



## Oracle Linux Support Matrix

### Hitachi VSP 51xx, 55xx, G1x00, F1500, 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 5100, 5100H, 5500, 5500H.

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

- The 32Gb interface is only available on the VSP 51xx, 55xx, 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, Gxx0, Fxx0 support for Oracle Linux 7.8 (X64) with UEK R5

| <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> |
| Emulex   | LPe16000, LPe16002, LPe16004, LPe16000B, Pe16002B          | v12.0.0.13               |              |
|  | LPe31000, LPe31002, LPe31004, LPe32000, LPe32002, LPe32004 | v12.0.0.13               |              |
| HPE  | SN1100E  | v12.0.0.13               |              |
|  | SN1200E  | v12.0.0.13               |              |
|  | SN1600E  | v12.0.0.13               |              |
|  | SN1100Q  | v10.00.00.13-k           |              |
|  | SN1600Q  | v10.00.00.13-k           |              |
| Qlogic   | QLE2690, QLE2692, QLE2740, QLE2742, QLE2764                | v10.00.00.13-k           |              |
| <b>FC Switches</b>   |  |                          |              |
| <b>Manufacturer</b>  | <b>Models</b>  | <b>Firmware Versions</b> | <b>Notes</b> |
| Brocade  | 6505, 6510, 6520, 7840, DCX 8510                           | v8.2.2 - v8.2.2c         |              |
|  | G610   | v8.2.2 - v8.2.2c         |              |
|  | G620, X6   | v8.2.2 - v8.2.2c         |              |
|  | G630   | v8.2.2 - v8.2.2c         |              |
| Cisco  | 9132T  | v8.4(1) - v8.4(2)        |              |
|  | 9148S, 9706  | v8.4(1) - v8.4(2)        |              |
|  | 9148T, 9396T   | v8.4(1) - v8.4(2)        |              |
|  | 9250i  | v8.4(1) - v8.4(2)        |              |
|  | 9396S  | v8.4(1) - v8.4(2)        |              |
|  | 9710   | v8.4(1) - v8.4(2)        |              |
|  | 9718   | v8.4(1) - v8.4(2)        |              |
|  | 9710 (32Gb), 9718 (32Gb)                                   | v8.4(1) - v8.4(2)        |              |

| <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              | v11.4.0.0                |              |
| Qlogic                                 | QLE8442               | v2.7.10.1                |              |
| <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 5x00, G1x00, F1500, Gxx0, Fxx0 support for Oracle Linux 7.7 (X64) with UEK R5

| FC Storage Interface  |  |                                     |  |
|---|--|-------------------------------------|--|
| Host Bus Adapters (FC-HBA)/Converged Network Adapters (CNA) |  |                                     |  |
| Manufacturer  | Models   | Driver Versions                     | Notes  |
| Emulex  | LPe16000, LPe16002, LPe16004, LPe16000B, Pe16002B          | v12.0.0.10                          |  |
|   | LPe31000, LPe31002, LPe31004, LPe32000, LPe32002, LPe32004 | v12.0.0.10                          |  |
|   | LPe35000, LPe35002, LPe35004                               | v12.0.0.10                          |  |
| HPE   | SN1100E  | v12.0.0.10                          |  |
|   | SN1200E  | v12.0.0.10                          |  |
|   | SN1600E  | v12.0.0.10                          |  |
|   | SN1100Q  | v10.00.00.13-k                      |  |
|   | SN1600Q  | v10.00.00.13-k                      |  |
| Qlogic  | QLE2690, QLE2692, QLE2740, QLE2742, QLE2764                | v10.00.00.13-k                      |  |
| FC Switches   |  |                                     |  |
| Manufacturer  | Models   | Firmware Versions                   | Notes  |
| Brocade   | 6505, 6510, 6520, 7840, DCX 8510                           | v8.2.1a - v8.2.1e, v8.2.2 - v8.2.2c | Brocade FOS v8.2.1 is not supported.                 |
|   | G610   | v8.2.1a - v8.2.1e, v8.2.2 - v8.2.2c | Brocade FOS v8.2.1 is not supported.                 |
|   | G620, X6   | v8.2.1a - v8.2.1e, v8.2.2 - v8.2.2c | Brocade FOS v8.2.1 is not supported.                 |
|   | G630   | v8.2.1a - v8.2.1e, v8.2.2 - v8.2.2c | Brocade FOS v8.2.1 is not supported.                 |
| Cisco   | 9148, 9506 (8Gb), 9513 (8Gb)                               | v6.2(29) - v6.2(31)                 |  |
|   | 9132T  | v8.3(1) - v8.3(2)                   |  |
|   | 9148S, 9706  | v8.3(1) - v8.3(2)                   |  |
|   | 9148T, 9396T   | v8.3(1) - v8.3(2)                   |  |
|   | 9250i  | v8.3(1) - v8.3(2)                   |  |
|   | 9396S  | v8.3(1) - v8.3(2)                   |  |
|   | 9710   | v8.3(1) - v8.3(2)                   |  |
|   | 9718   | v8.3(2)                             | Cisco OS v8.3(1) is no longer supported on the 9718. |
|   | 9706 (32Gb), 9710 (32Gb)                                   | v8.3(1) - v8.3(2)                   |  |
|   | 9718 (32Gb)  | v8.3(2)                             | Cisco OS v8.3(1) is no longer supported on the 9718. |

