HP-UX 11i version 3 Operating Environment Update Release (OEUR) for March 2014

The latest version of HP-UX 11i v3 March 2014 Operating Environment Update Release (“March 2014 HP-UX OEUR” or “HP-UX 11i v3”) is now available for HP Integrity (Intel® Itanium® based) systems. New enhancements are provided to increase availability, efficiency and optimization, unify and simplify management and provide enduring investment protection.

The March 2014 HP-UX OEUR is available to customers with a valid support agreement. The information in this document is intended to assist in determining whether this release is right for you. This update to HP-UX11i v3 is known by the following names:

<table>
<thead>
<tr>
<th>Name</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP-UX 11i version 3 March 2014 update</td>
<td>Standard name and DVD labels</td>
</tr>
<tr>
<td>HP-UX 11.31</td>
<td>VUF name</td>
</tr>
</tbody>
</table>

Important Changes and Notes:

Electronic Software Notifications and Delivery

As of June 2012, the HP-UX 11i v3 electronic software delivery model has been extended from Americas, Europe, Middle East and Asia, to include China and Japan. The download consists of ISO images of each OE. Each ISO image is burned to DVD at the customer’s site, and then installed in the same manner as the physical DVDs. Electronic licenses and media are quoted and ordered from the price list in the same manner as the physical licenses and media.

Since July 2011, all software update notifications and most deliveries are provided electronically. As a result of moving to electronic software downloads, shipments of software media kits are no longer widely available.

*Note: Operating Environment / Operating System Products - HP-UX and OpenVMS will continue to be available in both physical and electronic delivery form.*

Firefox web browser not obsoleted nor removed from OE media (at this time)

The Firefox web browser and Thunderbird e-mail client will NOT be removed from the HP-UX OE at this time, as previously indicated in the 1203 customer letter. However, it may be considered for obsolescence and removal in a future OE Update Release.

Upgrade Systems Insight Manager (SIM) to version 7.3

HP Systems Insight Manager: version 7.3

- Provides IPv6 support for managing IPv6 environments
- Offers GUI and On Line help localization in Simplified Chinese
What's New:

Some of the most impactful enhancements in the HP-UX 11i v3 March 2014 update release include:

Increase availability with enhancements for:

- **Single system availability**: Reduce planned downtime with: zero downtime for system maintenance and updates via Soft Reboot for Integrity i4 Blade servers; and hot swapping shared libraries.
- **Dynamic workload mobility & configuration**: Zero downtime upgrades with dynamic VM workload mobility between Integrity i2 and i4 servers. And zero downtime for reconfiguring virtual server I/O with: online replacement of physical I/O adapters and dynamic addition of virtual I/O to a vPar or VM.

Increase efficiency with enhancements for:

- **Virtualization scalability and manageability**: For decreased I/O costs and increased security isolation, utilize NPIV technology for FlexFabric ports on HP Integrity i4 server blades. And with HP-UX vPars and Integrity VM 6.3, support up to double the VM workload capacity with: double the virtual cores (up to 32), double the memory (up to 256GB), and for VM guests: greater storage and networking scalability, and multi-queue support. Simplify management of vPar and VM transformation and vPar migration with the Virtual Server Manager GUI.
- **Enhanced infrastructure manageability**: Via HP Matrix OE 7.2 and 7.3, simplify server manageability with Matrix OE NPIV storage orchestration, and dynamic VM mobility across the SAN. For private clouds, increase: scalability by provisioning larger virtualized workloads within vPars v6; and security and performance by provisioning Direct I/O networking support.
- **Increasingly automated capacity planning**: Via HP Matrix OE Capacity Advisor 7.3, improve the performance of data centers up to 10%, by identifying servers running an infinite loop process. Simplify capacity planning by improving reports with a new CPU trend, CPU growth rate. Monitor memory and I/O for virtualized workloads running within HP-UX vPars and Integrity VM v6.

Simplify system management with enhancements to:

- **Simplify storage management**: With Veritas File System/Volume Management 5.1SP1 software, reduce backup times with file backup capability, and increase flexibility when configuring root- and data-disk groups with cold installation and archive/restore support. Improve business application efficiency and transaction performance (for write-intensive applications) with a new partition directory mechanism.
- **Simplify deployment, while extending flexibility and security**: With updates to Ignite-UX and HP-UX Dynamic Root Disk, easily create golden images for server clients, and enhance secure development life cycle by supporting signature verification in a signed depot. Increase deployment security with support for root disks that are configured and utilizing features provided by Veritas File System/Volume Management 5.1SP1 software.
- **Simplify Integrity firmware updates**, with HP System Update Manager (SUM) v6, its updated GUI and new command line scripting.

Protect your investment with enduring support with:

- 5-year support for Integrity VM v6.3 for lasting virtualization solution.
- Hong Kong Character Set-2008 localization support to increase flexibility for customer language preferences.

