

# HP BladeSystem Matrix Compatibility Chart

For supported hardware and software, including BladeSystem Matrix firmware set 1.01



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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.

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# About this document

## Overview

This document represents HP BladeSystem Matrix hardware and software components and versions, and the BladeSystem Matrix firmware set 1.01. The components and their applicable firmware or software versions listed in this document have been tested as a solution set, and are fully supported by HP. For BladeSystem Matrix support, HP cannot support the use of firmware or software versions that are not part of BladeSystem Matrix firmware set 1.01.

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 **CAUTION:** The specific software and firmware versions listed in this document provide support for BladeSystem Matrix 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 <http://www.hp.com/go/matrixcompatibility> (<http://www.hp.com/go/matrixcompatibility>).


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## Central Management Server (CMS)


### CMS operating system

Operating system	Version
Windows Server® 2008, Enterprise Edition	32 bit
Windows Server® 2003, Enterprise Edition	R2/SP2: 32 bit


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 **IMPORTANT:** For manual OS installs, HP strongly recommends using ProLiant Support Pack (PSP) 8.25. To download PSP 8.25, go to <http://welcome.hp.com/country/us/en/support.html> (<http://welcome.hp.com/country/us/en/support.html>).

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 **IMPORTANT:** For manual OS installs, HP strongly recommends updating the HP ProLiant iLO 2 Management Controller Driver (hpqilo2) for Windows® configurations to v1.12.0.0. To download the driver, go to <http://welcome.hp.com/country/us/en/support.html> (<http://welcome.hp.com/country/us/en/support.html>).

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 **IMPORTANT:** For manual OS installs, HP strongly recommends using HP NC-Series Broadcom 10GbE Multifunction Driver for Windows Server® 2003 32bit & x64 ver. 5.0.31.0 (B); dated, 9 Sep 2009. To download the driver, go to <http://welcome.hp.com/country/us/en/support.html> (<http://welcome.hp.com/country/us/en/support.html>).

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## HP infrastructure management software

### HP Insight Software (IS) DVD

All the components listed in the following table are installed from the Insight Software 3.10 DVD plus the Insight Software Matrix 1.01 Update. To download the Insight Software Matrix 1.01 Update, go to <https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=HPMTRX> (<https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=HPMTRX>).

Software	Version
HP Insight Software (IS) DVD - Integrated Installer	3.10
HP Insight Recovery	1.00
HP Insight Orchestration	1.0.2 - included in Matrix.iso update
HP Systems Insight Manager (HP SIM)	5.3.1 + hotfix - included in Matrix.iso update
HP Insight Dynamics - VSE (ID-VSE)	A4.1.2 - included in Matrix.iso update
HP Insight Power Manager (IPM)	2.0
Management Information Base (MIBs)	8.20
Performance Management Pack (PMP)	5.2.2 - included in Matrix.iso update
HP Insight Rapid Deployment software (RDP)	3.83.16 and 3.83.17 - included in Matrix.iso update
Remote Support Software Manager (RSSWM)	5.21
HP Insight Server Migration software for ProLiant (SMP)	3.70
System Management Homepage (SMH)	3.00
HP Version Control Repository Manager (VCRM)	2.2.0
HP Virtual Connect Enterprise Manager (VCEM)	1.32 - included in Matrix.iso update
HP Virtual Machine Management (VMM)	3.7.1 - included in Matrix.iso update
WMI Mapper	2.60

### Providers

Provider	Version
Windows 2003/2008 WMI Providers:	2.3.2.0
Windows 2003/2008 Insight Agents (SNMP):	v8.26
RHEL Insight Agents (SNMP):	v8.25
SLES Insight Agents (SNMP):	v8.25
ESX 3.5 Update 4:	v8.20
ESX 4 Insight Agents (SNMP):	v8.25

# BladeSystem enclosure infrastructure

## Onboard Administrator

Component	Firmware version
HP BladeSystem c7000 Enclosure	OA 2.52

## Virtual Connect modules

Component	Firmware version
HP Virtual Connect Flex-10 10Gb Ethernet Module for BladeSystem c-Class	VC 2.12
HP Virtual Connect 8Gb 24 Port Fibre Channel Module for BladeSystem c-Class	VC 2.12

# Server blades

## HP ProLiant server blades and components

Server blade model	BIOS revision
HP ProLiant BL260c G5	I20 05/12/2009
HP ProLiant BL280c G6	I22 06/20/2009
HP ProLiant BL460c G5	I23 05/12/2009
HP ProLiant BL460c G6	I24 06/20/2009
HP ProLiant BL465c G5 and G6	A13 05/07/2009
HP ProLiant BL490c G6	I21 06/20/2009
HP ProLiant BL495c G5 and G6	A14 05/07/2009
HP ProLiant BL680c G5	I17 05/10/2009
HP ProLiant BL685c G5	A08 01/29/2009
HP ProLiant BL685c G6	A17 05/07/2009

