



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.

This document contains the following sections:

- [Audience](#)
- [Operating System Interoperability Matrix](#)
- [VM-FEX Software Interoperability Matrix](#)
- [Converged Network Adapter Interoperability Matrix](#)
- [Network Interface Card Interoperability Matrix](#)
- [RAID Controller on Motherboard Interoperability Matrix](#)
- [UCS Storage Accelerator Interoperability Matrix](#)
- [Storage Array Interoperability Matrix](#)
- [Enterprise Backup Interoperability Matrix](#)
- [Switch Interoperability Matrix](#)
- [Related Documentation](#)
- [Obtaining Documentation and Submitting a Service Request](#)

For C-Series servers managed by UCSM, *unless otherwise indicated in this document*, the supported firmware and drivers are those listed in the 1.4(7) and 1.4(8) C-Series Compatibility guide, located at http://www.cisco.com/en/US/products/ps10477/prod_technical_reference_list.html.

The 2.0(4) B-Series Product bundle is supported with the 2.1(1) Infrastructure bundle. When running this combination, the 2.0(4) Interoperability guide is applicable.

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.

This document applies to the B Series Servers in Cisco Unified Computing System Release 2.1(1). The content of this document is updated on a regular basis. The current version was created on 2013-02-20.

Operating System Interoperability Matrix

Table 1 lists the operating systems that the Unified Computing System B Series Servers support.

Table 1: Operating System

UCS Blade Server	Vendor	Operating System Version	Notes
B200, B250, B230, B440 M2 and B200, B22, B420 M3	Citrix	XenServer 6.0.2	21
B200, B250, B230, B440 M2 and B200, B22, B420 M3	Citrix	XenServer 6.1	21
B200, B250, B230, B440 M1 & M2 and B200 M3	Microsoft	Windows Server 2008 SP2 x64	18, 21
B200, B250, B230, B440 M1 & M2 and B200, B22, B420 M3	Microsoft	Windows Server 2008 R2 SP1 x64	18, 21
B200, B250, B230, B440 M2 and B200, B22, B420 M3	Microsoft	Windows Server 2012	18, 21
B200, B250, B230, B440 M2 and B200, B22, B420 M3	Novell	SUSE Linux Enterprise Server 11.2 64bit	21
B230, B440 M2 and B200, B22, B420 M3	Oracle	Unbreakable Enterprise Kernel 2.6.39-200	22
B230, B440 M2 and B200, B22, B420 M3	Oracle	OVM 3.1.1 with UEK 2.6.39-200	21
B200, B250, B230, B440 M2	Oracle	Solaris 10 09/10 (U9)	21
B200, B250, B230, B440 M2	Oracle	Solaris 10 08/11 (U10)	21
B200, B250, B230, B440 M1 & M2 and B200, B22, B420 M3	Red Hat	Red Hat Enterprise Linux 5.7 64bit	21

UCS Blade Server	Vendor	Operating System Version	Notes
B200, B250, B230, B440 M1 & M2 and B200, B22, B420 M3	Red Hat	Red Hat Enterprise Linux 5.8 64bit	21
B200, B250 M2 and B230, B440 M1 & M2 and B200, B22, B420 M3	Red Hat	Red Hat Enterprise Linux 6.2 64bit	21
B200, B250 M2 and B230, B440 M1 & M2 and B200, B22, B420 M3	Red Hat	Red Hat Enterprise Linux 6.3 64bit	21
B200, B250, B230, B440 M1 & M2 and B200, B22, B420 M3	VMware	vSphere 4.1 U2	21
B200, B250, B230, B440 M1 & M2 and B200, B22, B420 M3	VMware	vSphere 4.1i U2	21
B200, B250, B230, B440 M1 & M2 and B200, B22, B420 M3	VMware	vSphere 4.1 U3	21
B200, B250, B230, B440 M1 & M2 and B200, B22, B420 M3	VMware	vSphere 4.1i U3	21
B200, B250, B230, B440 M1 & M2 and B200, B22, B420 M3	VMware	vSphere 5.0i U1	21
B200, B250, B230, B440 M2 and B200, B22, B420 M3	VMware	vSphere 5.1i	21
C200/C210 M2, C200 M2(SFF), C250 M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	Citrix	XenServer 6.0.2	20
C200/C210 M2, C200 M2(SFF), C250 M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	Citrix	XenServer 6.1	20

UCS Blade Server	Vendor	Operating System Version	Notes
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24M3(SFF),C420 M3	Microsoft	Windows Server 2008 R2 x64	20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	Microsoft	Windows Server 2008 SP2 x64	20
C200/C210 M2, C200 M2(SFF), C250 M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	Microsoft	Windows Server 2012	20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	Novell	SUSE Linux Enterprise Server 11.2 64bit	20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	Oracle	Unbreakable Enterprise Kernel 2.6.39-200	20
C200/C210 M2, C200 M2(SFF), C250 M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	Oracle	OVM 3.1.1 with UEK 2.6.39-200	20
C200/C210 M2, C200 M2(SFF), C250 M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	Oracle	Solaris 10 08/11 (U10)	20

UCS Blade Server	Vendor	Operating System Version	Notes
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	Red Hat	Red Hat Enterprise Linux 5.7 64bit	20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	Red Hat	Red Hat Enterprise Linux 5.8 64bit	20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	Red Hat	Red Hat Enterprise Linux 6.2 64bit	20
C260 M2, C460 M2 C220/C240 M3(SFF/LFF), C22/C24 M3(SFF)	Red Hat	Red Hat Enterprise Linux 6.3 64bit	20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	VMware	vSphere 4.1 U2	20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2,	VMware	vSphere 4.1i U2	20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	VMware	vSphere 4.1 U3	20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2,	VMware	vSphere 4.1i U3	20

UCS Blade Server	Vendor	Operating System Version	Notes
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	VMware	vSphere 5.0i U1	20
C200/C210 M2, C200 M2(SFF), C250 M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	VMware	vSphere 5.1i	20

VM-FEX Software Interoperability Matrix

Table 2 lists the VM-FEX software that the Unified Computing System B Series Servers support.

Table 2: VM-FEX Software

Software Type	Software Version	Operating System	Driver
VM-FEX	VEM410-201108406	vSphere 4.1 U2	v132-4.2.1.1.4.1.0-2.0.4
VM-FEX	VEM410-201108406	vSphere 4.1i U2	v132-4.2.1.1.4.1.0-2.0.4
VM-FEX	VEM410-201108406	vSphere 4.1 U3	v132-4.2.1.1.4.1.0-2.0.4
VM-FEX	VEM410-201108406	vSphere 4.1i U3	v132-4.2.1.1.4.1.0-2.0.4
VM-FEX	VEM500-20110825132140-BG-release	vSphere 5.0i U1	v132-4.2.1.1.4.1.0-3.0.4
VM-FEX	cisco-vem-v151-5.1-1.1.1.1	vSphere 5.1i	cisco-vem-v151-5.1-1.1.1.1
VM-FEX		Red Hat Enterprise Linux 6.2 64bit	2.1.1.41 (enic)
VM-FEX		Red Hat Enterprise Linux 6.3 64bit	2.1.1.41 (enic)
VM-FEX		Windows Server 2012	2.2.0.13 (PF, VF enic) / 2.2.0.11 (vmfex_ext)

Converged Network Adapter Interoperability Matrix

Table 3 lists the converged network adapters that the Unified Computing System B Series Servers support.

