



## Windows Support Matrix

### Hitachi VSP 5x00, G1x00, F1500, E990, Gxx0, Fxx0, HUS VM

**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 an Hitachi Vantara-supported solution. This includes operating system (OS) and maintenance release, host bus adapter (HBA), HBA driver, and storage area network (SAN) switches, for Fibre channel (FC), Fibre channel over Ethernet (FCoE), and 10 Gbps iSCSI.

**Note:** The arrays supported now include the VSP E990.

#### Note on the 16 & 32 Gb Interfaces:

- The 32Gb interface is only available on the VSP 5x00, E990, GX00 and FX00 arrays. It is supported with both 16 & 32Gb SFPs and operates at a maximum of 32Gbps.
- The HUS VM does not have a 16Gb FC interface.
- With SVOS 7, for Direct connection to 16Gb or 32Gb FC you must set the storage port to Fabric = OFF and Connection Type P-to-P (Point to Point)

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.

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## VSP 5x00, G1x00, F1500, E990, Gxx0, Fxx0 support for Microsoft Windows Server 2019

FC Storage Interface			
Host Bus Adapters (FC-HBA)/Converged Network Adapters (CNA)			
Manufacturer	Models	Driver Versions	Notes
Emulex	LPe12000, LPe12002, LPe1205	v12.4.243.4	
	LPe16000, LPe16002, LPe16004, LPe16000B, Pe16002B	v11.4.225.8009 v12.4.243.4	
	LPe31000, LPe31002, LPe31004, LPe32000, LPe32002, LPe32004	v11.4.225.8009 v12.2.284.0 v12.4.243.4	
	LPe35000, LPe35002	v12.2.284.0	
	OCe14102	v11.0.247.8000 v11.2.1135.0	
HPE	3530c	v11.4.225.8009	
	3830C	v9.2.8.21	
	QMH2682	v9.2.9.22 v9.3.3.20	
	651281-B21	v9.2.8.21	
	QMH2572	v9.3.3.20	
	659818-B21	v12.4.243.4	
	LPe1205A		
	718203-B21	v12.4.243.4	
	LPe1605		
	SN1100E	v11.4.225.8009	
SN1200E	v11.4.225.8009		
SN1600E	v11.4.225.8009		
<b>SN1100Q</b>	<b>v9.3.3.20</b>		
QLogic	QLE2560, QLE2562	v9.2.8.21 v9.3.3.20	
	QLE2660, QLE2662, QLE2670, QLE2672, QME2662	v9.2.8.21 v9.3.3.20	
	QLE2690, QLE2692, QLE2740, QLE2742, QLE2764	v9.2.8.21 v9.3.3.20	
	QLE8360, QLE8362	v9.1.11.3 v9.1.13.10	
	QLE8442	v7.14.18.0	
FC Switches			
Manufacturer	Models	Firmware Versions	Notes
Brocade	6505, 6510, 6520, 7840, DCX 8510	v7.4.2d - v7.4.2g, v8.2.0a - v8.2.0b, v8.2.1a - v8.2.1e, v8.2.2 - <b>v8.2.2d</b>	Brocade FOS v8.2.0, and v8.2.1 are not supported.
	G610	v8.2.0a - v8.2.0b, v8.2.1a - v8.2.1e, v8.2.2 - <b>v8.2.2d</b> , v9.0.0a - v9.0.0b	Brocade FOS v8.2.0, v8.2.1, and v9.0.0 are not supported.
	G620, X6	v8.2.0a - v8.2.0b, v8.2.1a - v8.2.1e, v8.2.2 - <b>v8.2.2d</b> , v9.0.0a - v9.0.0b	Brocade FOS v8.2.0, v8.2.1, and v9.0.0 are not supported.
	G630	v8.2.0a - v8.2.0b, v8.2.1a - v8.2.1e, v8.2.2 - <b>v8.2.2d</b> , v9.0.0a - v9.0.0b	Brocade FOS v8.2.0, v8.2.1, and v9.0.0 are not supported.
	G620v2, G630v2, G720, X6 Plus, X7	v9.0.0a - v9.0.0b	
Cisco	9506 (8Gb), 9513 (8Gb)	v6.2(29) - v6.2(31)	
	9132T	v8.3(1) - v8.3(2), v8.4(1) - v8.4(2a)	
	9148S, 9706	v8.3(1) - v8.3(2), v8.4(1) - v8.4(2a)	
	9148T, 9396T	v8.4(1) - v8.4(2a)	
	9250i	v8.3(1) - v8.3(2), v8.4(1) - v8.4(2a)	
	9396S	v8.3(1) - v8.3(2), v8.4(1) - v8.4(2a)	
	9710	v8.3(1) - v8.3(2), v8.4(1) - v8.4(2a)	
	9718	v8.3(2), v8.4(1) - v8.4(2a)	Cisco OS v8.3(1) is no longer supported on the 9718.
	9706 (32Gb), 9710 (32Gb)	v8.3(1) - v8.3(2), v8.4(1) - v8.4(2a)	
9718 (32Gb)	v8.3(2), v8.4(1) - v8.4(2a)	Cisco OS v8.3(1) is no longer supported on the 9718.	

