



## VMWare Support Matrix

### Hitachi Unified Storage 100 Family

**Note:** Configurations added since the last matrix will be shown in red text.

#### Introduction

Use this interoperability matrix to check whether a proposed customer configuration is supported. Each tab contains a set of components that together comprise a Hitachi Vantara supported solution. This includes operating system (OS) and maintenance release, host bus adapter (HBA), HBA driver, and storage area network (SAN) switches, both Fibre channel (FC) and Fibre channel over Ethernet (FCoE).

In the sample datapath below, a customer configuration is supported if that particular HBA and driver, switch and switch firmware combinations both appear on the Windows Server 2012 R2 support matrix.

**For example:** Windows Server 2012 R2 host that has an Emulex LPe12000/12002 HBA using driver v2.76.002.001 connected to a Brocade DCX SAN switch with FOS v7.2.1 installed.

If a combination does not appear on the OS support matrix, the customer's Hitachi Vantara Sales Engineer (SE) or other Hitachi field service employee must submit an Interoperability Support Request in order to gain support for the new configuration.

Note that in some cases a component (HBA, driver, switch, switch firmware version) may no longer be supported (end of service life, EOSL) in which case the customer should choose components that are already supported from the matrix. Click on a tab to view associated components.

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## HUS 110 130 150 support for VMWare ESXi 6.0, UP1, UP2, UP3, 6.5 (X64)

FC Storage Interface			
Host Bus Adapters (FC-HBA)/Converged Network Adapters (CNA)			
Manufacturer	Models	Driver Versions	Notes
Cisco	UCS 1225, 1225T, 1227, 1240, 1280, 1285	v1.6.0.12b v1.6.0.17a v1.6.0.25 v1.6.0.28 v2.4.0.13	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS 1340, 1380	v1.6.0.17a v1.6.0.25 v2.4.0.13	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS M81KR	v1.6.0.17a v1.6.0.28	Must connect to a Cisco UCS top of rack interconnect switch.
Emulex	LPe12000, LPe12002, LPe1205	Bundled v10.4.236.0	
	LPe16000, LPe16002, LPe16002B	Bundled v10.2.455.0 v11.1.183.43	
	LPe31000, LPe31002, LPe31004, LPe32000, LPe32002	v11.0.237.0	
	OCe10102	Bundled	
	OCe11102	Bundled v11.0.237.0	
QLogic	QLE2560, QLE2562	Bundled	
	QLE2660, QLE2662, QLE2670, QLE2672	Bundled	
	QLE2690, QLE2692	Bundled	
	QLE2740, QLE2742, QLE2764	v2.1.41.0	
	QLE8260, QLE8262	Bundled	
	QLE8360, QLE8362	Bundled	
FC Switches			
Manufacturer	Models	Firmware Versions	Notes
Brocade	300, 5300, 7800, DCX, DCX-4s	v7.0.0 - v7.0.2e, v7.1.0a - v7.1.2b, v7.2.0a - v7.2.1g, v7.3.0 - v7.3.2b, v7.4.0 - v7.4.2a, v7.4.2c	Brocade FOS v7.1.0, v7.2.0, and v7.4.2b are not supported.
	6505, 6510, 6520, DCX8510	v7.0.0 - v7.0.2e, v7.1.0a - v7.1.2b, v7.2.0a - v7.2.1g, v7.3.0 - v7.3.2b, v7.4.0 - v7.4.2a, v7.4.2c, v8.0.1 - v8.0.2e	Brocade FOS v7.1.0, v7.2.0, v7.4.2b, and v8.0.0 are not supported.
	G620, X6	v8.0.1 - v8.0.2e	Brocade FOS v8.0.0 is not supported.
Cisco	9148, 9222i, 9506 (4Gb), 9506 (8Gb), 9509 (4Gb), 9509 (8Gb), 9513, 9513 (8Gb)	v6.2(1) - v6.2(13b), v6.2(17) - v6.2(23)	Cisco OS v6.2(15) is no longer supported.
	9250i	v6.2(5) - v6.2(13b), v6.2(17) - v6.2(23), v7.3(0)D1(1) - v7.3(1)D1(1)	Cisco OS v6.2(15) is no longer supported.
	9396S	v6.2(13) - v6.2(13b), v6.2(17) - v6.2(23), v7.3(0)D1(1) - v7.3(1)D1(1)	Cisco OS v6.2(15) is no longer supported.
	9710	v6.2(1) - v6.2(13b), v6.2(17) - v6.2(23)	Cisco OS v6.2(15) is no longer supported.
	9718	v7.3(0)D1(1) - v7.3(1)D1(1), v7.3(0)DY(1)	
FCOE Switches (FCF mode)			
Manufacturer	Models	Firmware Versions	Notes
Any	Generic DCB IP Switch	Any DCB 10GigE FW	
Cisco	Nexus 5672up, 5672up-2248pq	v7.3(0)N1(1) - v7.3(1)N1(1)	
	UCS 6120XP, 6140XP, 6248up, 6296up	v2.1(3a) - v2.1(3g), v2.2(1b) - v2.2(1d), v2.2(3a) - v2.2(4c), v2.2(6c) - v2.2(8f)	
	UCS 6324	v3.0(2c) - v3.0(2d), v3.1(1e) - v3.1(1l)	Cisco UCS Mini only