Table 3: Converged Network Adapters

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	Oracle Unbreakable Enterprise Kernel 2.6.39-200	1.5.0.18 (FNIC) / 2.1.1.24 (NIC)	2.1(1)	14, 22
B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	OVM 3.1.1 with UEK 2.6.39-200	1.5.0.18 (FNIC) / 2.1.1.24 (NIC)	2.1(1)	14, 23
B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	Red Hat Enterprise Linux 5.7 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	12, 14
B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	Red Hat Enterprise Linux 5.8 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	12, 14
B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	Red Hat Enterprise Linux 6.2 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	12, 14
B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	Red Hat Enterprise Linux 6.3 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	12, 14
B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	SUSE Linux Enterprise Server 11.2 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	14
B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	vSphere 4.1 U2	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	11, 14
B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	vSphere 4.1i U2	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	10, 12, 14, 19

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	vSphere 4.1 U3	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	11, 14
B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	vSphere 4.1i U3	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	10, 12, 14, 19
B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	vSphere 5.0i U1	1.5.0.20 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	11, 12, 14, 19
B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	vSphere 5.1i	1.5.0.20 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	11, 12, 14, 19
B200 M3	UCS 1240 Virtual Interface Card and Port Expander Card	Windows Server 2008 SP2 x64	2.1.0.20 (FNIC) / 2.2.0.13 (ENIC) / 2.1.0.4 (NIC Teaming Driver)	2.1(1)	12, 14, 17, 25
B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	Windows Server 2008 R2 SP1 x64	2.1.0.20 (FNIC) / 2.2.0.13 (ENIC) / 2.1.0.4 (NIC Teaming Driver)	2.1(1)	12, 14, 25
B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	Windows Server 2012	2.2.0.17 (FNIC) / 2.2.0.13 (ENIC)	2.1(1)	12, 14
B200, B250, B230, B440 M2 and B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	XenServer 6.0.2	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	14
B200, B250, B230, B440 M2 and B200, B22, B420 M3	UCS 1240 Virtual Interface Card and Port Expander Card	XenServer 6.1	1.5.0.20 (FNIC) / 2.1.1.39-1 (ENIC)	2.1(1)	14

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	Oracle Unbreakable Enterprise Kernel 2.6.39-200	1.5.0.18 / 2.1.1.24 (NIC)	2.1(1)	14, 22
B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	OVM 3.1.1 with UEK 2.6.39-200	1.5.0.18 / 2.1.1.24 (NIC)	2.1(1)	14, 23
B200, B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	Red Hat Enterprise Linux 5.7 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	12, 14
B200, B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	Red Hat Enterprise Linux 5.8 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	12, 14
B200, B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	Red Hat Enterprise Linux 6.2 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	12, 14
B200, B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	Red Hat Enterprise Linux 6.3 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	12, 14
B200, B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	SUSE Linux Enterprise Server 11.2 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	14
B200, B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	vSphere 4.1 U2	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	11, 14
B200, B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	vSphere 4.1i U2	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	10, 12, 14, 19

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	vSphere 4.1 U3	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	11, 14
B200, B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	vSphere 4.1i U3	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	10, 12, 14, 19
B200, B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	vSphere 5.0i U1	1.5.0.20 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	11, 12, 14, 19
B200, B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	vSphere 5.1i	1.5.0.20 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	11, 12, 14, 19
B200, B230, B440 M2 and B200 M3	UCS 1280 Virtual Interface Card	Windows Server 2008 SP2 x64	2.1.0.20 (FNIC) / 2.2.0.13 (ENIC) / 2.1.0.4 (NIC Teaming Driver)	2.1(1)	12, 14, 17, 25
B200, B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	Windows Server 2008 R2 SP1 x64	2.1.0.20 (FNIC) / 2.2.0.13 (ENIC) / 2.1.0.4 (NIC Teaming Driver)	2.1(1)	12, 14, 25
B200, B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	Windows Server 2012	2.2.0.17 (FNIC) / 2.2.0.13 (ENIC)	2.1(1)	12, 14
B200, B250, B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	XenServer 6.0.2	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	14
B200, B250, B230, B440 M2 and B200, B22, B420 M3	UCS 1280 Virtual Interface Card	XenServer 6.1	1.5.0.20 (FNIC) / 2.1.1.39-1 (ENIC)	2.1(1)	14
B200, B250, B230, B440 M1 and M2	UCS M81KR Virtual Interface Card	Red Hat Enterprise Linux 5.7 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	12

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B250, B230, B440 M1 and M2	UCS M81KR Virtual Interface Card	Red Hat Enterprise Linux 5.8 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	12
B200, B250 M2 and B230, B440 M1 & M2	UCS M81KR Virtual Interface Card	Red Hat Enterprise Linux 6.2 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	12
B200, B250 M2 and B230, B440 M1 & M2	UCS M81KR Virtual Interface Card	Red Hat Enterprise Linux 6.3 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	12
B200, B250, B230, B440 M2	UCS M81KR Virtual Interface Card	SUSE Linux Enterprise Server 11.2 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1)	
B200, B250, B230, B440 M1 and M2	UCS M81KR Virtual Interface Card	vSphere 4.1 U2	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	11
B200, B250, B230, B440 M1 and M2	UCS M81KR Virtual Interface Card	vSphere 4.1i U2	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	10, 12, 19
B200, B250, B230, B440 M1 and M2	UCS M81KR Virtual Interface Card	vSphere 4.1 U3	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	11
B200, B250, B230, B440 M1 and M2	UCS M81KR Virtual Interface Card	vSphere 4.1i U3	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	10, 12, 19
B200, B250, B230, B440 M1 and M2	UCS M81KR Virtual Interface Card	vSphere 5.0i U1	1.5.0.20 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	11, 12, 19
B200, B250, B230, B440 M2	UCS M81KR Virtual Interface Card	vSphere 5.1i	1.5.0.20 (FNIC) / 2.1.2.38 (ENIC)	2.1(1)	11, 12, 19
B200, B250, B230, B440 M1 & M2	UCS M81KR Virtual Interface Card	Windows Server 2008 SP2 x64	2.1.0.20 (FNIC) / 2.2.0.13 (ENIC) / 2.1.0.4 (NIC Teaming Driver)	2.1(1)	12, 17, 25

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B250, B230, B440 M1 and M2	UCS M81KR Virtual Interface Card	Windows Server 2008 R2 SP1 x64	2.1.0.20 (FNIC) / 2.2.0.13 (ENIC) / 2.1.0.4 (NIC Teaming Driver)	2.1(1)	12, 25
B200, B250, B230, B440 M2	UCS M81KR Virtual Interface Card	Windows Server 2012	2.2.0.17 (FNIC) / 2.2.0.13 (ENIC)	2.1(1)	12
B200, B250, B230, B440 M2 and B200, B22, B420 M3	UCS M81KR Virtual Interface Card	XenServer 6.0.2	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1a)	14
B200, B250, B230, B440 M2 and B200, B22, B420 M3	UCS M81KR Virtual Interface Card	XenServer 6.1	1.5.0.20 (FNIC) / 2.1.1.39-1 (ENIC)	2.1(1a)	14
C260 M2, C460 M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	UCS VIC 1225 10-Gbps 2 port CNA SFP+	Red Hat Enterprise Linux 5.7 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1a)	20
C260 M2, C460 M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	UCS VIC 1225 10-Gbps 2 port CNA SFP+	Red Hat Enterprise Linux 5.8 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1a)	20
C260 M2, C460 M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	UCS VIC 1225 10-Gbps 2 port CNA SFP+	Red Hat Enterprise Linux 6.2 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1a)	20
C260 M2, C460 M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	UCS VIC 1225 10-Gbps 2 port CNA SFP+	Red Hat Enterprise Linux 6.3 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1a)	20

