



## VMWare 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 support for VMWare ESXi 6.7 (X64)

| FC Storage Interface  |  |  |   |
|---|--|--|---|
| Host Bus Adapters (FC-HBA)/Converged Network Adapters (CNA) |  |  |   |
| Manufacturer  | Models   | Driver Versions  | Notes   |
| Emulex  | LPe16000, LPe16002, LPe16002B                    | Bundled  |   |
|   | LPe31000, LPe31002, LPe31004, LPe32000, LPe32002 | Bundled  |   |
|   | Oce14102   | Bundled  |   |
|   |  |  |   |
| HPE   | 3530c  | Bundled  |   |
|   | 3830C  | Bundled  |   |
|   | QMH2682  |  |   |
|   | 451871-B21                                       | Bundled  |   |
|   | QMH2562  |  |   |
|   | 534M, 534FLB                                     | v1.0.45.0  |   |
|   | 536FLB   | v1.0.45.0  |   |
|   | 651281-B21                                       | Bundled  |   |
|   | QMH2572  |  |   |
|   | AJ763A, AJ763B, 82E, AJ762A, AJ762B, 81E, 82E    | Bundled  |   |
|   | AK344A, AJ764A, 81Q, 82Q                         | Bundled  |   |
|   | SN1100E  | Bundled  |   |
|   | SN1200E  | Bundled  |   |
|   | SN1600E  | Bundled  |   |
| SN1000Q   | Bundled  |  |   |
| SN1100Q   | Bundled  |  |   |
| SN1600Q   | Bundled  |  |   |
| QLogic  | QLE2560, QLE2562                                 | Bundled  |   |
|   | QLE2660, QLE2662, QLE2670, QLE2672               | Bundled  |   |
|   | QLE2690, QLE2692, QLE2740, QLE2742, QLE2764      | Bundled  |   |
|   | QLE8360, QLE8362                                 | v3.1.8.0   |   |
|   |  |  |   |
| FC Switches   |  |  |   |
| Manufacturer  | Models   | Firmware Versions  | Notes   |
| Brocade   | 300, 5300, 7800, DCX, DCX-4s                     | v7.4.2c - v7.4.2d  |   |
|   | 6505, 6510, 6520, 7840, DCX 8510                 | v7.4.2c - v7.4.2d, v8.0.1 - v8.0.2f, v8.1.0a - v8.1.2b, v8.1.2d, v8.1.2f, v8.2.0a - v8.2.0b, v8.2.1a | Brocade FOS v8.1.2c, v8.1.2e, v8.2.0, and v8.2.1 are not supported. |
|   | G610   | v8.2.0a - v8.2.0b, v8.2.1a   | Brocade FOS v8.2.0, and v8.2.1 are not supported.                   |
|   | G620, X6   | v8.2.0a - v8.2.0b, v8.2.1a   | Brocade FOS v8.2.0, and v8.2.1 are not supported.                   |
|   | G630   | v8.2.0a - v8.2.0b, v8.2.1a   | Brocade FOS v8.2.0, and v8.2.1 are not supported.                   |
| Cisco   | 9132T  | v8.2(1)  |   |
|   | 9148S, 9706                                      | v8.2(1)  |   |
|   | 9148T, 9396T                                     | v8.3(1)  |   |
|   | 9250i  | v8.2(1)  |   |
|   | 9396S  | v8.2(1)  |   |
|   | 9710   | v8.2(1)  |   |
|   | 9718   | v8.2(1)  |   |
|   | 9710 (32Gb), 9718 (32Gb)                         | v8.2(1)  |   |

| <b>FCOE Switches (FCF mode)</b> |                             |                          |              |
|---------------------------------|-----------------------------|--------------------------|--------------|
| <b>Manufacturer</b>             | <b>Models</b>               | <b>Firmware Versions</b> | <b>Notes</b> |
| Brocade                         | VDX 6740                    | v6.0.1a                  |              |
| Cisco                           | Nexus 5672up, 5672up-2248pq | v7.3(1)N1(1)             |              |

