

# Veritas InfoScale Foundation, Availability, Storage and Enterprise Solutions 8.0 (AIX, Linux, Solaris) Hardware Compatibility List

# Introduction

Created on March 10, 2023

This Hardware Compatibility List (HCL) contains support information for hardware products tested with the following Veritas InfoScale Foundation, Availability, Storage and Enterprise Solutions product releases and platforms:

- InfoScale 8.0 for AIX, Linux, Solaris.

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 8.0 InfoScale 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 InfoScale products 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 for the product stack under which it appears. 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.

**NOTE:** The Dynamic Multi-Pathing (DMP) OS native stack support feature is supported. DMP OS native stack support allows OS native volume groups or file systems operate over DMP devices. This feature is available as LVM on Linux RHEL7, RHEL8, SLES 12 and SLES 15.

**NOTE:** The new functionality and cumulative fixes of the ASL/APM are delivered through the updated VRTSaslapm package to ensure proper functioning of the storage hardware. The latest VRTSaslapm package can be found at [https://www.veritas.com/content/support/en\\_US/downloads](https://www.veritas.com/content/support/en_US/downloads) .

## Product Acronyms

Acronym	Definition
InfoScale Foundation + Availability	InfoScale Foundation + InfoScale Availability
InfoScale Storage / Storage + Availability / Enterprise	InfoScale Storage, InfoScale Storage + InfoScale Availability, InfoScale Enterprise

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# Servers

Servers are listed on the basis of their processor architecture.

## Support Legend

Symbol	Meaning
Yes	Supported
No	Not supported

## AIX

Processor architecture	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise
Power7 series	Yes	Yes	Yes
Power7+ series	Yes	Yes	Yes
Power8 series	Yes	Yes	Yes
Power9 series	Yes	Yes	Yes
Power10 series	Yes	Yes	Yes
PowerPC 970MP series	Yes	Yes	Yes

## Linux - Red Hat/SUSE

Processor architecture	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise
AMD Opteron architecture <a href="#">[1]</a>	Yes	Yes	Yes
Intel EM64T architecture <a href="#">[1]</a>	Yes	Yes	Yes

1. Supports only the 64-bit versions of the software stacks.

# Solaris

Processor architecture	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise
SPARC M5 series [1]	Yes	Yes	Yes
SPARC M6 series [1]	Yes	Yes	Yes
SPARC M7 series [1] [2]	Yes	Yes	Yes
SPARC S7 series [1]	Yes	Yes	Yes
SPARC T3 series [1]	Yes	Yes	Yes
SPARC T4 series [1]	Yes	Yes	Yes
SPARC T5 series [1]	Yes	Yes	Yes
SPARC T7 series [1] [2]	Yes	Yes	Yes
SPARC T8 series [1] [2]	Yes	Yes	Yes
SPARC64-V series	Yes	Yes	Yes
SPARC64-VI series	Yes	Yes	Yes
SPARC64-VII/II+ series	Yes	Yes	Yes
SPARC64-X series [1]	Yes	Yes	Yes
SPARC64 X+ series [1]	Yes	Yes	Yes
SPARC64 XII series [1]	Yes	Yes	Yes
UltraSPARC II series	Yes	Yes	Yes
UltraSPARC III series	Yes	Yes	Yes
UltraSPARC IV series	Yes	Yes	Yes
UltraSPARC T1 series [1]	Yes	Yes	Yes
UltraSPARC T2/T2+ series [1]	Yes	Yes	Yes

1. Oracle VM Server for SPARC supported. See the following TechNote: <http://www.veritas.com/docs/DOC5860> .

2. eUSB device is not supported.

# 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
Cisco	UCS Platform	FCoE M72KR-Q, 10GbE
HP	Virtual Connect Module	FC, 1GbE, 10GbE
Oracle	Sun Blade Modular Systems	FC, 1GbE, 10GbE

# Disk Arrays and Storage Devices

Storage arrays qualified with InfoScale Foundation and Availability or InfoScale Storage/Enterprise were tested with fencing enabled.

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
- Support for the stated Veritas products
- 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 Dell 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. When a hardware-specific feature is listed, it applies to all product stacks.

**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 InfoScale Foundation 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.
Fencing	Supported with fencing	Veritas I/O fencing is supported for Storage Foundation products. Veritas I/O fencing uses SCSI3 PGR capable devices to allow write access to members of the active cluster. If a split-brain condition occurs, Veritas I/O fencing blocks access to non-members and help in fencing out nodes to prevent data corruption.
Advanced Reporting	Advanced Reporting supported	Support reporting special properties of a LUN discovered by the Device Discovery Layer (DDL) that helps storage administration. See < <a href="http://www.veritas.com/docs/TECH231389">http://www.veritas.com/docs/TECH231389</a> > 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.
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 < <a href="http://www.veritas.com/docs/TECH231389">http://www.veritas.com/docs/TECH231389</a> > 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 <b>explicit</b> 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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<u><a href="#">Solaris</a></u>	<u><a href="#">Device Family Membership</a></u>	

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# AIX

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

For details on Advanced Reporting support, see: <http://www.veritas.com/docs/TECH231389> .

For details on Thin Reclamation support, see: <http://www.veritas.com/docs/TECH231389> .

**NOTE:** DMP is supported in VIO server (VIOS), and VIO client (VIOC). All the arrays listed here are supported with DMP in VIO server or client with the 6.1 release.

**NOTE:** Array manufacturer Object Data Manager (ODM) definitions are required with MPIO disabled for DMP to manage multi-pathing. See: <http://www.veritas.com/docs/HOWTO21854> .

**NOTE:** For information on InfoScale Foundation DMP co-existence with OS native multi-pathing driver MPIO on AIX, see TechNote <http://www.veritas.com/docs/TECH51507> .

