

Veritas Storage Foundation for HPE-OEM Solutions 6.1 Hardware Compatibility List

Introduction

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This Hardware Compatibility List (HCL) contains support information for hardware products tested with the following Veritas Storage Foundation and Cluster File System (includes Cluster Volume Manager (CVM)) for HPE-OEM Solutions product releases and platforms:

- 6.1 for HP-UX 11.31 (11iv3)

The list is divided into sections for servers, disk storage arrays, host bus adapters, and switches.

Use the links in the Contents to access the specific sections. All devices are presented by operating system and manufacturer.

This HCL represents the limits of Veritas support for disk storage arrays qualified for use with the Veritas Storage Foundation and Cluster File System for HPE-OEM Solutions 6.1 products in this list. There are no implied additions or exceptions to the tested or compatible devices on the provided lists.

The information in the Hardware Compatibility List (HCL) for Storage Foundation documentation is provided "as is," and all express or implied conditions, representations and warranties, including any implied warranty of merchantability, fitness for a particular purpose or non-infringement, are disclaimed, except to the extent that such disclaimers are held to be legally invalid, Veritas corporation shall not be liable for incidental or consequential damages in connection with the furnishing, performance, or use of this documentation.

The information contained on this website and in this HCL documentation is subject to change without notice.

General Notes:

- For support purposes, "Yes", or the instance of any software option in a cell in any of the matrices, indicates Veritas support. To verify support for a given device, make sure that the manufacturer also shows support for the device in its own HCL.
- Devices are listed by the name and series model number provided by the manufacturer.

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Servers

Servers are listed on the basis of their processor architecture.

Support Legend

| Symbol | Meaning |
|--------|---------------|
| Yes | Supported |
| No | Not supported |

HP-UX

| Processor architecture | Storage Foundation |
|--|--------------------|
| IA64 (Intel 64-bit architecture) | Yes |
| IA64 Dual Core (Intel 64-bit Dual Core architecture) | Yes |
| IA64 Quad Core (Intel 64-bit Quad Core architecture) | Yes |
| IA64 Octa Core (Intel 64-bit Octa Core architecture) | Yes |

Unified Computing and Blade Platforms

All Unified Computing and Blade Platforms shown here were tested with drivers and firmware supported by the OS and storage manufacturers. Check with these manufacturers for:

- Minimum driver and firmware levels
- Specific driver and firmware support
- Support for the stated Veritas products
- Other functional options

Device Support

| Manufacturer | Platform/module | Connection |
|--------------|------------------------|-----------------|
| HP | Virtual Connect Module | FC, 1GbE, 10GbE |

Disk Arrays and Storage Devices

All storage configurations shown here were tested with drivers and firmware supported by the storage array vendors. Check with these vendors for:

- Minimum driver and firmware levels
- Specific driver and firmware support
- Other functional options

Veritas supports hardware products listed here that include virtualization capability, but Veritas does not support compatibility issues that can be attributed to the virtualization feature. Veritas requires any compatibility issue to be reproduced in a non-virtualization environment. If the issue is confirmed to be related to Veritas products, Veritas will support its software at the same level as when that software is not running with hardware virtualization products. Veritas will cooperate with virtualization vendors, and attempt to assist in the diagnosis of problems found between the virtualization and Veritas products.

If the Device/family column in a table includes the qualifier **with PowerPath**, it means the storage array supports EMC PowerPath. If a row does not include the **with PowerPath** qualifier, PowerPath is not supported on that storage array.

Hardware-specific features like LUN Snapshot or Thin Reclamation are supported only if they are explicitly listed for the devices.

NOTE: For Active/Active (A/A) arrays, unless stated otherwise, Veritas supports the same Non-Disruptive Upgrade (NDU) operations that the storage vendor supports.

NOTE: Device must be formatted with 512-byte sector size for support.