| <b>FCOE Storage Interface</b>           |   |                          |                |
|---|---|--------------------------|----------------|
| <b>Converged Network Adapters (CNA)</b> |   |                          |                |
| <b>Manufacturer</b>                     | <b>Models</b>                               | <b>Driver Versions</b>   | <b>Notes</b>   |
| Emulex                                  | OCe14102                                    | Bundled                  |                |
| QLogic                                  | QLE8360, QLE8362                            | v3.1.8.0                 |                |
| <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        | VSP G1000 only |
| Brocade                                 | VDX 6740                                    | v6.0.1a                  | VSP G1000 only |
| Cisco                                   | Nexus 5672up, 5672up-2248pq, 5672up-2348UPQ | v7.3(1)N1(1)             | VSP G1000 only |

| <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                  |                                   |
| Emulex                                 | Oce14102              | v12.0.1108.0             | VSP G1x00, F1500, Gxx0, Fxx0 only |
| QLogic                                 | QLE8360, QLE8362      | v634.55.26.0-1vmw        |                                   |
| <b>iSCSI Switches</b>                  |                       |                          |                                   |
| <b>Manufacturer</b>                    | <b>Models</b>         | <b>Firmware Versions</b> | <b>Notes</b>                      |
| Any                                    | Generic 10GigE Switch | Any 10GigE FW            | VSP G1x00, F1500, Gxx0, Fxx0 only |

## VSP G1x00, F1500, Gxx0, Fxx0, VSP support for VMWare ESXi 6.0, UP1, UP2, UP3, 6.5, UP1, UP2 (X64)

| <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          | v1.6.0.12b<br>v1.6.0.17a<br>v1.6.0.24<br>v1.6.0.25<br>v1.6.0.28<br>v1.6.0.33<br>v1.6.0.34<br>v1.6.0.37<br>v2.3.0.7 | Must connect to a Cisco UCS top of rack interconnect switch. |
|  | UCS 1340, 1380                                   | v1.6.0.17a<br>v1.6.0.24<br>v1.6.0.25<br>v1.6.0.28<br>v1.6.0.34<br>v1.6.0.36<br>v1.6.0.37                           | Must connect to a Cisco UCS top of rack interconnect switch. |
|  | UCS M81KR  | v1.6.0.12b<br>v1.6.0.17a<br>v1.6.0.28  | Must connect to a Cisco UCS top of rack interconnect switch. |
| Emulex   | LPe12000, LPe12002, LPe1205                      | Bundled<br>v10.5.39.0<br>v11.1.247.0   |  |
|  | LPe16000, LPe16002, LPe16002B                    | Bundled<br>v10.2.455.0<br>v11.0.237.0<br>v11.1.145.18<br>v11.1.247.0   |  |
|  | LPe31000, LPe31002, LPe31004, LPe32000, LPe32002 | Bundled<br>v11.0.124.0<br>v11.0.237.0<br>v11.1.145.18<br>v11.1.247.0   |  |
|  | OCe10102   | Bundled  |  |
|  | OCe11102   | Bundled<br>v11.0.237.0   |  |
|  | Oce14102   | Bundled  |  |
|  | OCm14102   | v11.0.237.0  |  |
| HPE  | 3530c  | v11.1.183.633<br>v11.1.196.3<br>v11.1.247.0<br>v11.1.257.0   |  |
|  | 3820C  | v1.0.45.0  |  |
|  | 3830C  | Bundled  |  |
|  | QMH2682  | v2.1.30.0<br>v2.1.41.0<br>v2.1.50.0-1<br>v2.1.57.0-1   |  |
|  | 451871-B21                                       | Bundled  |  |
|  | QMH2562  |  |  |
|  | 456972-B21                                       | Bundled  |  |
|  | LPe1205  | v10.7.110.4<br>v11.1.247.0   |  |
|  | 534M, 534FLB                                     | v1.710.70.v55.3  |  |
|  | 554M, 554FLB                                     | v10.7.110.4<br>v11.1.145.18  |  |
|  | 630FLB   | v1.710.70.v55.3  |  |
|  | 650M, 650FLB                                     | v10.7.110.4<br>v11.1.145.18  |  |
|  | 651281-B21                                       | Bundled  |  |
|  | QMH2572  | v2.1.50.0-1<br>v2.1.57.0-1   |  |