## Dell EMC

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
PowerMax series [1]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
PowerStore series [2]	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Symmetrix DMX series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
Symmetrix DMX series with PowerPath	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Symmetrix VMAX series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
Symmetrix VMAX series with PowerPath	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Symmetrix VMAX series with AIX VIO	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
Unity series [3]	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, SAN Boot, Thin Reclamation
Unity series with PowerPath [3]	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Unity XT series [3]	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	
VMAX3/VMAX All Flash Family series [4]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VMAX3/VMAX All Flash Family series with PowerPath [4]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VNX series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VNX series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VNX series with PowerPath	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VNX2 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
VNX2 series with PowerPath	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	



## Dell EMC

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
VNX2e series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VNX2e series with PowerPath	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VPLEX [5]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
VPLEX with PowerPath [5]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
XtremIO [6]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
XtremIO with PowerPath [6]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

1. PowerMax with PowerPath and SRDF/Metro is supported

2. PowerPath and Thin Reclamation is supported

3. With Unity OE 5.2, Veritas I/O fencing functionality is impacted. Please refer Dell Article Number: 000201773 - <https://www.dell.com/support/kbdoc/en-uk/000201773/unity-code-5-2-not-compatible-with-veritas> for the hotfix and Veritas KB article / technote - [https://www.veritas.com/content/support/en\\_US/article.100053670](https://www.veritas.com/content/support/en_US/article.100053670) .

4. VMAX/VMAX3 with PowerPath and SRDF/Metro is supported

5. Includes VS2 and VS6

6. Includes X1 and X2

## Fujitsu

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
ETERNUS DX400/DX500/DX600 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
ETERNUS DX400/DX500/DX600 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
ETERNUS DX60/DX80/DX90/DX100/DX200 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
ETERNUS DX60/DX80/DX90/DX100/DX200 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
ETERNUS DX8000 S3/S4 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
ETERNUS DX8000 S3/S4 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
ETERNUS DX8000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
ETERNUS DX8000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
ETERNUS VS850	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
ETERNUS2000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
ETERNUS4000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
ETERNUS8000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation

## Generic

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
FC JBOD	A/A	Yes	Yes	No	Fibre Channel	
FC JBOD	A/A-A	Yes	Yes	No	Fibre Channel	
SCSI JBOD	A/A	Yes	Yes	No	SCSI	

## Hewlett Packard Enterprise

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
3PAR F/T-Class, StoreServ 7000/8000/9000/10000/20000 Storage [1]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
Alletra 9000 Storage	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot, Thin Reclamation
MSA 2050 Storage	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting
P9500	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
Primera 600 Storage	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot, Thin Reclamation
XP7 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation

1. Disk based IO Fencing cannot be supported for HPE 3PAR in Legacy (Active-Passive) Peer Persistence / Remote Copy / Peer Motion configuration due to known limitations. HPE 3PAR in Active (Active-Active) Peer Persistence / Remote Copy / Peer Motion configuration is fully supported.

## Hitachi Vantara

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
HUS 100 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
HUS VM	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
SMS/AMS2000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
SMS/AMS2000 series with AIX VIO	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
VSP	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VSP 5000 series [1]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## Hitachi Vantara

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
VSP E series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	NDU
VSP G series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VSP Gx00/Fx00 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VSP Gx00/Fx00 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

1. For NVMe-oF devices, disk based fencing cannot be supported as NVMe-oF disks do not support PGR. So this is a limitation at present. But CP server based fencing is supported.

## Huawei

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
18000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
18000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
OceanStor Series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
S5000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VIS series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## IBM

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
DS3950	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
FlashSystem series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot
Spectrum Virtualize series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
Spectrum Virtualize series with AIX VIO	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
Storwize series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
Storwize series with AIX VIO	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot

## IBM

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
System Storage DS8000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, PCIe	Advanced Reporting, SAN Boot, Thin Reclamation
System Storage DS8000 series with AIX VIO	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
System Storage XIV series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot, Thin Reclamation
System Storage XIV series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation

## Infinidat

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
InfiniBox F-Series with AIX VIO	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## MacroSAN

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
MS series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## NEC

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
iStorage M series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## NetApp

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
AFF Series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
FAS2000/FAS900/FAS200 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
FAS3000/V3000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
FAS6000/V6000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
FAS8000/FAS9000 Series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation

## Oracle

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
Storage 6580/6780 series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	NDU
StorageTek 2500 series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
StorageTek 6140 array	A/P	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
StorageTek 9900 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
StorageTek 9985/9990 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
StorageTek 9985V system	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Sun Storage 6180 array	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## Pure Storage

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
FlashArray series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
FlashArray series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Thin Reclamation

## Sun

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
StorageTek 6540	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## Violin Memory

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
Violin 3000/6000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	NDU, SAN Boot
Violin 3000/6000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot

# Linux (Red Hat/Oracle/CentOS)

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

For details on Advanced Reporting support, see: <http://www.veritas.com/docs/TECH231389> .

For details on Thin Reclamation support, see: <http://www.veritas.com/docs/TECH231389> .

**NOTE:** The DMP tunable dmp\_fast\_recovery needs to be set to off with iSCSI storage array configuration.

**NOTE:** With Oracle Linux, only supports RHEL compatible mode.

## Amazon

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
Elastic Block Store	A/A	Yes	Yes	Yes	Xen_Virtual	
Instance Store	A/A	Yes	Yes	Yes	Xen_Virtual	Advanced Reporting, Thin Reclamation

## Dell EMC

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
CLARiiON AX series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
EqualLogic PS3000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
EqualLogic PS4000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
EqualLogic PS6000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
PowerMax series [1]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting
PowerStore series [2]	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
PowerVault MD38xx Series	A/A-A	Yes	Yes, Fencing	No	Fibre Channel	
SC Series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
ScaleIO	A/A	Yes	Yes, Fencing	Yes, Fencing	Ethernet	
Symmetrix DMX series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
Symmetrix VMAX series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
Symmetrix VMAX series with PowerPath	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Unity series [3]	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, SAN Boot, Thin Reclamation

# Dell EMC

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
Unity series with PowerPath [3]	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Unity XT series [3]	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	NDU
VMAX3/VMAX All Flash Family series [4]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VMAX3/VMAX All Flash Family series with PowerPath [4]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VNX series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, SAN Boot, Thin Reclamation
VNX series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, SAN Boot, Thin Reclamation
VNX series with PowerPath	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	
VNX series with PowerPath	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VNX2 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VNX2 series with PowerPath	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VNX2e series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VNX2e series with PowerPath	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VPLEX [5]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VPLEX with PowerPath [5]	A/A	Yes	Yes, Fencing	Yes	Fibre Channel	
WD 7502ABYS	A/A	Yes	Yes, Fencing	Yes	SATA	
XtremIO [6]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, Thin Reclamation
XtremIO with PowerPath [6]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

1. PowerMax with PowerPath and SRDF/Metro is supported

2. PowerPath and Thin Reclamation is supported

3. With Unity OE 5.2, Veritas I/O fencing functionality is impacted. Please refer Dell Article Number: 000201773 - <https://www.dell.com/support/kbdoc/en-uk/000201773/unity-code-5-2-not-compatible-with-veritas> for the hotfix and Veritas KB article / technote [https://www.veritas.com/content/support/en\\_US/article.100053670](https://www.veritas.com/content/support/en_US/article.100053670) .