| 10 Gbps iSCSI Storage Interface |                       |                   |       |
|---------------------------------|-----------------------|-------------------|-------|
| iSCSI Adapters                  |                       |                   |       |
| Manufacturer                    | Models                | Driver Versions   | Notes |
| Any                             | 10 GbE NIC            | Bundled           |       |
| Emulex                          | OCe14102              | v11.4.0.0         |       |
| Qlogic                          | QLE8442               | v2.7.10.1         |       |
| iSCSI Switches                  |                       |                   |       |
| Manufacturer                    | Models                | Firmware Versions | Notes |
| Any                             | Generic 10GigE Switch | Any 10GigE FW     |       |

## VSP 5x00, G1x00, F1500, Gxx0, Fxx0 support for Oracle Linux 7.6 (X64) with UEK R5

| FC Storage Interface  |   |  |  |
|---|---|--|--|
| Host Bus Adapters (FC-HBA)/Converged Network Adapters (CNA) |   |  |  |
| Manufacturer  | Models  | Driver Versions  | Notes  |
| Emulex  | LPe16000, LPe16002, LPe16004,<br>LPe16000B, Pe16002B          | v12.0.0.5  |  |
|   | LPe31000, LPe31002, LPe31004,<br>LPe32000, LPe32002, LPe32004 | v12.0.0.5  |  |
|   | OCe14102  | v12.0.0.5  |  |
| HPE   | 3530C   | v12.0.0.5  |  |
|   | 3830C   | v10.00.00.07-k1  |  |
|   | SN1100E   | v12.0.0.5  |  |
|   | SN1200E   | v12.0.0.5  |  |
|   | SN1600E   | v12.0.0.5  |  |
|   | SN1000Q   | v10.00.00.07-k1  |  |
|   | SN1100Q   | v10.00.00.06.07.6-k<br>v10.00.00.07-k1                 |  |
|   | SN1600Q   | v10.00.00.07-k1  |  |
| Qlogic  | QLE2660, QLE2662, QLE2670, QLE2672                            | v10.00.00.07-k1  |  |
|   | QLE2690, QLE2692, QLE2740, QLE2742,<br>QLE2764                | v10.00.00.07-k1  |  |
|   | QLE8360, QLE8362  | v10.00.00.07-k1  |  |
| FC Switches   |   |  |  |
| Manufacturer  | Models  | Firmware Versions                                      | Notes  |
| Brocade   | 6505, 6510, 6520, 7840, DCX 8510                              | v8.2.0a - v8.2.0b, v8.2.1a - v8.2.1e, v8.2.2 - v8.2.2c | 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 - v8.2.2c | Brocade FOS v8.2.0, and v8.2.1 are not supported.    |
|   | G620, X6  | v8.2.0a - v8.2.0b, v8.2.1a - v8.2.1e, v8.2.2 - v8.2.2c | Brocade FOS v8.2.0, and v8.2.1 are not supported.    |
| Cisco   | 9132T   | v8.3(1) - v8.3(2)                                      |  |
|   | 9148S, 9706   | v8.3(1) - v8.3(2)                                      |  |
|   | 9148T, 9396T  | v8.3(1) - v8.3(2)                                      |  |
|   | 9250i   | v8.3(1) - v8.3(2)                                      |  |
|   | 9396S   | v8.3(1) - v8.3(2)                                      |  |
|   | 9710  | v8.3(1) - v8.3(2)                                      |  |
|   | 9718  | v8.3(2)  | Cisco OS v8.3(1) is no longer supported on the 9718. |
|   | 9706 (32Gb), 9710 (32Gb)<br>9718 (32Gb)                       | v8.3(1) - v8.3(2)<br>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 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 | v12.0.0.5       |       |