FCOE Switches (FCF mode)			
Manufacturer	Models	Firmware Versions	Notes
Cisco	Nexus 5548p, 5548up, 5548up-2232pp, 5596up, 5596T, 5596T-2232TM-E	v7.3(5)N1(1)	
	Nexus 6001P, 6001p-2248pq, 6001T, 6004	v7.3(0)N1(1) - v7.3(1)N1(1)	
	Nexus 5672up, 5672up-2248pq	v7.3(0)N1(1) - v7.3(1)N1(1)	

FCOE Storage Interface - VSP G1000 only			
Converged Network Adapters (CNA)			
Manufacturer	Models	Driver Versions	Notes
Emulex	OCe14102	v11.0.247.8000 v11.2.1135.0 v11.4.1186.3	
QLogic	QLE8360, QLE8362	v9.1.11.3 v9.1.13.10	
FCOE Switches			
Manufacturer	Models	Firmware Versions	Notes
Any	Generic DCB IP Switch	Any DCB 10GigE FW	
Cisco	9706 (FCoE), 9710 (FCoE), 9718 (FCoE)	v8.4(1) - v8.4(2a)	
	Nexus 5672up, 5672up-2248pq	v7.3(0)N1(1) - v7.3(1)N1(1)	

10 Gbps iSCSI Storage Interface			
iSCSI Adapters			
Manufacturer	Models	Driver Versions	Notes
Any	10 GbE NIC	Bundled	
Emulex	OCe11102	v10.6.116.0 v11.0.273.8008	
	OCe14102	v11.4.1174.0	
QLogic	QLE8360, QLE8362	v2.1.5.0	
iSCSI Switches			
Manufacturer	Models	Firmware Versions	Notes
Any	Generic 10GigE Switch	Any 10GigE FW	
Cisco	Nexus 5548p, 5548up, 5548up-2232pp, 5596up, 5596T, 5596T-2232TM-E	v7.3(3)N1(1)	

