

HP BladeSystem Matrix 6.2 Update 1 Compatibility Chart



HP Part Number: 655609-006
Published: August 2012

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Intended audience

This document is for the person who installs, administers, and troubleshoots servers and storage systems. HP assumes you are qualified in the servicing of computer equipment and trained in recognizing hazards in products with hazardous energy levels.

Revision history

Document version	Published	Changes
655609-006	August 2012	HP BladeSystem Matrix 6.2 Update 1 firmware revisions <ul style="list-style-type: none">• Adds Onboard Administrator (OA) 3.56• Adds HP Virtual Connect 3.60• Upgrades Integrity i2 server blade firmware to 26.33• Upgrades firmware revisions found in SPP 2012.06.0(B)• Upgrades HP Firmware Flash for Emulex Fibre Channel Host Bus and Converged Network Adapters• Upgrades ProLiant server blade system ROM
655609-005	April 2012	HP BladeSystem Matrix 6.2 Update 1 firmware revisions <ul style="list-style-type: none">• Upgraded firmware revisions found in SPP 2012.02.0 and HPSUM Integrity bundle• Upgraded Onboard Administrator (OA) to 3.55
655609-004	December 2011	HP BladeSystem Matrix 6.2 Update 1 firmware revisions <ul style="list-style-type: none">• Upgrades HP Onboard Administrator (OA) to 3.32, HP Integrated Lights-Out 2 Advanced (iLO2) 2.06, Emulex 4.0.360.15, and the latest ProLiant server blade system ROMs as a set.
655609-003	September 2011	HP BladeSystem Matrix 6.2 Update 1 firmware revisions <ul style="list-style-type: none">• Upgrades to HP Onboard Administrator (OA) 3.31, HP Integrated Lights-Out 2 Advanced (iLO2) 2.06, HP Integrated Lights-Out 3 Advanced (iLO3) 1.26, Virtual Connect (VC) 3.18, and Matrix ProLiant server blade system ROMs as a set• Adds support for PSP 8.70 in ProLiant Support Pack table• Changes to Insight Control server deployment table
655609-002	August 2011	Reserved
655609-001	April 2011	HP BladeSystem Matrix 6.2 Update 1 firmware revisions <ul style="list-style-type: none">• Upgrades to HP Virtual Connect (VC) 3.18 and Integrated Lights-Out Advanced (iLO3) 1.20 as an atomic set• Adds 2.102.517.701 version to NC553i for BL460c G7 blades• Upgrade to Smart Array P410i 3.66

Document version	Published	Changes
628452-003	December 2010	<p>HP BladeSystem Matrix 6.2 Update 1</p> <p>Hardware</p> <ul style="list-style-type: none"> • Adds HP BladeSystem Matrix FlexFabric Starter and Expansion Kit • Adds NC551m card <p>Firmware</p> <ul style="list-style-type: none"> • Upgrades HP Onboard Administrator (OA) version to 3.21 • Upgrades Virtual Connect (VC) to 3.15 • Upgrades Integrated Lights-Out Advanced (iLO3) to 1.15 <p>Software</p> <p>Updates Insight software from 6.2 to 6.2 Update 1</p>
628452-002	December 2010	Integrity managed node firmware updates
628452-001	October 2010	Initial HP BladeSystem Matrix 6.2 release

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1 About this document

As of June 2011, the product name of HP BladeSystem Matrix has been renamed to HP CloudSystem Matrix. While some documents before June 2011 may continue to have references to the HP BladeSystem Matrix product name, these references are interchangeable with HP CloudSystem Matrix.

This document specifies the HP BladeSystem Matrix 6.2 Update 1 definition of hardware, firmware, and software. The hardware components, the firmware versions, and the software versions listed in this document have been tested as a solution set, and are fully supported by HP. For HP BladeSystem Matrix support, HP cannot support the use of hardware or versions of firmware or software that are not part of this HP BladeSystem Matrix 6.2 Update 1 definition.



CAUTION: The specific firmware and software versions listed in this document provide support for HP BladeSystem Matrix 6.2 Update 1 and must be used together to ensure complete solution component compatibility and full functionality, since these have been tested as a set. Using other version levels, including later revisions of individual components, might result in operational issues. Always refer to the latest version of this document at www.hp.com/go/matrixcompatibility.



IMPORTANT: For VMware ESX/ESXi customers, the 2012.06.0(B) SPP is not supported. VMware customers should continue to use the *HP BladeSystem Matrix 6.2 Update 1 Compatibility Chart* located at: <http://bizsupport2.austin.hp.com/bc/docs/support/SupportManual/c02556479/c02556479.pdf>. If an upgrade is desired, then contact HP Technical Services.

2 HP BladeSystem Matrix hardware

Enclosure and server blades

This chapter defines the supported enclosures and options as well as server blades and options for HP BladeSystem Matrix.

HP BladeSystem Matrix starter and expansion kits

Standard components

All starter and expansion kits contain:

- HP BladeSystem c7000 enclosure with 6 power supplies, 10 fans
- HP BladeSystem c7000 Onboard Administrator with KVM option, redundant pair
- HP BladeSystem Matrix documentation CD
- HP BladeSystem Matrix label attached to 10000 series rack door handle

Interconnect modules

HP BladeSystem Matrix offers a choice of FlexFabric or Flex-10 starter and expansion kits. FlexFabric supports Fibre Channel over Ethernet (FCoE) technology. In addition to the standard components, the Flex-10 HP BladeSystem Matrix starter and expansion kits contain:

- A redundant pair of HP Virtual Connect Flex-10 10Gb Ethernet interconnect modules
- A redundant pair of HP Virtual Connect 8Gb 24-Port FC interconnect modules

Alternatively, the HP BladeSystem Matrix FlexFabric Starter and Expansion Kit contain:

- A redundant pair of HP Virtual Connect FlexFabric 10Gb 24-Port modules

Additional interconnect modules may be purchased as needed, and should be configured in redundant pairs per best practices. Interconnect bays 5 through 8 are available for additional interconnects in all HP BladeSystem Matrix starter and expansion kits. Interconnect bays 3 and 4 are also available for additional Virtual Connect (VC) FlexFabric modules in HP BladeSystem Matrix FlexFabric starter and expansion kits.



IMPORTANT: When HP BladeSystem Matrix FlexFabric enclosures are configured with any ProLiant G6 blades, two additional HP Virtual Connect FlexFabric 10Gb/24-port modules must be placed in interconnect bays 3 and 4. Each blade using those modules requires the NC551m Dual Port FlexFabric 10Gb Converged Network Adapter (CNA). Do not add HP Virtual Connect FlexFabric 10Gb/24-port modules to existing BladeSystem Matrix c7000 enclosures that are using HP Virtual Connect Flex-10 10Gb Ethernet modules and HP Virtual Connect 8Gb 24-port FC modules for BladeSystem c-Class. Mixing Virtual Connect FlexFabric and non-FlexFabric legacy Virtual Connect modules is not permitted.