### FCOE Switches

| 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) |       |

## 10 Gbps iSCSI Storage Interface

### iSCSI Adapters

| Manufacturer | Models           | Driver Versions | Notes |
|--------------|------------------|-----------------|-------|
| Any          | 10 GbE NIC       | Bundled         |       |
| Emulex       | OCe14102         | v11.4.0.0       |       |
| Qlogic       | QLE8360, QLE8362 | v5.04.00-k6     |       |

### iSCSI Switches

| Manufacturer | Models                       | Firmware Versions | Notes |
|--------------|------------------------------|-------------------|-------|
| Any          | Generic 10GigE Switch        | Any 10GigE FW     |       |
| Cisco        | Nexus 5696Q, 5672up, 56128up | v7.3(1)N1(1)      |       |

## VSP G1x00, F1500, Gxx0, Fxx0, HUS VM support for Oracle Linux 7.5 (X64) with UEK R4

| <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>                         |
| Emulex   | LPe16000, LPe16002, LPe16004,<br>LPe16000B, Pe16002B                                 | v11.4.0.2                   |                                      |
|  | LPe31000, LPe31002, LPe31004, LPe32000,<br>LPe32002, LPe32004                        | v11.4.0.2                   |                                      |
|  | OCe14102   | v11.4.0.2                   |                                      |
| HPE  | 3530C  | v11.4.0.2                   |                                      |
|  | 3830C  | v9.00.00.00.40.0-k          |                                      |
|  | SN1100E  | v11.4.0.2                   |                                      |
|  | SN1200E  | v11.4.0.2                   |                                      |
|  | SN1600E  | v11.4.0.2                   |                                      |
|  | SN1000Q  | v9.00.00.00.40.0-k          |                                      |
|  | SN1100Q  | v9.00.00.00.40.0-k          |                                      |
|  | SN1600Q  | v9.00.00.00.40.0-k          |                                      |
| Qlogic   | QLE2660, QLE2662, QLE2670, QLE2672<br>QLE2690, QLE2692, QLE2740, QLE2742,<br>QLE2764 | v9.00.00.00.40.0-k          |                                      |
|  | QLE8360, QLE8362   | v9.00.00.00.40.0-k          |                                      |
|  |  |                             |                                      |
| <b>FC Switches</b>   |  |                             |                                      |
| <b>Manufacturer</b>  | <b>Models</b>  | <b>Firmware Versions</b>    | <b>Notes</b>                         |
| Brocade  | 6505, 6510, 6520, 7840, DCX 8510   | v8.2.0a - v8.2.0b           | Brocade FOS v8.2.0 is not supported. |
|  | G610   | v8.2.0a - v8.2.0b           | Brocade FOS v8.2.0 is not supported. |
|  | G620, X6   | v8.2.0a - v8.2.0b           | Brocade FOS v8.2.0 is not supported. |
| Cisco  | 9148S, 9706  | v8.2(1) - v8.2(2)           |                                      |
|  | 9250i  | v8.2(1) - v8.2(2)           |                                      |
|  | 9396S  | v8.2(1) - v8.2(2)           |                                      |
|  | 9710   | v8.2(1) - v8.2(2)           |                                      |
|  | 9718   | v8.2(1) - v8.2(2)           |                                      |
|  | 9710 (32Gb), 9718 (32Gb)   | v8.2(1) - v8.2(2)           |                                      |
| <b>FCOE Switches (FCF mode)</b>                                    |  |                             |                                      |
| <b>Manufacturer</b>  | <b>Models</b>  | <b>Firmware Versions</b>    | <b>Notes</b>                         |
| Cisco  | Nexus 5672up, 5672up-2248pq  | v7.3(0)N1(1) - v7.3(1)N1(1) |                                      |