VSP 5x00, G1x00, F1500, Gxx0, Fxx0 support for Microsoft Windows Server 2016

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	v3.0.0.7 v3.0.0.8 v3.1.0.11	
	UCS 1340, 1380	v3.0.0.7 v3.0.0.8 v3.2.0.14	Must connect to a Cisco UCS top of rack interconnect switch.
Emulex	LPe12000, LPe12002, LPe1205	v11.0.247.8000 v11.1.145.16 v11.2.139.0 v12.2.284.0-11	
	LPe16000, LPe16002, LPe16004, LPe16000B, Pe16002B	v11.0.247.8000 v11.1.145.16 v11.2.139.0 v11.4.204.8 v12.0.193.13 v12.4.243.4	
	LPe31000, LPe31002, LPe31004, LPe32000, LPe32002, LPe32004	v11.1.145.16 v11.2.139.0 v11.4.204.8 v12.0.193.13 v12.4.243.4	
	OCe11102	v11.0.247.8000 v11.2.1135.0	
	OCm14102	v11.2.1135.0	
HPE	3530c	v11.1.145.16 v11.2.139.0	
	3820C	v7.14.15.0	
	3830C	v9.2.4.21	
	QMH2682		
	456972-B21	v11.1.145.16	
	LPe1205		
	534M, 534FLB	v7.14.15.0	
	536FLB	v7.14.15.0	
	554M, 554FLB	v11.1.145.16	
	630M, 630FLB	v7.14.15.0	
	650FLB, 650M	v11.1.145.16	
	659818-B21	v11.1.145.16	
	LPe1205A		
	710608-B21	v9.2.9.22	
	QMH2672	v9.3.3.20	
	81E, 82E, AJ762A, AJ762B, AJ763A, AJ763B, AH402A, AH403A	v11.0.247.8000	
	81Q, 82Q, AK344A, AJ764A	v9.1.15.1 v9.3.3.20	
	SN1100E	v11.0.247.8000 v11.1.145.16 v11.2.139.0 v12.0.193.13	
	SN1200E	v11.1.145.16 v11.2.139.0 v12.0.193.13	
	SN1600E	v11.1.145.16 v11.2.139.0 v12.0.193.13	
SN1000Q	v9.1.15.1 v9.2.3.20 v9.3.3.20		
SN1100Q	v9.2.3.20 v9.3.3.20		
SN1600Q	v9.2.3.20 v9.3.3.20		
IBM	42D0485, 42D0494	v11.0.247.8000	

	42D0501, 42D0510	v9.1.15.1	
Qlogic	QLE2560, QLE2562	v9.1.15.1 v9.2.3.20	
	QLE2660, QLE2662, QLE2670, QLE2672, QME2662	v9.1.15.1 v9.2.3.20	
	QLE2690, QLE2692, QLE2740, QLE2742, QLE2764	v9.1.15.1 v9.2.3.20	
	QLE8360, QLE8362	v9.1.11.3 v9.1.13.10	

### FC Switches

Manufacturer	Models	Firmware Versions	Notes
Brocade	300, 7800	v7.4.2d - v7.4.2g	
	6505, 6510, 6520, 7840, DCX 8510	v7.4.2d - v7.4.2g, v8.1.2a - v8.1.2b, v8.1.2d, v8.1.2f - v8.1.2k, v8.2.0a - v8.2.0b, v8.2.1a - v8.2.1e, v8.2.2 - v8.2.2d	Brocade FOS v8.1.2c, v8.1.2e, and v8.2.1 are not supported.
	G610	v8.1.2a - v8.1.2b, v8.1.2d, v8.1.2f - v8.1.2k, v8.2.0a - v8.2.0b, v8.2.1a - v8.2.1e, v8.2.2 - v8.2.2d	Brocade FOS v8.1.2c, v8.1.2e, v8.2.0, and v8.2.1 are not supported.
	G620, X6	v8.1.2a - v8.1.2b, v8.1.2d, v8.1.2f - v8.1.2k, v8.2.0a - v8.2.0b, v8.2.1a - v8.2.1e, v8.2.2 - v8.2.2d	Brocade FOS v8.1.2c, v8.1.2e, v8.2.0, and v8.2.1 are not supported.
	G630	v8.2.0a - v8.2.0b, v8.2.1a - v8.2.1e, v8.2.2 - v8.2.2d	Brocade FOS v8.2.0, and v8.2.1 are not supported.
	G620v2, G630v2, G720, X6 Plus, X7	v9.0.0a - v9.0.0b	
Cisco	9506 (8Gb), 9513 (8Gb)	v6.2(17) - v6.2(29) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1)	
	9132T	v8.2(1) - v8.2(2), v8.3(1) - v8.3(2)	
	9148S, 9706	v6.2(17) - v6.2(29) - v6.2(31), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2), v8.3(1) - v8.3(2), v8.4(1) - v8.4(2a)	
	9148T, 9396T	v8.3(1) - v8.3(2)	
	9250i	v6.2(17) - v6.2(29) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2), v8.3(1) - v8.3(2), v8.4(1) - v8.4(2a)	
	9396S	v6.2(17) - v6.2(29) - v6.2(31), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2), v8.3(1) - v8.3(2), v8.4(1) - v8.4(2a)	
	9710	v6.2(17) - v6.2(29) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1), v7.3(0)DY(1), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2), v8.3(1) - v8.3(2), v8.4(1) - v8.4(2a)	
	9718	v7.3(0)D1(1) - v7.3(1)D1(1), v7.3(0)DY(1), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2), v8.3(2), v8.4(1) - v8.4(2a)	Cisco OS v8.3(1) is no longer supported on the 9718.
	9706 (32Gb), 9710 (32Gb)	v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2), v8.3(1) - v8.3(2)	
9718 (32Gb)	v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2), v8.3(2)	Cisco OS v8.3(1) is no longer supported on the 9718.	

