



## **Citrix XenServer Support Matrix**

### **Hitachi VSP G1x00, F1500, Gxx0, Fxx0, VSP, 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, both Fibre channel (FC) and Fibre channel over Ethernet (FCoE).

**Note:** The arrays supported now include the VSP F700, F900, G700, G900, F350, F370, G350, and G370.

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

- The 32Gb interface is only available on the GX00 and FX00 arrays. It is supported with both 16 & 32Gb SFPs and operates at a maximum of 32Gbps.
- The VSP and HUS VM do not have 16Gb FC interfaces.
- 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)

Note: The Hitachi FIVE FC HBA also has an alternate option of Fabric Emulation. When it is configured in this mode it should be treated as switch attached and the storage port should be set to Fabric = On and Connection Type = P-to-P

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 G1x00, F1500, Gxx0, Fxx0, VSP, HUS VM support for XENServer 7.1 (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	v1.6.0.34	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS 1340, 1380	v1.6.0.34	Must connect to a Cisco UCS or UCS Mini top of rack interconnect switch.
Emulex	LPe12000, LPe12002, LPe1205	v11.1.210.1	
	LPe16000, LPe16002	v11.1.210.1	
	OCe11102	v11.1.210.1	
QLogic	QLE2560, QLE2562, QLE2564	v8.07.00.41.77.1-k	
	QLE2660, QLE2662, QLE2670, QLE2672	v8.07.00.41.77.1-k	
	QLE8362	v8.07.00.41.77.1-k	
FC Switches			
Manufacturer	Models	Firmware Versions	Notes
Brocade	300, 5300, 7800, DCX, DCX-4s	v7.4.0 - v7.4.2a, v7.4.2c - v7.4.2d	Brocade FOS v7.4.2b is not supported.
	6505, 6510, 6520, 7840, DCX 8510	v8.1.0a - v8.1.2b, v8.1.2d, v8.1.2f	Brocade FOS v8.1.0, v8.1.2c, and v8.1.2e are not supported.
	G620, X6	v8.1.0a - v8.1.2b, v8.1.2d, v8.1.2f	Brocade FOS v8.1.0, v8.1.2c, and v8.1.2e are not supported.
Cisco	9148, 9222i, 9506 (4Gb), 9506 (8Gb), 9509 (4Gb), 9509 (8Gb), 9513, 9513 (8Gb)	v6.2(1) - v6.2(13b), v6.2(23)	Cisco OS v6.2(15) is no longer supported.
	9148S, 9706	v6.2(9a) - v6.2(13b), v6.2(25)	Cisco OS v6.2(15) is no longer supported.
	9250i	v6.2(5) - v6.2(13b), v6.2(25)	Cisco OS v6.2(15) is no longer supported.
	9396S	v6.2(13) - v6.2(13b), v6.2(25)	Cisco OS v6.2(15) is no longer supported.
	9710	v6.2(1) - v6.2(13b), v6.2(25)	Cisco OS v6.2(15) is no longer supported.
FCOE Switches (FCF mode)			
Manufacturer	Models	Firmware Versions	Notes
Brocade	VDX 6740	v6.0.1a	
Cisco	Nexus 5672up, 5672up-2248pq	v7.3(0)N1(1)	
	UCS 6120XP, 6140XP, 6248up, 6296up	v3.1.3(a)	
	UCS 6324	v3.1.3(a)	Cisco UCS Mini only
FCOE Storage Interface			
Converged Network Adapters (CNA)			
Manufacturer	Models	Driver Versions	Notes
Emulex	OCe11102	v11.1.210.1	VSP G1000 & VSP only
QLogic	QLE8362	v8.07.00.41.77.1-k	VSP G1000 & VSP only
FCOE Switches			
Manufacturer	Models	Firmware Versions	Notes
Any	Generic DCB IP Switch	Any DCB 10GigE FW	VSP G1000 & VSP only
Brocade	VDX 6740	v6.0.1a	VSP G1000 & VSP only
Cisco	Nexus 5672up, 5672up-2248pq	v7.3(0)N1(1)	VSP G1000 & VSP only