4. VMAX/VMAX3 with PowerPath and SRDF/Metro is supported

5. Includes VS2 and VS6

6. Includes X1 and X2



## Fujitsu

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
ETERNUS DX400/DX500/DX600 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX400/DX500/DX600 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX60/DX80/DX90/DX100/DX200 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX60/DX80/DX90/DX100/DX200 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX8000 S3/S4 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX8000 S3/S4 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX8000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX8000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS VS850	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
ETERNUS2000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
ETERNUS4000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, Thin Reclamation
ETERNUS8000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation

## Generic

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
FC JBOD	A/A	Yes	Yes	No	Fibre Channel	
FC JBOD	A/A-A	Yes	Yes	No	Fibre Channel	
SCSI JBOD	A/A	Yes	Yes	No	SCSI	

## Hewlett Packard Enterprise

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
3PAR F/T-Class, StoreServ 7000/8000/9000/10000/20000 Storage [1]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
Alletra 5000 Series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Alletra 6000 Series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Thin Reclamation
Alletra 9000 Storage	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot, Thin Reclamation
Alletra 9000 Storage	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
MK0200GEYKC	A/A	Yes	Yes	Yes	SATA	
MSA 1040 SAN	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
MSA 2040 SAN	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
MSA 2050 Storage	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting
MSA 2060 Storage	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting
MSA2000fc series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
MSA2012sa	A/A-A	Yes	Yes	No	SAS	
P9500	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
Primera 600 Storage	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot, Thin Reclamation
Primera 600 Storage	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
XP7 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
XP8 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

1. Disk based IO Fencing cannot be supported for HPE 3PAR in Legacy (Active-Passive) Peer Persistence / Remote Copy / Peer Motion configuration due to known limitations. HPE 3PAR in Active (Active-Active) Peer Persistence / Remote Copy / Peer Motion configuration is fully supported.

## Hitachi Vantara

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
HUS 100 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
HUS VM	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
SMS/AMS2000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting
VSP	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VSP 5000 series [1]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, NVMe-oF	NDU

## Hitachi Vantara

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
VSP E series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	NDU
VSP G series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, Thin Reclamation
VSP Gx00/Fx00 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation

1. For NVMe-oF devices, disk based fencing cannot be supported as NVMe-oF disks do not support PGR. So this is a limitation at present. But CP server based fencing is supported.

## Huawei

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
18000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
18000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
ES3000 V2	A/A	Yes	Yes, Fencing	Yes	PCIe	Advanced Reporting, Thin Reclamation
OceanStor Series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, Thin Reclamation
S5000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VIS series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## IBM

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
FlashSystem series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, InfiniBand	Advanced Reporting, NDU, SAN Boot
Spectrum Virtualize series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
Storwize series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
System Storage DS3000 series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI, SAS	
System Storage DS3500 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, SAS	SAN Boot
System Storage DS3500 series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, SAS	Advanced Reporting
System Storage DS8000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation

## IBM

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
System Storage XIV series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
System Storage XIV series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation

## Imation

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
Nexsan E-Series Systems	A/A-A	Yes	Yes, Fencing	No	Fibre Channel	

## Infinidat

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
InfiniBox F-Series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	NDU
InfiniBox F-Series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Thin Reclamation

## Intel

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
DC P3700	A/A	Yes	Yes, Fencing	Yes	PCIe	
Optane SSD DC P4800X Series	A/A	Yes	No	No	PCIe	
SSD 910	A/A	Yes	No	No	PCIe	

## Kaminario

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
K2	A/A	Yes	Yes, Fencing	No	Fibre Channel	

## KOVE

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
EMX	A/A	Yes	Yes	Yes	InfiniBand	

## MacroSAN

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
MS series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, Thin Reclamation

## Micron

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
MTFDHAX1T6MCE-1A	A/A	Yes	No	Yes	PCIe	

## Microsoft

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
Azure	A/A	Yes	No	Yes	Ethernet	

## NEC

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
iStorage D1/D3 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
iStorage D8 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
iStorage M series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	NDU, SAN Boot
iStorage M5000	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Symmetrix DMX-4	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot
Symmetrix DMX-4 with PowerPath	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Symmetrix VMAX	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting
Symmetrix VMAX with PowerPath	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## NetApp

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
AFF Series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
ASA AFF Series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	
E_SERIES	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, InfiniBand	Advanced Reporting, NDU
FAS2000/FAS900/FAS200 series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
FAS2000/FAS900/FAS200 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	FCoE, Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
FAS3000/V3000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
FAS3000/V3000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	FCoE, Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
FAS6000/V6000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
FAS6000/V6000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	FCoE, Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
FAS8000/FAS9000 Series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
FAS8000/FAS9000 Series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	FCoE, Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation

## Nexsan

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
Beast Systems	A/A-A	Yes	Yes, Fencing	No	Fibre Channel	

## NimbleStorage

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
CS/AF/HF-Series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, Thin Reclamation

## Oracle

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
FS1-2	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
FS1-2	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Storage 6580/6780 series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU
StorageTek 2500 series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI, SAS	
StorageTek 6140 array	A/P	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
StorageTek 9900 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
StorageTek 9985/9990 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
StorageTek 9985V system	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
StorageTek 9990V system	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Sun Storage 6180 array	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	NDU
ZFS Storage Appliance series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU

## Pure Storage

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
FlashArray series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
FlashArray series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Thin Reclamation