### FCOE Switches (FCF mode)

Manufacturer	Models	Firmware Versions	Notes
Cisco	Nexus 5548p, 5548up, 5548up-2232pp, 5596up, 5596T, 5596T-2232TM-E	v7.3(0)N1(1) - v7.3(1)N1(1)	
	Nexus 5672up, 5672up-2248pq	v7.3(0)N1(1) - v7.3(1)N1(1)	
	Nexus 6001P, 6001p-2248pq, 6001T, 6004	v7.3(0)N1(1) - v7.3(1)N1(1)	
	UCS 6120XP, 6140XP, 6248up, 6296up	v3.1.2(b) - v3.1.2(e), v3.1.3(a), v4.0(2b)	
	UCS 6324	v3.1.2(b) - v3.1.2(e), v3.1.3(a)	Cisco UCS Mini only
	UCS 6454	v4.0(4g)	

### FCOE Storage Interface - VSP G1000 only

#### Converged Network Adapters (CNA)

Manufacturer	Models	Driver Versions	Notes
Emulex	OCe11102	v11.0.247.8000	
	OCe14102	v11.2.1135.0 v11.4.1186.3	
QLogic	QLE8360, QLE8362	v9.1.11.3 v9.1.13.10	

#### FCOE Switches

Manufacturer	Models	Firmware Versions	Notes
Any	Generic DCB IP Switch	Any DCB 10GigE FW	
Cisco	9706 (FCoE), 9710 (FCoE), 9718 (FCoE)	v6.2(25) - v6.2(29) - v6.2(31), v8.1(1) - v8.1(1b), v8.3(1) - v8.3(2), v8.4(1) - v8.4(2a)	Cisco OS v8.3(1) is no longer supported on the 9718.
	Nexus 5672up, 5672up-2248pq	v7.3(0)N1(1) - v7.3(1)N1(1)	

### 10 Gbps iSCSI Storage Interface

#### iSCSI Adapters

Manufacturer	Models	Driver Versions	Notes
Any	10 GbE NIC	Bundled	
Emulex	OCe14102	v11.0.273.8008	
Intel	82599ES	v2.0.2.15	
QLogic	QLE8440, QLE8442	v7.14.1.1	

#### iSCSI Switches

Manufacturer	Models	Firmware Versions	Notes
Any	Generic 10GigE Switch	Any 10GigE FW	
Cisco	Nexus 5548p, 5548up, 5548up-2232pp, 5596up, 5596T, 5596T-2232TM-E	v7.0(0)N1(1) - v7.0(8)N1(1)	