## 10 Gbps iSCSI Storage Interface

### ISCSI Adapters

Manufacturer	Models	Driver Versions	Notes
Any	10 GbE NIC	Bundled	VSP G1x00, F1500, Gxx0, Fxx0 only
Emulex	OCE11102	v11.1.196.0	
QLogic	QLE8362	v5.04.00-k6	

### ISCSI Switches

Manufacturer	Models	Firmware Versions	Notes
Any	Generic 10GigE Switch	Any 10GigE FW	VSP G1x00, F1500, Gxx0, Fxx0 only
Brocade	VDX 6740	v6.0.1a	
Cisco	Nexus 6001p-2248pq, 6001T, 6004	v7.3(0)N1(1) - v7.3(1)N1(1)	

## VSP G1x00, F1500, Gxx0, Fxx0, VSP, HUS VM support for XENServer7.0 (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	v1.6.0.25	Must connect to a Cisco UCS top of rack interconnect switch.
Emulex	LPe12000, LPe12002, LPe1205	v11.0.0.12	
	LPe16000, LPe16002	v11.0.0.12	
	OCe11102	v11.0.0.12	
Qlogic	QLE2560, QLE2562, QLE2564	v8.07.00.33.77.0-k	
	QLE2660, QLE2662, QLE2670, QLE2672	v8.07.00.33.77.0-k	
FC Switches			
Manufacturer	Models	Firmware Versions	Notes
Brocade	300, 5300, 7800, DCX, DCX-4s	v7.4.0 - v7.4.2a, v7.4.2c - v7.4.2d	Brocade FOS v7.4.2b is not supported.
	6505, 6510, 6520, 7840, DCX 8510	v7.4.0 - v7.4.2a, v7.4.2c - v7.4.2d	Brocade FOS v7.4.2b 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(23)	Cisco OS v6.2(15) is no longer supported.
	9148S, 9706	v6.2(9a) - v6.2(13b), v6.2(25)	Cisco OS v6.2(15) is no longer supported.
	9250i	v6.2(5) - v6.2(13b), v6.2(25)	Cisco OS v6.2(15) is no longer supported.
	9396S	v6.2(13) - v6.2(13b), v6.2(25)	Cisco OS v6.2(15) is no longer supported.
	9710	v6.2(1) - v6.2(13b), v6.2(25)	Cisco OS v6.2(15) is no longer supported.
FCOE Switches (FCF mode)			
Manufacturer	Models	Firmware Versions	Notes
Cisco	Nexus 5672up, 5672up-2248pq	v7.3(0)N1(1)	
	UCS 6120XP, 6140XP, 6248up, 6296up	v3.1(1e) - v3.1(1l)	
FCOE Storage Interface			
Converged Network Adapters (CNA)			
Manufacturer	Models	Driver Versions	Notes
Emulex	OCe11102	v11.0.0.12	
FCOE Switches			
Manufacturer	Models	Firmware Versions	Notes
Any	Generic DCB IP Switch	Any DCB 10GigE FW	VSP G1000 & VSP only
Brocade	VDX 6730	v4.1.3	VSP G1000 & VSP only
Cisco	Nexus 5672up, 5672up-2248pq	v7.3(0)N1(1)	VSP G1000 & VSP only
10 Gbps iSCSI Storage Interface			
iSCSI Adapters			
Manufacturer	Models	Driver Versions	Notes
Any	10 GbE NIC	Bundled	VSP G1x00, F1500, Gxx0, Fxx0 only
iSCSI Switches			
Manufacturer	Models	Firmware Versions	Notes
Any	Generic 10GigE Switch	Any 10GigE FW	VSP G1x00, F1500, Gxx0, Fxx0 only