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
C260 M2, C460 M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	UCS VIC 1225 10-Gbps 2 port CNA SFP+	SUSE Linux Enterprise Server 11.2 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1a)	20
C260 M2, C460 M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	UCS VIC 1225 10-Gbps 2 port CNA SFP+	vSphere 4.1 U2	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1a)	11, 19, 20
C260 M2, C460 M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	UCS VIC 1225 10-Gbps 2 port CNA SFP+	vSphere 4.1i U2	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1a)	11, 19, 20
C260 M2, C460 M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	UCS VIC 1225 10-Gbps 2 port CNA SFP+	vSphere 4.1 U3	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1a)	11, 19, 20
C260 M2, C460 M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	UCS VIC 1225 10-Gbps 2 port CNA SFP+	vSphere 4.1i U3	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1a)	11, 19, 20
C260 M2, C460 M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	UCS VIC 1225 10-Gbps 2 port CNA SFP+	vSphere 5.0i U1	1.5.0.20 (FNIC) / 2.1.2.38 (ENIC)	2.1(1a)	11, 19, 20
C260 M2, C460 M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	UCS VIC 1225 10-Gbps 2 port CNA SFP+	vSphere 5.1i	1.5.0.20 (FNIC) / 2.1.2.38 (ENIC)	2.1(1a)	11, 19, 20

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
C260 M2, C460 M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	UCS VIC 1225 10-Gbps 2 port CNA SFP+	Windows Server 2008 SP2 x64	2.1.0.20 (FNIC) / 2.2.0.13 (ENIC) / 2.1.0.4 (NIC Teaming Driver)	2.1(1a)	20, 25
C260 M2, C460 M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	UCS VIC 1225 10-Gbps 2 port CNA SFP+	Windows Server 2008 R2 SP1 x64	2.1.0.20 (FNIC) / 2.2.0.13 (ENIC) / 2.1.0.4 (NIC Teaming Driver)	2.1(1a)	20, 25
C260 M2, C460 M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF),C420 M3	UCS VIC 1225 10-Gbps 2 port CNA SFP+	Windows Server 2012	2.2.0.17 (FNIC) / 2.2.0.13 (ENIC)	2.1(1a)	20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF)	P81E Dual Port 10-Gbps Ethernet to PCIe Virtual Interface Card	Red Hat Enterprise Linux 5.7 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1a)	20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF)	P81E Dual Port 10-Gbps Ethernet to PCIe Virtual Interface Card	Red Hat Enterprise Linux 5.8 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1a)	20

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF)	P81E Dual Port 10-Gbps Ethernet to PCIe Virtual Interface Card	Red Hat Enterprise Linux 6.2 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1a)	20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF)	P81E Dual Port 10-Gbps Ethernet to PCIe Virtual Interface Card	Red Hat Enterprise Linux 6.3 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1a)	20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF)	P81E Dual Port 10-Gbps Ethernet to PCIe Virtual Interface Card	SUSE Linux Enterprise Server 11.2 64bit	1.5.0.20 (FNIC) / 2.1.1.41 (ENIC)	2.1(1a)	20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF)	P81E Dual Port 10-Gbps Ethernet to PCIe Virtual Interface Card	vSphere 4.1 U2	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1a)	11, 19, 20

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF)	P81E Dual Port 10-Gbps Ethernet to PCIe Virtual Interface Card	vSphere 4.1i U2	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1a)	11, 19, 20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF)	P81E Dual Port 10-Gbps Ethernet to PCIe Virtual Interface Card	vSphere 4.1 U3	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1a)	11, 19, 20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF)	P81E Dual Port 10-Gbps Ethernet to PCIe Virtual Interface Card	vSphere 4.1i U3	1.4.0.213 (FNIC) / 2.1.2.38 (ENIC)	2.1(1a)	11, 19, 20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF)	P81E Dual Port 10-Gbps Ethernet to PCIe Virtual Interface Card	vSphere 5.0i U1	1.5.0.20 (FNIC) / 2.1.2.38 (ENIC)	2.1(1a)	11, 19, 20

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
C200/C210 M2, C200 M2(SFF), C250 M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF)	P81E Dual Port 10-Gbps Ethernet to PCIe Virtual Interface Card	vSphere 5.1i	1.5.0.20 (FNIC) / 2.1.2.38 (ENIC)	2.1(1a)	11, 19, 20
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF)	P81E Dual Port 10-Gbps Ethernet to PCIe Virtual Interface Card	Windows Server 2008 SP2 x64	2.1.0.20 (FNIC) / 2.2.0.13 (ENIC) / 2.1.0.4 (NIC Teaming Driver)	2.1(1a)	20, 25
C200/C210 M1 & M2, C200 M2(SFF), C250 M1 & M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF)	P81E Dual Port 10-Gbps Ethernet to PCIe Virtual Interface Card	Windows Server 2008 R2 SP1 x64	2.1.0.20 (FNIC) / 2.2.0.13 (ENIC) / 2.1.0.4 (NIC Teaming Driver)	2.1(1a)	20, 25
C200/C210 M2, C200 M2(SFF), C250 M2, C260 M2, C460 M1 & M2, C220/C240 M3(SFF/LFF), C22/C24 M3(SFF)	P81E Dual Port 10-Gbps Ethernet to PCIe Virtual Interface Card	Windows Server 2012	2.2.0.17 (FNIC) / 2.2.0.13 (ENIC)	2.1(1a)	20
B230, B440 M2 and B200, B22, B420 M3	UCS M73KR-E Converged Network Adapter	Red Hat Enterprise Linux 6.2 64bit	8.3.5.45.4p (FC) / 4.0.160r (ETH)	4.0.467.106	8

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B230, B440 M2 and B200, B22, B420 M3	UCS M73KR-E Converged Network Adapter	Red Hat Enterprise Linux 6.3 64bit	8.3.6.68.5p (FC) / 4.1.307r (ETH)	4.0.467.106	8
B230, B440 M2 and B200, B22, B420 M3	UCS M73KR-E Converged Network Adapter	Windows Server 2012	2.72.012.001 (FC) / 4.2.313.0 (ETH)	4.0.467.106	8
B200, B250, B230, B440 M1 & M2	UCS M72KR-E Converged Network Adapter	Red Hat Enterprise Linux 5.7 64bit	8.2.0.106 (FC) / 4.0.462.0 (ETH)	4.0.467.0	8
B200, B250, B230, B440 M1 & M2	UCS M72KR-E Converged Network Adapter	Red Hat Enterprise Linux 5.8 64bit	8.2.0.108.4p (FC) / 4.0.100r (ETH)	4.0.467.0	8
B200, B250 M2 and B230, B440 M1 & M2	UCS M72KR-E Converged Network Adapter	Red Hat Enterprise Linux 6.2 64bit	8.3.5.45.4p (FC) / 4.0.160r (ETH)	4.0.467.0	8
B200, B250 M2 and B230, B440 M1 & M2	UCS M72KR-E Converged Network Adapter	Red Hat Enterprise Linux 6.3 64bit	8.3.5.68.5p (FC) / 4.1.307r (ETH)	4.0.467.0	8
B200, B250, B230, B440 M1 & M2	UCS M72KR-E Converged Network Adapter	vSphere 4.1 U3	8.2.1.105.34 (FC) / 4.0.306.0 (ETH)	4.0.467.0	8, 11
B200, B250, B230, B440 M1 & M2	UCS M72KR-E Converged Network Adapter	vSphere 4.1i U3	8.2.1.105.34 (FC) / 4.0.306.0 (ETH)	4.0.467.0	8, 19
B200, B250, B230, B440 M1 & M2	UCS M72KR-E Converged Network Adapter	vSphere 5.0i U1	8.2.2.105.36 (FC) / 4.0.355.1 (ETH)	4.0.467.0	8, 11, 19