**VSP G1x00, F1500, Gxx0, Fxx0 support for Microsoft Windows Server 2012 R2**

**NOTE: Support ended on 10/9/18. Extended support ends 10/10/23.**

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	v2.3.0.20 v2.4.0.8 v2.4.0.9 v2.4.0.11 v2.4.0.19 v2.4.0.20	
	UCS 1340, 1380	v2.4.0.8 v2.4.0.9 v2.4.0.11 v2.4.0.19 v2.4.0.20	Must connect to a Cisco UCS top of rack interconnect switch.
Emulex	LPe12000, LPe12002, LPe1205, LPe1205-HI	v11.1.145.16 v11.2.139.0	
	LPe16000, LPe16002, LPe16004, LPe16000B, Pe16002B	v11.1.145.16 v11.2.139.0 v11.4.204.8 v12.4.243.4	
	LPm16002B-HI	v2.76.002.001	
	LPe31000, LPe31002, LPe31004, LPe32000, LPe32002, LPe32004	v11.2.139.0 v11.2.156.18 v11.4.204.8	
	Oce14102	v11.2.1135.0	
	OCm14102	v11.2.1135.0	
HPE	451871-B21	v9.1.11.28	
	QMH2562		
	456972-B21	v11.1.145.16	
	LPe1205		
	534M, 534FLB	v7.14.15.0	
	536FLB	v7.14.15.0	
	554M, 554FLB	v11.1.145.16	
	630M, 630FLB	v7.14.15.0	
	650FLB, 650M	v11.1.145.16	
	651281-B21	v9.1.11.28	
	QMH2572		
	659818-B21	v11.1.145.16	
	LPe1205A		
	710608-B21	v9.1.12.22	
	QMH2672		
	718203-B21	v12.4.243.4	
	LPe1605		
	81E, 82E, AJ762A, AJ762B, AJ763A, AJ763B, AH402A, AH403A	v11.2.139.0	
	81Q, 82Q, AK344A, AJ764A	v9.2.3.20 v9.3.3.20	
	NC553i, NC553m, CN1100E	v11.1.145.16	
SN1000Q	v9.3.3.20		
SN1100Q	v9.2.9.22 v9.3.3.20		
SN1600Q	v9.3.3.20		
IBM	42D0485, 42D0494	v11.1.145.16	
	42D0501, 42D0510	v9.1.11.24 v9.1.12.21 v9.1.12.22	
	69Y1942	v9.1.11.28 v9.1.11.3	

Qlogic	QLE2560, QLE2562	v9.2.3.20	
	QLE2660, QLE2662, QLE2670, QLE2672, QME2662	v9.2.3.20	
	QLE2690, QLE2692, QLE2740, QLE2742, QLE2764	v9.2.3.20	
	QLE8142	v9.1.11.12	
	QLE8260, QLE8262	v9.1.12.10	
	QLE8360, QLE8362	v9.2.3.20	
	QME2572	v9.1.11.24	

### FC Switches

Manufacturer	Models	Firmware Versions	Notes
Brocade	300, 7800	v7.4.2d - v7.4.2g	
	6505, 6510, 6520, 7840, DCX 8510	v7.4.2d - v7.4.2g, v8.1.2a - v8.1.2b, v8.1.2d, v8.1.2f - v8.1.2k, v8.2.0a - v8.2.0b, v8.2.1a - v8.2.1e, v8.2.2 - v8.2.2d	Brocade FOS v8.1.2c, v8.1.2e, and v8.2.0 are not supported.
	G610	v8.1.2a - v8.1.2b, v8.1.2d, v8.1.2f - v8.1.2k, v8.2.0a - v8.2.0b	Brocade FOS v8.1.2c, v8.1.2e, and v8.2.0 are not supported.
	G620, X6	v8.1.2a - v8.1.2b, v8.1.2d, v8.1.2f - v8.1.2k, v8.2.0a - v8.2.0b	Brocade FOS v8.1.2c, v8.1.2e, and v8.2.0 are not supported.
Cisco	9506 (8Gb), 9513 (8Gb)	v6.2(17) - v6.2(29) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1)	
	9132T	v8.2(1) - v8.2(2), v8.3(1) - v8.3(2)	
	9148S, 9706	v6.2(29) - v6.2(31), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2), v8.3(1) - v8.3(2)	
	9250i	v6.2(29) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2), v8.3(1) - v8.3(2)	
	9396S	v6.2(29) - v6.2(31), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2), v8.3(1) - v8.3(2)	
	9710	v6.2(29) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1), v7.3(0)DY(1), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2), v8.3(1) - v8.3(2)	
	9718	v6.2(29) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1), v7.3(0)DY(1), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2), v8.3(1) - v8.3(2)	Cisco OS v8.3(1) is no longer supported on the 9718.
9706 (32Gb), 9710 (32Gb)	v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2)		