For more information about the arrays in this HCL, including specific settings, see "Related Documents" in the Veritas Storage Foundation and High Availability Solutions Hardware TechNote <<http://www.veritas.com/docs/TECH47728>>

Support Legend

| Term | Meaning | Definition |
|--------------------|------------------------------|--|
| Yes | Supported | "Yes" or any other details imply the device is supported with the features listed, if any. |
| No | Not supported | "No" or the absence of any details imply the device is not supported for that product. |
| Advanced Reporting | Advanced Reporting supported | Support reporting special properties of a LUN discovered by the Device Discovery Layer (DDL) that helps storage administration. See < http://www.veritas.com/docs/TECH176305 > for details. |
| NDU | NDU supported | Support for upgrading firmware/microcode on storage array controllers while applications are running on servers. |
| SAN Boot | SAN Boot supported | Support for booting a server from a multi-pathed storage array LUN and rootability on SAN LUNs. |

Support Legend

| Term | Meaning | Definition |
|------------------|----------------------------|--|
| Thin Reclamation | Thin Reclamation supported | Support for storage optimization by recovering blocks from deleted files or data. It supports WRITE_SAME, UNMAP, and TRIM/PTRIM depending upon the reclamation method supported by a given device. It adds the storage back to the storage thin pool. LUNs supported with thin reclamation are denoted by their Advanced Reporting attribute. See < http://www.veritas.com/docs/TECH176305 > for details. |

Modes

| Term | Meaning | Definition |
|-----------------------------------|--|--|
| Active/Active (A/A) | Array supported in Active/Active mode | A/A arrays support simultaneous I/O on all paths. |
| Active/Active-Asymmetric (A/A-A) | Array supported in Active/Active-Asymmetric mode | A/A-A arrays support simultaneous I/O on all paths, but seek the most optimized path for the I/O transmission rate. Asymmetric Logical Unit Access (ALUA) array support is also denoted by A/A-A. |
| Active/Passive (A/P) | Array supported in Active/Passive mode | A/P arrays in auto-trespass mode support I/O on a single primary (active) path, while the secondary (passive) path is engaged if the primary path fails. A/P implies A/P-C operation mode. |
| Active/Passive-Concurrent (A/P-C) | Array supported in Active/Passive-Concurrent mode | A/P-C arrays support I/O on multiple primary (active) paths, while the secondary (passive) paths are engaged if all primary paths fail. |
| Active/Passive-Failover (A/P-F) | Array supported in Active/Passive-Failover (explicit) mode | A/P-F arrays in explicit failover mode support I/O on a single primary (active) path, while the secondary (passive) path is engaged through the use of an explicit command if the primary path fails. |

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[Device Family Membership](#)

HP-UX 11.31 (11iv3)

NOTE: For details on specific PowerPath versions supported for for storage Device/Family indicated "with PowerPath", see the EMC Support Matrices at <http://www.emc.com/interoperability> .

For details on Advanced Reporting support, see: <http://www.veritas.com/docs/TECH176305> .

For details on Thin Reclamation support, see: <http://www.veritas.com/docs/TECH176305> .

EMC

| Device/Family | Mode | Interface | Advanced Features |
|--|-------|----------------------|---|
| CLARiiON CX4 series [1] [2] [3] [4] | A/A-A | Fibre Channel, iSCSI | Advanced Reporting, NDU, SAN Boot, Thin Reclamation |
| CLARiiON CX4 series with PowerPath [1] [2] [3] [4] [5] | A/A-A | Fibre Channel | |
| Symmetrix DMX series [6] | A/A | Fibre Channel | Advanced Reporting, SAN Boot |
| Symmetrix DMX series with PowerPath [5] [6] | A/A | Fibre Channel | |
| Symmetrix VMAX series [7] [8] [9] | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| Symmetrix VMAX series with PowerPath [5] [7] [8] [9] | A/A | Fibre Channel | |
| VMAX3 series | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| VMAX3 series with PowerPath | A/A | Fibre Channel | |
| VNX series [10] [2] [3] | A/A-A | Fibre Channel, iSCSI | Advanced Reporting, SAN Boot, Thin Reclamation |
| VNX series with PowerPath [10] [11] [2] [3] [5] | A/A-A | Fibre Channel | |
| VNX2 series [10] [3] | A/A-A | Fibre Channel, iSCSI | Advanced Reporting, SAN Boot, Thin Reclamation |
| VNX2 series with PowerPath [10] [3] | A/A-A | Fibre Channel | SAN Boot |
| VNX2e series [3] | A/A-A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| VNX2e series with PowerPath [3] | A/A-A | Fibre Channel | |
| VPLEX | A/A | Fibre Channel | SAN Boot |
| VPLEX with PowerPath | A/A | Fibre Channel | |
| XtremIO | A/A | Fibre Channel | |
| XtremIO with PowerPath | A/A | Fibre Channel | |