|        |  |  |  |
|--------|--|--|--|
|        | 710608-B21<br>QMH2672                            | v2.1.20.0<br>v2.1.50.0-1   |  |
|        | 718203-B21<br>LPe1605                            | v10.4.236.0<br>v10.7.110.4<br>v11.1.247.0                                      |  |
|        | AE311A, AE312A, FC1142SR                         | Bundled  |  |
|        | AK344A, AJ764A, 81Q, 82Q                         | Bundled<br>v2.1.30.0<br>v2.1.50.0-1<br>v2.1.57.0-1                             |  |
|        | AJ763A, AJ763B, 82E, AJ762A, AJ762B, 81E,<br>82E | Bundled<br>v10.5.39.0  |  |
|        | NC553i, NC553m, CN1100E                          | v10.2.455.0<br>v11.1.183.633   |  |
|        | SN1100E  | Bundled<br>v10.2.455.0<br>v11.0.237.0<br>v11.1.145.18                          |  |
|        | SN1200E  | Bundled<br>v11.0.124.0<br>v11.0.237.0<br>v11.1.145.18                          |  |
|        | SN1600E  | Bundled<br>v11.0.124.0<br>v11.0.237.0<br>v11.1.145.18                          |  |
|        | SN1000Q  | Bundled<br>v2.1.30.0<br>v2.1.41.0<br>v2.1.50.0-1<br>v2.1.57.0-1                |  |
|        | SN1100Q  | Bundled<br>v2.1.30.0<br>v2.1.41.0<br>v2.1.50.0-1<br>v2.1.57.0-1                |  |
|        | SN1600Q  | Bundled<br>v2.1.30.0<br>v2.1.41.0<br>v2.1.50.0-1<br>v2.1.57.0-1                |  |
| IBM    | 00Y3341  | v2.1.50.0-1<br>v2.1.57.0-1<br>v2.1.65.0-1                                      |  |
|        | 42D0485, 42D0494                                 | Bundled  |  |
|        | 42D0501, 42D0510                                 | Bundled<br>v2.1.30.0<br>v2.1.50.0-1<br>v2.1.57.0-1                             |  |
|        | 44X1940, 44X1942, 44X1945, 44X1947               | Bundled<br>v2.1.50.0-1   |  |
|        | 69Y1942  | Bundled<br>v2.1.50.0-1   |  |
| QLogic | QLE2560, QLE2562                                 | Bundled<br>v2.1.30.0<br>v2.1.50.0-1<br>v2.1.57.0-1<br>v2.1.65.0-1              |  |
|        | QME2572  | Bundled  |  |
|        | QLE2660, QLE2662, QLE2670, QLE2672               | Bundled<br>v2.1.30.0<br>v2.1.41.0<br>v2.1.50.0-1<br>v2.1.57.0-1<br>v2.1.65.0-1 |  |