HP c-Class blade servers

Server blades	Matrix FlexFabric Starter and Expansion Kit	Matrix Flex-10	
		Matrix Flex-10 Starter and Expansion Kit	Matrix with HP-UX Starter and Expansion Kit
HP Integrity BL860c HP Integrity BL870c		✓	✓
HP Integrity BL860c i2 HP Integrity BL870c i2 HP Integrity BL890c i2		✓	✓
HP ProLiant BL460c G5 HP ProLiant BL465c G5 HP ProLiant BL495c G5 HP ProLiant BL680c G5 HP ProLiant BL685c G5		✓	✓
HP ProLiant BL280c G6 HP ProLiant BL460c G6 HP ProLiant BL465c G6 HP ProLiant BL490c G6 HP ProLiant BL495c G6 HP ProLiant BL685c G6	✓ ¹	✓	✓
HP ProLiant BL460c G7 HP ProLiant BL465c G7 HP ProLiant BL490c G7 HP ProLiant BL685c G7	✓ ²	✓	✓

¹ When HP BladeSystem Matrix FlexFabric enclosures are configured with any ProLiant G6 blades, two additional HP Virtual Connect FlexFabric 10Gb/24-port modules must be placed in interconnect bays 3 and 4. Each blade using those modules requires the NC551m Dual Port FlexFabric 10Gb Converged Network Adapter (CNA).

² When BladeSystem Matrix FlexFabric enclosures are configured with only ProLiant G7 blades, VC FlexFabric modules are placed in interconnect bays 1 and 2. In this configuration, the FlexFabric LOMs provided with ProLiant G7 blades enable the full functionality provided by VC FlexFabric, hence no mezzanine cards are required.

Mezzanine card options

This section defines supported mezzanine cards for blade servers. The higher bandwidth 10Gb NICs and 8Gb HBAs listed below are supported and recommended. Lower bandwidth options are also supported.

Supported FC HBA mezzanine cards are required for server blades in HP BladeSystem Matrix Starter or Expansion kits which include VC-FC 8Gb modules. An additional FC mezzanine is required when connecting a server blade to additionally configured VC-FC 8Gb modules.

FC HBA mezzanine cards

FC HBA mezzanine cards	Supported ProLiant G5 server blades	Supported ProLiant G6 and G7 server blades	Integrity BL860c and BL870c server blades	Integrity i2 server blades
HP BLc QLogic QMH2562 8Gb FC HBA for HP c-Class BladeSystem HP BLc Emulex LPe1205 8Gb FC HBA for HP c-Class BladeSystem		✓ ¹	✓	✓
HP BLc QLogic QMH2462 4Gb FC HBA for HP c-Class BladeSystem HP BLc Emulex LPe1105-hp 4Gb FC HBA for HP c-Class BladeSystem	✓	✓	✓	

Not supported on the BL465c G6 and BL495c G6 server blades

FlexFabric and Flex-10 NIC mezzanine cards

Each server blade in an HP BladeSystem Matrix enclosure configured with additional VC FlexFabric modules or configured with ProLiant G6 server blades require the following mezzanine card:

- NC551m Dual Port FlexFabric 10Gb Converged Network Adapter (CNA)

See the table below for a list of all supported NIC cards.

Supported NIC mezzanine cards

Supported NIC mezzanine cards	Supported ProLiant G5 server blades	Supported ProLiant G6 and G7 server blades	Integrity BL860c and BL870c server blades	Integrity i2 server blades
NC325m PCI Express Quad Port Gigabit Server Adapter NC326m PCI Express Dual Port Gigabit Server Adapter NC382m PCI Express Dual Port Multifunction Gigabit Server Adapter	✓	✓ ¹		
NC360m Dual Port 1GbE BL-c Adapter NC364m Quad Port 1GbE BL-c Adapter			✓	✓
NC532m Dual Port 10GbE Multifunction BL-c Adapter	✓	✓	✓	✓

Supported NIC mezzanine cards	Supported ProLiant G5 server blades	Supported ProLiant G6 and G7 server blades	Integrity BL860c and BL870c server blades	Integrity i2 server blades
NC542m Dual Port Flex-10 10GbE BL-c Adapter		✓		
NC550m 10Gb 2-port PCIe x8 Flex-10 Ethernet Adapter	✓ ²	✓		
NC551m Dual Port FlexFabric 10Gb Converged Network Adapter (CNA)		✓ ³		

¹ The NC326m is not supported on HP ProLiant G7 server blades

² The NC550m is not supported on the BL460c G5, BL465c G5, and BL685c G5 server blades

³ The NC551m is not supported on the BL460c G7 and BL490c G7 server blades

Storage support

HP BladeSystem Matrix supports the use of virtual and physical logical servers. Physical logical servers use storage provisioned from the Storage Area Network (SAN) for flexible movement. Local disk boot for physical servers through Insight Orchestration is supported, but boot-from-SAN is recommended for maximum flexibility.

Blade server deployments

HP recommends Fibre Channel Storage Area Network with boot from SAN capability for physical server blade deployments. Boot and data volumes are pre-provisioned LUNs which can be managed through logical server storage pool entries. HP BladeSystem Matrix supports any Fibre Channel (FC) storage solution that supports the Virtual Connect environment, N_Port ID Virtualization (NPIV), and boot from SAN capability. To realize the benefits of Virtual Connect logical servers, including the ability to move logical servers and to easily repurpose server blades associated with inactive logical servers, any local disks must be removed or disabled.

HP BladeSystem Matrix does not support physical provisioning with the HP StorageWorks SAN Virtualization Services Platform (SVSP). SVSP does not support the presentation of storage to a Virtual Connect HBA initiator WWN that is not visible on the SAN fabric at the time of the presentation. Virtual Connect initiator WWNs are not visible on the SAN fabric until they are applied to a server HBA which has been powered-on.

For fully automated recovery, Insight Recovery requires an EVA or XP array per site, in conjunction with HP StorageWorks Continuous Access replication software. If XP storage is used, Cluster Extension for XP software version 3.01 or later is also required.

VM guest storage

HP BladeSystem Matrix supports managing VM guests as logical servers using storage from various technologies as supported by the hypervisor.

In HP BladeSystem Matrix, backing store for virtual machines on VMware ESXi can be Fibre Channel, iSCSI, NFS, or local disk storage. Backing store for virtual machines on Microsoft Hyper-V can be Fibre Channel, iSCSI, or local disk storage. NFS is not supported for Hyper-V.

HP BladeSystem Matrix automatically provisions logical servers to VMs across the supported storage (FC, iSCSI, local disk, and, for VMware only, NFS). When iSCSI or NFS are used for VM backing store, the storage volume must be manually created and presented to the hypervisor. Fibre Channel storage pool entries can be automatically associated to the logical server by Insight Orchestration.