### FCOE Switches (FCF mode)

Manufacturer	Models	Firmware Versions	Notes
Cisco	9710 (FCoE), 9718 (FCoE)	v7.3(0)D1(1) - v7.3(1)D1(1), v8.1(1)	
	Nexus 5548p, 5548up, 5548up-2232pp, 5596T-2232TM-E, 5596up	v6.0(2)N1(2), v6.0(2)N1(2a), v6.0(2)N2(1) - v6.0(2)N2(6), v7.0(0)N1(1) - v7.0(8)N1(1), v7.1(0)N1(1a) - v7.1(4)N1(1), v7.2(0)N1(1) - v7.2(1)N1(1), v7.3(0)N1(1) - v7.3(1)N1(1), v7.1(4)N1(1)	
	Nexus 5672up, 5672up-2248pp	v7.0(0)N1(1) - v7.0(8)N1(1), v7.1(0)N1(1a) - v7.1(4)N1(1), v7.2(0)N1(1) - v7.2(1)N1(1), 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(5b) - v2.2(5d), v2.2(6c) - v2.2(8f), v3.1(1e) - v3.1(1f), v3.1.2(b) - v3.1.2(e), v3.1.3(a) - v3.1.3(d)	
	UCS 6324	v3.0(2c) - v3.0(2d), v3.1(1e) - v3.1(1f), v3.1.2(b) - v3.1.2(e), v3.1.3(a) - v3.1.3(d)	Cisco UCS Mini only



## FCOE Storage Interface - VSP G1000 only

Converged Network Adapters (CNA)			
Manufacturer	Models	Driver Versions	Notes
Brocade	1860	v3.2.3.1 v3.2.4.0	
Cisco	UCS 1225, 1225T, 1227, 1240, 1280, 1285	v2.3.0.20 v2.4.0.8 v2.4.0.9 v2.4.0.13	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS 1340, 1380	v2.4.0.8 v2.4.0.9 v2.4.0.11 v2.4.0.13	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS M81KR	v2.4.0.9 v2.4.0.11	Must connect to a Cisco UCS top of rack interconnect switch.
Emulex	Oce10102	v2.76.002.001 v10.4.246.0	
	Oce11102	v10.0.720.0 v10.2.370.8 v10.6.114.0	
	Oce14102	v11.1.145.16	
Qlogic	QLE8260, QLE8262	v9.1.12.10	
	QLE8360, QLE8362	v9.1.11.3 v9.1.11.16 v9.1.12.10 v9.1.13.10	

## FCOE Switches

Manufacturer	Models	Firmware Versions	Notes
Any	Generic DCB IP Switch	Any DCB 10GigE FW	
Cisco	9132T	v8.2(1) - v8.2(2)	
	9250i (FCoE)	v6.2(17) - v6.2(29) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1), v8.1(1) - v8.1(1a), v8.2(1) - v8.2(2)	
	9513 (FCoE)	v6.2(17) - v6.2(29) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1)	
	9706 (FCoE)	v6.2(17) - v6.2(29) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1), v8.1(1) - v8.1(1a), v8.2(1) - v8.2(2)	
	9710 (FCoE)	v6.2(17) - v6.2(29) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1), v8.1(1) - v8.1(1a), v8.2(1) - v8.2(2)	
	9718 (FCoE)	v7.3(0)D1(1) - v7.3(1)D1(1), v7.3(0)DY(1), v8.1(1) - v8.1(1a), v8.2(1) - v8.2(2)	
	Nexus 5010-2232pp, 5020, 5548p, 5548up, 5548up-2232pp, 5596up, 5596T, 5596T-2232TM-E	v6.0(2)N2(1) - v6.0(2)N2(6), v7.0(0)N1(1) - v7.0(7)N1(1), v7.1(0)N1(1a) - v7.2(1)N1(1)	
	Nexus 5672up, 5672up-2248pq	v7.1(0)N1(1a) - v7.2(1)N1(1), v7.3(0)N1(1) - v7.3(1)N1(1)	
	Nexus 7710 (FCoE)	v7.3(0)D1(1) - v7.3(1)D1(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(5b) - v2.2(5d), v2.2(6c) - v2.2(6g), v2.2(7b), v2.2(8a), v3.1(1e)	
Nexus 6001P, 6001p-2248pq, 6001T, 6004	v6.0(2)N1(2), v6.0(2)N1(2a), v7.0(0)N1(1) - v7.0(7)N1(1)		

