

HP BladeSystem Matrix 1.02 Compatibility Chart

For supported hardware, firmware, and software



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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.


Contents

- About this document..... 4
 - Overview 4
 - Central Management Server (CMS)..... 4
 - BladeSystem enclosure infrastructure 6
 - Server blades..... 6
 - HP ProLiant server blades and components 6
 - HP Integrity server blades and components 9
 - Storage systems 10
 - Fibre Channel switches 10
 - Firmware updating tools 10
- Technical support..... 11
 - Solution support 11

About this document

Overview

This document specifies the HP BladeSystem Matrix 1.02 definition of hardware, firmware, and software requirements. 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 BladeSystem Matrix support, HP cannot support the use of hardware or versions of firmware or software that are not part of this BladeSystem Matrix 1.02 definition.

 **CAUTION:** The specific firmware and software versions listed in this document provide support for BladeSystem Matrix 1.02 and must be used together to ensure complete solution component compatibility and full functionality. Using other version levels, including later revisions of individual components, might result in operational issues. See the latest version of this document at <http://www.hp.com/go/matrixcompatibility> (<http://www.hp.com/go/matrixcompatibility>).


Central Management Server (CMS)


CMS operating system^{1,2}


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

¹In general, HP BladeSystem Matrix supports the same native CMS operating systems supported by HP Insight Dynamics management software. For more information, see the HP Insight Dynamics Management Software Version 4.1 Support Matrix on the HP website (<http://www.hp.com/go/insightdynamics>).

²HP Insight Software is not supported on a virtual machine CMS guest in an HP BladeSystem Matrix production environment.

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

 **IMPORTANT:** For manual OS installations, 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, see the HP website (<http://welcome.hp.com/country/us/en/support.html>).

 **IMPORTANT:** For manual installations, HP strongly recommends using HP NC-Series Broadcom 10GbE Multifunction Driver for Windows Server® 2003 32bit & x64 version 5.0.31.0 (B), dated 9 Sep 2009. To download the driver, see the HP website

HP infrastructure management software

HP Insight Software (IS) DVD

The components listed in the following table are installed from the Insight Software 3.10 DVD plus the Insight Software Matrix 1.02 Update. To download the Insight Software Matrix 1.02 Update, see the HP website

(<https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=HPMTRX>).

Software	Matrix 1.01 Version	Matrix 1.02 Version
HP Insight Software (IS) DVD- Integrated Installer	3.10	3.10
HP Insight Recovery	1.00	1.00
HP Insight Orchestration	1.0.2 ¹	1.0.3 ²
HP Systems Insight Manager (HP SIM)	5.3.1 + hotfix ¹	5.3.1 + hotfix
HP Insight Dynamics - VSE (ID-VSE)	4.1.2 ¹	4.1.2
HP Insight Power Manager (IPM)	2.0	2.0
Management Information Base (MIB)	8.20	8.20
Performance Management Pack (PMP)	5.2.2 ¹	5.2.2
HP Insight Rapid Deployment software (RDP)	3.83.16 and 3.83.17 ¹	3.83.16 and 3.83.17
HP Insight Server Migration software for ProLiant (SMP)	3.70	3.70
System Management Homepage (SMH)	3.00	3.00
HP Version Control Repository Manager (VCRM))	2.2.0	6.0.0.840 ²
HP Virtual Connect Enterprise Manager (VCEM)	1.32 ¹	1.32
HP Virtual Machine Management (VMM)	3.7.1 ¹	3.7.2 ²
WMI Mapper	2.6.0	2.6.4.4 ²
HP SIM Tools and Toolboxes Patch	3.10 ¹	3.10
Delete IPM Events HP SIM Task	Not included	— ²
MxSync Utility (useful for analysis and CMS backup and restore)	Not included	1.0.0.14 ²

¹The updates are contained in both the Insight Software Matrix 1.01 Update and the Insight Software Matrix 1.02 Update

²The updates are only contained in the Insight Software Matrix 1.02 Update

Insight Management Instrumentation

Providers/Agents	Version
Windows® 2003/2008 WMI Providers	2.3.2.0

Providers/Agents	Version
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 2009.5.12
HP ProLiant BL280c G6	I22 2009.6.20
HP ProLiant BL460c G5	I23 2009.5.12
HP ProLiant BL460c G6	I24 2009.6.20
HP ProLiant BL465c G5 and G6	A13 2009.5.7
HP ProLiant BL490c G6	I21 2009.6.20
HP ProLiant BL495c G5 and G6	A14 2009.5.7
HP ProLiant BL680c G5	I17 2009.5.10
HP ProLiant BL685c G5	A08 2009.1.29
HP ProLiant BL685c G6	A17 2009.5.7

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

Ethernet mezzanine cards and embedded controllers

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

Fibre Channel host bus adapter (FC HBA) mezzanine cards

Component	Firmware version
HP BLc QLogic QMH2462 4Gb FC HBA	BIOS: 2.08 (Linux FW comp version 2009.04.15)
HP BLc QLogic QMH2562 8Gb FC HBA (Supported on ProLiant G6 and limited Integrity blades only)	BIOS: 2.08 (Linux FW comp version 2009.04.15)
HP BLc Emulex LPe1105-hp 4Gb FC HBA	Firmware: 2.72a2 BIOS: 3.03a9 (Linux FW comp version 2009.08.27)
HP BLc Emulex LPe1205 8Gb FC HBA (Supported on ProLiant G6 and limited Integrity server 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 ¹	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 ²
Red Hat Enterprise Linux 4 ³	Update 7: 32 bit Update 7: AMD64 and Intel® EM64T
Red Hat Enterprise Linux 5 ³	Update 3: 32 bit Update 3: AMD64 and Intel® EM64T
SUSE Linux Enterprise Server 10 ³	SP2: 32 bit SP2: AMD64 and Intel® EM64T

¹Insight Recovery does not support Hyper-V.

²Support 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.

³Red 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
VMware Virtual Center 4.0	Initial Release and Update 1

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 (BIOS: 1.26; EFI: 1.09; 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

SAN Functionality

- HP requires Fibre Channel Storage Area Network (SAN) with boot-from-SAN capability. BladeSystem Matrix supports any Fibre Channel storage solution that 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.

NOTE: Insight Recovery does not support Hyper-V.

Component	Firmware version	Additional components
HP StorageWorks 4400 Enterprise Virtual Array	XCS 09522000 or later	HP Command View EVA: 9.1 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 a list of switches that are supported by Virtual Connect Fibre Channel, see the HP website (<http://www.hp.com/storage/spock>). Registration is required. After logging in, select **Other Hardware>Virtual Connect>HP VC 8Gb 24-Port Module**.

Firmware updating tools

To update and maintain the firmware in your BladeSystem Matrix infrastructure, use the following firmware tool versions. The firmware tools are available on the HP website (<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

Technical support

Solution support

HP BladeSystem Matrix is available with the standard warranty, which is provided 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 Mission Critical Support services.

Before you contact HP

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

- HP BladeSystem Matrix Starter Kit or Expansion Kit c7000 Enclosure serial number and 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



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

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). 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, see 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>).