VM guest storage options

Storage type	VMware VM		Microsoft Hyper-V VM (NTFS)	Integrity VM
	VM File System (VMFS)	Raw Disk Mapping (RDM)		
Fibre Channel	√	√ ⁴	√	√ ^{2, 4}
iSCSI ³	√ ^{1, 2}		√ ²	
NFS	√ ²			
DAS/SAS (local)	√ ²		√ ²	
Shared Logical Volume Manager (SLVM)				√ ²

¹ Supported for ESX 4.0 and later

² Not supported by Insight Recovery

³ See below for supported iSCSI configurations

⁴ Not supported by Insight Orchestration

For Integrity Virtual Machine environments, HP BladeSystem Matrix supports the use of SLVM (Shared Logical Volume Manager) volumes with Serviceguard (SG) or whole LUNs. Storage pool entries cannot be associated with Integrity VM based logical servers using either storage option. Only HP-UX VM guests are supported.

Integrity VM logical server operations for storage types

Logical server operations	Whole LUNs	SLVM with Serviceguard ¹
Import	√	√
Online move	√	√
Unmanage	√	√
Power on/off	√	√
Create		√
Modify		√
Activate		√
Deactivate		√
Delete		√

¹ Supported by Insight Orchestration

Storage and switch recommendations

Fibre Channel SAN

To utilize Fibre Channel storage, the customer must provide connectivity to a compatible FC SAN array. End-to-end support for a Fibre Channel storage device is generally certified by the storage vendor. Please refer to the vendors' support documentation for details. The FC SAN array must meet the following requirements:

- The storage device must be certified by the storage vendor to work with the HP Virtual Connect modules and HBAs (or CNAs), as well as the operating systems and hypervisors, that will be used in the HP BladeSystem Matrix.
- The storage device must support boot from SAN.
- The storage device must be able to present LUNs on the storage fabric without requiring visibility to the HBA initiator.

Customer-supplied Fibre Channel switches to an external SAN must support boot from SAN and NPIV functionality.

See the HP website <http://h18004.www1.hp.com/products/blades/components/c-class-sans.html> for more information on HP StorageWorks or third-party Fibre Channel SAN arrays certified for HP BladeSystem c-Class servers.

HP recommends HP StorageWorks (XP, EVA, and MSA) disk arrays. Specifically, the EVA4400 has been optimized for ordering and fulfillment with HP BladeSystem Matrix. To take advantage of the storage validation feature of Insight Dynamics, the following HP StorageWorks disk arrays are required:

- MSA1000/1500
- MSA2000fc G2
 - Using explicit mapping (default mapping not yet supported for storage validation)
 - MSA SMI-S provider version 1.1.2 or later
- EVA3000/5000/4x00/6x00/8x00
 - Command View versions 9.1, 9.2/9.21, 9.3
 - Support for a password-protected EVA array requires Command View EVA be configured to enable password access to the array (with the same password as is set on the array)

Use of Insight Recovery requires an EVA or XP array per site, in conjunction with HP StorageWorks Continuous Access replication software. If XP storage is used, Cluster Extension for XP software version 3.01 or later is also required. HP StorageWorks XP20000 and XP24000 disk arrays providing storage for Microsoft Hyper-V hosts require specified array firmware and host mode settings.

Refer to the HP website (<http://www.hp.com/storage/spock>) for a list of additional supported Fibre Channel switches and storage devices that are supported by Virtual Connect. Simple registration is required. Following login, navigate to **Other Hardware > Virtual Connect > HP VC 8Gb 24-Port Module**.

iSCSI SAN

To utilize iSCSI, the customer must provide connectivity to a compatible iSCSI SAN. As with Fibre Channel storage, end-to-end support for an iSCSI storage device is generally certified by the storage vendor.

The following iSCSI initiators are supported with HP BladeSystem Matrix:

- VMware iSCSI software initiator included with the VMware ESX hypervisor
- Microsoft iSCSI software initiator included with the Microsoft Hyper-V hypervisor
- Only iSCSI storage devices certified by the storage vendor, from the OS/hypervisor through the initiator (or HBA) to the iSCSI target. Please refer to the iSCSI storage vendor's documentation for details.

VMware and Microsoft independently certify 3rd party devices with their respective operating systems, hypervisors, and iSCSI initiators. Confirmation of device support by the hypervisor vendor is a prerequisite to support in HP BladeSystem Matrix.

As always, the versions of operating systems, hypervisors, physical servers and associated IO cards and firmware must be listed in this HP BladeSystem Matrix Compatibility Chart.

HP recommends the following iSCSI targets as backing storage for virtual machine guests:

- HP StorageWorks P4300 G2 and P4500 G2 SAN Solutions (www.hp.com/go/p4000)
- HP StorageWorks MSA2000i (http://h18006.www1.hp.com/storage/disk_storage/msa_diskarrays/index.html)

For more information on support for HP iSCSI devices, please refer to:

<http://www.hp.com/storage/spock>

For more information on Windows and ESX support for iSCSI devices, please refer to:

- Windows: <http://www.windowsservercatalog.com/>
- VMware: <http://www.vmware.com/resources/compatibility/search.php>

iSCSI LAN/VLAN switches

HP recommends dedicated iSCSI LAN/VLANs for iSCSI implementations. HP recommends:

- HP ProCurve 6600 series (models with 10 Gb option)
- HP ProCurve 8200zl series
- HP ProCurve 5400zl series

NOTE: For security and performance purposes, HP recommends a dedicated network for iSCSI traffic.

HP ProLiant CMS options

HP offers a choice of rack-mounted ProLiant server (DL or ML) or ProLiant server blade (BL) as central management server (CMS) host for HP BladeSystem Matrix. HP recommends a rack-mounted ProLiant server as the CMS host so customers can use all available and licensed enclosure blade bays for managed target blades and workloads.

The BladeSystem Matrix blade server firmware recipe described in Chapter 3 of this document pertains to a blade hosting a CMS. For an HP ProLiant rack-mounted server hosting a CMS, firmware updates are not required. Consult your HP sales representative for specifications for an appropriate rack-mounted server to host the CMS.

3 HP BladeSystem Matrix firmware

The HP BladeSystem Matrix firmware definition consists of the following elements:

- ProLiant firmware from the HP Service Pack for ProLiant (SPP) 2012.06.0(B) or 2012.02.0 located at <http://www.hp.com/go/spp/download>. Unless otherwise indicated, all versions are in the HP 2012.06.0(B) or 2012.02.0 SPP and must be updated as a set.

For a list of SPP release contents for ProLiant:

1. Go to <http://www.hp.com/go/spp>.
 2. Select **SPP Documentation**.
 3. Click the PDF under the Contents Report column for **HP Service Pack for ProLiant 2012.06.0(B)** or 2012.02.0.
- Integrity BL8x0c i2 firmware (SAS controllers, network mezzanines, and HBAs) can be downloaded from <http://www.hp.com/bizsupport>.
 - Enclosure firmware (OA and VC) can be obtained from the HP SPP from <http://www.hp.com/bizsupport>.

Enclosure firmware

Onboard Administrator

Component	Version
HP BladeSystem c7000 Enclosure Onboard Administrator (OA)	3.56 ¹ 3.55 ² 3.50 ³ 3.32 3.31 3.21

¹ HP recommends updating this version as part of the August 2012 revision. For ProLiant, this version is not on either SPP but can be downloaded from www.hp.com. For Integrity, it can be downloaded from <http://www.hp.com/bizsupport>. See the *HP CloudSystem Matrix 7.1, 7.0, 6.3, and 6.2 Update Instructions for August 2012 Revisions* for more information.