|                                 |   |   |   |
|---------------------------------|---|---|---|
|                                 | QLE2690, QLE2692, QLE2740, QLE2742, QLE2764                                   | Bundled<br>v2.1.30.0-1<br>v2.1.41.0<br>v2.1.50.0-1<br>v2.1.53.0-1<br>v2.1.57.0-1<br>v2.1.65.0-1   |   |
|                                 | QLE8360, QLE8362  | Bundled<br>v2.1.10.1<br>v2.1.46.0<br>v2.1.65.0  |   |
| <b>FC Switches</b>              |   |   |   |
| <b>Manufacturer</b>             | <b>Models</b>   | <b>Firmware Versions</b>  | <b>Notes</b>  |
| Brocade                         | 300, 5300, 7800, DCX, DCX-4s  | v7.4.0 - 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, v8.0.1 - v8.0.2f, v8.1.0a - v8.1.2b, v8.1.2d, v8.1.2f  | Brocade FOS v7.4.2b, v8.1.0, v8.1.2c, and v8.1.2e are not supported.                |
|                                 | G610  | v8.1.0a - v8.1.2b, v8.1.2d, v8.1.2f, v8.2.0a - v8.2.0b, v8.2.1a   | Brocade FOS v8.1.0, v8.1.2c, v8.1.2e, and v8.2.0 are not supported.                 |
|                                 | G620, X6  | v8.0.1 - v8.0.2e, v8.1.0a - v8.1.2b, v8.1.2d, v8.1.2f, v8.2.0a - v8.2.0b, v8.2.1a   | Brocade FOS v8.0.0, v8.1.0, 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  | Brocade FOS v8.2.0, and v8.2.1 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(17) - v6.2(25), v7.3(0)D1(1) - v7.3(1)D1(1), v7.3(0)DY(1) - v7.3(1)DY(1)  | Cisco OS v6.2(15) is no longer supported.   |
|                                 | 9132T   | v8.2(1) - v8.2(2), v8.3(1)  |   |
|                                 | 9148S, 9706   | v6.2(9a) - v6.2(13b), v6.2(17) - v6.2(25), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2), v8.3(1)   | Cisco OS v6.2(15) is no longer supported.   |
|                                 | 9148T, 9396T  | v8.3(1)   |   |
|                                 | 9250i   | v6.2(5) - v6.2(13b), v6.2(17) - v6.2(25), 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)   | Cisco OS v6.2(15) is no longer supported.   |
|                                 | 9396S   | v6.2(13) - v6.2(13b), v6.2(17) - v6.2(25), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2), v8.3(1)   | Cisco OS v6.2(15) is no longer supported.   |
|                                 | 9710  | v6.2(1) - v6.2(13b), v6.2(17) - v6.2(25), 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)   | 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), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2), v8.3(1)   |   |
|                                 | 9706 (32Gb), 9710 (32Gb), 9718 (32Gb)   | v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2), v8.3(1)  |   |
| <b>FCOE Switches (FCF mode)</b> |   |   |   |
| <b>Manufacturer</b>             | <b>Models</b>   | <b>Firmware Versions</b>  | <b>Notes</b>  |
| Cisco                           | Nexus 5010-2232pp, 5020, 5548p, 5548up, 5548up-2232pp, 5596T-2232TM-E, 5596up | v5.2(1)N1(1) - v5.2(1)N1(8b), v7.0(0)N1(1) - v7.0(8)N1(1)   |   |
|                                 | Nexus 5672up, 5672up-2248pq   | v7.3(0)N1(1)  |   |
|                                 | Nexus 7706 (FCoE), 7710 (FCoE)  | v8.1(1) - v8.1(1a)  |   |
|                                 | UCS 6120XP, 6140XP, 6248up, 6296up  | v2.2(3a), v2.2(3b), v2.2(3d) - v2.2(3f), v2.2(5b) - v2.2(5d), v2.2(6c) - v2.2(8f), v3.1(1e) - v3.1(1l), v3.1.2(b) - v3.1.3(a) - v3.1.3(d), v3.2(1) - v3.2(2d), v3.2(3g), v3.2(3h) |   |
|                                 | UCS 6324  | v3.1(1e), v3.1(2b) - v3.1(2e) - v3.1(1l), v3.1.2(b) - v3.1.2(e), v3.1.3(a) - v3.1.3(d), v3.2(1) - v3.2(2d)  | Cisco UCS Mini only   |