Detailed information on the changes in the March 2014 HP-UX OEUR can be found in the HP-UX 11i v3 March 2014 Release Notes, which can be found on the HP Support Center at [http://www.hpe.com/support/hpesc](http://www.hpe.com/support/hpesc). Enter and select: "HP-UX Operating Systems", then “HP-UX 11i v3”, select “Manuals” (on the left), then “Getting started”. In the release notes, begin with Chapter 3: "What is New at a Glance."
**Other OE product structure and delivery notes:**

### Virtualization:
You can order factory integration for the Virtualization Services Platform (VSP) for vPars v6 or Integrity VM v6 (as part of HP-UX vPars or Integrity VM v6) by ordering option 004 and 0D1 with the HP-UX 11i v3 VSE-OE or DC-OE Media product.

- HP Online Migration software (T8717AC) remains available for stand-alone purchase, or as part of: HP-UX 11i v3 VSE-OE or DC-OE, or the Matrix OE.
- Stand-alone, electronically-delivered Integrity Virtual Machines v4.3 is required for those customers needing support for: Virtual I/O, legacy DSF files or OpenVMS guests. The software download includes both HPVM v4.3 and also the HP-UX 11i v3 Base Operating Environment (based on the required September 2011 release). *Note: factory integration is no longer available for this product.*
- HP-UX Virtual Partitions (vPars) v5 will continue to exist on the OEs, as an alternative option for Superdome 2 servers, and factory integration remains available for this product on either the stand-alone product (T1335DC), or with the HP-UX 11i v3 VSE-OE or DC-OE.

### Filesystem Enhancement for POSIX AIO
- POSIX AIO provides a mechanism to wait for the completion of multiple Asynchronous I/O (AIO) requests through a system call, aio_reap(2).
- AioEnh delivers the POSIX AIO functionality wherein aio_reap(2) waits for the completion of specified number of AIO requests when the outstanding AIO requests are less than the number of I/O requests that aio_reap(2) has been asked to reap. This avoids the need for multiple aio_reap(2) calls to reap all the requests.

**PCIIInfo-00**
- A new PCI ID Information Driver (PCIIInfo-00) was added to the Operating Environment.

**Read Before Installing & Installation and Update Guide:** The Spanish, French, Korean, Italian and Traditional Chinese language will no longer be available for these documents. Starting with the HP-UX 11i v3 March 2014 Update Release, is shipped with the HP-UX 11i v3 Read Before Installing or Updating (March 2014) & HP-UX 11i v3 Installation and Update Guide (March 2014) in English, Japanese, Simplify Chinese and German languages.

**HP-UX Updates**

**Release Roadmap for HP-UX 11i v1, v2 and v3**
We are committed to providing you with new functionality to address your business needs today and in the future. To assist you with your planning, the current HP-UX Update release schedule is noted below. (Please note that the information in this chart is subject to change without notice, and will be updated by HP as needed on a quarterly basis):

<table>
<thead>
<tr>
<th>HP-UX 11i version</th>
<th>Ship Timeframe</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP-UX 11i v3 (Update 13)</td>
<td>March 2014/April 2014 (Planned Ship Release Date)</td>
<td>Full update release * of HP-UX 11i v3 planned to be delivered on the new HP-UX 11i v3 Operating Environments only</td>
</tr>
<tr>
<td>HP-UX 11i v3 (Update 12)</td>
<td>March 2013</td>
<td>Full update release * of HP-UX 11i v3 delivered on the new HP-UX 11i v3 Operating Environments only</td>
</tr>
</tbody>
</table>
**HP-UX 11i v3 (Update 11)**  
**Introduction Date**: September 2012  
**Sales Timelines**: Full update release * of HP-UX 11i v3 delivered on the new HP-UX 11i v3 Operating Environments only.

**HP-UX 11i v3 (Update 10)**  
**Introduction Date**: March 2012  
**Sales Timelines**: Full update release * of HP-UX 11i v3 delivered on the new HP-UX 11i v3 Operating Environments only.

**HP-UX 11i v3 (Update 9)**  
**Introduction Date**: September 2011  
**Sales Timelines**: Full update release * of HP-UX 11i v3 delivered on the new HP-UX 11i v3 Operating Environments only.

**HP-UX 11i v2**  
**Introduction Date**: December 2010  
This is a reminder to our valued HP-UX customers that HP-UX 11i v2 reached End of Sales on 31 December 2010. HP recommends that customers running HP-UX 11i v2 upgrade to HP-UX 11i v3. HP provided the final update to HWEnable11i and Quality Pack (QPK) patch bundles for HP-UX 11i v2 in December 2010. The Support Pack media is available to customers under a current support agreement. HP-UX systems shipped from HP with Instant Ignition option will have June 2008 OE release and Dec. 2010 QPK bundles after this date. Optional Core Enhancements for HP-UX 11i v2 is also available on Support Pack media. The HP-UX 11i v2 HWE and QPK bundles are also available at [http://www.hpe.com/support/hpesc](http://www.hpe.com/support/hpesc). Once you sign in with your HP support account, click on “Patch Management”, then “Find standard patch bundles”, then “HPUX”, which opens a page titled “Standard HP-UX patch bundles index”.