<b>ISCSI Storage Interface</b>			
<b>ISCSI Adapters</b>			
<b>Manufacturer</b>	<b>Models</b>	<b>Driver Versions</b>	<b>Notes</b>
Any	Generic 10GigE Switch	Any 10GigE FW	
QLogic	QLE8360, QLE8362	v644.6.06.0	
<b>ISCSI Switches</b>			
<b>Manufacturer</b>	<b>Models</b>	<b>Firmware Versions</b>	<b>Notes</b>
Any	Generic 10GigE Switch	Any 10GigE FW	

## HUS 110 130 150 support for VMWare ESXi 5.5, UP1, UP2, UP3 (X64)

<b>FC Storage Interface</b>			
<b>Host Bus Adapters (FC-HBA)/Converged Network Adapters (CNA)</b>			
Manufacturer	Models	Driver Versions	Notes
Cisco	UCS 1225, 1225T, 1227, 1240, 1280, 1285	v1.5.0.45 v1.5.0.49 v1.6.0.5 v1.6.0.10 v1.6.0.12 v1.6.0.12b v1.6.0.17a v1.6.0.25 v1.6.0.28 v2.4.0.13	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS 1340, 1380	v1.6.0.12 v1.6.0.12b v1.6.0.16 v1.6.0.25 v2.4.0.13	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS M81KR	v1.5.0.45 v1.6.0.25	Must connect to a Cisco UCS top of rack interconnect switch.
Emulex	LPe11000, LPe11002	Bundled	
	LPe12000, LPe12002, LPe1205, LPe1205-HI	Bundled v10.0.720.0 v10.2.261.7 v10.2.340.18	
	LPe16000, LPe16002, LPe16002B	Bundled v10.0.725.203 v11.1.145.18	
	OCe10102	v8.2.3.1-129vmw v8.2.4.151.65	
	OCe11102	v8.2.3.1-129vmw v8.2.4.151.65 v10.2.455.0	
HP	A8003A, A8003B, FC2242SR, A8002A, A8002B, FC2142SR	Bundled	
	AJ763A, AJ763B, 82E, AJ762A, AJ762B, 81E	Bundled	
	AE311A, AE312A, FC1142SR	Bundled	
	AK344A, AJ764A, 81Q, 82Q	Bundled	
	403619-B21 QMH2462	Bundled	
	451871-B21 QMH2562	Bundled	
	534M	v1.78.28.v55.2 v1.78.80.v55.3	
	554FLB, 554M	v10.2.298.12 v10.2.340.18 v10.5.39.0	
	650FLB, 650M	v10.2.340.18 v10.2.292.0 v10.5.39.0	
	651281-B21 QMH2572	Bundled	
	718203-B21	v10.0.725.203	
	NC553i	v10.2.298.12 v10.5.39.0	
	IBM	88Y5920 90Y3554	v1.78.76.v55.1 Bundled