| FCOE Storage Interface             |   |  |  |
|------------------------------------|---|--|--|
| Converged Network Adapters (CNA)   |   |  |  |
| Manufacturer                       | Models  | Driver Versions  | Notes  |
| Cisco                              | UCS 1225, 1225T, 1227, 1240, 1280, 1285   | v1.6.0.17a<br>v1.6.0.25<br>v2.4.0.13   | Must connect to a Cisco UCS top of rack interconnect switch. |
|                                    | UCS 1340, 1380  | v1.6.0.17a<br>v2.4.0.13  | Must connect to a Cisco UCS top of rack interconnect switch. |
|                                    | UCS M81KR   | v1.6.0.17a   | Must connect to a Cisco UCS top of rack interconnect switch. |
| Emulex                             | Oce10102  | Bundled  |  |
|                                    | Oce11102  | Bundled<br>v11.1.196.3   |  |
|                                    | Oce14102  | Bundled  |  |
| Qlogic                             | QLE8360, QLE8362  | Bundled<br>v2.1.10.1<br>v2.1.46.0<br>v2.1.65.0                                 |  |
| FCOE Switches                      |   |  |  |
| Manufacturer                       | Models  | Firmware Versions  | Notes  |
| Any                                | Generic DCB IP Switch   | Any DCB 10GigE FW  | VSP G1000 & VSP only   |
| Brocade                            | VDX 6730  | v4.1.3d  | VSP G1000 & VSP only   |
|                                    | VDX 6740  | v5.0.1d, v6.0.1a   | VSP G1000 & VSP only   |
| Cisco                              | 9132T (FCoE)  | v8.2(1) - v8.2(2)  |  |
|                                    | 9250i (FCoE)  | v6.2(5) - v6.2(13b), v6.2(17) - v6.2(25), v7.3(0)D1(1) - v7.3(1)D1(1), v8.3(1) | Cisco OS v6.2(15) is no longer supported.                    |
|                                    | 9513 (FCoE)   | v6.2(1) - v6.2(13b), v6.2(17) - v6.2(25), 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(25), 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(25), 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   |
|                                    | Nexus 5672up, 5672up-2248pq, 5672up-2348UPQ   | v7.3(0)N1(1) - v7.3(1)N1(1)  | VSP G1000 & VSP only   |
|                                    | Nexus 7706 (FCoE), 7710 (FCoE)  | v7.3(0)D1(1) - v7.3(1)D1(1)  | VSP G1000 & VSP only   |
| UCS 6120XP, 6140XP, 6248up, 6296up | v2.2(3a), v2.2(3b), v2.2(3d) - v2.2(3f), v2.2(5b) - v2.2(5d), v2.2(6c) - v2.2(8f), v3.1(1e) | 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 |       |
| Cisco          | UCS 1225   | v2.1.2.62  |                                   |       |
| Emulex         | OCe11102   | Bundled  |                                   |       |
|                |  | v11.0.231.0<br>v11.1.216.0<br>v11.1.91.0-1vmw<br>v11.2.1147.5                        |                                   |       |
|                | Oce14102   | Bundled<br>v10.4.203.8<br>v10.4.255.17<br>v12.0.1108.0                               |                                   |       |
| HP             | 530SFP+  | Bundled  |                                   |       |
|                | 534FLB   | v1.713.20.v60.4  |                                   |       |
|                | 534FLR-SFP+  | v1.713.20.v60.4  |                                   |       |
|                | CN1100R  | v1.713.20.v60.4  |                                   |       |
|                | CN1200E  | v11.1.145.0  |                                   |       |
| Intel          | X520   | v3.7.13.7<br>v4.4.1  |                                   |       |
|                | 82598EB  | Bundled  |                                   |       |
| Qlogic         | QLE8360, QLE8362   | v634.55.26.0-1vmw  |                                   |       |
| iSCSI Switches |  |  |                                   |       |
| Manufacturer   | Models   | Firmware Versions  |                                   | Notes |
| Any            | Generic 10GigE Switch  | Any 10GigE FW  | VSP G1x00, F1500, Gxx0, Fxx0 only |       |
| Brocade        | VDX 6730   | v4.1.2, v4.1.3a  |                                   |       |
|                | VDX 6740   | v6.0.1a  |                                   |       |
| Cisco          | Nexus 5010-2232pp, 5020, 5548p, 5548up, 5548up-2232pp, 5596up, 5596T, 5596T-2232TM-E | v5.2(1)N1(1) - v5.2(1)N1(9), v7.0(0)N1(1) - v7.0(8)N1(1), v7.3(0)N1(1) -v7.3(1)N1(1) |                                   |       |
|                | Nexus 5672up, 5672up-2248pq, 5672up-2348UPQ  | v7.0(0)N1(1) - v7.0(8)N1(1), v7.1(0)N1(1a) - v7.2(1)N1(1)                            |                                   |       |
|                | Nexus 6001P, 6001p-2248pq, 6001T, 6004   | v7.0(0)N1(1) - v7.0(8)N1(1), v7.3(0)N1(1) - v7.3(1)N1(1)                             |                                   |       |