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B250, B230, B440 M2	UCS M72KR-E Converged Network Adapter	vSphere 5.1i	8.2.2.105.36 (FC) / 4.0.355.1 (ETH)	4.0.467.0	8, 11, 19
B200, B250, B230, B440 M1 & M2	UCS M72KR-E Converged Network Adapter	Windows Server 2008 SP2 x64	7.2.50.007 (FC) / 4.0.449.0 (ETH)	4.0.467.0	8
B200, B250, B230, B440 M1 & M2	UCS M72KR-E Converged Network Adapter	Windows Server 2008 R2 SP1 x64	7.2.50.007 (FC) / 4.0.449.0 (ETH)	4.0.467.0	8
B200, B250, B230, B440 M2	UCS M72KR-E Converged Network Adapter	Windows Server 2012	2.72.012.001 (FC) / 4.2.313.0 (ETH)	4.0.467.0	8
B200, B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	Red Hat Enterprise Linux 5.7 64bit	8.2.0.96.2p (FC)	2.1(1)	8, 13
B200, B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.1 U2	8.2.1.30.1-58vmw (FC)	2.1(1)	8, 13
B200, B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.1i U2	8.2.1.30.1-58vmw (FC)	2.1(1)	8, 13
B200, B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.1 U3	8.2.1.30.1-58vmw (FC)	2.1(1)	8, 13
B200, B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.1i U3	8.2.1.30.1-58vmw (FC)	2.1(1)	8, 13

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	Windows Server 2008 SP2 x64	7.2.41.002 (FC)	2.1(1)	8, 13
B200, B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	Windows Server 2008 R2 SP1 x64	7.2.41.002 (FC)	2.1(1)	8, 13
B230, B440 M2 and B200, B22, B420 M3	UCS M73KR-Q Converged Network Adapter	Windows Server 2012	9.1.10.15 (FC) / 4.6.6.1213 (ETH)	1.10.84	8
B230, B440 M2 and B200, B22, B420 M3	UCS M73KR-Q Converged Network Adapter	Red Hat Enterprise Linux 6.2 64bit	8.03.07.12.06.0-k (FC) / 5.0.25.1 (ETH)	1.10.84	8
B230, B440 M2 and B200, B22, B420 M3	UCS M73KR-Q Converged Network Adapter	Red Hat Enterprise Linux 6.3 64bit	8.04.00.04.06.3-k (FC) / 1.00.00.30 (ETH)	1.10.84	8
B200, B250, B230, B440 M1 & M2	UCS M72KR-Q Converged Network Adapter	Red Hat Enterprise Linux 5.7 64bit	8.03.07.03.05.07-k (FC) / 1.0.00.25 (ETH)	1.02.13	8
B200, B250, B230, B440 M1 & M2	UCS M72KR-Q Converged Network Adapter	Red Hat Enterprise Linux 5.8 64bit	8.03.07.09.05.08-k (FC) / 1.0.00.29 (ETH)	1.02.13	8
B200, B250 M2 and B230, B440 M1 & M2	UCS M72KR-Q Converged Network Adapter	Red Hat Enterprise Linux 6.2 64bit	8.03.07.05.06.2-k (FC) / 1.00.00.29 (ETH)	1.02.13	8
B200, B250 M2 and B230, B440 M1 & M2	UCS M72KR-Q Converged Network Adapter	Red Hat Enterprise Linux 6.3 64bit	8.04.00.04.06.3-k (FC) / 1.00.00.30 (ETH)	1.02.13	8

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B250, B230, B440 M2	UCS M72KR-Q Converged Network Adapter	Solaris 10 09/10 (U9)	20100301-3.00 (FC) / 100429-v1.05 (ETH)	1.02.13	8
B200, B250, B230, B440 M2	UCS M72KR-Q Converged Network Adapter	Solaris 10 08/11 (U10)	3.06 (FC) / 1.10 (ETH)	1.02.13	8
B200, B250, B230, B440 M1 & M2	UCS M72KR-Q Converged Network Adapter	vSphere 4.1 U2	832.k1.27vmw (FC) / 1.0.0.43 (ETH)	1.02.13	8, 11
B200, B250, B230, B440 M1 & M2	UCS M72KR-Q Converged Network Adapter	vSphere 4.1i U2	832.k1.27vmw (FC) / 1.0.0.43 (ETH)	1.02.13	8, 19
B200, B250, B230, B440 M1 & M2	UCS M72KR-Q Converged Network Adapter	vSphere 4.1 U3	832.k1.27vmw (FC) / 1.0.0.43 (ETH)	1.02.13	8, 11
B200, B250, B230, B440 M1 & M2	UCS M72KR-Q Converged Network Adapter	vSphere 4.1i U3	832.k1.27vmw (FC) / 1.0.0.43 (ETH)	1.02.13	8, 19
B200, B250, B230, B440 M1 & M2	UCS M72KR-Q Converged Network Adapter	vSphere 5.0i U1	911.k1.1-19vmw (FC) / 1.0.0.47 (ETH)	1.02.13	8, 11, 19
B200, B250, B230, B440 M2	UCS M72KR-Q Converged Network Adapter	vSphere 5.1i	911.k1.1-19vmw (FC) / 1.0.0.47 (ETH)	1.02.13	8, 11, 19
B200, B250, B230, B440 M1 & M2	UCS M72KR-Q Converged Network Adapter	Windows Server 2008 SP2 x64	9.1.8.27 (FC) / 1.0.1.12 (ETH)	1.02.13	8

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B250, B230, B440 M1 & M2	UCS M72KR-Q Converged Network Adapter	Windows Server 2008 R2 SP1 x64	9.1.8.27 (FC) / 1.0.1.12 (ETH)	1.02.13	8
B200, B250, B230, B440 M2	UCS M72KR-Q Converged Network Adapter	Windows Server 2012	9.1.10.15 (FC) / 1.0.1.15 (ETH)	1.02.13	8
B200, B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	Red Hat Enterprise Linux 5.7 64bit	8.03.07.03.05.07-k (FC)	2.1(1)	8, 13
B200, B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	Red Hat Enterprise Linux 5.8 64bit	8.03.07.09.05.08-k (FC)	2.1(1)	8, 13
B200, B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.1 U2	831.k1.28.1-1vmw (FC)	2.1(1)	8, 13
B200, B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.1i U2	831.k1.28.1-1vmw (FC)	2.1(1)	8, 13
B200, B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.1 U3	831.k1.28.1-1vmw (FC)	2.1(1)	8, 13
B200, B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.1i U3	831.k1.28.1-1vmw (FC)	2.1(1)	8, 13
B200, B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	Windows Server 2008 SP2 x64	9.1.8.27 (FC)	2.1(1)	8, 13

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	Windows Server 2008 R2 x64	9.1.8.27 (FC)	2.1(1)	8, 13
B200, B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	Windows Server 2008 R2 SP1 x64	9.1.8.27 (FC)	2.1(1)	8, 13

Network Interface Card Interoperability Matrix

Table 4 lists the network interface cards that the Unified Computing System B Series Servers support.

