



Hardware and Software Interoperability Matrix

This document provides interoperability matrices for Cisco Unified Computing System components and configurations that have been tested and validated by Cisco, by Cisco partners, or both. Use this document as a reference for supported hardware and software.

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Audience

This document is designed for use by Cisco TAC, sales, support engineers, professional service partners, and systems administrators responsible for the design and deployment of the Unified Computing System in the data center environment.

The content of this document is updated on a regular basis. The current version of this document applies to the B Series servers in Cisco Unified Computing System Release 1.2(1).

Fibre Connectivity Switch Interoperability Matrix

Table 1 lists fibre connectivity switches that support the Unified Computing System Fabric Interconnect module.

Table 1: Fibre Connectivity Switch

UCS Fabric Interconnect	Vendor	Fibre Connectivity Switch Model	Switch Firmware	
UCS 6120XP 20-port and 6140XP 40-Port Fabric Interconnect	Cisco	Nexus 5xxx	4.1(3)N2(1), 4.1(3)N2(1a)	Note 7
UCS 6120XP 20-port and 6140XP 40-Port Fabric Interconnect	Cisco	MDS 95xx	3.3(1c), 3.3(2), 3.3(4), 4.1(1b), 4.1(3a), 4.2(1a), 4.2(3a)	Note 7
UCS 6120XP 20-port and 6140XP 40-Port Fabric Interconnect	Cisco	MDS 91xx, 92xx	3.3(1c), 3.3(2), 3.3(4), 4.1(1b), 4.1(3a), 4.2(1a), 4.2(3a)	Note 7
UCS 6120XP 20-port and 6140XP 40-Port Fabric Interconnect	Brocade	300, 5100, 5300, DCX	v6.1.0c, v6.1.0f, v6.1.0h, v6.1.0j, v6.1.2b, v6.2.0c, v6.2.1	Note 7
UCS 6120XP 20-port and 6140XP 40-Port Fabric Interconnect	Brocade	4100, 4900, 48000, 5000, 7500	v5.3.1b, v5.3.2, v6.0.0c, v6.0.1a, v6.1.0c, v6.1.0f, v6.1.0h, v6.1.0j, v6.1.2b, v6.2.0c, v6.2.1	Note 7
UCS 6120XP 20-port and 6140XP 40-Port Fabric Interconnect	Brocade	DCX-4S	v6.2.0c, v6.2.0g, v6.2.1	Note 7
UCS 6120XP 20-port and 6140XP 40-Port Fabric Interconnect	McData	Support removed for all switch models		Note 22

Operating System Interoperability Matrix

Table 2 lists the operating systems that the Unified Computing System Blade Servers support.

Table 2: Operating System

UCS Blade Server	Vendor	Operating System Version	Notes
UCS B200 M1 and B250 M1 Blade Server	Microsoft	Windows Server 2003 x86 SP2	Note 1
UCS B200 M1 and B250 M1 Blade Server	Microsoft	Windows Server 2003 R2 x86 SP2	Note 1
UCS B200 M1 and B250 M1 Blade Server	Microsoft	Windows Server 2003 x64 SP2	Note 1
UCS B200 M1 and B250 M1 Blade Server	Microsoft	Windows Server 2003 R2 x64 SP2	Note 1
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Microsoft	Windows Server 2008 x64 w/Hyper-V SP1 & SP2	Note 1
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Microsoft	Windows Server 2008 R2 x64 w/Hyper-V	Note 1
UCS B200 M1 and B250 M1 Blade Server	Oracle	VM server release 2.2.0 64bit	
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Red Hat	Enterprise Linux 4.8 64bit	
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Red Hat	Enterprise Linux 5.3 64bit	Note 2, 18
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Red Hat	Enterprise Linux 5.4 64bit	Note 16, 17, 18
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Novell	SUSE Linux Enterprise Server 10.3 64bit	
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Novell	SUSE Linux Enterprise Server 11 64bit	
UCS B200 M1 and B250 M1 Blade Server	VMware	ESX 3.5 Update 4	Note 21

UCS Blade Server	Vendor	Operating System Version	Notes
UCS B200 M1 and B250 M1 Blade Server	VMware	ESX 3.5 Update 5	
UCS B200 M1 and B250 M1 Blade Server	VMware	vSphere 4.0	Note 21
UCS B200 M1 and B250 M1 Blade Server	VMware	vSphere 4.0i	Note 21
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	VMware	vSphere 4.0 Update 1	Note 20
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	VMware	vSphere 4.0i Update 1	Note 20

Adapters Interoperability Matrix

Table 3 lists the network adapters that the Unified Computing System Blade Servers support.