| <b>FCOE Storage Interface - VSP G1000 only</b> |                             |                             |              |
|--|-----------------------------|-----------------------------|--------------|
| <b>Converged Network Adapters (CNA)</b>        |                             |                             |              |
| <b>Manufacturer</b>                            | <b>Models</b>               | <b>Driver Versions</b>      | <b>Notes</b> |
| Emulex   | OCe14102                    | v11.4.0.2                   |              |
| QLogic   | QLE8360, QLE8362            | v9.00.00.00.40.0-k          |              |
| <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  | Nexus 5672up, 5672up-2248pq | v7.3(0)N1(1) - v7.3(1)N1(1) |              |
| <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                    | v11.2.1.0                   |              |
| QLogic   | QLE8360, QLE8362            | v5.04.00-k6                 |              |
| <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, HUS VM support for Oracle Linux 7.3 (X64) with UEK R4

| 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              | v1.6.0.27   | Must connect to a Cisco UCS top of rack interconnect switch. |
|   | UCS 1340, 1380                                       | v1.6.0.27   | Must connect to a Cisco UCS top of rack interconnect switch. |
| Emulex  | LPe12000, LPe12002, LPe1205, LPe1205A-HI, LPe1205-HI | v11.1.0.4   |  |
|   | LPe16000, LPe16002, LPe16004, LPe16000B, Pe16002B    | v11.1.0.4   |  |
|   | Oce11102   | v11.1.0.4   |  |
| HPE   | AJ763A, AJ763B, 82E                                  |   |  |
|   | AJ762A, AJ762B, 81E                                  | v11.1.0.4   |  |
|   | AK344A, AJ764A, 81Q, 82Q                             | v8.07.00.38.40.0-k  |  |
|   | SN1000Q  | v8.07.00.38.40.0-k  |  |
| IBM   | SN1100E  | v11.1.0.4   |  |
|   | 42D0485, 42D0494                                     | v11.1.0.4   |  |
| Qlogic  | 42D0501, 42D0510                                     | v8.07.00.38.40.0-k  |  |
|   | QLE2560, QLE2562, QLE5264                            | v8.07.00.38.40.0-k  |  |
|   | QLE2660, QLE2662, QLE2670, QLE2672                   | v8.07.00.38.40.0-k  |  |
|   | QLE8360, QLE8362                                     | v8.07.00.38.40.0-k  |  |
| 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, v8.2.1a - v8.2.1e | 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                                       | Brocade FOS v8.1.2c, and v8.1.2e are not supported.          |
|   | G620, X6   | v8.1.2a - v8.1.2b, v8.1.2d, v8.1.2f - v8.1.2k                                       | Brocade FOS v8.1.2c, and v8.1.2e are are not supported.      |
| Cisco   | 9148, 9506 (8Gb), 9513 (8Gb)                         | v6.2(17) - v6.2(31), v7.3(0)DY(1) - v7.3(1)DY(1)                                    |  |
|   | 9148S, 9706  | v6.2(17) - v6.2(31), v8.1(1) - v8.1(1b)   |  |
|   | 9250i  | v6.2(17) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1), v8.1(1) - v8.1(1b)                |  |
|   | 9396S  | v6.2(17) - v6.2(31), v8.1(1) - v8.1(1b)   |  |
|   | 9710   | v6.2(17) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1), v7.3(0)DY(1), v8.1(1) - v8.1(1b)  |  |
|   | 9718   | v7.3(0)D1(1) - v7.3(1)D1(1), v7.3(0)DY(1), v8.1(1) - v8.1(1b)                       |  |
|   | 9710 (32Gb), 9718 (32Gb)                             | v8.1(1) - v8.1(1b)  |  |
| FCOE Switches (FCF mode)                                    |  |   |  |
| Manufacturer  | Models   | Firmware Versions   | Notes  |
| Cisco   | Nexus 5672up, 5672up-2248pq                          | v7.3(0)N1(1) - v7.3(1)N1(1)   |  |
|   | UCS 6120XP, 6140XP, 6248up, 6296up                   | v3.1.2(b) - v3.1.2(e)   |  |



## FCOE Storage Interface - VSP G1000 only

### Converged Network Adapters (CNA)

| Manufacturer | Models           | Driver Versions    | Notes |
|--------------|------------------|--------------------|-------|
| Emulex       | OCe11102         | v11.1.0.4          |       |
| QLogic       | QLE8360, QLE8362 | v8.07.00.38.40.0-k |       |