## Power Management Controller Firmware

Firmware	Version
Power Management Controller Firmware (embedded on specific HP ProLiant servers)	3.4(C)

## Integrated Lights-Out 2 (iLO 2) Advanced for BladeSystem

Firmware	Version
HP Integrated Lights-Out 2 Advanced for BladeSystem	1.79

## Smart Array controllers



**IMPORTANT:** HP strongly recommends updating the Smart Array P410i firmware to v2.50. To download the firmware, go to <http://welcome.hp.com/country/us/en/support.html> (<http://welcome.hp.com/country/us/en/support.html>). The Smart Array P410i firmware v2.50 is not available in the BladeSystem Matrix - Firmware Deployment Tool v1.61, the BladeSystem Matrix - Online Firmware Bundle for Windows® v1.61, or the BladeSystem Matrix - Online Firmware Bundle for Linux v1.61.

Component	Firmware
Smart Array P410i	2.50
Smart Array P400 and P400i	5.26 (C)
Smart Array E200 and E200i	1.82 (B)

## Ethernet mezzanine cards

Component	Version
<ul style="list-style-type: none"> <li>• NC325m</li> <li>• NC326i</li> <li>• NC326m</li> <li>• NC370i</li> <li>• NC373i</li> <li>• NC382m</li> <li>• NC532i</li> <li>• NC532m</li> </ul>	<ul style="list-style-type: none"> <li>• Linux FW comp 2.2.1 (B)</li> <li>• Windows® FW comp 2.1.4.8</li> </ul>
<ul style="list-style-type: none"> <li>• NC360m</li> <li>• NC364m</li> </ul>	<ul style="list-style-type: none"> <li>• 1.00</li> </ul>
<ul style="list-style-type: none"> <li>• NC362i</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
<ul style="list-style-type: none"> <li>• NC542m</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
<ul style="list-style-type: none"> <li>• NC522m</li> </ul>	<ul style="list-style-type: none"> <li>• Linux 4.0.516</li> <li>• Windows® 9.80</li> </ul>

## Fibre Channel host bus adapter (FC HBA) mezzanine cards

Component	Firmware/BIOS
HP B1c QLogic QMH2462 4Gb FC HBA	Firmware 4.04.04 BIOS: 2.08 (Linux FW comp version 2009.04.15)
HP B1c Emulex LPe1105-hp 4Gb FC HBA	Firmware: 2.72a2 BIOS: 3.03a9 (Linux FW comp version 2009.08.27)

Component	Firmware/BIOS
HP BLc QLogic QMH2562 8Gb FC HBA Supported on ProLiant G6 and limited Integrity blades only.	Firmware 4.04.04 BIOS: 2.08 (Linux FW comp version 2009.04.15)
HP BLc Emulex LPe1205 8Gb FC HBA Supported on ProLiant G6 and limited Integrity blades only.	Firmware: 1.10a5 BIOS: 3.03a9 (Linux FW comp version 2009.08.27)

## Managed node operating system support

Operating system	Version
Windows Server® 2008, Datacenter Edition	32 bit and x64
Windows Server® 2008 Hyper-V, Datacenter <sup>1</sup>	x64
Windows Server® 2003, Enterprise Edition	R2/SP2: 32 bit R2/SP2: x64
VMware ESX Server 3.5.0	Update 4
VMware ESX Server 4.0	4.0-technology preview only <sup>2</sup>
Red Hat Enterprise Linux 4 <sup>3</sup>	Update 7: 32 bit Update 7: AMD64 and Intel® EM64T
Red Hat Enterprise Linux 5 <sup>3</sup>	Update 3: 32 bit Update 3: AMD64 and Intel® EM64T
SUSE Linux Enterprise Server 10 <sup>3</sup>	SP2: 32 bit SP2: AMD64 and Intel® EM64T

<sup>1</sup>Insight Recovery does not support Hyper-V.

<sup>2</sup>Support for VMware vSphere 4 as a managed system in this release of Insight Software is limited to a technology preview for use in pilot and test environments only.

<sup>3</sup>Red Hat Enterprise Linux 4, Red Hat Enterprise Linux 5, and SUSE Linux Enterprise Server 10 are supported for most BladeSystem Matrix operations, except server migrations. For more information, go to <http://h18004.www1.hp.com/products/servers/proliantessentials/valuepack/smp-universal/index.html> (<http://h18004.www1.hp.com/products/servers/proliantessentials/valuepack/smp-universal/index.html>).

## VMware Virtual Center

Software	Version
VMware Virtual Center 2.5	Update 4

## HP Integrity server blades and components

HP Integrity BL860c and BL870c server blades are supported when configured with Integrity management software licenses.

