

HP VMware vSphere 5.1 U1 Customized Image Release Notes for April 2013

Abstract

This document provides the latest release information for HP VMware vSphere 5.1 U1 Customized Image.

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1 Navigation tips

Navigating to documentation on the HP website

- From the URLs in this guide, you may need to make several selections to get to your specific server documentation.
- For online access to technical documentation, self-help resources, live chat assistance, community forums of IT experts, technical knowledge base, remote monitoring and diagnostic tools, go to <http://www.hp.com/support> (<http://www.hp.com/support>).
- For the latest versions of selected technical documentation, go to <http://www.hp.com/go/bizsupport> (<http://www.hp.com/go/bizsupport>).

2 HP VMware vSphere 5.1 U1 Customized Image

The HP vSphere 5.1 U1 Customized Image includes the following:

- HP Management Tools:
 - HP CIM Providers
 - HP NMI Driver
 - HP iLO Driver
 - HP CRU Driver
 - HPONCONFIG Utility
 - HPBOOTCFG Utility
 - HPACUCLI Utility
- VMware IOVP Certified Device Drivers added to HP vSphere 5.1 U1 installation images for HP device enablement.
- HP Agentless Management Service (AMS) to support Agentless Management and Active Health.

3 New and updated in this release

The new and updated features for the HP vSphere 5.1 U1 Customized Image for April 2013 include:

- Provider Features
 - Report installed licenses for HP Dynamic Smart Array Controller.
 - Report New memory properties.
 - Support for IP Address encoding in SNMP traps.
 - Support SMX MemoryModuleOnBoard association.
 - HP Dynamic Smart Array Controller split cache support.
 - Report New RAID levels for storage volume fault tolerance.
 - HP Smart Cache support.
 - Update reporting of Smart Array Cache Status to align with firmware and iLO.
- AMS features
 - Report running SW processes to HP Insight Remote Support.
 - Report vSphere 5.1 U1 SNMP agent management IP and enable VMware vSphere 5.1 U1 SNMP agent to report iLO4 management IP.
 - IML logging for NIC, and SAS traps.
 - Limit AMS log file size and support log redirection as defined by the ESXi host parameter: `ScratchConfig.ConfiguredScratchLocation`
- SR-IOV Support
 - Updated Intel 10Gb network driver to enable SR-IOV for the HP 560FLB, 560M, 560 SFP+, and 560FLR-SFP+.

For additional details on supported servers, Guest Operating Systems, SR-IOV limitations, configuration steps, and troubleshooting, see the [HP White Paper – Implementing SR-IOV on HP ProLiant Servers with VMware vSphere 5.1](#).

4 Important notes and recommendations

The drivers and firmware recipe information for HP ProLiant servers and options can be found at the following link: <http://vibsdepot.hp.com/hpq/recipes>.

AMS and Active Health Installation

AMS and Active Health is shipped as part of the HP Custom Image, the HP ESXi Offline Bundle and the new Agentless Management Service Offline Bundle. The HP Custom Image and the HP ESXi Offline Bundle also include the HP Insight Management WBEM Providers. The AMS Offline Bundle only includes the providers required to support online firmware update and SmartArray, DIMM Status and iLO reporting in vCenter. Customers can manage their ProLiant servers using Agentless Management without installing the AMS Offline Bundle. Only customers who intend to manage their ProLiant servers using only Agentless Management and do not need the full set of HP Insight Management WBEM Providers installed should install the AMS Offline Bundle. See the *Deploying and updating vSphere 5.0 on ProLiant servers* white paper for more information.

If the customer has vSphere 5.1 U1 and is currently using HP Insight Management WBEM Providers for ESXi and requires Agentless Management and does not need the full set of providers installed, they need to perform the following step:

- Install the AMS Offline Bundle to replace the HP ESXi Offline Bundle

If the customer has vSphere 5.1 U1 and is currently using Agentless Management and does not have the full providers installed and wants to move to using HP Insight Management WBEM Providers for vSphere, they need to perform the following step:

- Install the HP vSphere Offline Bundle to replace the AMS Offline Bundle.

System Memory required for installing vSphere 5.1 U1 Customized Image

VMware vSphere will not install on an HP Gen8 server with 2 GB or less system memory. Although VMware's stated minimum installation requirement is 2 GB of system memory, HP's Gen8 platforms do not expose enough of the 2 GB of system memory to the operating system, causing the installation to fail. This issue is resolved by populating the system with more than 2 GB of memory.

HP Dynamic Smart Array Controllers cannot be used as the target for a core dump (B120i with PCI ID 8086 1C04 1590 006C)

SAS WWIDs for b120i controllers will be non-unique

FCoE on Emulex CNAs

To support FCoE on Emulex CNAs on vSphere 5.1 U1, HP recommends using the versions of the vSphere 5.1 U1 Emulex drivers as defined in the *HP ProLiant server and option firmware and driver support recipe* document available at: <http://vibsdepot.hp.com>.

iSCSI on Emulex

iSCSI on Emulex is now supported on vSphere 5.1 U1 using the versions of the Emulex drivers defined in the October *HP ProLiant server and option firmware and driver support recipe* document available at: <http://vibsdepot.hp.com>.

HP Insight Management WBEM Providers do not report the correct Smart Array License version

The Smart Array License version reported by the HP Insight Management WBEM providers ('VersionString' property in the SMX_SALicense class) is empty or has a wrong value. Consumers of HP Insight Management WBEM Providers like HP SIM will also be affected as they do not get the appropriate Smart Array license version from the provider.

The custom image/depot contains a vStorage APIs for Array Integration (VAAI) plugin for the P2000 G3 array. ESXi hosts configured with a P711m, P712m or P721m Smart Array controller, P2000 G3 storage array, and the P2000 G3 VAAI plugin will experience an issue which impacts boot from storage and datastore creation on attached P2000 LUNs. As a result of this issue, booting the ESXi host from a P2000 LUN is not supported.

To support datastores on the P2000, a workaround must be implemented which disables the VAAI Atomic Test and Set (ATS) primitive. To disable ATS, execute the following command on the ESXi host from local command shell or remote esxcli:

```
esxcli system settings advanced set -i 0 -o /VMFS3/HardwareAcceleratedLocking
```

Smart Array Controller incorrectly reports Degraded status

Fixed issue where HP Insight Management WBEM Providers were incorrectly reporting a 'Degraded' status for the Smart Array Controllers. This caused VMware vSphere Management Console under Health Status category to display a 'Warning' Status (Yellow Exclamation) for the HP Smart Array Controllers. HP System Insight Manager and Insight Control for vCenter and other users of the HP Insight Management WBEM Providers would also report the Smart Array Controller as 'Degraded'.

Smart Array physical drive incorrectly reports OK status

Fixed issue where HP Insight Management WBEM Providers were not correctly reporting a not-OK status for a removed drive connected to a Smart Array Controller. This caused HP System Insight Manager, VMware vSphere Management Console, Insight Control for vCenter, and other users of the HP Insight Management WBEM Providers to report the physical drive as OK after it was removed.

Server reports incorrect processor Model

Fixed issue where HP Insight Management WBEM Providers would report an incorrect Processor Model for ProLiant servers and blades. For example: Intel(R) Family: Intel(R) Xeon(TM) 2.5GHz (x86 Family 179 Model 125 Stepping 7) is reported instead of the correct Intel(R) Family: Intel(R) Xeon(TM) 2.5GHz (x86 Family 179 Model 45 Stepping 7).