1. A minimum flare code version 26 or above is required to support this mode.

2. NDU operations are supported. For exact procedures for performing NDU on the array, consult with EMC support.
3. The management tools must be used to report physically allocated space for Thin LUNs.
4. Thin Reclamation is supported with this array; the minimum array firmware FLARE 29 is required. On HP-UX platform, CLARiiON Open Initiator Type and the minimum array firmware FLARE 29 are required to support Thin Reclamation with this array. To obtain the maximum reclamation benefits, FLARE 30 is highly recommended; for more detail, see EMC Powerlink Primus Doc ID# emc233231: CLARiiON Thin LUN Space Reclamation for details. Thin Reclamation is not supported with PowerPath.
5. A minimum PowerPath version of 5.1.2 (5.1 SP2) is required to support this array with PowerPath.
6. Supports Symmetrix DMX-4 only.
7. Array microcode level 5876 or above requires the latest ASL to support Thin Reclamation function, see <<http://www.veritas.com/docs/TECH194376>> for more detail.
8. Reporting of physically allocated space requires firmware level of 5876.159.102 or higher.
9. Thin Reclamation is supported with this array; the minimum array firmware 5875.135.91 is required. Thin Reclamation is not supported with PowerPath.
10. Supports block mode storage only.
11. Unexpected 'udid_mismatch' flag is set on some VxVM devices after installing PowerPath on the system with VNX5500 array with HP-UX 11i v3 March 2015 OEUR.

Fujitsu

| Device/Family | Mode | Interface | Advanced Features |
|---|-------|---------------|--|
| ETERNUS DX400/DX500/DX600 series [1] [2] [3] [4] | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| ETERNUS DX400/DX500/DX600 series [1] [2] [3] [4] | A/A-A | Fibre Channel | Advanced Reporting, Thin Reclamation |
| ETERNUS DX60/DX80/DX90/DX100/DX200 series [1] [3] [5] [6] | A/A | Fibre Channel | Advanced Reporting, Thin Reclamation |
| ETERNUS DX60/DX80/DX90/DX100/DX200 series [1] [3] [5] [6] | A/A-A | Fibre Channel | Advanced Reporting, Thin Reclamation |
| ETERNUS DX8000 S3 series [1] [7] [8] | A/A | Fibre Channel | Advanced Reporting, Thin Reclamation |
| ETERNUS DX8000 S3 series [1] [7] [8] | A/A-A | Fibre Channel | Advanced Reporting, Thin Reclamation |
| ETERNUS DX8000 series [1] [3] [9] | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| ETERNUS DX8000 series [1] [3] [9] | A/A-A | Fibre Channel | Advanced Reporting, Thin Reclamation |
| ETERNUS VS850 | A/A-A | Fibre Channel | |
| ETERNUS2000 series | A/A | Fibre Channel | |
| ETERNUS4000 series [10] [11] [9] | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| ETERNUS8000 series [11] [9] | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |

1. Ensure proper array settings are configured to support this mode.
2. Thin Reclamation is supported with this array. V20L40 or later version of firmware is required to support Thin Reclamation with ETERNUS DX400 series. There are known issues with Reclamation, see <<http://www.veritas.com/docs/TECH164853>> for details.
3. Thin Reclamation when the shared disk is protected by I/O fencing in SF-HA configuration is supported with the certain firmware level of ETERNUS DX S2 arrays. Please consult with the storage vendor for the firmware level.
4. Thin Reclamation when the shared disk is protected by I/O fencing in SF-HA configuration is supported with the following firmware level: ETERNUS DX500 S3 and ETERNUS DX600 S3 are supported with V10L42 or newer.
5. Thin Reclamation is not supported with ETERNUS DX60/DX60 S2/DX80/DX90. ETERNUS DX80 S2 and DX90 S2 are supported with Thin Reclamation with the minimum array firmware V10L10. There are known issues with Reclamation, see <<http://www.veritas.com/docs/TECH164853>> for details.
6. Thin Reclamation when the shared disk is protected by I/O fencing in SF-HA configuration is supported with the following firmware level: ETERNUS DX100 S3, ETERNUS DX200 S3 and ETERNUS DX200F are supported with V10L42 or newer, ETERNUS DX60 S3 is supported with V10L50 or newer.
7. Thin Reclamation is supported with this array. There are known issues with Reclamation, see <<http://www.veritas.com/docs/TECH164853>> for details.
8. Thin Reclamation when the shared disk is protected by I/O fencing in SF-HA configuration is supported with the following firmware level: ETERNUS DX8700 S3 and ETERNUS DX8900 S3 are supported with V10L50 or newer.
9. Thin Reclamation is supported with this array; the minimum array firmware V20L40 are required. There are known issues with Reclamation, see <<http://www.veritas.com/docs/TECH164853>> for details.
10. Excludes ETERNUS4000 models 80 and 100.
11. Thin Reclamation is not supported when the shared disk is protected by I/O fencing in SF-HA configuration.

Generic

| Device/Family | Mode | Interface | Advanced Features |
|---------------|------|---------------|-------------------|
| FC JBOD | A/A | Fibre Channel | |
| SAS JBOD | A/A | SAS | |
| SCSI JBOD | A/A | SCSI | |

Hewlett Packard Enterprise

| Device/Family | Mode | Interface | Advanced Features |
|---|-------|---------------|--|
| 2000 G2 series | A/A-A | Fibre Channel | SAN Boot |
| 3PAR F/T-Class, StoreServ 7000/8000/10000/20000 Storage [1] [2] | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| EVA4100/6100/8100 | A/A-A | Fibre Channel | SAN Boot |
| EVA4400/6400/8400 | A/A-A | Fibre Channel | NDU, SAN Boot |
| MSA 1040 SAN | A/A-A | Fibre Channel | Advanced Reporting, Thin Reclamation |
| MSA 2040 SAN | A/A-A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| P2000 G3 MSA series [3] | A/A-A | Fibre Channel | SAN Boot |
| P6000 EVA series | A/A-A | Fibre Channel | SAN Boot |
| P9500 | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| XP10000/12000 | A/A | Fibre Channel | Advanced Reporting, SAN Boot |
| XP20000/24000 [4] | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| XP7 | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |

1. 3PAR F/T-Class maximum firmware version is 3.1.3; 3PAR StoreServ 7000/10000 minimum firmware version 3.1.2 and StoreServ 8000/20000 minimum firmware version 3.2.2 are required.
2. StoreServ 8000/20000 minimum firmware version 3.2.2 MU1 is required for Thin Reclamation support.
3. For I/O Fencing support, array FW TS250 R023 minimally required.
4. Thin Reclamation is supported with this array; the minimum array firmware 60.06.05-00 is required.

Hitachi

| Device/Family | Mode | Interface | Advanced Features |
|------------------------|------|---------------|--|
| HUS 100 series | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| HUS VM | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| SMS/AMS2000 series [1] | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| USP/NSC series | A/A | Fibre Channel | SAN Boot |
| USPV/USPVM [2] | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| VSP [3] | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| VSP G1000 | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| VSP Gx00/Fx00 series | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |

1. Excludes SMS100.

2. Thin Reclamation is supported with this array; the minimum array firmware 60.06.05-00 is required.

3. Thin Reclamation is supported with this array; the minimum array firmware 70-02-02-00/00 is required.

Huawei

| Device/Family | Mode | Interface | Advanced Features |
|------------------|-------|---------------|--------------------------------------|
| 18000 series [1] | A/A | Fibre Channel | Advanced Reporting, Thin Reclamation |
| S5000 series | A/A-A | Fibre Channel | |
| S5000T series | A/A-A | Fibre Channel | Advanced Reporting, Thin Reclamation |
| VIS series | A/A | Fibre Channel | |