## VSP G1x00, F1500, Gxx0, Fxx0, VSP, HUS VM support for XENServer 6.5 & 6.5 SP1 (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	v1.6.0.18 v1.6.0.25 v1.6.0.34	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS 1340, 1380	v1.6.0.12b v1.6.0.17 v1.6.0.18 v1.6.0.25 v1.6.0.34	Must connect to a Cisco UCS or UCS Mini top of rack interconnect switch.
Emulex	LPe12000, LPe12002, LPe1205	Bundled v10.2.340.0	
	LPe1205A-HI	v10.2.340.0	
	LPe16000, LPe16002	Bundled	
Qlogic	QLE2560, QLE2562, QLE2564	v8.07.00.09.66.5-k	
	QLE2660, QLE2662, QLE2670, QLE2672	v8.07.00.09.66.5-k	
	QLE8240, QLE8242	v8.07.00.09.66.5-k	
FC Switches			
Manufacturer	Models	Firmware Versions	Notes
Brocade	300, 5300, 7800, DCX, DCX-4s	v7.4.0 - v7.4.2a, v7.4.2c - v7.4.2d	Brocade FOS v7.4.2b is not supported.
	6505, 6510, 6520, 7840, DCX 8510	v7.4.0 - v7.4.2a, v7.4.2c - v7.4.2d	Brocade FOS v7.4.2b 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(23)	Cisco OS v6.2(15) is no longer supported.
	9148S, 9706	v6.2(9a) - v6.2(13b), v6.2(25)	Cisco OS v6.2(15) is no longer supported.
	9250i	v6.2(5) - v6.2(13b), v6.2(25), v7.3(0)D1(1)	Cisco OS v6.2(15) is no longer supported.
	9396S	v6.2(13) - v6.2(13b), v6.2(25)	Cisco OS v6.2(15) is no longer supported.
	9710	v6.2(1) - v6.2(13b), v6.2(25), v7.3(0)D1(1)	Cisco OS v6.2(15) is no longer supported.
FCOE Switches (FCF mode)			
Manufacturer	Models	Firmware Versions	Notes
Cisco	Nexus 5010-2232pp, 5020, 5548p, 5548up, 5548up-2232pp, 5596T-2232TM-E, 5596up	v7.1(0)N1(1a) - v7.1(1)N1(1)	
	UCS 6120XP, 6140XP, 6248up, 6296up	v2.2(3a) - v2.2(3f), v2.2(5b) - v2.2(6c), v2.2(7b), v2.2(8a), v3.1(1e) - v3.1(1f), v3.1.2(b) - v3.1.3(a)	
	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)	Cisco UCS Mini only
10 Gbps iSCSI Storage Interface			
iSCSI Adapters			
Manufacturer	Models	Driver Versions	Notes
Emulex	OCe11102	Bundled	VSP G1x00, F1500, Gxx0, Fxx0 only
iSCSI Switches			
Manufacturer	Models	Firmware Versions	Notes
Any	Generic 10GigE Switch	Any 10GigE FW	
Cisco	Nexus 6001P, 6001p-2248pq, 6001T, 6004	v7.0(0)N1(1) - v7.0(6)N1(1)	VSP G1x00, F1500, Gxx0, Fxx0 only