Table 3: Adapters

UCS Blade Server	Vendor	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS	Notes
UCS B200 M1 and B250 M1 Blade Server	Cisco	LSI Logic SAS1064E PCI-Express Fusion-MPT	Microsoft Windows Server 2003 x64	1.29.3.0	01.28.03.00	06.28.00.00	Note 10
UCS B200 M1 and B250 M1 Blade Server	Cisco	LSI Logic SAS1064E PCI-Express Fusion-MPT	Microsoft Windows Server 2003 x86	1.29.3.0	01.28.03.00	06.28.00.00	Note 10
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	LSI Logic SAS1064E PCI-Express Fusion-MPT	Microsoft Windows Server 2008 x64 w/Hyper-V	1.29.3.0	01.28.03.00	06.28.00.00	
UCS B200 M1 & M2 and B250 M1 & M2	Cisco	LSI Logic SAS1064E PCI-Express Fusion-MPT	Microsoft Windows Server	1.30.4.0	01.28.03.00	06.28.00.00	

UCS Blade Server	Vendor	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS	Notes
Blade Server			2008 R2 x64 w/Hyper-V				
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	LSI Logic SAS1064E PCI-Express Fusion-MPT	Novell SUSE Linux Enterprise Server 10.3 64bit	3.04.07_suse	01.28.03.00	06.28.00.00	
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	LSI Logic SAS1064E PCI-Express Fusion-MPT	Novell SUSE Linux Enterprise Server 11 64bit	4.00.43.00suse	01.28.03.00	06.28.00.00	
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	LSI Logic SAS1064E PCI-Express Fusion-MPT	Red Hat Enterprise Linux 4.8 64bit	3.12.29.00rh	01.28.03.00	06.28.00.00	
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	LSI Logic SAS1064E PCI-Express Fusion-MPT	Red Hat Enterprise Linux 5.3 64bit	3.04.07	01.28.03.00	06.28.00.00	Note 2, 18
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	LSI Logic SAS1064E PCI-Express Fusion-MPT	Red Hat Enterprise Linux 5.4 64bit	3.04.07rh	01.28.03.00	06.28.00.00	Note 16, 17, 18
UCS B200 M1 and B250 M1 Blade Server	Cisco	LSI Logic SAS1064E PCI-Express Fusion-MPT	VMware ESX 3.5 U4	2.6.48.18 vmw	01.28.03.00	06.28.00.00	Note 21

UCS Blade Server	Vendor	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS	Notes
UCS B200 M1 and B250 M1 Blade Server	Cisco	LSI Logic SAS1064E PCI-Express Fusion-MPT	VMware ESX 3.5 U5	2.6.48.18 vmw	01.28.03.00	06.28.00.00	
UCS B200 M1 and B250 M1 Blade Server	Cisco	LSI Logic SAS1064E PCI-Express Fusion-MPT	VMware vSphere 4 & 4i	400.37.00.27/vmw	01.28.03.00	06.28.00.00	Note 21
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	LSI Logic SAS1064E PCI-Express Fusion-MPT	VMware vSphere 4.0 U1 & 4.0i U1	400.37.00.27/vmw	01.28.03.00	06.28.00.00	Note 20
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M81KR Virtual Interface Card	Red Hat Enterprise Linux 5.4 64bit	1.1.1 (Both)	1.1		Note 17, 18
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M81KR Virtual Interface Card	Microsoft Windows Server 2008 x64 w/Hyper-V	1.1.0.1379 (Both)	1.1		
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M81KR Virtual Interface Card	VMware vSphere 4.0 U1 & 4.0i U1	1.1.0.110a / 1.1.0.68b (NIC)	1.1		Note 19
UCS B200 M1 and B250 M1 Blade Server	Cisco	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Microsoft Windows Server 2003 x64	1.6.9.0		2.1.11	Note 11, 12
UCS B200 M1 and	Cisco	UCS 82598KR-CI	Microsoft Windows	1.6.9.0		2.1.11	Note 11, 12

UCS Blade Server	Vendor	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS	Notes
B250 M1 Blade Server		10-Gigabit Ethernet Adapter	Server 2003 x86				
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Microsoft Windows Server 2008 x64 w/Hyper-V	1.0.48.1		2.1.11	Note 11, 12
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Microsoft Windows Server 2008 R2 x64 w/Hyper-V	2.0.2.15		2.1.11	Note 11, 12
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Novell SUSE Linux Enterprise Server 10.3 64bit	2.0.34.3-NAPI		2.1.11	Note 11, 12
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Novell SUSE Linux Enterprise Server 11 64bit	1.3.30-k2		2.1.11	Note 11, 12
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Red Hat Enterprise Linux 4.8 64bit	1.3.18-k4		2.1.11	Note 11, 12
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Red Hat Enterprise Linux 5.3 64bit	1.3.18-k4		2.1.11	Note 2, 11, 12, 18