### FCOE Switches

| 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) |       |

## 10 Gbps iSCSI Storage Interface

### iSCSI Adapters

| Manufacturer | Models           | Driver Versions | Notes |
|--------------|------------------|-----------------|-------|
| Any          | 10 GbE NIC       | Bundled         |       |
| Emulex       | OCe11102         | v11.0.0.0       |       |
| Intel        | X520             | v4.4.0-k        |       |
| QLogic       | QLE8360, QLE8362 | v5.04.00-k6     |       |

### iSCSI Switches

| Manufacturer | Models                | Firmware Versions | Notes |
|--------------|-----------------------|-------------------|-------|
| Any          | Generic 10GigE Switch | Any 10GigE FW     |       |

## VSP G1x00, F1500, Gxx0, Fxx0, HUS VM support for Oracle Linux 7.2 (X64) with UEK R3

| FC Storage Interface  |   |  |   |
|---|---|--|---|
| Host Bus Adapters (FC-HBA)/Converged Network Adapters (CNA) |   |  |   |
| Manufacturer  | Models  | Driver Versions  | Notes   |
| Emulex  | LPe12000, LPe12002, LPe1205,<br>LPe1205A-HI, LPe1205-HI | v10.6.61.1   |   |
|   | LPe16000, LPe16002, LPe16004,<br>LPe16000B, Pe16002B    | v10.6.61.1<br>v10.7.0.1  |   |
|   | OCe11102  | v10.6.61.1   |   |
| HPE   | AJ763A, AJ763B, 82E<br>AJ762A, AJ762B, 81E              | v10.6.61.1   |   |
|   | AK344A, AJ764A, 81Q, 82Q                                | v8.07.00.18.39.0-k   |   |
|   | SN1000Q   | v8.07.00.18.39.0-k   |   |
|   | SN1100E   | v10.6.61.1   |   |
| IBM   | 42D0485, 42D0494  | v10.6.61.1   |   |
|   | 42D0501, 42D0510  | v8.07.00.18.39.0-k   |   |
| Qlogic  | QLE2560, QLE2562, QLE5264                               | v8.07.00.18.39.0-k   |   |
|   | QLE2660, QLE2662, QLE2670, QLE2672                      | v8.07.00.18.39.0-k   |   |
|   | QLE8360, QLE8362  | v8.07.00.18.39.0-k   |   |
| 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 -<br>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 -<br>v8.1.2k   | Brocade FOS v8.1.2c, and v8.1.2e are not supported.         |
|   | G620, X6  | v8.1.2a - v8.1.2b, v8.1.2d, v8.1.2f -<br>v8.1.2k   | Brocade FOS v8.1.2c, and v8.1.2e are are not supported.     |
| Cisco   | 9148, 9506 (8Gb), 9513 (8Gb)                            | v6.2(17) - v6.2(31), v7.3(0)DY(1) -<br>v7.3(1)DY(1)                                      |   |
|   | 9148S, 9706   | v6.2(17) - v6.2(31), v8.1(1) - v8.1(1b)  |   |
|   | 9250i   | v6.2(17) - v6.2(31), v7.3(0)D1(1) -<br>v7.3(1)D1(1)), v8.1(1) - v8.1(1b)                 |   |
|   | 9396S   | v6.2(17) - v6.2(31), v8.1(1) - v8.1(1b)  |   |
|   | 9710  | v6.2(17) - v6.2(31), v7.3(0)D1(1) -<br>v7.3(1)D1(1), v7.3(0)DY(1), v8.1(1) -<br>v8.1(1b) |   |
|   | 9718  | v7.3(0)D1(1) - v7.3(1)D1(1), v7.3(0)DY(1),<br>v8.1(1) - v8.1(1b)                         |   |
|   | 9710 (32Gb), 9718 (32Gb)                                | v8.1(1) - v8.1(1b)   |   |
| FCOE Switches (FCF mode)                                    |   |  |   |
| Manufacturer  | Models  | Firmware Versions  | Notes   |
| Cisco   | 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       | OCe11102         | v10.6.61.1         |       |
| QLogic       | QLE8360, QLE8362 | v8.07.00.18.39.0-k |       |

#### FCOE Switches

| Manufacturer | Models                      | Firmware Versions           | Notes |
|--------------|-----------------------------|-----------------------------|-------|
| Any          | Generic DCB IP Switch       | Any DCB 10GigE FW           |       |
| Brocade      | VDX 6740                    | v6.0.1a                     |       |
| Cisco        | 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         | v10.2.370.15    |       |
| QLogic       | QLE8360, QLE8362 | v5.08.18.00     |       |