## Samsung

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
PM1725	A/A	Yes	No	No	PCIe	

## SanDisk

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
ioDrive	A/A	Yes	Yes	Yes	PCIe	Advanced Reporting, Thin Reclamation
ioDrive Duo	A/A	Yes	No	No	PCIe	Advanced Reporting, AtomicIO, Thin Reclamation
ioDrive2	A/A	Yes	Yes	Yes	PCIe	Advanced Reporting, AtomicIO, Thin Reclamation
ioMemory PX600 series	A/A	Yes	Yes	Yes	PCIe	Advanced Reporting, Thin Reclamation
ioMemory SX300 series	A/A	Yes	Yes	Yes	PCIe	Advanced Reporting, Thin Reclamation
ioMemory SX350 series	A/A	Yes	Yes	Yes	PCIe	Advanced Reporting, Thin Reclamation
ION Data Accelerator	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, InfiniBand	NDU
ioScale2	A/A	Yes	No	No	PCIe	Advanced Reporting, Thin Reclamation

## Shannon

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
Direct-IO	A/A	Yes	Yes, Fencing	Yes	PCIe	



## sTec

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
s1120	A/A	Yes	Yes	Yes	PCIe	Advanced Reporting

## StorageTek

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
FlexLine 200/300 series	A/P	Yes	Yes	No	Fibre Channel	

## Sun

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
StorEdge 3510/3511	A/A	Yes	Yes, Fencing	No	Fibre Channel	

## Violin Memory

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
Violin 3000/6000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot
Violin 3000/6000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot

# Linux (SUSE)

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

For details on Advanced Reporting support, see: <http://www.veritas.com/docs/TECH231389> .

For details on Thin Reclamation support, see: <http://www.veritas.com/docs/TECH231389> .

**NOTE:** The DMP tunable `dmp_fast_recovery` needs to be set to off with iSCSI storage array configuration.

## Dell EMC

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
EqualLogic PS3000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
EqualLogic PS4000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
EqualLogic PS6000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
PowerStore series [1]	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
SC Series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, Thin Reclamation
ScaleIO	A/A	Yes	Yes, Fencing	Yes, Fencing	Ethernet	
Symmetrix DMX series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
Symmetrix DMX series with PowerPath	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Symmetrix VMAX series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
Symmetrix VMAX series with PowerPath	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Unity series [2]	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Unity series with PowerPath [2]	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VMAX3/VMAX All Flash Family series [3]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VMAX3/VMAX All Flash Family series with PowerPath [3]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VNX series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, SAN Boot, Thin Reclamation
VNX series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, SAN Boot, Thin Reclamation
VNX series with PowerPath	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VNX2 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VNX2 series with PowerPath	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VNX2e series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## Dell EMC

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
VNX2e series with PowerPath	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VPLEX [4]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VPLEX with PowerPath [4]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
WD 7502ABYS	A/A	Yes	Yes	Yes	SATA	
XtremIO [5]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	
XtremIO with PowerPath [5]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

1. PowerPath and Thin Reclamation is supported

2. With Unity OE 5.2, Veritas I/O fencing functionality is impacted. Please refer Dell Article Number: 000201773 - <https://www.dell.com/support/kbdoc/en-uk/000201773/unity-code-5-2-not-compatible-with-veritas> for the hotfix and Veritas KB article / technote [https://www.veritas.com/content/support/en\\_US/article.100053670](https://www.veritas.com/content/support/en_US/article.100053670) .

3. VMAX/VMAX3 with PowerPath and SRDF/Metro is supported

4. Includes VS2 and VS6

5. Includes X1 and X2

## Fujitsu

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
ETERNUS DX400/DX500/DX600 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX400/DX500/DX600 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX60/DX80/DX90/DX100/DX200 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX60/DX80/DX90/DX100/DX200 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX8000 S3/S4 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX8000 S3/S4 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX8000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX8000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS VS850	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## Fujitsu

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
ETERNUS2000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
ETERNUS4000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
ETERNUS8000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
FibreCAT SX80/100 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## Generic

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
FC JBOD	A/A	Yes	Yes	No	Fibre Channel	
FC JBOD	A/A-A	Yes	Yes	No	Fibre Channel	
SCSI JBOD	A/A	Yes	Yes	No	SCSI	

## Hewlett Packard Enterprise

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
3PAR F/T-Class, StoreServ 7000/8000/9000/10000/20000 Storage [1]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
Alletra 9000 Storage	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot, Thin Reclamation
MSA 1040 SAN	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
MSA 2040 SAN	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
MSA 2050 Storage	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting
MSA 2060 Storage	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
MSA2000fc series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
MSA2012sa	A/A-A	Yes	Yes	No	SAS	
P9500	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
Primera 600 Storage	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot, Thin Reclamation
XP7 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

1. Disk based IO Fencing cannot be supported for HPE 3PAR in Legacy (Active-Passive) Peer Persistence / Remote Copy / Peer Motion configuration due to known limitations. HPE 3PAR in Active (Active-Active) Peer Persistence / Remote Copy / Peer Motion configuration is fully supported.

## Hitachi Vantara

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
HUS 100 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
HUS VM	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
SMS/AMS2000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
VSP	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VSP 5000 series [1]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, NVMe-oF	
VSP G series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VSP Gx00/Fx00 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation

1. For NVMe-oF devices, disk based fencing cannot be supported as NVMe-oF disks do not support PGR. So this is a limitation at present. But CP server based fencing is supported.

## Huawei

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
18000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
18000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
OceanStor Series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
S5000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VIS series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## IBM

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
DS3950	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
FlashSystem series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot
Spectrum Virtualize series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, SAN Boot, Thin Reclamation
Storwize series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, SAN Boot, Thin Reclamation
System Storage DS3000 series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, SAS	
System Storage DS3500 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, SAS	Advanced Reporting, SAN Boot
System Storage DS3500 series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting
System Storage DS8000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
System Storage XIV series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
System Storage XIV series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation

## Infotrend

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
ESVA-F75-2830	A/A-A	Yes	Yes, Fencing	No	Fibre Channel	NDU

## Intel

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
DC P3700	A/A	Yes	Yes, Fencing	Yes	PCIe	
SSD 910	A/A	Yes	Yes	Yes	PCIe	Advanced Reporting

## NetApp

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
AFF Series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
E_SERIES	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU
FAS2000/FAS900/FAS200 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
FAS3000/V3000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
FAS6000/V6000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
FAS8000/FAS9000 Series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation

## Oracle

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
FS1-2	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
Storage 6580/6780 series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	NDU
StorageTek 2500 series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI, SAS	
StorageTek 6140 array	A/P	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
StorageTek 9900 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
StorageTek 9985/9990 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
StorageTek 9985V system	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
StorageTek 9990V system	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Sun Storage 6180 array	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU

## Pure Storage

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
FlashArray series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation

## SanDisk

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
ioDrive	A/A	Yes	Yes	Yes	PCIe	Advanced Reporting, Thin Reclamation
ioDrive2	A/A	Yes	Yes	Yes	PCIe	Advanced Reporting, Thin Reclamation
ioMemory PX600 series	A/A	Yes	No	No	PCIe	Advanced Reporting, Thin Reclamation
ION Data Accelerator	A/A-A	Yes	Yes, Fencing	No	Fibre Channel	

## sTec

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
s1120	A/A	Yes	Yes	Yes	PCIe	Advanced Reporting

## StorageTek

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
FlexLine 200/300 series	A/P	Yes	Yes	No	Fibre Channel	



# Violin Memory

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
Violin 3000/6000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot

# Solaris

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

For details on Advanced Reporting support, see: <http://www.veritas.com/docs/TECH231389> .

For details on Thin Reclamation support, see: <http://www.veritas.com/docs/TECH231389> .

**NOTE:** Direct-Attach (no switch) Configurations:

- All array types are supported in direct-attach configurations with InfoScale Foundation and Availability products.
- A/A type arrays are supported in direct-attach configurations with the InfoScale Storage and InfoScale Enterprise products.
- Inquire with the array manufacturer for specific limitations of use.

**NOTE:** For information on InfoScale Foundation DMP co-existence with OS native multi-pathing driver MPxIO on Solaris, see TechNote <http://www.veritas.com/docs/TECH204060> .

# Dell EMC

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
EqualLogic PS3000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
EqualLogic PS4000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
EqualLogic PS6000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
PowerMax series [1]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting
PowerStore series [2]	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
SC Series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Symmetrix DMX series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
Symmetrix DMX series with PowerPath	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Symmetrix VMAX series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
Symmetrix VMAX series with PowerPath	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Unity series [3]	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	SAN Boot
Unity series with PowerPath [3]	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Unity XT series [3]	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	
VMAX3/VMAX All Flash Family series [4]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VMAX3/VMAX All Flash Family series with PowerPath [4]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## Dell EMC

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
VNX series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
VNX series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, SAN Boot, Thin Reclamation
VNX series with PowerPath	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VNX series with PowerPath	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	
VNX2 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
VNX2 series with PowerPath	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VNX2e series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
VNX2e series with PowerPath	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VPLEX [5]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
VPLEX with PowerPath [5]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
XtremIO [6]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	
XtremIO with PowerPath [6]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

1. PowerMax with PowerPath and SRDF/Metro is supported

2. PowerPath and Thin Reclamation is supported

3. With Unity OE 5.2, Veritas I/O fencing functionality is impacted. Please refer Dell Article Number: 000201773 - <https://www.dell.com/support/kbdoc/en-uk/000201773/unity-code-5-2-not-compatible-with-veritas> for the hotfix and Veritas KB article / technote - [https://www.veritas.com/content/support/en\\_US/article.100053670](https://www.veritas.com/content/support/en_US/article.100053670) .

4. VMAX/VMAX3 with PowerPath and SRDF/Metro is supported

5. Includes VS2 and VS6

6. Includes X1 and X2

## Fujitsu

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
ETERNUS DX400/DX500/DX600 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX400/DX500/DX600 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation

## Fujitsu

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
ETERNUS DX60/DX80/DX90/DX100/DX200 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX60/DX80/DX90/DX100/DX200 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX8000 S3/S4 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX8000 S3/S4 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX8000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS DX8000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS VS850	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
ETERNUS2000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
ETERNUS4000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
ETERNUS8000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
FibreCAT SX80/100 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## Generic

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
FC JBOD	A/A	Yes	Yes	No	Fibre Channel	
FC JBOD	A/A-A	Yes	Yes	No	Fibre Channel	
SAS JBOD	A/A	Yes	Yes	No	SAS	
SCSI JBOD	A/A	Yes	Yes	No	SCSI	

## Hewlett Packard Enterprise

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
3PAR F/T-Class, StoreServ 7000/8000/9000/10000/20000 Storage [1]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
Alletra 9000 Storage	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot, Thin Reclamation
MSA 2050 Storage	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting
P9500	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
Primera 600 Storage	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot, Thin Reclamation
XP10000/12000	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
XP20000/24000	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
XP7 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
XP8 series [2]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

1. Disk based IO Fencing cannot be supported for HPE 3PAR in Legacy (Active-Passive) Peer Persistence / Remote Copy / Peer Motion configuration due to known limitations. HPE 3PAR in Active (Active-Active) Peer Persistence / Remote Copy / Peer Motion configuration is fully supported.

2. May observe unexpected results with Emulex HBA card.

## Hitachi Vantara

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
HUS 100 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
HUS VM	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, Thin Reclamation
SMS/AMS2000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Thin Reclamation
VSP	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VSP 5000 series [1]	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	NDU
VSP E series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	NDU
VSP G series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
VSP Gx00/Fx00 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation

1. For NVMe-oF devices, disk based fencing cannot be supported as NVMe-oF disks do not support PGR. So this is a limitation at present. But CP server based fencing is supported.