² This version is included on SPP 2012.06.0(B) or it can be downloaded from www.hp.com. This version is also supported as part of the April 2012 revisions.

³ HP recommends updating this version as part of the April 2012 revision. This version is included in the SPP 2012.02.0.

Virtual Connect

Component	Version
HP Blade System c-Class Virtual Connect Firmware, Flex-10 10Gb Ethernet, 8Gb 20-port and 8Gb 24-port FC, and FlexFabric 10Gb/24-port Interconnect Modules ¹	3.60 ² 3.51 ³ 3.18 3.15 ⁴

¹ The VC firmware package contains the specific firmware images for the various Interconnect modules and automatically updates the firmware on these modules when flashed. For Interconnect module specific firmware version information, see the VC firmware release notes at <http://www.hp.com/go/vcdocs>.

² HP recommends updating this version as part of the August 2012 revision. This version is included in SPP 2012.06.0(B) or it can be downloaded from <http://www.hp.com/bizsupport>.

³ HP recommends updating this version as part of the April 2012 revision. This version is included in the SPP 2012.02.0.

⁴ This version is not available on the Firmware DVD 9.20(B) and must be downloaded from www.hp.com. See the "Install Virtual Connect 3.15 firmware" section in the *HP BladeSystem Matrix 6.2 Release Notes* for installation instructions.

HP ProLiant blade server firmware

BIOS

Server blade model	Version
HP ProLiant BL280c G6	I22 2011.05.05 ¹ I22 2010.0816
HP ProLiant BL460c G5	I23 2011.05.02 ¹ I23 2010.04.26
HP ProLiant BL460c G6	I24 2011.05.05 ¹ I24 2010.08.16
HP ProLiant BL460c G7	I27 2011.05.05 ¹ I27 2010.09.30
HP ProLiant BL465c G5 and G6	A13 2011.05.02 ¹ A13 2009.12.08
HP ProLiant BL465c G7	A19 2012.03.19 ¹ A19 2011.12.28 ² A19 2011.05.10 A19 2010.09.30
HP ProLiant BL490c G6	I21 2011.05.05 ¹ I21 2010.08.16
HP ProLiant BL490c G7	I28 2011.05.05 ¹ I28 2010.09.30
HP ProLiant BL495c G5 and G6	A14 2011.05.02 ¹ A14 2009.12.09
HP ProLiant BL680c G5	I17 2011.05.02 ¹ I17 2010.03.02
HP ProLiant BL685c G5	A08 2011.05.02 ¹ A08 2009.12.14
HP ProLiant BL685c G6	A17 2011.05.02 ¹ A17 2009.12.09

Server blade model	Version
HP ProLiant BL685c G7	A20 2012.03.19 ¹ A20 2011.12.29 ² A20 2011.08.04 A20 2011.05.10 A20 2010.09.30

¹ HP recommends updating this version as part of the August 2012 revision. This version is included in SPP 2012.06.0(B).

² HP recommends updating this version as part of the April 2012 revision. This version is included in the SPP 2012.02.0.

Power management controller firmware

Component	Version
Power Management Controller Firmware (for ProLiant servers with iLO2)	3.4(D)
Advanced Power Capping Microcontroller Firmware (for ProLiant G7 servers with iLO3)	1.6 ¹

¹ This version is not available on the Firmware DVD; it is delivered with the server blade.

Integrated Lights-Out Advanced for BladeSystem

Component	Version
HP Integrated Lights-Out 2 (iLO2) Advanced for BladeSystem	2.09 ¹ 2.07 ² 2.06 2.01
HP Integrated Lights-Out 3 (iLO3) Advanced for BladeSystem (for ProLiant G7 blades)	1.28 B ¹ 1.28 ² 1.26 1.20 1.15

¹ HP recommends updating this version as part of the August 2012 revision. This version is included in SPP 2012.06.0(B).

² HP recommends updating this version as part of the April 2012 revision. This version is included in the SPP 2012.02.0.

Smart Array controllers

Component	Version
Smart Array P410i	5.70 ¹ 5.14 ² 3.66 ³ 3.52
Smart Array P400 and P400i	7.22
Smart Array E200 and E200i	1.86

¹ HP recommends updating this version as part of the August 2012 revision. This version is included in SPP 2012.06.0(B).

² HP recommends updating this version as part of the April 2012 revision. This version is included in the SPP 2012.02.0

³ See the Smart Array firmware 3.66 release notes and installation instructions at www.hp.com for more details.

Ethernet integrated controllers

Server Blades	Component	Version
HP ProLiant BL280c G6	NC362i Integrated Dual Port BL-c Gigabit Server Adapter	N/A, included in system ROM
HP ProLiant BL680c G5 HP ProLiant BL685c G5	NC326i Integrated Dual Port PCI Express Gigabit Server Adapter	HP Broadcom Online Firmware Upgrade Utility <ul style="list-style-type: none"> • For Linux version 2.5.14¹ • For Linux version 2.4.25² • For Linux version 2.2.8 or 2.3.0³ • For Windows Server 2008 version 3.1.05¹ • For Windows version 2.1.5.9 (B)
HP ProLiant BL465c G5 HP ProLiant BL465c G6	NC370i Multifunction Network Adapter	HP Broadcom Online Firmware Upgrade Utility
HP ProLiant BL460c G5 HP ProLiant BL680c G5 HP ProLiant BL685c G5	NC373i Integrated Multifunction Gigabit Server Adapter	<ul style="list-style-type: none"> • For Windows Server 2008 version 3.1.05¹ • For Windows Server 2008 version 3.0.1.7²
HP ProLiant BL495c G5 HP ProLiant BL460c G6 HP ProLiant BL490c G6 HP ProLiant BL495c G6 HP ProLiant BL685c G6	NC532i Dual Port Flex-10 10GbE Multifunction Server Adapter	<ul style="list-style-type: none"> • For Windows version 2.1.5.9 (B) • For Linux version 2.5.14¹ • For Linux FW component version 2.2.8 or 2.3.0³
HP ProLiant BL460c G7 ⁵ HP ProLiant BL490c G7	NC553i Dual Port FlexFabric 10GbE Converged Network Adapter ⁴	HP Firmware Flash for Emulex FC HBA and CNA version 2012.06.08 ⁶ 2012.02.01 Be2/Be3 Emulex
HP ProLiant BL465c G7 HP ProLiant BL685c G7	NC551i Dual Port FlexFabric 10Gb Converged Network Adapter ⁴	<ul style="list-style-type: none"> • 4.1.402.20⁶ • 4.0.493.0² • 4.0.360.15 (4.0.360.15 FW is included on the 4.0.360.20 ISO)⁵ • 2.102.517.701 • 2.102.517.703 • 2.102.517.6

¹ HP recommends updating this version as part of the August 2012 revision. This version is included in SPP 2012.06.0(B).

² HP recommends updating this version as part of the April 2012 revision. This version is included in the SPP 2012.02.0.

³ PSP 8.60 supports version 2.2.8 and PSP 8.70 supports version 2.3.0.