UCS Blade Server	Vendor	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS	Notes
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Red Hat Enterprise Linux 5.4 64bit	2.0.8-k3		2.1.11	Note 11, 12, 16, 18
UCS B200 M1 and B250 M1 Blade Server	Cisco	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	VMware ESX 3.5 U4	1.3.31.6		2.1.11	Note 11, 12, 21
UCS B200 M1 and B250 M1 Blade Server	Cisco	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	VMware ESX 3.5 U5	1.3.31.6		2.1.11	Note 11, 12
UCS B200 M1 and B250 M1 Blade Server	Cisco	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	VMware vSphere 4.0 & 4.0i	1.3.36		2.1.11	Note 11, 12, 21
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	VMware vSphere 4.0 U1 & 4.0i U1	1.3.36		2.1.11	Note 11, 12, 20
UCS B200 M1 and B250 M1 Blade Server	Cisco	UCS M71KR-E Emulex Converged Network Adapter	Microsoft Windows Server 2003 x64	7.2.20.006	2.80a4	5.03a8	Note 6, 8, 10, 12, 13
UCS B200 M1 and B250 M1 Blade Server	Cisco	UCS M71KR-E Emulex Converged Network Adapter	Microsoft Windows Server 2003 x86	5.2.20.006	2.80a4	5.03a8	Note 6, 8, 10, 12, 13

UCS Blade Server	Vendor	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS	Notes
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-E Emulex Converged Network Adapter	Microsoft Windows Server 2008 x64 w/Hyper-V	7.2.20.006	2.80a4	5.03a8	Note 6, 8, 10, 12, 13
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-E Emulex Converged Network Adapter	Microsoft Windows Server 2008 R2 x64 w/Hyper-V	7.2.20.006	2.80a4	5.03a8	Note 6, 8, 10, 12, 13, 14
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-E Emulex Converged Network Adapter	Novell SUSE Linux Enterprise Server 10.3 64bit	8.2.0.48.2p	2.80a4	5.03a8	Note 6, 8, 12, 13
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-E Emulex Converged Network Adapter	Novell SUSE Linux Enterprise Server 11 64bit	8.2.8.14	2.80a4	5.03a8	Note 6, 8, 12, 13
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-E Emulex Converged Network Adapter	Red Hat Enterprise Linux 4.8 64bit	8.0.16.46	2.80a4	5.03a8	Note 6, 8, 12, 13
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-E Emulex Converged Network Adapter	Red Hat Enterprise Linux 5.3 64bit	8.2.0.33.3p	2.80a4	5.03a8	Note 2, 6, 8, 12, 13, 16, 18
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-E Emulex Converged Network Adapter	Red Hat Enterprise Linux 5.4 64bit	8.2.0.48.2p	2.80a4	5.03a8	Note 6, 8, 12, 13, 16, 18

UCS Blade Server	Vendor	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS	Notes
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-E Emulex Converged Network Adapter	VMware ESX 3.5 U4	7.4.0.41-00001	2.80a4	5.03a8	Note 6, 8, 9, 12, 13, 21
UCS B200 M1 and B250 M1 Blade Server	Cisco	UCS M71KR-E Emulex Converged Network Adapter	VMware ESX 3.5 U5	7.4.0.41-00001	2.80a4	5.03a8	Note 6, 8, 9, 12, 13
UCS B200 M1 and B250 M1 Blade Server	Cisco	UCS M71KR-E Emulex Converged Network Adapter	VMware vSphere 4 & 4i	8.2.0.30.49vmw	2.80a4	5.03a8	Note 6, 8, 12, 13, 21
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-E Emulex Converged Network Adapter	VMware vSphere 4.0 U1 & 4.0i U1	8.2.0.30.49vmw	2.80a4	5.03a8	Note 6, 8, 12, 13, 20
UCS B200 M1 and B250 M1 Blade Server	Cisco	UCS M71KR-Q QLogic Converged Network Adapter	Microsoft Windows Server 2003 x64	9.1.8.17	4.04.04	2.02	Note 6, 8, 9, 12, 13
UCS B200 M1 and B250 M1 Blade Server	Cisco	UCS M71KR-Q QLogic Converged Network Adapter	Microsoft Windows Server 2003 x86	9.1.8.17	4.04.04	2.02	Note 6, 8, 9, 12, 13
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-Q QLogic Converged Network Adapter	Microsoft Windows Server 2008 x64 w/Hyper-V	9.1.8.17	4.04.04	2.02	Note 6, 8, 9, 12, 13