1. The 18000 series A/A only includes 18500, 18800 and 18800F.

IBM

| Device/Family | Mode | Interface | Advanced Features |
|-----------------------------------|-------|---------------|---|
| DS3950 | A/A-A | Fibre Channel | |
| DS5020 | A/A-A | Fibre Channel | |
| FlashSystem series [1] | A/A | Fibre Channel | NDU, SAN Boot |
| Storwize series [2] [3] | A/A-A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| System Storage DS5000 series | A/A-A | Fibre Channel | |
| System Storage DS8000 series | A/A | Fibre Channel | Advanced Reporting, SAN Boot |
| System Storage N series [4] | A/A-A | Fibre Channel | Advanced Reporting, NDU, SAN Boot, Thin Reclamation |
| System Storage XIV series [5] [6] | A/A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |
| System Storage XIV series [6] | A/A-A | Fibre Channel | Advanced Reporting, SAN Boot, Thin Reclamation |

1. Array firmware version 1.2.x.x is required.
2. After added back a previous removed array storage controller for maintenance, issue command "vxdctl enable" to re-discover the controller if the controller is not displayed in the Volume Manager.
3. Thin Reclamation is supported with this array; the minimum array firmware 6.2 is required. Additional steps required to reclaim the storage space, see <http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?infotype=SA&subtype=WH&htmlfid=TSW03164USEN> for detail.
4. A minimum version of ONTAP 7.3.3, ONTAP 8.0.1 7-Mode, or ONTAP 8.1.1 7-Mode is required to support this array. ONTAP 8.x Cluster-Mode is not supported.
5. Thin Reclamation is supported with this array; the minimum array firmware 10.2.2 are required.
6. With array firmware version 10.2.1 or above, the array will be claimed as ALUA mode by DMP.

NetApp

| Device/Family | Mode | Interface | Advanced Features |
|--------------------------------------|-------|---------------|---|
| FAS2000/FAS900/FAS200 series [1] [2] | A/A-A | Fibre Channel | Advanced Reporting, NDU, SAN Boot, Thin Reclamation |
| FAS3000/V3000 series [1] [2] | A/A-A | Fibre Channel | Advanced Reporting, NDU, SAN Boot, Thin Reclamation |
| FAS6000/V6000 series [1] [2] | A/A-A | Fibre Channel | Advanced Reporting, NDU, SAN Boot, Thin Reclamation |
| FAS8000 Series [1] [2] | A/A-A | Fibre Channel | Advanced Reporting, NDU, SAN Boot, Thin Reclamation |

1. A minimum version of ONTAP 7.3.3, ONTAP 8.0.1 and higher versions of 7-Mode are supported.
2. Supports Clustered Data ONTAP (cDOT) version 8.1 or greater with multiple Controller Nodes.

Device Family Membership

EMC

| Device Family | Members |
|-----------------------|---|
| CLARiiON CX4 series | CLARiiON CX4 Model 120, CLARiiON CX4 Model 240, CLARiiON CX4 Model 480, CLARiiON CX4 Model 960 |
| Symmetrix DMX series | Symmetrix DMX 1000, Symmetrix DMX 2000, Symmetrix DMX 3000, Symmetrix DMX 800, Symmetrix DMX-3, Symmetrix DMX-4 |
| Symmetrix VMAX series | Symmetrix VMAX, Symmetrix VMAXe |
| VMAX3 series | VMAX3 |
| VNX series | VNX 5100, VNX 5300, VNX 5500, VNX 5700, VNX 7500 |
| VNX2 series | VNX5200, VNX5400, VNX5600, VNX5800, VNX7600, VNX8000 |
| VNX2e series | VNXe1600, VNXe3200 |