## Huawei

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
18000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
OceanStor Series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
S5000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
VIS series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## IBM

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
DS3950	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
FlashSystem series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot
Spectrum Virtualize series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, SAN Boot, Thin Reclamation
Spectrum Virtualize series	A/P	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting
Storwize series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, SAN Boot, Thin Reclamation
Storwize series	A/P	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting
System Storage DS3500 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, SAS	SAN Boot
System Storage DS3500 series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, SAS	
System Storage DS8000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot, Thin Reclamation
System Storage XIV series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot, Thin Reclamation
System Storage XIV series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation

## Imation

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
Nexsan E-Series Systems	A/A-A	Yes	Yes	No	Fibre Channel	

## Infinidat

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
InfiniBox F-Series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## Kaminario

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
K2	A/A	Yes	Yes, Fencing	No	Fibre Channel	

## NEC

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
iStorage D1/D3 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
iStorage D8 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
iStorage M series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	NDU, SAN Boot
iStorage M5000	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
iStorage S1000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
iStorage S2000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Symmetrix DMX-4	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, SAN Boot
Symmetrix DMX-4 with PowerPath	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Symmetrix VMAX	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting
Symmetrix VMAX with PowerPath	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## NetApp

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
AFF Series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
FAS2000/FAS900/FAS200 series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
FAS2000/FAS900/FAS200 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
FAS3000/V3000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
FAS3000/V3000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
FAS6000/V6000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
FAS6000/V6000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
FAS8000/FAS9000 Series	A/A	Yes	Yes, Fencing	Yes, Fencing	iSCSI	
FAS8000/FAS9000 Series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	Advanced Reporting, NDU, SAN Boot, Thin Reclamation

## Nexsan

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
Beast Systems	A/A-A	Yes	Yes, Fencing	No	Fibre Channel	

## Oracle

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
Axiom series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	NDU
F320	A/A	Yes	No	Yes	PCIe	
F40	A/A	Yes	No	No	PCIe	
F80	A/A	Yes	No	Yes	PCIe	
FS1-2	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
Storage 6580/6780 series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	NDU
StorageTek 2500 series	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI, SAS	



## Oracle

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
StorageTek 6140 array	A/P	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
StorageTek 9900 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
StorageTek 9985/9990 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot
StorageTek 9985V system	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot, Thin Reclamation
StorageTek 9990V system	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot, Thin Reclamation
Sun Storage 6180 array	A/P-F	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	NDU
ZFS Storage Appliance series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	NDU

## Pure Storage

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
FlashArray series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Advanced Reporting, NDU, SAN Boot, Thin Reclamation
FlashArray series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel, iSCSI	Thin Reclamation

## StorageTek

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
FlexLine 200/300 series	A/P	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## Sun

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
StorageTek 3310	A/A	Yes	Yes, Fencing	Yes, Fencing	SCSI	
StorageTek 3320	A/A	Yes	Yes, Fencing	Yes, Fencing	SCSI	
StorageTek 6130	A/P	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	
StorageTek 6540	A/P-F	Yes	Yes, Fencing	No	Fibre Channel	
StorEdge 3510/3511	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	

## Violin Memory

Device/Family	Mode	InfoScale Foundation	InfoScale Foundation + Availability	InfoScale Storage / Storage + Availability / Enterprise	Interface	Advanced Features
Violin 3000/6000 series	A/A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	NDU, SAN Boot
Violin 3000/6000 series	A/A-A	Yes	Yes, Fencing	Yes, Fencing	Fibre Channel	SAN Boot

## Device Family Membership

### Dell EMC

Device Family	Members
CLARiiON AX series	Celerra NX4, CLARiiON AX100, CLARiiON AX4
EqualLogic PS3000 series	EqualLogic PS3000E, EqualLogic PS3000X, EqualLogic PS3000XV
EqualLogic PS4000 series	EqualLogic PS4000E, EqualLogic PS4000X, EqualLogic PS4000XV, EqualLogic PS4100E, EqualLogic PS4100X, EqualLogic PS4100XV, EqualLogic PS4100XV3.5"
EqualLogic PS6000 series	EqualLogic PS6000E, EqualLogic PS6000S, EqualLogic PS6000X, EqualLogic PS6000XV, EqualLogic PS6000XVS, EqualLogic PS6010E, EqualLogic PS6010S, EqualLogic PS6010X, EqualLogic PS6010XV, EqualLogic PS6010XVS, EqualLogic PS6100E, EqualLogic PS6100X, EqualLogic PS6100XV, EqualLogic PS6100XV3.5", EqualLogic PS6500E, EqualLogic PS6500X, EqualLogic PS6500XV, EqualLogic PS6510E, EqualLogic PS6510X, EqualLogic PS6600, EqualLogic PX6100S, EqualLogic PX6100XS
PowerMax series	PowerMax 2000, PowerMax 2500, PowerMax 8000, PowerMax 8500
PowerStore series	PowerStore 1000T, PowerStore 1000X, PowerStore 3000T, PowerStore 3000X, PowerStore 5000T, PowerStore 5000X, PowerStore 500T, PowerStore 7000T, PowerStore 7000X, PowerStore 9000T, PowerStore 9000X
PowerVault MD38xx Series	PowerVault MD3800f
SC Series	SC4000, SC4020, SC420F, SC5020, SC5020F, SC7020, SC7020F, SC8000, SC9000, SCv2000, SCv3000
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
Unity series	Unity 300, Unity 300F, Unity 350F, Unity 400, Unity 400F, Unity 450F, Unity 500, Unity 500F, Unity 550F, Unity 600, Unity 600F, Unity 650F, Unity VSA
Unity XT series	Unity XT 380, Unity XT 380F, Unity XT 480, Unity XT 480F, Unity XT 680, Unity XT 680F, Unity XT 880, Unity XT 880F
VMAX3/VMAX All Flash Family series	VMAX 100K, VMAX 10K, VMAX 200K, VMAX 20K, VMAX 250F, VMAX 250FX, VMAX 350F, VMAX 400K, VMAX 40K, VMAX 450F, VMAX 450FX, VMAX 850F, VMAX 850FX, VMAX 950F, VMAX 950FX, VMAX3
VNX series	VNX 5100, VNX 5300, VNX 5500, VNX 5700, VNX 7500
VNX2 series	VNX5200, VNX5400, VNX5600, VNX5800, VNX7600, VNX8000