## VSP G1x00, F1500, Gxx0, Fxx0, VSP, HUS VM support for XENServer 6.2 (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	v1.5.0.45 v1.5.0.49 v1.6.0.6 v1.6.0.10 v1.6.0.12 v1.6.0.12b	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS 1340, 1380	v1.6.0.12 v1.6.0.12b	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS M81KR	v1.5.0.45 v1.5.0.49 v1.6.0.6 v1.6.0.10 v1.6.0.12 v1.6.0.12b v1.6.0.18 v1.6.0.25	Must connect to a Cisco UCS top of rack interconnect switch.
Emulex	LPe12000, LPe12002, LPe1205	v8.3.7.14 v8.3.5.77.1p	
	LPe1205A-HI, LPe1205-HI	v8.3.7.14 v8.3.5.77.1p	
HP	AJ763A, AJ763B, 82E AJ762A, AJ762B, 81E	v8.3.5.77.1p	
	AK344A, AJ764A, 81Q, 82Q	v8.05.00.03.55.6-k	
IBM	42D0485, 42D0494	v8.3.5.77.1p	
	42D0501, 42D0510	v8.05.00.03.55.6-k	
Qlogic	QLE2560, QLE2562	v8.05.00.03.55.6-k	
	QLE2660, QLE2662, QLE2670, QLE2672	v8.05.00.03.55.6-k	
FC Switches			
Manufacturer	Models	Firmware Versions	Notes
Brocade	300, 5300, 7800, DCX, DCX-4s	v7.4.0 - v7.4.2a, v7.4.2c - v7.4.2d	Brocade FOS v7.4.2b is not supported.
	6505, 6510, 6520, 7840, DCX 8510	v7.4.0 - v7.4.2a, v7.4.2c - v7.4.2d	Brocade FOS v7.4.2b 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(23)	Cisco OS v6.2(15) is no longer supported.
	9148S, 9706	v6.2(9a) - v6.2(13b), v6.2(25)	Cisco OS v6.2(15) is no longer supported.
	9250i	v6.2(5) - v6.2(13b), v6.2(25), v7.3(0)D1(1)	Cisco OS v6.2(15) is no longer supported.
	9396S	v6.2(13) - v6.2(13b), v6.2(25)	Cisco OS v6.2(15) is no longer supported.
	9710	v6.2(1) - v6.2(13b), v6.2(25), v7.3(0)D1(1)	Cisco OS v6.2(15) is no longer supported.
FCOE Switches (FCF mode)			
Manufacturer	Models	Firmware Versions	Notes
Cisco	UCS 6120XP, 6140XP, 6248up, 6296up	v2.1(3a) - v2.1(3g), v2.2(1b) - v2.2(1d), v2.2(3a) - v2.2(3f), v2.2(5b) - v2.2(6c), v2.2(7b), v2.2(8a)	
	UCS 6324	v3.0(2c) - v3.0(2d)	Cisco UCS Mini only

<b>FCOE Storage Interface</b>			
<b>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	v1.5.0.45 v1.5.0.49 v1.6.0.6 v1.6.0.10 v1.6.0.12 v1.6.0.12b	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS 1340, 1380	v1.6.0.12b	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS M81KR	v1.5.0.45 v1.5.0.49 v1.6.0.6 v1.6.0.10 v1.6.0.12 v1.6.0.12b v1.6.0.18 v1.6.0.25	Must connect to a Cisco UCS top of rack interconnect switch.
<b>FCOE Switches</b>			
<b>Manufacturer</b>	<b>Models</b>	<b>Firmware Versions</b>	<b>Notes</b>
Cisco	UCS 6120XP, 6140XP, 6248up, 6296up	v2.1(3a) - v2.1(3g), v2.2(1b) - v2.2(1d), v2.2(3a) - v2.2(3f), v2.2(5b), v2.2(7b), v2.2(8a)	

## VSP G1x00, F1500, Gxx0, Fxx0, VSP, HUS VM support for XENServer 6.1 (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	v1.4.0.145 v1.5.0.20	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS M81KR	v1.4.0.145 v1.5.0.20	
Emulex	LPe12000, LPe12002, LPe1205, LPe1205A-HI, LPe1205-HI	v8.3.5.77.1p	
HPE	651281-B21 QMH2572	v8.04.00.02.55.6-k	
	AJ763A, AJ763B, 82E AJ762A, AJ762B, 81E	v8.3.5.77.1p	
	AK344A, AJ764A, 81Q, 82Q	v8.04.00.02.55.6-k	
IBM	42D0485, 42D0494	v8.3.5.77.1p	
	42D0501, 42D0510	v8.04.00.02.55.6-k	
Qlogic	QLE2560, QLE2562	v8.04.00.02.55.6-k	
	QLE2660, QLE2662, QLE2670, QLE2672	v8.04.00.02.55.6-k	
FC Switches			
Manufacturer	Models	Firmware Versions	Notes
Brocade	300, 5300, 7800, DCX, DCX-4s	v7.4.0 - v7.4.2a, v7.4.2c - v7.4.2d	Brocade FOS v7.4.2b is not supported.
	6505, 6510, 6520, 7840, DCX 8510	v7.4.0 - v7.4.2a, v7.4.2c - v7.4.2d	Brocade FOS v7.4.2b 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(23)	Cisco OS v6.2(15) is no longer supported.
	9148S, 9706	v6.2(9a) - v6.2(13b), v6.2(25)	Cisco OS v6.2(15) is no longer supported.
	9250i	v6.2(5) - v6.2(13b), v6.2(25), v7.3(0)D1(1)	Cisco OS v6.2(15) is no longer supported.
	9396S	v6.2(13) - v6.2(13b), v6.2(25)	Cisco OS v6.2(15) is no longer supported.
	9710	v6.2(1) - v6.2(13b), v6.2(25), v7.3(0)D1(1)	Cisco OS v6.2(15) is no longer supported.
FCOE Switches (FCF mode)			
Manufacturer	Models	Firmware Versions	Notes
Cisco	UCS 6120XP, 6140XP, 6248up, 6296up	v2.0(5a), v2.1(2a)	