**VSP G1x00, F1500, Gxx0, Fxx0, VSP, HUS VM support for VMWare ESXi 5.5, UP1, UP2, UP3 (X64)**

**NOTE: VMWare 5.5 support ended 9/19/2018. Extended support ends 9/19/2020.**

| <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<br>v1.5.0.49<br>v1.6.0.5<br>v1.6.0.6<br>v1.6.0.10<br>v1.6.0.12<br>v1.6.0.12b<br>v1.6.0.17a<br>v1.6.0.25<br>v1.6.0.28<br>v1.6.0.34 | Must connect to a Cisco UCS top of rack interconnect switch. |
|  | UCS 1340, 1380                                   | v1.6.0.12<br>v1.6.0.12b<br>v1.6.0.16<br>v1.6.0.17a<br>v1.6.0.25<br>v1.6.0.34<br>v1.6.0.36   | Must connect to a Cisco UCS top of rack interconnect switch. |
|  | UCS M81KR  | v1.5.0.45<br>v1.5.0.49b<br>v1.6.0.12b   | Must connect to a Cisco UCS top of rack interconnect switch. |
| Emulex   | LPe12000, LPe12002, LPe1205, LPe1205-HI          | Bundled<br>v10.2.261.7<br>v10.2.340.18<br>v10.0.720.0   |  |
|  | LPe16000, LPe16002, LPe16002B                    | Bundled<br>v10.0.725.203<br>v10.2.426.0<br>v11.0.237.0<br>v11.1.145.18  |  |
|  | LPe31000, LPe31002, LPe31004, LPe32000, LPe32002 | Bundled<br>v11.0.237.0<br>v11.1.145.18  |  |
|  | Oce10102   | Bundled<br>v8.2.3.1-129vmw<br>v8.2.4.151.65<br>v10.2.455.0  |  |
|  | Oce11102   | Bundled<br>v10.2.455.0  |  |
|  | Oce14102   | Bundled   |  |
|  | OCm14102   | v11.0.237.0   |  |
| HPE  | 451871-B21<br>QMH2562                            | v1.710.70.v55.3   |  |
|  | 456972-B21<br>LPe1205                            | Bundled<br>v10.7.110.4  |  |
|  | 554M, 554FLB                                     | v10.0.725.203<br>v10.2.298.12<br>v10.2.340.18<br>v10.2.455.0<br>v10.5.65.7<br>v10.7.110.4<br>v11.1.145.18                                   |  |

|        |   |  |  |
|--------|---|--|--|
|        | 630FLB  | v1.710.70.v55.3  |  |
|        | 650M, 650FLB  | v10.2.340.18<br>v10.2.292.0<br>v10.2.455.0<br>v10.7.110.4<br>v11.1.145.18<br>v11.1.183.633 |  |
|        | 651281-B21<br>QMH2572                                 | Bundled  |  |
|        | 659818-B21<br>LPe1205A                                | Bundled<br>v10.2.455.0<br>v10.7.110.4  |  |
|        | 710608-B21<br>QMH2672                                 | v1.1.29.0-1<br>v1.1.39.0-1   |  |
|        | 718203-B21<br>LPe1605                                 | v10.2.426.0<br>v10.2.455.0   |  |
|        | A8003A, A8003B, FC2242SR, A8002A,<br>A8002B, FC2142SR | Bundled  |  |
|        | AJ763A, AJ763B, 82E, AJ762A, AJ762B, 81E,<br>82E      | Bundled  |  |
|        | NC553i, NC553m, CN1100E                               | v10.0.725.203<br>v10.2.455.0<br>v11.1.145.18   |  |
|        | SN1000Q   | Bundled<br>v1.1.14.0<br>v1.1.39.0  |  |
|        | SN1100E   | Bundled<br>v10.0.725.203<br>v10.2.426.0<br>v11.1.145.18                                    |  |
| IBM    | 42D0485, 42D0494                                      | Bundled  |  |
|        | 42D0501, 42D0510                                      | Bundled  |  |
|        | 44X1940, 44X1942, 44X1945, 44X1947                    | Bundled  |  |
|        | 69Y1938   | Bundled  |  |
|        | 69Y1942   | Bundled<br>v1.1.14.0   |  |
|        | 88Y5920   | v1.78.76.v55.1   |  |
|        | 90Y3554   | Bundled  |  |
| Qlogic | QLE2560, QLE2562                                      | Bundled<br>v1.1.39.0   |  |
|        | QLE2660, QLE2662, QLE2670, QLE2672                    | Bundled<br>v1.1.14.0<br>v1.1.39.0<br>v1.1.73.0   |  |
|        | QLE2690, QLE2692, QLE2740, QLE2742,<br>QLE2764        | Bundled<br>v1.1.67.0<br>v1.1.73.0-1  |  |
|        | QME2572   | Bundled  |  |
|        | QME2662   | Bundled  |  |
|        | QLE8360, QLE8362                                      | Bundled<br>v1.1.39.0   |  |