## Dell EMC

Device Family	Members
VNX2e series	VNXe1600, VNXe3200

## Fujitsu

Device Family	Members
ETERNUS DX400/DX500/DX600 series	ETERNUS AF650, ETERNUS AF650 S2, ETERNUS AF650 S3, ETERNUS DX410, ETERNUS DX410 S2, ETERNUS DX440, ETERNUS DX440 S2, ETERNUS DX500 S3, ETERNUS DX500 S4, ETERNUS DX500 S5, ETERNUS DX600 S3, ETERNUS DX600 S4, ETERNUS DX600 S5
ETERNUS DX60/DX80/DX90/DX100/DX200 series	ETERNUS AF150 S3, ETERNUS AF250, ETERNUS AF250 S2, ETERNUS AF250 S3, ETERNUS DX100 S3, ETERNUS DX100 S4, ETERNUS DX100 S5, ETERNUS DX200 S3, ETERNUS DX200 S4, ETERNUS DX200 S5, ETERNUS DX200F, ETERNUS DX60, ETERNUS DX60 S2, ETERNUS DX60 S3, ETERNUS DX60 S4, ETERNUS DX60 S5, ETERNUS DX80, ETERNUS DX80 S2, ETERNUS DX90, ETERNUS DX90 S2
ETERNUS DX8000 S3/S4 series	ETERNUS DX8700 S3, ETERNUS DX8900 S3, ETERNUS DX8900 S4, ETERNUS DX900 S5
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
FibreCAT SX80/100 series	FibreCAT SX100, FibreCAT SX80

## Hewlett Packard Enterprise

Device Family	Members
3PAR F/T-Class, StoreServ 7000/8000/9000/10000/20000 Storage	3PAR F200 Storage, 3PAR F400 Storage, 3PAR StoreServ 10400 Storage, 3PAR StoreServ 10800 Storage, 3PAR StoreServ 20450 Storage, 3PAR StoreServ 20450R2 Storage, 3PAR StoreServ 20800 Storage, 3PAR StoreServ 20850 Storage, 3PAR StoreServ 20850R2 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 StoreServ 9450 Storage, 3PAR T400 Storage, 3PAR T800 Storage
Alletra 5000 Series	Alletra 5010, Alletra 5030, Alletra 5050
Alletra 6000 Series	Alletra 6010, Alletra 6030, Alletra 6050, Alletra 6070, Alletra 6090
Alletra 9000 Storage	Alletra 9060, Alletra 9080
MSA 2050 Storage	MSA 2050 SAN, MSA 2050 SAS, MSA 2052 SAN, MSA 2052 SAS
MSA 2060 Storage	MSA 2060 FC, MSA 2062 FC
MSA2000fc series	MSA2012fc, MSA2212fc

## Hewlett Packard Enterprise

Device Family	Members
Primera 600 Storage	Primera 630 Storage, Primera 650 Storage, Primera 670 Storage
XP10000/12000	XP10000, XP12000
XP20000/24000	XP20000, XP24000
XP7 series	XP7, XP7 Gen 2
XP8 series	XP8

## Hitachi Vantara

Device Family	Members
HUS 100 series	HUS110, HUS130, HUS150
SMS/AMS2000 series	AMS2100, AMS2300, AMS2500, SMS100
VSP 5000 series	VSP 5100, VSP 5100H, VSP 5200, VSP 5200H, VSP 5500, VSP 5500H, VSP 5600, VSP 5600H
VSP E series	VSP E1090, VSP E1090H, VSP E590, VSP E590H, VSP E790, VSP E790H, VSP E990
VSP G series	VSP F1500, VSP G1000, VSP G1500
VSP Gx00/Fx00 series	VSP F350, VSP F370, VSP F400, VSP F600, VSP F700, VSP F800, VSP F900, VSP G130, VSP G150, VSP G200, VSP G350, VSP G370, VSP G400, VSP G600, VSP G700, VSP G800, VSP G900

## Huawei

Device Family	Members
18000 series	18500, 18800, 18800F, HVS85T, HVS88T
ES3000 V2	ES3000 V2-1200, ES3000 V2-1200H, ES3000 V2-1600, ES3000 V2-2400H, ES3000 V2-3200H, ES3000 V2-600, ES3000 V2-800
OceanStor Series	Dorado2100, Dorado2100G2, Dorado5100, OceanStor 18500 V3, OceanStor 18500 V5, OceanStor 18500F V5, OceanStor 18800 V3, OceanStor 18800 V5, OceanStor 18800F V5, OceanStor 2100 V3, OceanStor 2200 V3, OceanStor 2600 V3, OceanStor 5300 V3, OceanStor 5300 V5, OceanStor 5300F V5, OceanStor 5500 V3, OceanStor 5500 V5, OceanStor 5500F V5, OceanStor 5600 V3, OceanStor 5600 V5, OceanStor 5600F V5, OceanStor 5800 V3, OceanStor 5800 V5, OceanStor 5800F V5, OceanStor 6800 V3, OceanStor 6800 V5, OceanStor 6800F V5, OceanStor 6900 V3, OceanStor Dorado 18000 V6, OceanStor Dorado 3000 V6, OceanStor Dorado 5000 V6, OceanStor Dorado 6000 V6, OceanStor Dorado 8000 V6, OceanStor Dorado18000 V3, OceanStor Dorado5000 V3, OceanStor Dorado6000 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
S5000 series	S2100, S2300, S2300E, S2600, S5100, S5300, S5500, S5600, S6800E, V1500, V1800
VIS series	S8000, VIS6000, VIS6000T

## IBM

Device Family	Members
FlashSystem series	FlashSystem 710, FlashSystem 820, FlashSystem 840, FlashSystem 900
Spectrum Virtualize series	FlashSystem 5010, FlashSystem 5030, FlashSystem 5100, FlashSystem 5200, FlashSystem 7100, FlashSystem 7200, FlashSystem 7300, FlashSystem 9100, FlashSystem 9200, FlashSystem 9200R, FlashSystem 9500, FlashSystem V9000, SAN Volume Controller, SANVC(2145), Spectrum Virtualize for Public Cloud, Storwize V3500, Storwize V3700, Storwize V5000, Storwize V5010, Storwize V5020, Storwize V5030, Storwize V7000, Storwize V7000 Unified
Storwize series	FlashSystem V9000, SANVC(2145), Storwize V3500, Storwize V3700, Storwize V5000, Storwize V5010, Storwize V5020, Storwize V5030, Storwize V7000, Storwize V7000 Unified
System Storage DS3000 series	DS3200, DS3300, DS3400
System Storage DS3500 series	DCS3700, DS3512, DS3524
System Storage DS8000 series	DS8000, DS8100, DS8300, DS8700, DS8800, DS8870, DS8880
System Storage XIV series	FlashSystem A9000, FlashSystem A9000R, XIV Storage System, XIV Storage System Gen3