Fujitsu

| Device Family | Members |
|---|---|
| ETERNUS DX400/DX500/DX600 series | ETERNUS DX410, ETERNUS DX410 S2, ETERNUS DX440, ETERNUS DX440 S2, ETERNUS DX500 S3, ETERNUS DX600 S3 |
| ETERNUS DX60/DX80/DX90/DX100/DX200 series | ETERNUS DX100 S3, ETERNUS DX200 S3, ETERNUS DX200F, ETERNUS DX60, ETERNUS DX60 S2, ETERNUS DX60 S3, ETERNUS DX80, ETERNUS DX80 S2, ETERNUS DX90, ETERNUS DX90 S2 |
| ETERNUS DX8000 S3 series | ETERNUS DX8700 S3, ETERNUS DX8900 S3 |
| ETERNUS DX8000 series | ETERNUS DX8100, ETERNUS DX8100 S2, ETERNUS DX8400, ETERNUS DX8700, ETERNUS DX8700 S2 |
| ETERNUS2000 series | ETERNUS2000 Model 100, ETERNUS2000 Model 200, ETERNUS2000 Model 50 |
| ETERNUS4000 series | ETERNUS4000 Model 100, ETERNUS4000 Model 300, ETERNUS4000 Model 400, ETERNUS4000 Model 500, ETERNUS4000 Model 600, ETERNUS4000 Model 80 |
| ETERNUS8000 series | ETERNUS8000 Model 1100, ETERNUS8000 Model 1200, ETERNUS8000 Model 2100, ETERNUS8000 Model 2200, ETERNUS8000 Model 700, ETERNUS8000 Model 800, ETERNUS8000 Model 900 |

Hewlett Packard Enterprise

| Device Family | Members |
|---|---|
| 2000 G2 series | MSA2312fc, MSA2312i, MSA2312sa, MSA2324fc, MSA2324i, MSA2324sa |
| 3PAR F/T-Class, StoreServ 7000/8000/10000/20000 Storage | 3PAR F200 Storage, 3PAR F400 Storage, 3PAR StoreServ 10400 Storage, 3PAR StoreServ 10800 Storage, 3PAR StoreServ 20450 Storage, 3PAR StoreServ 20800 Storage, 3PAR StoreServ 20850 Storage, 3PAR StoreServ 7200 Storage, 3PAR StoreServ 7400 Storage, 3PAR StoreServ 7450 Storage, 3PAR StoreServ 8200 Storage, 3PAR StoreServ 8400 Storage, 3PAR StoreServ 8440 Storage, 3PAR StoreServ 8450 Storage, 3PAR T400 Storage, 3PAR T800 Storage |
| EVA4100/6100/8100 | EVA4100, EVA6100, EVA8100 |
| EVA4400/6400/8400 | EVA4400, EVA6400, EVA8400 |
| P2000 G3 MSA series | P2000 G3 FC, P2000 G3 FC/iSCSI, P2000 G3 iSCSI, P2000 G3 SAS |
| P6000 EVA series | P6300, P6350, P6500, P6550 |
| XP10000/12000 | XP10000, XP12000 |
| XP20000/24000 | XP20000, XP24000 |

Hitachi

| Device Family | Members |
|----------------------|--|
| HUS 100 series | HUS110, HUS130, HUS150 |
| SMS/AMS2000 series | AMS2100, AMS2300, AMS2500, SMS100 |
| USP/NSC series | NSC55, USP100, USP1100, USP600 |
| USPV/USPVM | USP V, USP VM |
| VSP Gx00/Fx00 series | VSP F400, VSP F600, VSP F800, VSP G200, VSP G400, VSP G600, VSP G800 |

Huawei

| Device Family | Members |
|---------------|---|
| 18000 series | 18500, 18800, 18800F, HVS85T, HVS88T |
| S5000 series | S2100, S2300, S2300E, S2600, S5100, S5300, S5500, S5600, S6800E, V1500, V1800 |
| S5000T series | Dorado2100, Dorado2100G2, Dorado5100, OceanStor 18500 V3, OceanStor 18800 V3, OceanStor 5300 V3, OceanStor 5500 V3, OceanStor 5600 V3, OceanStor 5800 V3, OceanStor 6800 V3, OceanStor 6900 V3, S2200T, S2600T, S2600T V2, S3900-M100, S3900-M200, S3900-M300, S5500T, S5500T V2, S5600T, S5600T V2, S5800T, S5800T V2, S5900-M100, S5900-M200, S6800T, S6800T V2, S6900-M100 |
| VIS series | S8000, VIS6000, VIS6000T |