## 10 Gbps iSCSI Storage Interface

iSCSI Adapters			
Manufacturer	Models	Driver Versions	Notes
Any	10 GbE NIC	Bundled	
Emulex	OCe10102	v10.4.245.0 v10.4.255.23	
	OCe11102	v10.2.478.1	
	OCe14102	v10.4.255.23	
HPE	530SFP+	v7.10.30.0 v7.10.39.0	
		534FLB	v7.13.104.0
	534FLR-SFP+	v7.13.104.0	
	554FLR-SFP	v10.2.421.0	
	CN1100R	v7.13.104.0	
	CN1200E	v11.1.145.30	
Intel	82599ES	v2.0.2.15	
QLogic	QLE8360, QLE8362	v2.1.6.10	
	QLE8440, QLE8442	v7.12.0.0 v7.12.3.0	
iSCSI Switches			
Manufacturer	Models	Firmware Versions	Notes
Any	Generic 10GigE Switch	Any 10GigE FW	
Cisco	Nexus 5010-2232pp, 5020, 5548p, 5548up, 5548up-2232pp, 5596up, 5596T, 5596T-2232TM-E	v7.0(0)N1(1) - v7.0(8)N1(1)	
	Nexus 6001P, 6001p-2248pq, 6001T, 6004	v7.0(0)N1(1) - v7.0(8)N1(1)	

**VSP G1x00, F1500, Gxx0, Fxx0, HUS VM support for Microsoft Windows Server 2012**

**NOTE: Support ended on 10/9/18. Extended support ends 10/10/23.**

<b>FC Storage Interface</b>				
<b>Host Bus Adapters (FC-HBA)/Converged Network Adapters (CNA)</b>				
<b>Manufacturer</b>	<b>Models</b>	<b>Driver Versions</b>	<b>Notes</b>	
Cisco	UCS 1225, 1225T, 1227, 1240, 1280, 1285	v2.2.0.9 v2.2.0.17 v2.3.0.12 v2.4.0.8 v2.4.0.9		
Emulex	LPe12000, LPe12002, LPe1205, LPe1205-HI	v11.1.145.16		
	LPe16000, LPe16002, LPe16004, LPe16000B, Pe16002B	v11.1.145.16		
	Oce14102	v10.4.246.0		
HPE	451871-B21 QMH2562	v9.1.12.22		
	456972-B21 LPe1205	v11.1.145.16		
	554M, 554FLB	v11.1.145.16		
	650FLB, 650M	v11.1.145.16		
	651281-B21 QMH2572	v9.1.15.21		
	659818-B21 LPe1205A	v11.1.145.16		
	710608-B21 QMH2672	v9.1.11.28 v9.1.12.22 v9.1.15.21		
	81E, 82E, AJ762A, AJ762B, AJ763A, AJ763B, AH402A, AH403A	v11.1.145.16		
	81Q, 82Q, AK344A, AJ764A	v9.1.12.22		
	NC553i, NC553m, CN1100E	v11.1.145.16		
	SN1000Q	v9.1.12.22		
	IBM	42D0485, 42D0494	v10.2.261.4	
		42D0501, 42D0510	v9.1.12.22	
46M6140		v2.74.014.001		
EL43, EL5B		v10.4.246.0		
Qlogic	QLE2560, QLE2562	v9.1.12.22		
	QLE2660, QLE2662, QLE2670, QLE2672, QME2662	v9.1.11.24		
	QLE8142	v9.1.11.24		
	QLE8360, QLE8362	v9.1.10.18		
	QME2572	v9.1.11.24		