**HP-UX 11i v1**  
**Introduction Date**: December 2009  
HP updated the Quality Pack (QPK) patch bundles for HP-UX 11i v1. The HP-UX 11i v1 QPK is available on Support Plus media to all customers under a then current support agreement. The HP-UX 11i v1 QPK is also available on the [HP-UX section of the HP Enterprise Business Community](http://www.hp.com). HP-UX section (similar to previous HP IT Resource Center) or at [http://www.hpe.com/support/hpesc](http://www.hpe.com/support/hpesc). Once you sign in with your HP support account, click on “Patch Management”, then “Find standard patch bundles”, then “HPUX”, which opens a page titled “Standard HP-UX patch bundles index”.

*Full update release: Update to the Operating Environment (OE), Quality Pack (QPK) patch bundles, Hardware Enablement (HWE) patch bundle, and Software Pack (SPK) media for the designated OS version.*

**Support Life Cycle for HP-UX 11i v1, v2, and v3**

The following table shows the current sales and support timelines of HP-UX 11i releases:

<table>
<thead>
<tr>
<th>HP-UX Version</th>
<th>Introduction Date</th>
<th>Sales Timelines</th>
<th>Support Timelines*</th>
</tr>
</thead>
</table>
| HP-UX 11i v3 *** | February-2007 | At least:  
- 31-December-2014 ***(on HP 9000 servers)  
- 31-December-2017 (on HP Integrity servers) | At least:  
- 31-December-2020 (on HP 9000 servers)  
- 31-December-2022 (on HP Integrity servers) |
| 11i v2 | September-2003 | 31-December-2010 | At least:  
- 31-December-2015**** |
| 11i v1 | December-2000 | 31-December-2009 | At least:  
- 31-December-2015**** |
| 11i v1 Workstation ** | December-2000 | 31-December-2007 | 31-December-2013 |
| 11.0 | November-1997 | 1-February-2005 | 31-December-2006 |
* Support no longer available from HP Factory Support, but Limited Support may be offered for an additional duration.
** End of Sales date for HP PA-RISC Workstations was December 31, 2007. HP will take orders on a material available basis through this date. End of Factory Support for HP-UX 11i v1 on Workstations is December 31, 2013.
*** End of Sales date for the original OE product offering for HP-UX 11i v3 OE’s i.e.: FOE, TCOE, EOE, was January 1, 2009
**** Previous Version Support with Sustaining Engineering (PVS w SE) will be offered for HP-UX 11i v1 and 11i v2 for the period 1st Jan 2014 to 31st Dec 2015.
Please note that the end of sales and end of factory support information in the above chart is subject to change without notice, and will be updated by HP as needed.

VxFS/VxVM 5.0.1 being replaced with VxFS/VxVM 5.1SP1 in March 2014 OEUR

Starting with the March 2014 OEUR, VxFS 5.1 SP1 and VxVM 5.1SP1 are included in the OEUR and AR media replacing the corresponding VxFS 5.0.1 and VxVM 5.0.1 components. VxFS 5.1 SP1 would be an always-installed product. However, if needed, Both VxFS/VxVM 5.1SP1 and VxFS/VxVM 5.0.1 will continue to be available for independent download.

HP-UX XNTP (Network Time Protocol) and PHP

NTP 3.5 continues to be the default version installed with the March 2014 update of HP-UX 11i v3. But NTP 4.2 would be the supported version going forward as mentioned in the product webpage. Please upgrade to NTP 4.X, which is available at https://h20392.www2.hpe.com/portal/swdepot/displayProductInfo.do?productNumber=HPUX-NTP

HP-UX PHP 5.2.x continues to be bundled with Apache-based Web Server v.3.x on March 2014 update of HP-UX 11i v3. But PHP 5.4.x would be the supported version going forward as mentioned in the product webpage. Please upgrade to PHP 5.4.X, which is available at https://h20392.www2.hpe.com/portal/swdepot/displayProductInfo.do?productNumber=HPUXWSP541102.

End of Support announcements for open source products:

Please refer to the respective product webpages for the end of support announcements for all of the open source products.

HP Operations Agent

TC097CA (Older version of HP Operations Agent) will no longer be shipped on OE media. This has been replaced by TC097DA on the OE media. TC097DA is Version 11.13 of HP Operations Agent. It helps you monitor the health and performance of the system. With additional licenses, you can use the HP Operations agent in an environment managed by HP Operations Manager (HPOM). This has been added as a recommended (default-installed) product in the DC-OE, HA-OE, and VSE-OE of 1403. See HP Operations agent release notes at http://h20230.www2.hp.com/selfsolve/manuals. (Requires HP Passport after logging in, search for “Operations Agent.”)

JAVA1.5 will no longer be shipped on OE media

JAVA1.5 (Java1.5JDK, Java1.5JDKadd, Java1.5JRE and Java1.5JREadd) will no longer be shipped on OE media..
Online communications for other future plans

Software update information is available at http://www.hpe.com/info/softwareupdate in the Overview tab, under "HP-UX", "Current update releases".

Other resources:
- HP Enterprise Business Community, HP-UX section (similar to previous HP IT Resource Center)
- Software Depot web site: to download software