates for HP WBEM Services.

## Update from Previous OEUR to HP-UX 11i v3 September 2008 May Log Harmless Message on Console Regarding VRTSat

While updating from a previous OEUR to the HP-UX 11i v3 September 2008 OEUR, the following message may be logged onto the console:

```
/sbin/rc[14]: /sbin/rc2.d/S700vxatd: not found.
```

## What To Do

This is a harmless message. Installation is not affected. Veritas Authentication Service (VRTSat) will start without any problem once the update is complete.

## Update from Previous OEUR to HP-UX 11i v3 September 2008 May Log Harmless Message on Console Regarding VRTSob

While updating from a previous OEUR to the HP-UX 11i v3 September 2008 OEUR, the following messages may be logged onto the console:

- \* [902] Running "preinstall" script for fileset "VRTSob.VEAS-FILESET".
  - [902] kill: 1944: The specified process does not exist.
- \* [367] Running "preinstall" script for fileset "VRTSob.VEAS-FILESET" succeeded with 1 warning.
- \* [1394] Installing fileset "VRTSob.VEAS-FILESET,r=3.3.837.0" (841 of 1062).

## What To Do

This is a harmless message. Installation is not affected. VRTSob will start without any problem once the update is complete.

## Web Resources

For additional help when cold-installing or updating HP-UX 11i v3 and related products, go to the web:

- *HP-UX 11i v3 Installation and Update Guide* (also available in hard copy in the OE media kits)  
<http://docs.hp.com/en/oshpux11iv3.html#Installing%20and%20Updating>
- *HP-UX 11i Version 3 Release Notes* (select the document appropriate for your release)  
<http://www.docs.hp.com/en/oshpux11iv3.html#Release%20Notes>
- *HP-UX 11i v3 Read Before Installing or Updating* (this document on the web)  
<http://docs.hp.com/en/oshpux11iv3.html#Installing%20and%20Updating>
- *HP-UX System Administrator's Guide*  
<http://docs.hp.com/en/oshpux11iv3.html#System%20Administration>
- HP-UX 11i v3 Documentation  
<http://docs.hp.com/en/oshpux11iv3.html>
- HP Software Releases & Media  
<http://www.hp.com/software/releases/releases-media2/index.html>
- Guides in various languages  
<http://docs.hp.com>
- Ignite-UX information  
<http://docs.hp.com/en/IUX>

- Software Depot  
<http://software.hp.com>
- IT Resource Center (ITRC)  
<http://itrc.hp.com>
- HP Servers
  - HP BladeSystem: <http://www.hp.com/go/blades>
  - HP Integrity Server Family: <http://www.hp.com/go/integrity>
  - HP 9000 Server Family: <http://www.hp.com/go/hp9000>





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