IBM

| Device Family | Members |
|------------------------------|--|
| FlashSystem series | FlashSystem 710, FlashSystem 820, FlashSystem 840, FlashSystem 900 |
| Storwize series | FlashSystem V9000, SANVC(2145), Storwize V3500, Storwize V3700, Storwize V5000, Storwize V7000, Storwize V7000 Unified |
| System Storage DS5000 series | DS5100, DS5300 |
| System Storage DS8000 series | DS8000, DS8100, DS8300, DS8700, DS8800, DS8870 |

IBM

| Device Family | Members |
|---------------------------|---|
| System Storage N series | N3150, N3220, N3240, N3300, N3400, N3600, N3700, N5200, N5300, N5500, N5600, N6040, N6060, N6070, N6210, N6220, N6240, N6250, N6270, N7550T, N7600, N7700, N7750T, N7800, N7900, N7950T |
| System Storage XIV series | XIV Storage System, XIV Storage System Gen3 |

NetApp

| Device Family | Members |
|------------------------------|--|
| FAS2000/FAS900/FAS200 series | FAS2020, FAS2040, FAS2050, FAS2220, FAS2240-2, FAS2240-4, FAS250, FAS2520, FAS2552, FAS2554, FAS270, FAS920, FAS940, FAS960, FAS980 |
| FAS3000/V3000 series | FAS3020, FAS3040, FAS3050, FAS3070, FAS3140, FAS3160, FAS3170, FAS3210, FAS3220, FAS3240, FAS3250, FAS3270, V3020, V3040, V3050, V3070, V3140, V3160, V3170, V3210, V3220, V3240, V3250, V3270 |
| FAS6000/V6000 series | FAS6030, FAS6040, FAS6070, FAS6080, FAS6210, FAS6220, FAS6240, FAS6250, FAS6280, FAS6290, V6030, V6040, V6070, V6080, V6210, V6220, V6240, V6250, V6280, V6290 |
| FAS8000 Series | FAS8020, FAS8040, FAS8060, FAS8080EX |

Host Bus Adapters

The information presented here does not refer to specific host bus adapter (HBA) models or architectures. Unless stated otherwise, Storage Foundation supports all the HBAs that are supported by the OS and storage array manufacturers. Storage Foundation includes support for Fibre Channel over Ethernet (FCoE) Converged Network Adapters (CNAs), but not iSCSI HBAs. For the required HBA BIOS/firmware and driver versions, see the operating system and storage array manufacturers' hardware compatibility support matrices.

For HP-UX Fibre Channel and FlexFabric FCoE Host Bus Adapter Support Matrix information, see -

http://h20565.www2.hp.com/hpsc/doc/public/display?sp4ts.oid=5039733&docId=emr_na-c03056605&docLocale=en_US

Generic RAID SCSI/SAS/e-SATA Controller (Internal Card With External Storage Attached)

All RAID SCSI/SAS/e-SATA Controllers shown here were tested with drivers and firmware supported by the OS and the storage vendors. Check with these vendors for:

- Minimum driver and firmware levels
- Specific driver and firmware support
- Support for the stated Veritas products
- Other functional options

NOTE: Mode page 83 SCSI inquiry and native OS SCSI driver support are required. For more details, check with the hardware manufacturer. Symantec recommends adding SCSI3 conformant disk support.

Switches

The information presented here does not refer to specific switch models or architectures.

Unless stated otherwise, Storage Foundation supports all Fibre Channel switches that are supported by the OS and storage array manufacturers listed here. For the required BIOS/firmware and driver versions for the switches, see the operating system and storage array manufacturers' hardware compatibility support matrices.

The information presented here is only to add exceptions for switch models that have issues and are therefore not supported by the Storage Foundation products listed.