Table 4: Network Interface Cards

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B250, B230, B440 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	Red Hat Enterprise Linux 5.7 64bit	1.62.00-6 (ETH) / 2.1.3b (iSCSI)	6.2.15.23.7.1	
B200, B250, B230, B440 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	Red Hat Enterprise Linux 5.8 64bit	1.70.00-0 (ETH)	6.2.15.23.7.1	
B200, B250 M2 and B230, B440 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	Red Hat Enterprise Linux 6.2 64bit	1.62.00-6 (ETH)	6.2.15.23.7.1	
B200, B250 M2 and B230, B440 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	Red Hat Enterprise Linux 6.3 64bit	1.70.00-0 (ETH)	6.2.15.23.7.1	
B200, B250, B230, B440 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.1 U2	1.62.15.v41 (ETH) / 1.9.1t.v41.2 (iSCSI)	6.2.15.23.7.1	11

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B250, B230, B440 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.1i U2	1.62.15.v41 (ETH)	6.2.15.23.7.1	12, 19
B200, B250, B230, B440 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 5.0i U1	1.61.15.v50.1 (ETH)	6.2.15.23.7.1	
B200, B250, B230, B440 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	Windows Server 2008 SP2 x64	6.2.9.0 (ETH)	6.2.15.23.7.1	
B200, B250, B230, B440 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	Windows Server 2008 R2 x64	6.2.9.0 (ETH)	6.2.15.23.7.1	12, 17
B200, B250, B230, B440 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	Windows Server 2008 R2 SP1 x64	6.2.9.0 (ETH) / 6.2.7.0 (iSCSI)	6.2.15.23.7.1	12, 17
B200, B250, B230, B440 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	Red Hat Enterprise Linux 5.7 64bit	3.2.9 (ETH)	2.1.60.1.1	
B200, B250, B230, B440 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	Red Hat Enterprise Linux 5.8 64bit	3.4.8-k (ETH)	2.1.60.1.1	
B200, B250 M2 and B230, B440 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	Red Hat Enterprise Linux 6.2 64bit	3.3.9 (ETH)	2.1.60.1.1	
B200, B250 M2 and B230, B440 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	Red Hat Enterprise Linux 6.3 64bit	3.4.8-k (ETH)	2.1.60.1.1	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B250, B230, B440 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.1 U2	3.1.17.1 (ETH)	2.1.60.1.1	11
B200, B250, B230, B440 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.1i U2	3.1.17.1 (ETH)	2.1.60.1.1	19
B200, B250, B230, B440 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.1 U3	3.1.17.1 (ETH)	2.1.60.1.1	11
B200, B250, B230, B440 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.1i U3	3.1.17.1 (ETH)	2.1.60.1.1	19
B200, B250, B230, B440 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 5.0i U1	3.7.13 (ETH)	2.1.60.1.1	11, 19
B200, B250, B230, B440 M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 5.1i	3.7.13 (ETH)	2.1.60.1.1	11, 19
B200, B250, B230, B440 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	Windows Server 2008 SP2 x64	2.7.28.0 (ETH)	2.1.60.1.1	
B200, B250, B230, B440 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	Windows Server 2008 R2 x64	2.7.28.0 (ETH)	2.1.60.1.1	
B200, B250, B230, B440 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	Windows Server 2008 R2 SP1 x64	2.7.28.0 (ETH)	2.1.60.1.1	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Red Hat Enterprise Linux 5.7 64bit	3.2.9 (ETH)	2.1.11.0.70	
B200, B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Red Hat Enterprise Linux 5.8 64bit	3.4.8-k (ETH)	2.1.11.0.70	
B200, B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.1 U2	2.0.38.2.5.1-1vmw (ETH)	2.1.11.0.70	
B200, B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.1i U2	2.0.38.2.5.1-1vmw (ETH)	2.1.11.0.70	
B200, B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.1 U3	2.0.38.2.5.1-1vmw (ETH)	2.1.11.0.70	
B200, B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.1i U3	2.0.38.2.5.1-1vmw (ETH)	2.1.11.0.70	
B200, B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Windows Server 2008 SP2 x64	2.4.29.1 (ETH)	2.1.11.0.70	
B200, B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Windows Server 2008 R2 x64	2.4.29.1 (ETH)	2.1.11.0.70	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Windows Server 2008 R2 SP1 x64	2.4.29.1 (ETH)	2.1.11.0.70	

RAID Controller on Motherboard Interoperability Matrix

Table 5 lists the RAID controllers on motherboard that the Unified Computing System B Series Servers support.

Table 5: RAID Controller on Motherboard

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	Red Hat Enterprise Linux 5.7 64bit	3.0.4.18rh	1.32.04.00	
B200, B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	Red Hat Enterprise Linux 5.8 64bit	3.0.4.20rh	1.32.04.00	
B200, B250 M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	Red Hat Enterprise Linux 6.2 64bit	3.04.19	1.32.04.00	
B200, B250 M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	Red Hat Enterprise Linux 6.3 64bit	3.0.4.20	1.32.04.00	
B200, B250 M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	Solaris 10 09/10 (U9)	1.100	1.32.04.00	
B200, B250 M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	Solaris 10 08/11 (U10)	1.109	1.32.04.00	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B250 M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	SUSE Linux Enterprise Server 11.2 64bit	4.28.00.00	1.32.04.00	
B200, B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.1 U2	4.21.00.01.1-5vmw	1.32.04.00	
B200, B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.1i U2	4.21.00.01.1-5vmw	1.32.04.00	
B200, B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.1 U3	4.21.00.01.1-5vmw	1.32.04.00	
B200, B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.1i U3	4.21.00.01.1-5vmw	1.32.04.00	
B200, B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 5.0i U1	4.23.01.00-5	1.32.04.00	
B200, B250 M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 5.1i	4.23.01.00-5	1.32.04.00	
B200, B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	Windows Server 2008 SP2 x64	1.34.02.00	1.32.04.00	
B200, B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	Windows Server 2008 R2 SP1 x64	1.34.02.00	1.32.04.00	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200, B250 M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	Windows Server 2012	1.34.2.6	1.32.04.00	
B200, B250 M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	XenServer 6.0.2	4.22	1.32.04.00	
B200, B250 M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	XenServer 6.1	4.28.00.00	1.32.04.00	
B230 M2	LSI Logic MegaSAS 2008 (9240)	Oracle Unbreakable Enterprise Kernel 2.6.39-200	00.00.05.40	20.10.1-0100	22
B230 M2	LSI Logic MegaSAS 2008 (9240)	OVM 3.1.1 with UEK 2.6.39-200	00.00.05.40	20.10.1-0100	
B230 M1 & M2	LSI Logic MegaSAS 2008 (9240)	Red Hat Enterprise Linux 5.7 64bit	00.00.05.38-rh1	20.10.1-0100	
B230 M1 & M2	LSI Logic MegaSAS 2008 (9240)	Red Hat Enterprise Linux 5.8 64bit	00.00.05.40-rh2	20.10.1-0100	
B230 M1 & M2	LSI Logic MegaSAS 2008 (9240)	Red Hat Enterprise Linux 6.2 64bit	00.00.05.40-rh2	20.10.1-0100	
B230 M1 & M2	LSI Logic MegaSAS 2008 (9240)	Red Hat Enterprise Linux 6.3 64bit	00.00.06.14-rh1	20.10.1-0100	
B230 M2	LSI Logic MegaSAS 2008 (9240)	Solaris 10 09/10 (U9)	03.03.00	20.10.1-0100	3
B230 M2	LSI Logic MegaSAS 2008 (9240)	Solaris 10 08/11 (U10)	03.03.00	20.10.1-0100	3