#### iSCSI Switches

| Manufacturer | Models                | Firmware Versions | Notes |
|--------------|-----------------------|-------------------|-------|
| Any          | Generic 10GigE Switch | Any 10GigE FW     |       |

## VSP 5x00, G1x00, F1500, Gxx0, Fxx0 support for Oracle Linux 6.10 (X64) with UEK R4

| FC Storage Interface  |  |  |  |
|---|--|--|--|
| Host Bus Adapters (FC-HBA)/Converged Network Adapters (CNA) |  |  |  |
| Manufacturer  | Models   | Driver Versions                                      | Notes  |
| Emulex  | LPe16000, LPe16002, LPe16004, LPe16000B, Pe16002B          | v11.4.0.7  |  |
|   | LPe31000, LPe31002, LPe31004, LPe32000, LPe32002, LPe32004 | v11.4.0.7  |  |
| HPE   | 3530c  | v11.4.0.7  |  |
|   | SN1100E  | v11.4.0.7  |  |
|   | SN1200E  | v11.4.0.7  |  |
|   | SN1600E  | v11.4.0.7  |  |
|   | SN1000Q  | v9.00.00.00.40.0-k1                                  |  |
|   | SN1100Q  | v9.00.00.00.40.0-k1                                  |  |
| IBM   | 00Y3337, 00Y3341   | v9.00.00.00.40.0-k1                                  |  |
|   | QLE2660, QLE2662, QLE2670, QLE2672                         | v9.00.00.00.40.0-k1                                  |  |
| QLogic  | QLE2690, QLE2692, QLE2740, QLE2742, QLE2764                | v9.00.00.00.40.0-k1                                  |  |
|   | QLE8360, QLE8362   | v9.00.00.00.40.0-k1                                  |  |
| FC Switches   |  |  |  |
| Manufacturer  | Models   | Firmware Versions                                    | Notes  |
| Brocade   | 6505, 6510, 6520, 7840, DCX 8510                           | v8.2.0a - v8.2.0b, v8.2.1a - v8.2.2c                 | Brocade FOS v8.2.0, and v8.2.1 are not supported.    |
|   | G610   | v8.2.0a - v8.2.0b                                    | Brocade FOS v8.2.0 is not supported.                 |
|   | G620, X6   | v8.2.0a - v8.2.0b                                    | Brocade FOS v8.2.0 is not supported.                 |
|   | G630   | v8.2.0a - v8.2.0b                                    | Brocade FOS v8.2.0 is not supported.                 |
| Cisco   | 9132T  | v8.2(1) - v8.2(2), v8.3(1) - v8.3(2)                 |  |
|   | 9148S, 9706  | v8.2(1) - v8.2(2), v8.3(1) - v8.3(2)                 |  |
|   | 9250i  | v8.2(1) - v8.2(2), v8.3(1) - v8.3(2)                 |  |
|   | 9396S  | v8.2(1) - v8.2(2), v8.3(1) - v8.3(2)                 |  |
|   | 9710   | v8.2(1) - v8.2(2), v8.3(1) - v8.3(2)                 |  |
|   | 9718   | v8.2(1) - v8.2(2), v8.3(2)                           | Cisco OS v8.3(1) is no longer supported on the 9718. |
|   | 9706 (32Gb), 9710 (32Gb)                                   | v8.2(1) - v8.2(2), v8.3(1) - v8.3(2)                 |  |
| 9718 (32Gb)   | 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 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         | v11.4.0.7           |       |
| QLogic                           | QLE8360, QLE8362 | v9.00.00.00.40.0-k1 |       |

  

| FCOE Switches |                             |                             |       |
|---------------|-----------------------------|-----------------------------|-------|
| 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) |       |

### 10 Gbps iSCSI Storage Interface

| iSCSI Adapters |                  |                 |       |
|----------------|------------------|-----------------|-------|
| Manufacturer   | Models           | Driver Versions | Notes |
| Any            | 10 GbE NIC       | Bundled         |       |
| Emulex         | OCe14102         | v11.2.1.0       |       |
| Intel          | X520             | v5.1.0-k        |       |
| QLogic         | QLE8360, QLE8362 | v5.04.00-k6     |       |