| 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, v8.0.1 - v8.0.2f, v8.1.0a - v8.1.2b, v8.1.2d, v8.1.2f  | Brocade FOS v7.4.2b, v8.1.0, v8.1.2c, and v8.1.2e are not supported.        |
|                          | G610   | v8.1.0a - v8.1.2b, v8.1.2d, v8.1.2f, v8.2.0a - v8.2.0b  | Brocade FOS v8.1.0, v8.1.2c, v8.1.2e, and v8.2.0 are not supported.         |
|                          | G620, X6   | v8.0.1 - v8.0.2e, v8.1.0a - v8.1.2b, v8.1.2d, v8.1.2f, v8.2.0a - v8.2.0b  | Brocade FOS v8.0.0, v8.1.0, v8.1.2c, v8.1.2e, and v8.2.0 are not supported. |
|                          | G630   | v8.2.0a - v8.2.0b   | Brocade FOS v8.2.0 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(25), v7.3(0)D1(1) - v7.3(1)D1(1), v7.3(0)DY(1) - v7.3(1)DY(1)  | Cisco OS v6.2(15) is no longer supported.                                   |
|                          | 9132T  | v8.2(1) - v8.2(2)   |   |
|                          | 9148S, 9706  | v6.2(9a) - v6.2(13b), v6.2(17) - v6.2(25), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2)  | Cisco OS v6.2(15) is no longer supported.                                   |
|                          | 9250i  | v6.2(5) - v6.2(13b), v6.2(17) - v6.2(25), v7.3(0)D1(1) - v7.3(1)D1(1), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2)  | Cisco OS v6.2(15) is no longer supported.                                   |
|                          | 9396S  | v6.2(13) - v6.2(13b), v6.2(17) - v6.2(25), v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2)  | Cisco OS v6.2(15) is no longer supported.                                   |
|                          | 9710   | v6.2(1) - v6.2(13b), v6.2(17) - v6.2(25), 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 v6.2(15) is no longer supported.                                   |
|                          | 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)  |   |
|                          | 9706 (32Gb), 9710 (32Gb), 9718 (32Gb)  | v8.1(1) - v8.1(1b), v8.2(1) - v8.2(2)   |   |
| FCOE Switches (FCF mode) |  |   |   |
| Manufacturer             | Models   | Firmware Versions   | Notes   |
| Any                      | Generic DCB IP Switch  | Any DCB 10GigE FW   |   |
| Cisco                    | 9710 (FCoE), 9718 (FCoE)   | v7.3(0)D1(1) - v7.3(1)D1(1), v8.1(1) - v8.1(1a)   |   |
|                          | Nexus 5010-2232pp, 5020, 5548p, 5548up, 5548up-2232pp, 5596up, 5596T, 5596T-2232TM-E | v6.0(2)N1(2), v6.0(2)N1(2a), v7.0(0)N1(1) - v7.0(8)N1(1), v7.1(0)N1(1a) - v7.1(5)N1(1), v7.2(0)N1(1) - v7.2(1)N1(1), v7.3.(3)N1(1)  |   |
|                          | Nexus 5672up, 5672up-2248ppq   | v7.3(0)N1(1), v7.1(0)N1(1a) - v7.1(4)N1(1)  |   |
|                          | Nexus 6001P, 6001p-2248ppq, 6001T, 6004  | 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 7706 (FCoE), 7710 (FCoE)   | v7.3(0)D1(1) - v7.3(1)D1(1)   |   |
|                          | UCS 6120XP, 6140XP, 6248up, 6296up   | v2.1(3a) - v2.1(3d), v2.1(3g), v2.1(3j), v2.2(1b) - v2.2(1d), v2.2(3a), v2.2(3b), v2.2(3d) - v2.2(4c), v2.2(5b) - v2.2(5d), v2.2(6c) - v2.2(6g), v3.1(1e) - v3.1(1l), v3.1.2(b) - v3.1.3(a), v3.2(1) - v3.2(2d) |   |
|                          | UCS 6324   | v3.0(2c), v3.1(1e) - v3.1(1l), v3.1.2(b) - v3.1.2(e), v3.1.3(a)   | Cisco UCS Mini only   |
| IBM                      | IBM CN4093   | v7.7.5.0  |   |