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B230 M2	LSI Logic MegaSAS 2008 (9240)	SUSE Linux Enterprise Server 11.2 64bit	00.00.05.38-rc1	20.10.1-0100	
B230 M1 & M2	LSI Logic MegaSAS 2008 (9240)	vSphere 4.1 U2	5.33	20.10.1-0100	11
B230 M1 & M2	LSI Logic MegaSAS 2008 (9240)	vSphere 4.1i U2	5.33	20.10.1-0100	19
B230 M1 & M2	LSI Logic MegaSAS 2008 (9240)	vSphere 4.1 U3	5.33	20.10.1-0100	11
B230 M1 & M2	LSI Logic MegaSAS 2008 (9240)	vSphere 4.1i U3	5.33	20.10.1-0100	19
B230 M1 & M2	LSI Logic MegaSAS 2008 (9240)	vSphere 5.0i U1	5.34	20.10.1-0100	11, 19
B230 M2	LSI Logic MegaSAS 2008 (9240)	vSphere 5.1i	5.34	20.10.1-0100	11, 19
B230 M1 & M2	LSI Logic MegaSAS 2008 (9240)	Windows Server 2008 SP2 x64	4.32.0.64	20.10.1-0100	
B230 M1 & M2	LSI Logic MegaSAS 2008 (9240)	Windows Server 2008 R2 SP1 x64	4.32.0.64	20.10.1-0100	
B230 M2	LSI Logic MegaSAS 2008 (9240)	Windows Server 2012	5.2.122.0	20.10.1-0100	
B230 M2	LSI Logic MegaSAS 2008 (9240)	XenServer 6.0.2	5.41	20.10.1-0100	
B230 M2	LSI Logic MegaSAS 2008 (9240)	XenServer 6.1	6.15	20.10.1-0100	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B440 M2	LSI Logic MegaSAS 2108 (9260)	Oracle Unbreakable Enterprise Kernel 2.6.39-200	00.00.05.40	12.12.0-0050	22
B440 M2	LSI Logic MegaSAS 2108 (9260)	OVM 3.1.1 with UEK 2.6.39-200	00.00.05.40	12.12.0-0050	
B440 M1 & M2	LSI Logic MegaSAS 2108 (9260)	Red Hat Enterprise Linux 5.7 64bit	00.00.05.38-rh1	12.12.0-0050	
B440 M1 & M2	LSI Logic MegaSAS 2108 (9260)	Red Hat Enterprise Linux 5.8 64bit	00.00.05.40-rh2	12.12.0-0050	
B440 M1 & M2	LSI Logic MegaSAS 2108 (9260)	Red Hat Enterprise Linux 6.2 64bit	00.00.05.40-rh2	12.12.0-0050	
B440 M1 & M2	LSI Logic MegaSAS 2108 (9260)	Red Hat Enterprise Linux 6.3 64bit	00.00.06.14-rh1	12.12.0-0050	
B440 M2	LSI Logic MegaSAS 2108 (9260)	Solaris 10 09/10 (U9)	2.4	12.12.0-0050	
B440 M2	LSI Logic MegaSAS 2108 (9260)	Solaris 10 08/11 (U10)	2.9	12.12.0-0050	
B440 M2	LSI Logic MegaSAS 2108 (9260)	SUSE Linux Enterprise Server 11.2 64bit	00.00.05.38-rc1	12.12.0-0050	
B440 M1 & M2	LSI Logic MegaSAS 2108 (9260)	vSphere 4.1 U2	5.33	12.12.0-0050	11
B440 M1 & M2	LSI Logic MegaSAS 2108 (9260)	vSphere 4.1i U2	5.33	12.12.0-0050	19

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B440 M1 & M2	LSI Logic MegaSAS 2108 (9260)	vSphere 4.1 U3	5.33	12.12.0-0050	11
B440 M1 & M2	LSI Logic MegaSAS 2108 (9260)	vSphere 4.1i U3	5.33	12.12.0-0050	19
B440 M1 & M2	LSI Logic MegaSAS 2108 (9260)	vSphere 5.0i U1	5.34	12.12.0-0050	11, 19
B440 M2	LSI Logic MegaSAS 2108 (9260)	vSphere 5.1i	5.34	12.12.0-0050	11, 19
B440 M1 & M2	LSI Logic MegaSAS 2108 (9260)	Windows Server 2008 SP2 x64	4.32.0.64	12.12.0-0050	
B440 M1 & M2	LSI Logic MegaSAS 2108 (9260)	Windows Server 2008 R2 SP1 x64	4.32.0.64	12.12.0-0050	
B440 M2	LSI Logic MegaSAS 2108 (9260)	Windows Server 2012	5.2.122.0	12.12.0-0050	
B440 M2	LSI Logic MegaSAS 2108 (9260)	XenServer 6.0.2	5.41	12.12.0-0050	
B440 M2	LSI Logic MegaSAS 2108 (9260)	XenServer 6.1	6.15	12.12.0-0050	
B200 M3	LSI Logic MegaRAID SAS 2004	Oracle Unbreakable Enterprise Kernel 2.6.39-200	00.00.05.40	20.10.1-0100	22
B200 M3	LSI Logic MegaRAID SAS 2004	OVM 3.1.1 with UEK 2.6.39-200	00.00.05.40	20.10.1-0100	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200 M3	LSI Logic MegaRAID SAS 2004	Red Hat Enterprise Linux 5.7 64bit	00.00.05.38-rh1	20.10.1-0100	
B200 M3	LSI Logic MegaRAID SAS 2004	Red Hat Enterprise Linux 5.8 64bit	00.00.05.40-rh2	20.10.1-0100	
B200 M3	LSI Logic MegaRAID SAS 2004	Red Hat Enterprise Linux 6.2 64bit	00.00.05.40-rh2	20.10.1-0100	
B200 M3	LSI Logic MegaRAID SAS 2004	Red Hat Enterprise Linux 6.3 64bit	00.00.06.14-rh1	20.10.1-0100	
B200 M3	LSI Logic MegaRAID SAS 2004	SUSE Linux Enterprise Server 11.2 64bit	00.00.05.38-rc1	20.10.1-0100	
B200 M3	LSI Logic MegaRAID SAS 2004	vSphere 4.1 U2	5.33	20.10.1-0100	
B200 M3	LSI Logic MegaRAID SAS 2004	vSphere 4.1i U2	5.33	20.10.1-0100	
B200 M3	LSI Logic MegaRAID SAS 2004	vSphere 4.1 U3	5.33	20.10.1-0100	
B200 M3	LSI Logic MegaRAID SAS 2004	vSphere 4.1i U3	5.33	20.10.1-0100	
B200 M3	LSI Logic MegaRAID SAS 2004	vSphere 5.0i U1	5.34	20.10.1-0100	
B200 M3	LSI Logic MegaRAID SAS 2004	vSphere 5.1i	5.34	20.10.1-0100	
B200 M3	LSI Logic MegaRAID SAS 2004	Windows Server 2008 SP2 x64	5.1.112.64	20.10.1-0100	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B200 M3	LSI Logic MegaRAID SAS 2004	Windows Server 2008 R2 SP1 x64	5.1.112.64	20.10.1-0100	
B200 M3	LSI Logic MegaRAID SAS 2004	Windows Server 2012	5.2.122.0	20.10.1-0100	
B200 M3	LSI Logic MegaRAID SAS 2004	XenServer 6.0.2	5.41	20.10.1-0100	
B200 M3	LSI Logic MegaRAID SAS 2004	XenServer 6.1	6.15	20.10.1-0100	
B22 M3	LSI Logic MegaRAID SAS 2002	Oracle Unbreakable Enterprise Kernel 2.6.39-200	00.00.05.40	20.10.1-0100	22
B22 M3	LSI Logic MegaRAID SAS 2002	OVM 3.1.1 with UEK 2.6.39-200	00.00.05.40	20.10.1-0100	
B22 M3	LSI Logic MegaRAID SAS 2002	Red Hat Enterprise Linux 5.7 64bit	00.00.05.38-rh1	20.10.1-0100	
B22 M3	LSI Logic MegaRAID SAS 2002	Red Hat Enterprise Linux 5.8 64bit	00.00.05.40-rh2	20.10.1-0100	
B22 M3	LSI Logic MegaRAID SAS 2002	Red Hat Enterprise Linux 6.2 64bit	00.00.05.40-rh2	20.10.1-0100	
B22 M3	LSI Logic MegaRAID SAS 2002	Red Hat Enterprise Linux 6.3 64bit	00.00.06.14-rh1	20.10.1-0100	
B22 M3	LSI Logic MegaRAID SAS 2002	SUSE Linux Enterprise Server 11.2 64bit	00.00.05.38-rc1	20.10.1-0100	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B22 M3	LSI Logic MegaRAID SAS 2002	vSphere 4.1 U2	5.33	20.10.1-0100	
B22 M3	LSI Logic MegaRAID SAS 2002	vSphere 4.1i U2	5.33	20.10.1-0100	
B22 M3	LSI Logic MegaRAID SAS 2002	vSphere 4.1 U3	5.33	20.10.1-0100	
B22 M3	LSI Logic MegaRAID SAS 2002	vSphere 4.1i U3	5.33	20.10.1-0100	
B22 M3	LSI Logic MegaRAID SAS 2002	vSphere 5.0i U1	5.34	20.10.1-0100	
B22 M3	LSI Logic MegaRAID SAS 2002	vSphere 5.1i	5.34	20.10.1-0100	
B22 M3	LSI Logic MegaRAID SAS 2002	Windows Server 2008 R2 SP1 x64	5.1.112.64	20.10.1-0100	
B22 M3	LSI Logic MegaRAID SAS 2002	Windows Server 2012	5.2.122.0	20.10.1-0100	
B22 M3	LSI Logic MegaRAID SAS 2002	XenServer 6.0.2	5.41	20.10.1-0100	
B22 M3	LSI Logic MegaRAID SAS 2002	XenServer 6.1	6.15	20.10.1-0100	
B420 M3	LSI Logic MegaRAID SAS 2208	Oracle Unbreakable Enterprise Kernel 2.6.39-200	00.00.05.40	23.2.1-0056	22