<b>FCOE Storage Interface</b>			
<b>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	v1.4.0.145 v1.5.0.20	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS M81KR	v1.4.0.145 v1.5.0.20	Must connect to a Cisco UCS top of rack interconnect switch.
<b>FCOE Switches</b>			
<b>Manufacturer</b>	<b>Models</b>	<b>Firmware Versions</b>	<b>Notes</b>
Cisco	UCS 6120XP, 6140XP, 6248up, 6296up	2.0(5a) - v2.0(5f), v2.1(2a)	

## VSP G1x00, F1500, Gxx0, Fxx0, VSP, HUS VM support for XENServer 6.0 (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	v1.4.0.145	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS M81KR	v1.4.0.145	Must connect to a Cisco UCS top of rack interconnect switch.
Emulex	LPe12000, LPe12002, LPe1205, LPe1205A-HI, LPe1205-HI	v8.3.5.39 v8.3.5.39.1p	
Fujitsu	MC-FC82E	v8.3.5.39	
HPE	AJ763A, AJ763B, 82E AJ762A, AJ762B, 81E	v8.3.5.39.1p	
IBM	42C2069, 42C2071	v8.3.5.39.1p	
	42D0485, 42D0494	v8.3.5.39.1p	
FC Switches			
Manufacturer	Models	Firmware Versions	Notes
Brocade	300, 5300, 7800, DCX, DCX-4s	v7.4.0 - v7.4.2a, v7.4.2c - v7.4.2d	Brocade FOS v7.4.2b is not supported.
	6505, 6510, 6520, 7840, DCX 8510	v7.4.0 - v7.4.2a, v7.4.2c - v7.4.2d	Brocade FOS v7.4.2b 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(23)	Cisco OS v6.2(15) is no longer supported.
	9148S, 9706	v6.2(9a) - v6.2(13b), v6.2(25)	Cisco OS v6.2(15) is no longer supported.
	9250i	v6.2(5) - v6.2(13b), v6.2(25), v7.3(0)D1(1)	Cisco OS v6.2(15) is no longer supported.
	9396S	v6.2(13) - v6.2(13b), v6.2(25)	Cisco OS v6.2(15) is no longer supported.
	9710	v6.2(1) - v6.2(13b), v6.2(25), v7.3(0)D1(1)	Cisco OS v6.2(15) is no longer supported.
FCOE Switches (FCF mode)			
Manufacturer	Models	Firmware Versions	Notes
Cisco	UCS 6120XP, 6140XP, 6248up, 6296up	v2.0(1t), v2.0(1w), v2.0(2m), v2.0(2q), v2.0(3a), v2.0(4a), v2.1(1a), v2.2(3a) - v2.2(3f)	

## FCOE Storage Interface

### Converged Network Adapters (CNA)

Manufacturer	Models	Driver Versions	Notes
Cisco	UCS 1225, 1225T, 1227, 1240, 1280, 1285	v1.4.0.145	Must connect to a Cisco UCS top of rack interconnect switch.
	UCS M81KR	v1.4.0.145	Must connect to a Cisco UCS top of rack interconnect switch.

### FCOE Switches

Manufacturer	Models	Firmware Versions	Notes
Cisco	UCS 6120XP, 6140XP, 6248up, 6296up	2.1(1a) - v2.1(1f), v2.2(3a) - v2.2(3f)	