  

| iSCSI Switches |                       |                   |       |
|----------------|-----------------------|-------------------|-------|
| Manufacturer   | Models                | Firmware Versions | Notes |
| Any            | Generic 10GigE Switch | Any 10GigE FW     |       |

## VSP G1x00, F1500, Gxx0, Fxx0, HUS VM support for Oracle Linux 6.9 (X64) with UEK R4

| FC Storage Interface  |  |  |   |
|---|--|--|---|
| Host Bus Adapters (FC-HBA)/Converged Network Adapters (CNA) |  |  |   |
| Manufacturer  | Models   | Driver Versions  | Notes   |
| Emulex  | LPe12000, LPe12002, LPe1205, LPe1205A-HI, LPe1205-HI       | v11.1.0.4  |   |
|   | LPe16000, LPe16002, LPe16004, LPe16000B, Pe16002B          | v11.1.0.4  |   |
|   | LPe31000, LPe31002, LPe31004, LPe32000, LPe32002, LPe32004 | v11.1.0.4  |   |
|   | OCe11102   | v11.1.0.4  |   |
| HPE   | AJ763A, AJ763B, 82E<br>AJ762A, AJ762B, 81E                 | v11.1.0.4  |   |
|   | AK344A, AJ764A, 81Q, 82Q                                   | v8.07.00.38.40.0-k   |   |
|   | 650FLB, 650M   | v11.4.0.2  |   |
| IBM   | 42D0485, 42D0494   | v11.1.0.4  |   |
|   | 42D0501, 42D0510   | v8.07.00.38.40.0-k   |   |
| QLogic  | QLE2560, QLE2562   | v8.07.00.38.40.0-k   |   |
|   | QLE2660, QLE2662, QLE2670, QLE2672                         | v8.07.00.38.40.0-k   |   |
|   | QLE8360, QLE8362   | v8.07.00.38.40.0-k   |   |
| 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                                      | Brocade FOS v8.1.2c, and v8.1.2e are not supported.         |
|   | G620, X6   | v8.1.2a - v8.1.2b, v8.1.2d, v8.1.2f - v8.1.2k                                      | Brocade FOS v8.1.2c, and v8.1.2e are are not supported.     |
| Cisco   | 9148, 9506 (8Gb), 9513 (8Gb)                               | v6.2(17) - v6.2(31), v7.3(0)DY(1) - v7.3(1)DY(1)                                   |   |
|   | 9148S, 9706  | v6.2(17) - v6.2(31), v8.1(1) - v8.1(1b)  |   |
|   | 9250i  | v6.2(17) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1), v8.1(1) - v8.1(1b)               |   |
|   | 9396S  | v6.2(17) - v6.2(31), v8.1(1) - v8.1(1b)  |   |
|   | 9710   | v6.2(17) - v6.2(31), v7.3(0)D1(1) - v7.3(1)D1(1), v7.3(0)DY(1), v8.1(1) - v8.1(1b) |   |
|   | 9718   | v7.3(0)D1(1) - v7.3(1)D1(1), v7.3(0)DY(1), v8.1(1) - v8.1(1b)                      |   |
|   | 9710 (32Gb), 9718 (32Gb)                                   | v8.1(1) - v8.1(1b)   |   |
| FCOE Switches (FCF mode)                                    |  |  |   |
| Manufacturer  | Models   | Firmware Versions  | Notes   |
| Cisco   | 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                           | OCe11102                    | v11.1.0.4                   |       |
| QLogic                           | QLE8360, QLE8362            | v8.07.00.38.40.0-k          |       |
| FCOE Switches                    |                             |                             |       |
| 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) |       |

### 10 Gbps iSCSI Storage Interface

| iSCSI Adapters |                             |                             |       |
|----------------|-----------------------------|-----------------------------|-------|
| Manufacturer   | Models                      | Driver Versions             | Notes |
| Any            | 10 GbE NIC                  | Bundled                     |       |
| Emulex         | OCe11102                    | v11.0.0.0                   |       |
| QLogic         | QLE8360, QLE8362            | v5.04.00-k6                 |       |
| iSCSI Switches |                             |                             |       |
| Manufacturer   | Models                      | Firmware Versions           | Notes |
| Any            | Generic 10GigE Switch       | Any 10GigE FW               |       |
| Cisco          | Nexus 5672up, 5672up-2248pq | v7.3(0)N1(1) - v7.3(1)N1(1) |       |