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B420 M3	LSI Logic MegaRAID SAS 2208	OVM 3.1.1 with UEK 2.6.39-200	00.00.05.40	23.2.1-0056	
B420 M3	LSI Logic MegaRAID SAS 2208	Red Hat Enterprise Linux 5.7 64bit	00.00.05.38-rh1	23.2.1-0056	
B420 M3	LSI Logic MegaRAID SAS 2208	Red Hat Enterprise Linux 5.8 64bit	00.00.05.40-rh2	23.2.1-0056	
B420 M3	LSI Logic MegaRAID SAS 2208	Red Hat Enterprise Linux 6.2 64bit	00.00.05.40-rh2	23.2.1-0056	
B420 M3	LSI Logic MegaRAID SAS 2208	Red Hat Enterprise Linux 6.3 64bit	00.00.05.40-rh2	23.2.1-0056	
B420 M3	LSI Logic MegaRAID SAS 2208	SUSE Linux Enterprise Server 11.2 64bit	00.00.05.38-rc1	23.2.1-0056	
B420 M3	LSI Logic MegaRAID SAS 2208	vSphere 4.1 U2	5.33	23.2.1-0056	
B420 M3	LSI Logic MegaRAID SAS 2208	vSphere 4.1i U2	5.33	23.2.1-0056	
B420 M3	LSI Logic MegaRAID SAS 2208	vSphere 4.1 U3	5.33	23.2.1-0056	
B420 M3	LSI Logic MegaRAID SAS 2208	vSphere 4.1i U3	5.33	23.2.1-0056	
B420 M3	LSI Logic MegaRAID SAS 2208	vSphere 5.0i U1	5.34	23.2.1-0056	
B420 M3	LSI Logic MegaRAID SAS 2208	vSphere 5.1i	5.34	23.2.1-0056	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Notes
B420 M3	LSI Logic MegaRAID SAS 2208	Windows Server 2008 R2 SP1 x64	5.2.116.64	23.2.1-0056	
B420 M3	LSI Logic MegaRAID SAS 2208	Windows Server 2012	5.2.122.0	23.2.1-0056	
B420 M3	LSI Logic MegaRAID SAS 2208	XenServer 6.0.2	5.41	23.2.1-0056	
B420 M3	LSI Logic MegaRAID SAS 2208	XenServer 6.1	6.15	23.2.1-0056	

UCS Storage Accelerator Interoperability Matrix

Table 6 lists the UCS storage accelerators that are supported with this version of the Unified Computing System.

Table 6: UCS Storage Accelerators

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware
B200, B22, B420 M3	LSI 400GB SLC WarpDrive	Windows Server 2008 R2 SP1 x64	2.10.58.00	08.65.02.00
B200, B22, B420 M3	LSI 400GB SLC WarpDrive	Windows Server 2012	2.10.58.00	08.65.02.00
B200, B22, B420 M3	LSI 400GB SLC WarpDrive	Red Hat Enterprise Linux 5.7 64bit	14.00.00.00	08.65.02.00
B200, B22, B420 M3	LSI 400GB SLC WarpDrive	Red Hat Enterprise Linux 5.8 64bit	14.00.00.00	08.65.02.00
B200, B22, B420 M3	LSI 400GB SLC WarpDrive	Red Hat Enterprise Linux 6.2 64bit	14.00.00.00	08.65.02.00
B200, B22, B420 M3	LSI 400GB SLC WarpDrive	Red Hat Enterprise Linux 6.3 64bit	14.00.00.00	08.65.02.00
B200, B22, B420 M3	LSI 400GB SLC WarpDrive	vSphere 4.1i U3	14.00.00.00.1	08.65.02.00

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware
B200, B22, B420 M3	LSI 400GB SLC WarpDrive	vSphere 5.0i U1	14.00.00.00.1	08.65.02.00
B200, B22, B420 M3	LSI 400GB SLC WarpDrive	vSphere 5.1i	14.00.00.00.1	08.65.02.00
B200, B22 M3	UCS 785GB MLC Fusion-io ioDrive2	Windows Server 2008 R2 SP1 x64	3.2.2.869	7.1.13
B200, B22 M3	UCS 785GB MLC Fusion-io ioDrive2	Windows Server 2012	3.2.2.869	7.1.13
B200, B22 M3	UCS 785GB MLC Fusion-io ioDrive2	Red Hat Enterprise Linux 5.7 64bit	3.2.2.869	7.1.13
B200, B22 M3	UCS 785GB MLC Fusion-io ioDrive2	Red Hat Enterprise Linux 5.8 64bit	3.2.2.869	7.1.13
B200, B22 M3	UCS 785GB MLC Fusion-io ioDrive2	Red Hat Enterprise Linux 6.2 64bit	3.2.2.869	7.1.13
B200, B22 M3	UCS 785GB MLC Fusion-io ioDrive2	Red Hat Enterprise Linux 6.3 64bit	3.2.2.869	7.1.13
B200, B22 M3	UCS 785GB MLC Fusion-io ioDrive2	vSphere 4.1i U3	3.2.2.869	7.1.13
B200, B22 M3	UCS 785GB MLC Fusion-io ioDrive2	vSphere 5.0i U1	3.2.2.869	7.1.13
B200, B22 M3	UCS 785GB MLC Fusion-io ioDrive2	vSphere 5.1i	3.2.2.869	7.1.13

Storage Array Interoperability Matrix

Table 7 lists the storage array models that are supported with this version of the Unified Computing System.