⁴ Compatible with FlexFabric and Flex-10. Fibre Channel over Ethernet (FCoE) capability requires the HP BladeSystem Matrix FlexFabric starter and expansion kit.

⁵ If a CRC flash error is encountered on the BL460c G7 when upgrading from a version earlier than 2.102.517.701, upgrade to version 4.0.360.15 using the 4.0.360.20 ISO. This version can be downloaded from www.hp.com.

⁶ HP recommends updating this version as part of the August 2012 revision. This version is not on the SPP but can be downloaded from www.hp.com. See the *HP CloudSystem Matrix 7.1, 7.0, 6.3, and 6.2 Update Instructions for August 2012 Revisions* for more information.

Ethernet mezzanine cards

Component	Version
NC325m PCI Express Quad Port Gigabit Server Adapter NC326m PCI Express Dual Port Gigabit Server Adapter ¹ NC382m PCI Express Dual Port Multifunction Gigabit Server Adapter NC532m Dual Port 10GbE Multifunction BL-c Adapter ²	HP Broadcom Online Firmware Upgrade Utility <ul style="list-style-type: none"> • For Windows Server 2008 version 3.1.0.5³ • For Windows Server 2008 version 3.0.1.7⁴ • For Linux version 2.2.8 or 2.3.0⁵ • For Windows version 2.1.5.9 (B)
NC542m Dual Port Flex-10 10GbE BL-c Adapter	HP Mellanox Online Firmware Upgrade Utility <ul style="list-style-type: none"> • For Linux Version 1.1.1 2.8.0000 • For Linux i386 Version 1.0.7 (09 Sept 2010)
NC550m 10GbE 2-port PCIe x8 Flex-10 Ethernet Adapter ⁶ NC551m Dual Port FlexFabric 10Gb Converged Network Adapter	HP Firmware Flash for Emulex FC HBA and CNA version 2012.06.08 ⁷ 2012.02.01 ⁴ Be2/Be3 Emulex <ul style="list-style-type: none"> • 4.1.402.20⁷ • 4.0.493.0⁴ • 4.0.360.15 (4.0.360.15 FW is included on the 4.0.360.20 ISO) • 2.102. 517.6

¹ The NC326m is not supported on HP ProLiant G7 server blades.

² VMware ESX/ESXi 4 driver version 1.52.12.v40.3 or later is strongly recommended.

³ HP recommends updating this version as part of the August 2012 revision. This version is included in SPP 2012.06.0(B).

⁴ HP recommends updating this version as part of the April 2012 revision. This version is included in the SPP 2012.02.0.

⁵ PSP 8.60 supports version 2.2.8 and PSP 8.70 supports version 2.3.0.

⁶ The NC550m is not supported on the BL460c G5, BL465c G5 and BL685c G5 server blades.

⁷ HP recommends updating this version as part of the August 2012 revision. This version is not on the SPP but can be downloaded from www.hp.com. See the *HP CloudSystem Matrix 7.1, 7.0, 6.3, and 6.2 Update Instructions for August 2012 Revisions* for more information.

Fibre Channel host bus adapter (FC HBA) mezzanine cards

Component	Firmware
QLogic QMH2462 4Gb FC HBA for HP c-Class BladeSystem	HP Firmware Flash for QLogic Fibre Channel Host Bus Adapters <ul style="list-style-type: none"> • Version 2012.05.01 BIOS: 3.08¹ • Version 2012.02.01 BIOS: 3.06² • Version 2010.05.19 BIOS: 2.15
QLogic QMH2562 8Gb FC HBA for HP c-Class BladeSystem Supported on ProLiant G6 and limited Integrity server blades only.	
Emulex LPe1105-hp 4Gb FC HBA for HP c-Class BladeSystem	HP Firmware Flash for Emulex FC HBA and CNA Version 2012.06.08 ³ Version 2012.02.01 ² Version: 6.03a11 Firmware: 2.82a4 BIOS 3.11a5 (Linux FW component version 2010.04.05(a))
Emulex LPe1205 8Gb FC HBA for HP c-Class BladeSystem Supported on ProLiant G6 and limited Integrity server blades only.	HP Firmware Flash for Emulex FC HBA and CNA Version 2012.06.08 ³ Version 2012.02.01 ² Version: 6.03a11 Firmware: 2.00a4 ² 1.11a5 BIOS: 3.11a5 (Linux FW component version 2010.04.05(a))

¹ HP recommends updating this version as part of the August 2012 revision. This version is included in SPP 2012.06.0(B).

² HP recommends updating this version as part of the April 2012 revision. This version is included in the SPP 2012.02.0.

³ HP recommends updating this version as part of the August 2012 revision. This version is not on the SPP but can be downloaded from www.hp.com. See the *HP CloudSystem Matrix 7.1, 7.0, 6.3, and 6.2 Update Instructions for August 2012 Revisions* for more information.

HP Integrity blade server firmware

Integrity firmware can be downloaded from www.hp.com/bizsupport.

Server blade firmware

Server blade model	Version
HP Integrity BL860c Server Blade	04.26
HP Integrity BL870c Server Blade	04.25
HP Integrity BL860c i2 Server Blade	26.33 ¹
HP Integrity BL870c i2 Server Blade	21.08
HP Integrity BL890c i2 Server Blade	

¹ This version can be downloaded from <http://www.hp.com/bizsupport> or see the *HP CloudSystem Matrix 7.1, 7.0, 6.3, and 6.2 Update Instructions for August 2012 Revisions* for installation instructions.

Serial attached storage (SAS) controllers

Server blade model	Component	Version
HP Integrity BL860c Server Blade	HP Multi Port SAS Controller FW	EFI: 3.05.1; Firmware: 1.23.45
HP Integrity BL870c Server Blade		Firmware: 1.23.33.0
HP Integrity BL860c i2 Server Blade	Smart Array P410i	EFI: 3.42
HP Integrity BL870c i2 Server Blade		Firmware: 5.16b0
HP Integrity BL890c i2 Server Blade		3.26

Ethernet mezzanine card

Component	Version
NC532m Dual Port 10GbE Multifunction BL-c Adapter	EFI: 5.2.58 ¹ EFI: 5.2.53 Firmware: 6.2.21 ¹ Firmware: 5.2.70 EFI: 5.2.27, MBA: 5.0.17, and Bootcode: 5.2.51
NC364m Quad Port 1GbE BL-c Adapter	EFI: 4.3.01 EFI: 3.8.18

¹ HP recommends updating this version as part of the August 2012 revision. This version can be downloaded from <http://www.hp.com/bizsupport>.

Fibre Channel host bus adapter (FC HBA) mezzanine card

Component	Version
QLogic QMH2562 8Gb FC HBA for HP c-Class BladeSystem	EFI: 2.22; Firmware: 5.03.15 EFI: 2.20; Firmware: 5.03.02
Emulex LPe1205-hp 8Gb FC HBA for HP c-Class BladeSystem	EFI: 4.01a5; Firmware: 2.00a4 ¹ EFI: 4.00a8; Firmware: 1.11x7
QLogic QMH2462 4Gb FC HBA for HP c-Class BladeSystem	EFI: 2.22; Firmware: 5.03.15 EFI: 2.20; Firmware: 5.03.02
Emulex LPe1105 4Gb FC HBA for HP c-Class BladeSystem	EFI:4.00a8; Firmware: 2.82a4

¹ HP recommends updating this version as part of the August 2012 revision. This version can be downloaded from <http://www.hp.com/bizsupport>.