Qlogic	QLE2460, QLE2462	Bundled	
	QLE2560, QLE2562	Bundled	
	QLE2660, QLE2662, QLE2670, QLE2672	Bundled	
	QLE2690, QLE2692	Bundled	
	QLE8240, QLE8242	Bundled	
	QLE8360, QLE8362	Bundled v1.1.39.0	
	QME2572	Bundled	
	QME2662	Bundled	
<b>FC Switches</b>			
<b>Manufacturer</b>	<b>Models</b>	<b>Firmware Versions</b>	<b>Notes</b>
Brocade	300, 5300, 7800, DCX, DCX-4s	v7.0.0 - v7.0.2e, v7.1.0a - v7.1.2b, v7.2.0a - v7.2.1g, v7.3.0 - v7.3.2b, v7.4.0 - v7.4.2a, v7.4.2c	Brocade FOS v7.1.0, v7.2.0, and v7.4.2b are not supported.
	6505, 6510, 6520, DCX8510	v7.0.0 - v7.0.2e, v7.1.0a - v7.1.2b, v7.2.0a - v7.2.1g, v7.3.0 - v7.3.2b, v7.4.0 - v7.4.2a, v7.4.2c, v8.0.1 - v8.0.2e	Brocade FOS v7.1.0, v7.2.0, v7.4.2b, and v8.0.0 are not supported.
	G620, X6	v8.0.1 - v8.0.2e	Brocade FOS v8.0.0 is not supported.
Cisco	9148, 9222i, 9506 (4Gb), 9506 (8Gb), 9509 (4Gb), 9509 (8Gb), 9513, 9513 (8Gb)	v6.2(1) - v6.2(13b), v6.2(17) - v6.2(23)	Cisco OS v6.2(15) is no longer supported.
	9148S, 9706	v7.3(0)D1(1) - v7.3(1)D1(1)	Cisco OS v6.2(15) is no longer supported.
	9250i	v6.2(5) - v6.2(13b), v6.2(17) - v6.2(23), v7.3(0)D1(1) - v7.3(1)D1(1)	Cisco OS v6.2(15) is no longer supported.
	9396S	v6.2(13) - v6.2(13b), v6.2(17) - v6.2(23)	Cisco OS v6.2(15) is no longer supported.
	9710	v6.2(1) - v6.2(13b), v6.2(17) - v6.2(23)	Cisco OS v6.2(15) is no longer supported.
	9718	v7.3(0)D1(1) - v7.3(1)D1(1), v7.3(0)DY(1)	
<b>FCOE Switches (FCF mode)</b>			
<b>Manufacturer</b>	<b>Models</b>	<b>Firmware Versions</b>	<b>Notes</b>
Any	Generic DCB IP Switch	Any DCB 10GigE FW	
Cisco	9250i (FCoE)	v6.2(5) - v6.2(13b), v6.2(17) - v6.2(23), v7.3(0)D1(1) - v7.3(1)D1(1)	Cisco OS v6.2(15) is no longer supported.
	9513 (FCoE)	v6.2(1) - v6.2(13b), v6.2(17) - v6.2(23), v7.3(0)D1(1) - v7.3(1)D1(1)	Cisco OS v6.2(15) is no longer supported.
	9706 (FCoE)	v6.2(9a) - v6.2(13b), v6.2(17) - v6.2(23), v7.3(0)D1(1) - v7.3(1)D1(1)	Cisco OS v6.2(15) is no longer supported.
	9710 (FCoE)	v6.2(7) - v6.2(13b), v6.2(17) - v6.2(23), v7.3(0)D1(1) - v7.3(1)D1(1)	Cisco OS v6.2(15) is no longer supported.
	9718 (FCoE)	v7.3(0)D1(1) - v7.3(1)D1(1)	VSP G1000 & VSP only
	UCS 6120XP, 6140XP, 6248up, 6296up	v2.1(3a) - v2.1(3g), v2.2(1b) - v2.2(1d), v2.2(3a) - v2.2(4c), v2.2(5b) - v2.2(5d), v2.2(6c) - v2.2(8f), v3.1(1e)	
	Nexus 5020, 5596UP, 5548up-2232pp, Nexus 5596T-2232TM-E	v7.1(0)N1(1a) - v7.1(4)N1(1)	
	Nexus 5672up, 5672up-2248pq	v7.1(0)N1(1a) - v7.1(4)N1(1), v7.3(0)N1(1) - v7.3(1)N1(1)	
	Nexus 6001T, 6004, 6001p-2248pq	v6.0(2)N1(1), v6.0(2)N1(2), v6.0(2)N1(2a), v7.1(0)N1(1a) - v7.1(4)N1(1)	
	Nexus 7710 (FCoE)	v7.3(0)D1(1) - v7.3(1)D1(1)	
UCS 6324	v3.0(2c) - v3.0(2d), v3.1(1e) - v3.1(1f)	Cisco UCS Mini only	

<b>ISCSI Storage Interface</b>			
<b>ISCSI Adapters</b>			
<b>Manufacturer</b>	<b>Models</b>	<b>Driver Versions</b>	<b>Notes</b>
Any	Generic 10GigE Switch	Any 10GigE FW	
HP	554FLB	v4.9.303	
	554FLR-SFP	v4.9.303.0	
	556FLR-SFP+	v10.2.250.0	
<b>ISCSI Switches</b>			
<b>Manufacturer</b>	<b>Models</b>	<b>Firmware Versions</b>	<b>Notes</b>
Any	Generic 10GigE Switch	Any 10GigE FW	