Cisco's interoperability guidelines in this table apply to the following topologies and protocols:

- FC/FCoE-attached storage arrays (Fabric Interconnects in NPV mode or FC Switching Mode)
- UCSM-configured iSCSI boot
- iSCSI data LUN access if the storage array is directly connected to UCS Fabric Interconnects using Appliance Ports
- NFS or CIFS data access if the storage array is directly connected to UCS Fabric Interconnects using Appliance Ports

**Note**

Cisco UCS has no interoperability requirements for storage arrays configured to use iSCSI (Data Only), NFS, or CIFS when connected through UCS Fabric Interconnect Uplink Port.

Table 7: Storage Array

Vendor	Storage Array Model	Array Firmware	Notes
EMC	EMC Symmetrix family (VMAX & DMX), EMC CLARiiON (AX & CX) EMC Unified Storage VNX EMC Celerra (Native Block) EMC Isilon (NFS/CIFS)	Refer to storage vendor's support list, https://elabnavigator.emc.com	5, 6, 7, 12, 26
Netapp	FAS2000 series, FAS3000 series, FAS6000 series, FAS3100 series, FAS3200 series, FAS6200 series, V3000 series, V6000 series	Refer to storage vendor's support list, http://support.netapp.com/	5, 6, 7, 12
HP	EVA 4000/6000/8000/4100/6100/8100, EVA 4400/6400/8400, XP 10000/12000, XP 20000/24000, P9500, MSA 2000, P2000		
HP	HP 3PAR F200, F400, T400, T800		
HDS	USP-V, USP-VM, VSP, AMS 1000, 2000 Series: AMS 2100, AMS 2300, AMS 2500, HUS100 Series, HUS-VM	Refer to storage vendor's support list, http://www.hds.com/products/interoperability/	5, 6, 7
IBM	DS 8100, DS 5300, SVC, Storwize V7000, IBM N-Series, DS 3500, DS 4800, XIV(Gen 2)		

Enterprise Backup Interoperability Matrix

Table 8 lists the tape library models that are supported with this version of the Unified Computing System.

Table 8: Tape Libraries

Vendor	Tape Library Model	Backup Application	Firmware	Notes
Oracle	SL500: HP LTO3, HP LTO4, HP LTO5, IBM LTO3, IBM LTO4, IBM LTO5 SL3000: HP LTO3, HP LTO4, HP LTO5, IBM LTO3, IBM LTO4, IBM LTO5, T10000C	EMC Networker 7.6.3		24
Quantum	i500: HP LTO4, HP LTO5, IBM LTO4, IBM LTO5 DXi6702: All supported emulated tape drives	Symantec Netbackup 7.5	Refer to storage vendor's support list, http://www.quantum.com/swcompguide.aspx	24
IBM	TS3584: IBM LTO4	TSM 6.3		24

Switch Interoperability Matrix

Table 9 lists the switch models that are supported with this version of the Unified Computing System.

Table 9: Switch

Vendor	Switch Model	Notes
Brocade	6510: 7.0.2, 7.0.1b, 7.0.1a	2, 16
Brocade	300, 5100, 5300: 7.0.2, 7.0.1b, 7.0.1a, 6.4.3b, 6.3.2e, 6.3.2d, 6.4.2b, 6.4.1b	2, 16
Brocade	4100, 48000, 4900, 5000: 5.2.1, 6.4.1b, 6.3.2a, 6.4.2a	2, 16
Brocade	7500: 5.2.1, 6.4.1b	2, 16
Brocade	DCX-4S: 7.0.2, 7.0.1b, 7.0.1a, 6.4.3b, 6.3.2e, 6.3.2d, 6.4.2b, 6.4.1b	2, 16
Brocade	DCX: 7.0.2, 7.0.1b, 7.0.1a, 6.4.3b, 6.3.2e, 6.3.2d, 6.4.2b, 6.4.1b	2, 16
Cisco	MDS: 4.2.1b	1, 2, 9
Cisco	Nexus 7000: 5.2(4)	1, 2, 9
Cisco	Nexus 5000: 5.1(3)N1(1)	1, 2, 9

Notes

- 1 Code levels greater than or equal to these listed versions are deemed by Cisco to be interoperable
- 2 The storage vendor's interoperability matrix should be consulted for switch software revisions that are supported with their arrays
- 3 SAN Boot requires removal of all local disks
- 4 Driver required for installation not included in OS image or not supported, download driver from cisco.com
- 5 Direct Connect FC and FCoE topologies are supported with this array
- 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, UCS M72KR-Q is equivalent to QLogic QLE8142/QLE8152, UCS M72KR-E is equivalent to Emulex OCe10102-F, UCS M73KR-Q is equivalent to QLogic QLE8242, UCS M73KR-E is equivalent to Emulex Oce11102-F
- 9 Specific switch features must be supported on all switches used, please consult release notes for each switch product to determine support for the desired feature
- 10 To upgrade to ESXi 4.0 U3 or U4 and ESXi 4.1 U1 or U2, 1st install the Cisco custom image (refer to note 23)
- 11 The listed driver version is required for support. The updated Driver CD is available from VMware.com > All Downloads > VMware vSphere > Drivers & Tools > VMware ESX/ESXi Driver CD for Cisco FCoE CNA
- 12 iSCSI Boot is supported. Both Appliance and Uplink ports are supported unless otherwise noted
- 13 Refer to the UCS 82598KR-CI 10-Gigabit Ethernet Adapter for the supported Ethernet driver on this Converged Network Adapter
- 14 The 2104XP fabric extender is not compatible when the 1240 and 1280 or 1240 and VIC Port Expander are combined on the same blade. Applies to B22 M3 and B200 M3 as well as B420 with 1240 and adapter slot 2 populated
- 15 Listed support is for the UEK Kernel only. For the RHEL compatible kernel, please refer to the RHEL versions
- 16 UCS Fabric Interconnect must be in FC End Host mode and upstream switch NPIV enabled
- 17 iSCSI Boot is not supported on Windows Server Core
- 18 All variations of OS are supported for this version, including Windows Server Core, Full and Hyper-V Standalone
- 19 The listed driver version is required for support. They are contained in the Cisco OEM Customized ESX ISO available from VMware.com > downloads > VMware vSphere Hypervisor (ESXi)
- 20 For C-Series servers managed by UCSM, unless stated in this document, the supported firmware and drivers will be in the 1.4(7) and 1.4(8) C-Series Compatibility guide
- 21 2.0(4) B-Series Product bundle is supported with the 2.1(1) Infrastructure bundle. When running this combination, the 2.0(4) Interoperability guide would be applicable

- 22 Listed support is for the UEK Kernel only. For the Red Hat Enterprise Linux compatible kernel, please refer to the Red Hat Enterprise Linux versions
- 23 Updating drivers during OS installation is currently not supported by Oracle. Update driver after the OS has completed installation.
- 24 Enable FCP error recovery in the service profile adapter policy
- 25 NIC Teaming driver is not currently supported with Hyper-V
- 26 Isilon is supported for NFS/CIFS access via appliance ports on the Fabric Interconnect

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>

Cisco UCS B-Series Blade Server Software is available for download here:

<http://www.cisco.com/cisco/software/type.html?mdfid=283853163&flowid=25821>

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For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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