4 Central management server software

HP Insight Software is not supported on a VM guest in an HP CloudSystem Matrix production environment.

CMS operating system

Operating system	Version
Windows Server® 2008, Enterprise Edition	R2 ^{1, 2}
Windows Server® 2008, Enterprise Edition	SP2: x86
Windows Server® 2008, Enterprise Edition	SP2: x64
Windows Server® 2008, Standard Edition	R2
Windows Server® 2008, Standard Edition	SP2: x64
Windows Server® 2003, Enterprise Edition	SP2: x64
Windows Server® 2003, Enterprise Edition	R2 SP2: x86
Windows Server® 2003, Enterprise Edition	R2 SP2: x64
Windows Server® 2003, Standard Edition	R2 SP2: x64
Windows Server® 2003, Standard Edition	SP2: x86
Windows Server® 2003, Standard Edition	SP2: x64

¹ For optimal performance and scalability, HP recommends Windows Server 2008 R2 Enterprise Edition.

² OS version required for CMS clustering.

HP Insight software is not supported on a virtual machine CMS guest in an HP BladeSystem Matrix production environment.



IMPORTANT: For manual OS installs, HP strongly recommends using ProLiant Support Pack (PSP) 8.70. To download PSP 8.70 go to www.hp.com/go/foundation.

HP Insight Software DVD

Software	Version
HP Insight Software (IS) DVD - Integrated Installer	6.2.1
HP Insight software advisor	6.2
HP Insight Dynamics	
HP Insight Dynamics capacity planning, configuration, and workload management	6.2.1
HP Insight Orchestration	6.2.1
HP Insight Recovery	6.2
HP Insight Control	6.2.0
HP Insight Control performance management	6.2.0
HP Insight Control power management	6.2.0
HP Insight Control virtual machine management	6.2.1
HP Insight Control server migration	6.2.0
HP Insight Control server deployment	6.2.1
HP Insight Control licensing and reports	6.2.0
HP Virtual Connect Enterprise Manager (VCEM)	6.2
HP Insight Remote Support Advanced Edition (IRSA)	A.05.50
HP Systems Insight Manager (HP SIM)	6.2.1HOTFIX62_001.jar
HP System Management Homepage (SMH)	6.2.2
HP Version Control Repository Manager (VCRM)	6.2.0
WMI Mapper	2.7.1
Management Information Base (MIB)	8.60
HP Insight Managed System Setup Wizard	6.2.0
HP Insight mxsync utility	6.2.0

Additional prerequisite software

Software product and version	Notes
.NET 1.1 Framework	This is a requirement of Insight Control server deployment. This software is required on the server where Insight Control server deployment is installed.
.NET 2.0 SP1 Framework	If .NET2.0 SP1 is not already installed, the HP Insight Software Installer installs it.
.NET 3.0 Framework	This is a requirement of Insight Orchestration.
.NET 3.5 SP1 Framework	This is a requirement of Insight Dynamics.
ASP.Net service	This is a requirement of Insight Control server deployment. This software is required on the server where Insight Control server deployment is installed.
Adobe Acrobat Reader	Adobe Acrobat Reader is required to read the PDF documents on the DVD.

Software product and version	Notes
Adobe Flash Player Version 10	Adobe Flash Player Version 10 is included with Systems Insight Manager. When an action requires Adobe Flash Player and Adobe Flash Player is not already installed, Insight software will provide a link to install it. All Flash players are for x86 browsers only. You can run an x86 browser on an x64 OS.
Drivers and agents	HP recommends using the 2012.02.0 or the 2012.06.0(B) SPP. If using any SPP, the same SPP must be used for the CMS and all managed nodes. The older PSPs listed in HP ProLiant Support Pack are still supported, however you must choose to use either the SPP or the PSPs; you may not mix them.
Microsoft iSCSI Software Initiator	This is a requirement of Insight Control server migration.
SNMP	SNMP service which must be installed and configured with the installation of the Windows operating system.
TCP/IP with DNS installed	System names must resolve to an IP address.
Windows Automated Installation KIT (WAIK) Version 1.1	If you are installing or upgrading Insight Control server deployment, you must first install Microsoft WAIK 1.1, also known as the "Automated Installation Kit (AIK) for Windows Server 2008." It is available at the Microsoft website. Installing Insight Control server deployment on Windows OSs localized in Italian or Spanish requires the English Windows AIK. The localized Italian or Spanish Windows AIK does not have support for WinPE IA-64, which is required to install Insight Control server deployment.
Windows Server 2003/2008 Insight Agents (SNMP):	Version 8.60, obtained from the ProLiant Support Pack 8.60
Windows Server 2003/2008 WMI Providers:	Version 2.7.1.0, obtained from the ProLiant Support Pack 8.60

Supported browsers

HP BladeSystem Matrix supports Microsoft Internet Explorer (IE) 7 and 8, as well as Firefox 3.x, for most users and tasks. Users of the Insight Control server deployment web interface will require IE7 or 8. Enabling Compatibility View is required if using IE8. The HP Storage Provisioning Manager requires a Windows-based browser.

Screen resolution

HP BladeSystem Matrix management software supports a minimum screen resolution of 1024 x 768. HP recommends 1280 x 1024.

Supported databases

Insight software requires a supported database either on the server that will act as the CMS or, for some configurations, on a remote server. If the CMS does not currently have a supported database installed on it, you must install a database before you begin installing Insight software. For your convenience, Insight Software DVD #1 contains Microsoft SQL Server 2005 Express, which you can install before you begin.



IMPORTANT: Insight software requires the Microsoft SQL Server database to be configured in non-binary collation mode; binary collation mode is not supported.

Supported databases

Database name and version	Local Database	Remote Database
Microsoft SQL Server 2008 Standard and Enterprise SP1 ¹	✓	✓
Microsoft SQL Express 2008 SP1	✓	
Microsoft SQL Server 2005 Standard and Enterprise SP3 ¹	✓	✓
Microsoft SQL Server 2005 Express Edition SP3 ²	✓	

¹ SQL Server 2005 and 2008 supports up to 1,500 systems and 50,000 events

² SQL Server 2005 Express Edition supports up to 500 systems and 5,000 events

Supported deployment services

HP BladeSystem Matrix integrates with several deployment services to enable seamless application provisioning and lifecycle management. The Insight software CMS installation process will allow the use of up to two deployment services provided one of the services is HP Ignite-UX. Consult the documentation for each deployment service for supported deployment environments. Chapter 5 of this document includes the environments supported by Insight Control server deployment software.