FC Switches			
Manufacturer	Models	Firmware Versions	Notes
Brocade	300, 7800	v7.4.2d - v7.4.2g	
	6505, 6510, 6520, 7840, DCX 8510	v8.1.2a - v8.1.2b, v8.1.2d, v8.1.2f - v8.1.2k, v8.2.0a - v8.2.0b	Brocade FOS v8.1.2c, v8.1.2e, and v8.2.0 are not supported.
	G610	v8.1.2a - v8.1.2b, v8.1.2d, v8.1.2f - v8.1.2k, v8.2.0a - v8.2.0b	Brocade FOS v8.1.2c, v8.1.2e, and v8.2.0 are not supported.
	G620, X6	v8.1.2a - v8.1.2b, v8.1.2d, v8.1.2f - v8.1.2k, v8.2.0a - v8.2.0b	Brocade FOS v8.1.2c, v8.1.2e, and v8.2.0 are not supported.
Cisco	9506 (8Gb), 9513 (8Gb)	v6.2(29) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1)	
	9148S, 9706	v6.2(29) - v6.2(31), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2)	
	9250i	v6.2(29) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2)	
	9396S	v6.2(29) - v6.2(31), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2)	
	9710	v6.2(29) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1), v7.3(0)DY(1), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2)	
	9718	v7.3(0)D1(1) - v7.3(1)D1(1), v7.3(0)DY(1), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2)	Cisco OS v8.3(1) is no longer supported on the 9718.
	9706 (32Gb), 9710 (32Gb)	v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2)	
FCOE Switches (FCF mode)			
Manufacturer	Models	Firmware Versions	Notes
Cisco	Nexus 5548p, 5548up, 5548up-2232pp, 5596T-2232TM-E, 5596up	v6.0(2)N1(2), v6.0(2)N1(2a), v6.0(2)N2(1) - v6.0(2)N2(6), v7.0(0)N1(1) - v7.0(7)N1(1), v7.1(0)N1(1a) - v7.2(1)N1(1)	
	Nexus 5672up, 5672up-2248pq	v7.0(0)N1(1) - v7.0(7)N1(1), v7.1(0)N1(1a) - v7.2(1)N1(1)	
	UCS 6120XP, 6140XP, 6248up, 6296up	v2.0(4a) - v2.0(4d), v2.0(5a) - v2.0(5f), v2.1(1a) - v2.1(1c), v2.1(2a) - v2.1(2d), v2.1(3a) - v2.1(3g), v2.2(1b) - v2.2(1d), v2.2(3a) - v2.2(4c)	
	UCS 6324	v3.0(2c) - v3.0(2d)	Cisco UCS Mini only

FCOE Storage Interface - VSP G1000 only			
Converged Network Adapters (CNA)			
Manufacturer	Models	Driver Versions	Notes
Cisco	UCS 1225, 1225T, 1227, 1240, 1280, 1285	v2.2.0.17 v2.3.0.12	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS M81KR	v2.2.0.17 v2.3.0.12 v2.4.0.8	Must connect to a Cisco UCS top of rack interconnect switch.
Emulex	LPe16000, LPe16002, LPe16002B	v2.72.012.001	
	OCe11102	v10.0.720.0	
	OCm11104-F2	v2.72.012.001	
HPE	NC553i, NC553m, CN1100E	v2.76.003.001	
QLogic	QLE2670, QLE2672	v9.1.10.26	
	QLE8142	v9.1.10.15 v9.1.11.24	
	QLE8360, QLE8362	v9.1.10.18	

<b>FCOE Switches</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(17) - v6.2(29), v7.3(0)D1(1) - v7.3(1)D1(1)	
	9513 (FCoE)	v6.2(17) - v6.2(29), v7.3(0)D1(1) - v7.3(1)D1(1)	
	9706 (FCoE)	v6.2(17) - v6.2(29), v7.3(0)D1(1) - v7.3(1)D1(1)	
	9710 (FCoE)	v6.2(17) - v6.2(29), v7.3(0)D1(1) - v7.3(1)D1(1)	
	Nexus 5010-2232pp, 5020, 5548p, 5548up, 5548up-2232pp, 5596T-2232TME, 5596up	v7.0(0)N1(1) - v7.0(8)N1(1), v7.1(0)N1(1a) - v7.2(1)N1(1)	
UCS 6120XP, 6140XP, 6248up, 6296up	2.0(5a) - v2.0(5f), 2.1(1a) - v2.1(1f), v2.1(2a) - v2.1(2d), v2.1(3a) - v2.1(3g), v2.2(3a) - v2.2(4c)		

<b>10 Gbps iSCSI Storage Interface</b>			
<b>iSCSI Adapters</b>			
<b>Manufacturer</b>	<b>Models</b>	<b>Driver Versions</b>	<b>Notes</b>
Any	10 GbE NIC	Bundled	
<b>iSCSI Switches</b>			
<b>Manufacturer</b>	<b>Models</b>	<b>Firmware Versions</b>	<b>Notes</b>
Any	Generic 10GigE Switch	Any 10GigE FW	