| FCOE Storage Interface           |   |   |  |
|----------------------------------|---|---|--|
| Converged Network Adapters (CNA) |   |   |  |
| Manufacturer                     | Models                                  | Driver Versions   | Notes  |
| Cisco                            | UCS 1225, 1225T, 1227, 1240, 1280, 1285 | v1.5.0.45<br>v1.5.0.49<br>v1.6.0.5<br>v1.6.0.10<br>v1.6.0.12<br>v1.6.0.12b  | Must connect to a Cisco UCS top of rack interconnect switch. |
|                                  | UCS 1340, 1380                          | v1.6.0.12<br>v1.6.0.12b   | Must connect to a Cisco UCS top of rack interconnect switch. |
|                                  | UCS M81KR                               | v1.5.0.45   | Must connect to a Cisco UCS top of rack interconnect switch. |
| Emulex                           | OCE10102                                | Bundled<br>v8.2.3.1-129vmw<br>v8.2.4.151.65   |  |
|                                  | OCE11102                                | Bundled<br>v10.2.455.0  |  |
| Qlogic                           | QLE8360, QLE8362                        | Bundled<br>v1.1.39.0<br>v1.1.73.0   |  |
| FCOE Switches                    |   |   |  |
| Manufacturer                     | Models                                  | Firmware Versions   | Notes  |
| Any                              | Generic DCB IP Switch                   | Any DCB 10GigE FW   | VSP G1000 & VSP only   |
| Cisco                            | 9132T (FCoE)                            | v8.2(1)   |  |
|                                  | 9250i (FCoE)                            | v6.2(5) - v6.2(13b), v6.2(17) - <b>v6.2(25)</b> ,<br>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) - <b>v6.2(25)</b> ,<br>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) - <b>v6.2(25)</b> ,<br>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) - <b>v6.2(25)</b> ,<br>v7.3(0)D1(1) - v7.3(1)D1(1)  | Cisco OS v6.2(15) is no longer supported.                    |
|                                  | Nexus 5672up, 5672up-2248pq             | v7.1(0)N1(1a) - v7.1(4)N1(1)  |  |
|                                  | Nexus 6001P, 6001p-2248pq, 6001T, 6004  | v6.0(2)N1(1), v6.0(2)N1(2), v6.0(2)N1(2a),<br>v7.1(0)N1(1a) - v7.1(4)N1(1)  | VSP G1000 & VSP only   |
|                                  | Nexus 7710 (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(3d), v2.1(3g), v2.1(3j), v2.2(1b) -<br>v2.2(1d), v2.2(3a), v2.2(3b), v2.2(3d) - v2.2(4c),<br>v2.2(5b) - v2.2(5d), v2.2(6c) - v2.2(6g), v3.1(1e) | 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 |
| Cisco        | UCS 1225         | v2.1.2.62       |                                   |
| Emulex       | Oce11102         | v10.7.110.10    |                                   |
| HP           | 554FLB           | v10.5.65.7      |                                   |
|              | 530SFP+          | Bundled         |                                   |
| Intel        | X520             | v4.4.1          |                                   |
| QLogic       | 57810S-K         | v2.713.10.v55.3 |                                   |
|              | QLE8240, QLE8242 | v5.3.191        |                                   |
|              | QLE8440, QLE8442 | v2.710.39.v55.2 |                                   |

### ISCSI Switches

| Manufacturer | Models   | Firmware Versions   | Notes                             |
|--------------|--|---|-----------------------------------|
| Any          | Generic 10GigE Switch  | Any 10GigE FW   | VSP G1x00, F1500, Gxx0, Fxx0 only |
| Brocade      | VDX 6730   | v4.0.1  |                                   |
| 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 5672up, 5672up-2248pq, 5672up-2348UPQ  | v7.0(5)N1(1) - v7.0(8)N1(1), v7.1(0)N1(1a) - v7.2(1)N1(1) |                                   |