UCS Blade Server	Vendor	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS	Notes
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-Q QLogic Converged Network Adapter	Microsoft Windows Server 2008 R2 x64 w/Hyper-V	9.1.8.17	4.04.04	2.02	Note 6, 8, 9, 12, 13, 14
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-Q QLogic Converged Network Adapter	Novell SUSE Linux Enterprise Server 10.3 64bit	803.00.10.1094k4	4.04.09	2.02	Note 6, 8, 12, 13
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-Q QLogic Converged Network Adapter	Novell SUSE Linux Enterprise Server 11 64bit	802.01.03.11.049	4.04.05	2.02	Note 6, 8, 12, 13
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-Q QLogic Converged Network Adapter	Red Hat Enterprise Linux 4.8 64bit	802.09.02.04.08-d	4.04.09	2.02	Note 6, 8, 12, 13
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-Q QLogic Converged Network Adapter	Red Hat Enterprise Linux 5.3 64bit	802.00.06.05.03-k	4.04.05	2.02	Note 2, 6, 8, 12, 13, 16, 18
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-Q QLogic Converged Network Adapter	Red Hat Enterprise Linux 5.4 64bit	803.00.10.05.04-k	4.04.05	2.02	Note 6, 8, 12, 13, 16, 18
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-Q QLogic Converged Network Adapter	VMware ESX 3.5 U4	7.95.-vm0	4.04.06	2.02	Note 6, 8, 12, 13, 21

UCS Blade Server	Vendor	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS	Notes
UCS B200 M1 and B250 M1 Blade Server	Cisco	UCS M71KR-Q QLogic Converged Network Adapter	VMware ESX 3.5 U5	7.95.-vm0	4.04.06	2.02	Note 6, 8, 12, 13
UCS B200 M1 and B250 M1 Blade Server	Cisco	UCS M71KR-Q QLogic Converged Network Adapter	VMware vSphere 4 & 4i	80201-k1-vmw38	4.04.09	2.02	Note 6, 8, 12, 13, 21
UCS B200 M1 & M2 and B250 M1 & M2 Blade Server	Cisco	UCS M71KR-Q QLogic Converged Network Adapter	VMware vSphere 4.0 U1 & 4i U1	80201-k1-vmw38	4.04.09	2.02	Note 6, 8, 12, 13, 20

Storage Array Interoperability Matrix

Table 4 lists the storage array models that the Unified Computing System adapters support.

Table 4: Storage Array

Vendor	Storage Array Model	Notes
3PAR	Some Models Supported; Refer to the Storage Vendor's support list	Note 6, 7
EMC	Some Models Supported; Refer to the Storage Vendor's support list	Note 6, 7
NetApp	Some Models Supported; Refer to the Storage Vendor's support list	Note 3, 6, 7
HDS	Some Models Supported; Refer to the Storage Vendor's support list	Note 6, 7
All Others	See Vendor Support List for equivalent supported PCIe adapters	Note 6, 8

**Note**

- 1 Requires Intel 55xx chipset drivers from download.intel.com
- 2 RHEL 5.3 requires updating to errata kernel 2.6.18-128.1.6 or newer due to advisory RHSA-2009:0326
- 3 SSI Mode Only
- 4 V5.0.1 build 46 is not supported on this OS
- 5 V5.0.1 build 55 is not supported on this OS
- 6 Non-default adapter settings are typically required by storage vendors and found on their support list
- 7 Multiple array and switch models supported with UCS by the storage vendor are on their support list
- 8 Fiber Channel Storage that supports equivalent adapters and drivers is supported by UCS. UCS M71KR-E is equivalent to Emulex LP2100x, UCS M71KR-Q is equivalent to QLogic QLE804x
- 9 Driver not included in OS image. Download from Cisco or OS vendor and install driver to enable device access
- 10 Driver included in OS image should be updated. Download from Cisco or OS vendor and install driver to enable device access
- 11 iSCSI Storage that supports equivalent adapters and driver is supported by UCS. UCS 82598KR-CI is equivalent to Intel 82598EB 10 Gigabit Ethernet Controller
- 12 iSCSI Boot is not supported
- 13 Refer to the UCS 82598KR-CI 10-Gigabit Ethernet Adapter for the supported Ethernet driver on this Converged Network Adapter
- 14 Supported driver is not yet signed
- 15 For B250 one card is supported in Slot 0 only
- 16 Xen kernel supported with workarounds as stated in: <http://kbase.redhat.com/faq/docs/DOC-23816>
- 17 Xen kernel supported with workarounds as stated in: <http://kbase.redhat.com/faq/docs/DOC-22147>
- 18 Loading multiple driver disks during a RHEL 5.x installation fails
<http://kbase.redhat.com/faq/docs/DOC-17753>
- 19 B250 dual adapter configuration requires ESX4.0u1p5 or later
- 20 Model 2 (M2) servers require Patch04 or later
- 21 55xx processor family supported, this OS version does not support the 56xx processor family
- 22 Support REMOVED for these products due to unresolved technical issues

Related Documentation

Links to the latest versions of related Cisco documentation are available in the *Cisco UCS Documentation Roadmap*, located at:

<http://www.cisco.com/go/unifiedcomputing/b-series-doc>

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