## Imation

Device Family	Members
Nexsan E-Series Systems	Nexsan E18, Nexsan E48, Nexsan E60

## Infinidat

Device Family	Members
InfiniBox F-Series	InfiniBox F2000, InfiniBox F4000, InfiniBox F6000

## MacroSAN

Device Family	Members
MS series	MS2500, MS2500G2, MS2500G2-AF, MS3000, MS3000G2, MS3000G2-AF, MS3000G2-AFT, MS3000G2-V4, MS5000, MS5500, MS5500-AF, MS5500E, MS5500E-AF, MS5500G2, MS5500G2-AF, MS5500G2-AFT, MS700-Mach, MS7000, MS7000-AF, MS7000-AFT, MS7000-V4, MS7000G2, MS7000G2-AF, MS7000G2-AFT, MS7000G2-Mach, MS7000G2-V4, MS7020

## NEC

Device Family	Members
iStorage D1/D3 series	iStorage D1-10, iStorage D1-30, iStorage D1-30i, iStorage D3-10, iStorage D3-10i, iStorage D3-30, iStorage D3-30i, iStorage D4-30, iStorage D4-30i
iStorage D8 series	iStorage D8-10, iStorage D8-20, iStorage D8-30
iStorage M series	iStorage M100, iStorage M10e, iStorage M110, iStorage M11e, iStorage M120, iStorage M12e, iStorage M300, iStorage M310, iStorage M310F, iStorage M320, iStorage M320F, iStorage M500, iStorage M510, iStorage M700, iStorage M710, iStorage M710F
iStorage S1000 series	iStorage S1100, iStorage S1300, iStorage S1400, iStorage S1500
iStorage S2000 series	iStorage S2100, iStorage S2300, iStorage S2400, iStorage S2500, iStorage S2800, iStorage S2900

## NetApp

Device Family	Members
AFF Series	AFF 8020, AFF 8040, AFF 8060, AFF 8080EX, AFF A200, AFF A220, AFF A250, AFF A300, AFF A320, AFF A400, AFF A700, AFF A700s, AFF A800, AFF C190
ASA AFF Series	ASA AFF A220, ASA AFF A250, ASA AFF A400, ASA AFF A700, ASA AFF A800
E_SERIES	E2600, E2700, E2800, E5400, E5500, E5600, E5612, E5624, E5660, E5700, EF540, EF550, EF560, EF570
FAS2000/FAS900/FAS200 series	FAS2020, FAS2040, FAS2050, FAS2220, FAS2240-2, FAS2240-4, FAS250, FAS2520, FAS2552, FAS2554, FAS2620, FAS2650, FAS270, FAS2720, FAS2750, FAS500F, 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/FAS9000 Series	FAS8020, FAS8040, FAS8060, FAS8080EX, FAS8200, FAS8300, FAS8700, FAS9000

## Nexsan

Device Family	Members
Beast Systems	SASBeast, SATABeast, SATABeast2

## NimbleStorage

Device Family	Members
CS/AF/HF-Series	AF1000, AF20, AF3000, AF40, AF5000, AF60, AF7000, AF80, AF9000, CS1000, CS235, CS300, CS3000, CS500, CS5000, CS700, CS7000, HF20, HF40, HF60

## Oracle

Device Family	Members
Axiom series	Axiom 300, Axiom 500, Axiom 600
Storage 6580/6780 series	Sun Storage 6580 array, Sun Storage 6780 array
StorageTek 2500 series	StorageTek 2510 array, StorageTek 2530 array, StorageTek 2540 array, Sun Storage 2530-M2 array, Sun Storage 2540-M2 array
StorageTek 9900 series	StorageTek 9970 array, StorageTek 9980 array
StorageTek 9985/9990 series	StorageTek 9985 system, StorageTek 9990 system
ZFS Storage Appliance series	ZFS Storage 7110, ZFS Storage 7120, ZFS Storage 7210, ZFS Storage 7310, ZFS Storage 7320, ZFS Storage 7410, ZFS Storage 7420, ZFS Storage 7430, ZFS Storage ZS3-2, ZFS Storage ZS3-4, ZFS Storage ZS4-4, ZFS Storage ZS5-2, ZFS Storage ZS5-4

## Pure Storage

Device Family	Members
FlashArray series	FA-400, FA-405, FA-420, FA-450, FlashArray //X10, FlashArray //X20, FlashArray //X50, FlashArray //X90, FlashArray//C, FlashArray//m10, FlashArray//m20, FlashArray//m50, FlashArray//m70, FlashArray//x70, FlashArray//Xr2, FlashArray//Xr3

## SanDisk

Device Family	Members
ioMemory PX600 series	ioMemory PX600-1000, ioMemory PX600-1300, ioMemory PX600-2600, ioMemory PX600-5200
ioMemory SX300 series	ioMemory SX300-1300, ioMemory SX300-1600, ioMemory SX300-3200, ioMemory SX300-6400
ioMemory SX350 series	ioMemory SX350-1300, ioMemory SX350-1600, ioMemory SX350-3200, ioMemory SX350-6400

## StorageTek

Device Family	Members
FlexLine 200/300 series	FlexLine FLX280, FlexLine FLX380

## Sun

Device Family	Members
StorEdge 3510/3511	StorageTek 3510, StorageTek 3511

## Violin Memory

Device Family	Members
Violin 3000/6000 series	3120, 3202, 3205, 3210, 3220, 6212, 6232, 6264, 6606, 6616



# Host Bus Adapters

The information presented here does not refer to specific host bus adapter (HBA) models or architectures. Unless stated otherwise, InfoScale Foundation supports all the HBAs that are supported by the OS and storage array manufacturers listed here. InfoScale 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.

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

For supported iSCSI initiator versions, see the table below. For details on configuring the iSCSI software initiator, see <http://www.veritas.com/docs/TECH62838> .

## iSCSI Support

OS	iSCSI software initiator version
SLES 11 [1]	2.0.707 or above

1. For SLES 11SP1, the `node.session.timeo.replacement_timeout` tunable needs to be set to 40 or above.

# 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. Veritas recommends adding SCSI3 conformant disk support.

# Switches

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

Unless stated otherwise, InfoScale 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 InfoScale Foundation products listed.