The management software licenses packaged with BladeSystem Matrix provide licensing to manage ProLiant c-Class server blades, and Virtual Connect Enterprise Manager (VCEM) software is licensed to the HP BladeSystem c7000 Enclosure. HP BladeSystem Integrity c-Class Server Blades require separate licensing. For HP-UX users, HP recommends purchasing HP-UX 11i v3 Virtual Server OE (VSE-OE) or HP-UX 11i v3 Data Center OE (DC-OE) to obtain the necessary Integrity management software licenses to use with BladeSystem Matrix.

For HP-UX information, go to <http://www.hp.com/go/hpux> (<http://www.hp.com/go/hpux>).

Server blade model	BIOS revision
HP Integrity BL860c Server Blade	04.21
HP Integrity BL870c Server Blade	04.21

## Ethernet mezzanine card

Component	Version
HP Integrity Gigabit Ethernet Single-port NIC (Broadcom NetXtreme Gigabit Fiber)	HP-UX 11.31: 11.31.0903

## Fibre Channel host bus adapter (FC HBA) mezzanine card

Component	BIOS
Qlogic QMH2462 4Gb FC HBA for HP c-Class BladeSystem	FW and BIOS: Multi-boot 1.64 (1.26 bios/1.09 EFI Firmware: 4.00.90

## Managed node operating system support

Operating system	Version
HP-UX 11i v3	HP-UX 11.31 v3 0903

## Other system software

Software	Version
SNMP Agents (Integrity)	HP-UX: 0903

## Storage systems

- HP recommends Fibre Channel Storage Area Network (SAN) with boot-from-SAN capability. BladeSystem Matrix supports any Fibre Channel storage solution which supports the Virtual Connect environment and boot-from-SAN capability (boot volume as a pre-presented LUN).
- For FC SAN solutions, HP recommends HP StorageWorks (XP, EVA, and MSA) Disk Arrays. Specifically, the EVA4400 has been optimized for ordering and fulfillment with BladeSystem Matrix. For Insight Recovery support, HP StorageWorks EVA Continuous Access is also required.

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**NOTE:** Insight Recovery does not support Hyper-V.

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Component	Firmware version	Additional components
HP StorageWorks 4400 Enterprise Virtual Array	XCS 09501100 or later	HP Command View EVA: 9.0.1 or later

## Fibre Channel switches

For Fibre Channel SAN, NPIV supported switches are required and supported (such as the ones that come embedded with the EVA4400 option for BladeSystem Matrix). For switch firmware, go to the HP website

(<http://h20000.www2.hp.com/bizsupport/TechSupport/Product.jsp?lang=en&cc=us&taskId=135&prodTypeId=3709945&prodCatId=3722814>).

## HP firmware updating tools

HP has firmware updating tools to manage and maintain the firmware levels in your BladeSystem Matrix infrastructure. These tools can be found at <http://www.hp.com/go/matrixcompatibility>

(<http://www.hp.com/go/matrixcompatibility>).

Software	Version
HP BladeSystem Matrix - Firmware Deployment Tool	1.61
HP BladeSystem Matrix - Online Firmware Bundle for Windows®	1.61
HP BladeSystem Matrix - Online Firmware Bundle for Linux	1.61
Virtual Connect Support Utility	1.4.0

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# Technical support

## Solution support

HP BladeSystem Matrix is available with the basic warranty coverage that is provided standard with the individual hardware and software components that comprise the solution. In addition, HP Care Pack Services are available to add to the standard warranty in order to have 3-, 4-, or 5-year 24/7 warranties for the complete solution (all hardware and software components in a BladeSystem Matrix environment). Depending on the business use of your BladeSystem Matrix solution, higher levels of support are also available, including HP's Mission Critical Support services for your most business-critical systems.

### Before you contact HP

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

- Product serial number and/or SAID (Service Agreement Identifier) if applicable
- Product model name and number
- Applicable error messages
- Add-on boards or hardware
- Third-party hardware or software
- Operating system type and revision level

### HP contact information



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**IMPORTANT:** Be sure to mention this is a BladeSystem Matrix configuration when you call for support.

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For the name of the nearest HP authorized reseller:

- See the Contact HP worldwide (in English) webpage (<http://welcome.hp.com/country/us/en/wwcontact.html>).

For HP technical support:

- In the United States, for contact options see the Contact HP United States webpage ([http://welcome.hp.com/country/us/en/contact\\_us.html](http://welcome.hp.com/country/us/en/contact_us.html)). To contact HP by phone:
  - For warranty support, call 1-800-334-5144. This service is available 24 hours a day, 7 days a week. For continuous quality improvement, calls may be recorded or monitored.
  - If you have purchased an HP Care Pack (solution support upgrade), contact information is provided by HP upon registration and activation. For more information about HP Care Packs, refer to the HP website (<http://www.hp.com/hps>).
- In other locations, see the Contact HP worldwide (in English) webpage (<http://welcome.hp.com/country/us/en/wwcontact.html>).