Supported deployment services

Deployment services	Version
HP Server Automation (SA)	7.83 ¹ or later
HP Ignite-UX	C.7.11.439 (or later)
Insight Control server deployment (included within HP BladeSystem Matrix)	6.2

¹ Insight Orchestration supports SA 7.83 or later. SA 7.83 requires Server Automation Hot Fix #113567, available August, 2010.

5 Managed system software

In general, HP BladeSystem Matrix supports the same managed node operating environments supported by HP Insight Dynamics management software, see the *HP Insight Software 6.2 Support Matrix* available at www.hp.com/go/insightdynamics/docs.

HP drivers and agents

HP recommends using the 2012.06.0(B) or 2012.02.0 SPP. If using either SPP, the same SPP must be used for the CMS and all managed nodes. The following older versions of the PSP are still supported, however you must choose to use either the SPP or the PSPs; you may not mix them.

HP ProLiant Support Pack

ProLiant Support Pack (PSP) ¹	Version
ProLiant Support Pack for Windows® Server	8.60 or 8.70 ²
ProLiant Support Pack for Red Hat Enterprise Linux 5	8.60 or 8.70 ²
ProLiant Support Pack for Red Hat Enterprise Linux 4	8.60
ProLiant Support Pack for SuSE Linux Enterprise Server 11	8.60 or 8.70 ²
ProLiant Support Pack for SuSE Linux Enterprise Server 10	8.60 or 8.70 ²

¹ The latest versions for the Windows and Linux Emulex drivers are available on the 2012.06.0(B) or 2012.02.0 SPP. Continued use of these PSPs may require separate updating of the Emulex drivers.

² The version of Insight Control server deployment in this release supports deployment of PSP 8.60. PSP 8.60 can be upgraded to PSP 8.70 manually.

Emulex converged network adapter drivers

Operating system	Emulex CNA	Version ¹
HP VMware ESX/ESXi 4.0, 4.0 U1, and 4.0 U2	VMware ESX/ESXi 4.0 Driver CD for Emulex Fibre Channel HBA	FCoE: 8.2.1.105.34
	VMware ESX/ESXi 4.x Driver CD for Emulex OneConnect 10Gb Ethernet Controller	NIC: 4.0.306.0
HP VMware ESX/ESXi 4.1	VMware ESX/ESXi 4.1 Driver CD for Emulex lpfc820 Fibre Channel HBA	FCoE: 8.2.1.105.34
	VMware ESX/ESXi 4.1 Driver CD for Emulex OneConnect oce1102 10Gb Adapter (iSCSI function)	iSCSI: 4.0.317.0
	VMware ESX/ESXi 4.x Driver CD for Emulex OneConnect 10Gb Ethernet Controller	NIC: 4.0.306.0

¹ See *HP CloudSystem Matrix 6.3 Update 1 Release Notes* for installation instructions.

ESX management agents

Agent	Version
ESX 4.0 Update 1 Insight Agents (SNMP)	8.6
ESX 4.0 Update 2 Insight Agents (SNMP)	
ESX 4.1 Insight Agents (SNMP)	8.6

ProLiant managed node operating system support

Operating system	Version
Windows Server® 2008, Standard Edition	SP2 ¹
Windows Server® 2008, Datacenter Edition	SP2 ¹
Windows Server® 2008, Enterprise Edition	SP2 ¹
Windows Server® 2008, Web Edition	SP2 ¹
Windows Server® 2008, Standard Edition	R2 (x64) ^{1, 2, 4}
Windows Server® 2008, Enterprise Edition	R2 (x64) ^{1, 2, 4}
Windows Server® 2008, Datacenter Edition	R2 (x64) ^{1, 2, 4}
Windows Server® 2008, Web Edition	R2 (x64) ^{1, 2, 4}
Windows Server® 2003, Standard Edition	SP2 ⁴
Windows Server® 2003, Enterprise Edition	SP2 ⁴
Windows Server® 2003, Web Edition	SP2 ⁴
Windows Server® 2003, Datacenter Edition	SP2 ⁴
Windows Server® 2003, Standard Edition	R2 SP2
Windows Server® 2003, Enterprise Edition	R2 SP2
Windows Server® 2003, Web Edition	R2 SP2
Windows Server® 2003, Datacenter Edition	R2 SP2
Red Hat Enterprise Linux 4 ³	4.6 ⁴ 4.7 4.8
Red Hat Enterprise Linux 5	5.3 5.4 5.5
SUSE Linux Enterprise Server 10	SP2 SP3
SUSE Linux Enterprise Server 11	Initial release ⁴ SP1 ⁴

¹ Microsoft Server Core installation option is not supported.

² Only available from Microsoft in 64-bit mode.

³ Red Hat Enterprise Linux 4 is supported for most HP BladeSystem Matrix operations except server migrations.

⁴ Not supported by HP Server Automation 7.83 as a HP BladeSystem Matrix deployment service.

ProLiant hypervisor and guest operating system support

Hypervisor	Supported OS
VMware ESX or ESXi Server 4.0 ¹ <ul style="list-style-type: none"> Update 1 Update 2 VMware ESX or ESXi Server 4.1 ¹ <ul style="list-style-type: none"> Initial release 	Microsoft Windows and Linux OSs listed among managed system operating systems above
Microsoft Windows Server 2008 Hyper-V SP2 ^{2, 3} Microsoft Windows Server 2008 R2 Hyper-V ^{2, 3} Microsoft Hyper-V Server 2008 SP2 ^{2, 3} Microsoft Hyper-V Server 2008 R2 ^{2, 3}	Microsoft OSs listed among managed system operating systems above, plus the following Linux operating systems: ⁴ <ul style="list-style-type: none"> RHEL 5.3, 5.4 and 5.5 emulated devices only SLES 10 with SP2 or SP3 SLES 11 initial release or with SP1

¹ For VMware ESX/ESXi customers, the 2012.06.0(B) SPP is not supported. VMware customers should continue to use the *HP BladeSystem Matrix 6.2 Update 1 Compatibility Chart* located at: <http://bizsupport2.austin.hp.com/bc/docs/support/SupportManual/c02556479/c02556479.pdf>. If an upgrade is desired, then contact HP Technical Services.

² Insight Recovery supports clustered Hyper-V R2 Windows guests as a technology preview in HP BladeSystem Matrix. Hyper-V SP2 is not supported.

³ Microsoft Server Core installation option is not supported.

⁴ RHEL and SLES VM guests on Hyper-V are not supported by Insight Orchestration or Insight Recovery.

VMware Virtual Center

Software	Version
VMware Virtual Center 2.5	Update 6
VMware Virtual Center 4.0	Update 1 Update 2
VMware Virtual Center 4.1	Initial release

Insight Control server deployment 6.2.1 support for HP ProLiant targets

Operating system	Version
Windows Server® 2008, Standard Edition	SP2
Windows Server® 2008, Datacenter Edition	SP2
Windows Server® 2008, Enterprise Edition	SP2
Windows Server® 2008, Standard Edition	R2 (x64)
Windows Server® 2008, Enterprise Edition	R2 (x64)
Windows Server® 2008, Datacenter Edition	R2 (x64)
Windows Server® 2003, Standard Edition	SP2
Windows Server® 2003, Enterprise Edition	SP2
Windows Server® 2003, Web Edition	SP2

Operating system	Version
Microsoft Hyper-V Server 2008	SP2
Microsoft Hyper-V Server 2008	R2 (x64)
Red Hat Enterprise Linux 4	4.8
Red Hat Enterprise Linux 5	5.5
SUSE Linux Enterprise Server 10	SP3 ¹
SUSE Linux Enterprise Server 11	SP1 ^{2, 3}
VMware ESX/ESXi 4.0	U2 ^{4, 5}
VMware ESX/ESXi 4.1	Initial release ^{4, 5}

¹ For FCoE, Insight Control server deployment does not currently support SLES 10 SP3.

² For FCoE, see "SLES11 SP1 x86 cannot be deployed with FCoE via Insight Control server deployment" in the *HP BladeSystem Matrix 6.2 Release Notes* for installation instructions.

³ For blades with more than 10 network ports, see "Network ports are not configured properly during HPIO deployment for SLES11 SP1 x86" in the *HP BladeSystem Matrix 6.2 Release Notes* for installation instructions.

⁴ For all ProLiant servers see the "Install ISO for VMware ESX 4 or later" section in the *HP BladeSystem Matrix 6.2 Release Notes* for installation instructions.

⁵ VMware ESXi cannot be deployed through Insight Orchestration. VMware ESXi can be manually deployed through Insight Control server deployment.

HP Integrity managed systems

Integrity managed node licenses

Licenses for managing HP BladeSystem Integrity c-Class server blades are purchased separately. Select either the Virtual Server OE (VSE-OE) or the larger HP-UX Data Center OE (DC-OE) operating environment to obtain the necessary Integrity management software licenses to use with HP BladeSystem Matrix. VSE-OE requires Serviceguard 11.20. For HP-UX information, see www.hp.com/go/hpux.

Integrity managed node operating system support

Operating system ¹	Version
HP-UX 11i v3	HP-UX 11.31 v3 1009

¹ Not supported by Insight Recovery

HP-UX agents

Software	Version
WBEM Agents (Integrity)	HP-UX: 1009

HP Integrity Virtual Machines

Software	Version
HP Integrity Virtual Machines	4.2.5

HP Integrity Virtual Machines require the installation of the following patches. In addition, the Logical Volume Manager (LVM) B.11.31.1010 on the VM Host must also be installed. The patches can be downloaded from <http://www.hp.com/go/hpsc>. In addition, LVM can be downloaded from www.software.hp.com by selecting HPUX 11i Software, High Availability.

Patches

Host/Guest	Patch
11i v3 VM host	Host storage AVIO drivers B.11.31.1201 ¹ Host network AVIO drivers B.11.31.11111 PHSS_41411 PHSS_41191 PHSS_41412 PHSS_41413
11i v3 guests	Guest storage AVIO drivers B.11.31.1201 Guest network AVIO drivers B.11.31.1111 PHSS_41413 PHSS_41414
11i v2 guests	PHSS_41415 PHSS_41416

¹ AVIO drivers can be downloaded from: <https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=AVIO>.

6 Support and other resources

Contacting HP

Information to collect before contacting HP

Be sure to have the following information available before you contact HP:

- HP BladeSystem Matrix Starter Kit or Expansion Kit c7000 enclosure serial number
- SAID (Service Agreement Identifier) if applicable
- Software product name
- Hardware product model number
- Operating system type and version
- Applicable error message
- Third-party hardware or software
- Technical support registration number (if applicable)



IMPORTANT: Be sure to mention that this is an HP BladeSystem Matrix configuration when you call for support. Each HP BladeSystem Matrix Starter Kit or Expansion Kit c7000 serial number identifies it as a HP BladeSystem Matrix installation.

How to contact HP

Use the following methods to contact HP technical support:

- See the Contact HP worldwide website:
<http://www.hp.com/go/assistance>
- Use the Contact HP link on the HP Support Center website:
<http://www.hp.com/go/hpsc>

In the United States, call 1-800-334-5144 to contact HP by telephone. This service is available 24 hours a day, 7 days a week. For continuous quality improvement, conversations might be recorded or monitored.

Registering for software technical support and update service

HP BladeSystem Matrix includes as standard, three or one year of 24 x 7 HP Software Technical Support and Update Service and 24 x 7 four hour response HP Hardware Support Service. This service provides access to HP technical resources for assistance in resolving software implementation or operations problems.

The service also provides access to software updates and reference manuals in electronic form as they are made available from HP. Customers who purchase an electronic license are eligible for electronic updates.

With this service, Insight software customers benefit from expedited problem resolution as well as proactive notification and delivery of software updates. For more information about this service, see the following website:

<http://www.hp.com/services/insight>

Registration for this service takes place following online redemption of the license certificate.

How to use your software technical support and update service

After you have registered, you will receive a service contract in the mail containing the Customer Service phone number and your Service Agreement Identifier (SAID). You need your SAID when you contact technical support. Using your SAID, you can also go to the Software Update Manager (SUM) webpage at <http://www.hp.com/go/hpsc> to view your contract online.

Warranty information

HP will replace defective delivery media for a period of 90 days from the date of purchase. This warranty applies to all Insight software products.

HP authorized resellers

For the name of the nearest HP authorized reseller, see the following sources:

- In the United States, see the HP U.S. service locator website:
http://www.hp.com/service_locator
- In other locations, see the Contact HP worldwide website:
<http://www.hp.com/go/assistance>

Documentation feedback

HP welcomes your feedback. To make comments and suggestions about product documentation, send a message to:

<mailto:docsfeedback@hp.com>

Include the document title and manufacturing part number in your message. All submissions become the property of HP.

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 Insight Dynamics end user license agreement (EULA) are included with HP Insight Dynamics. To view the EULA, use a text editor to open the `/opt/vse/src/README` file on an HP-UX CMS, or the `<installation-directory>\src\README` file on a Windows CMS. (The default installation directory on a Windows

CMS is C:\Program Files\HP\Virtual Server Environment, but this directory can be changed at installation time.)

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 to the HP home page:
<http://www.hp.com>
2. Click the **Support & Drivers** tab.
3. Click **Sign up: driver, support, & security alerts**, which appears under **Additional Resources** in the right navigation pane.
4. Select **Business & IT Professionals** to open the Subscriber's Choice webpage.
5. Do one of the following:
 - o Sign in if you are a registered customer.
 - o Enter your email address to sign-up now. Then, select the box next to **Driver and Support alerts** and click **Continue**. Select **HP BladeSystem Matrix Converged Infrastructure** from the **product family** section A, then select each of the **BladeSystem Matrix** entries in section B.

Related information

The latest versions of manuals (only the *HP BladeSystem Matrix Compatibility Chart* and *HP BladeSystem Matrix Release Notes* are available) and white papers for HP BladeSystem Matrix and related products can be downloaded from the web at

<http://h20000.www2.hp.com/bizsupport/TechSupport/DocumentIndex.jsp?contentType=SupportManual&lang=en&cc=us&docIndexId=64180&taskId=115&prodTypeId=3709945&prodSeriesId=4223779>.