.feedback_submit { transform: translateX(280px) translateY(0px); font-weight: bold; } #tofeedback{ margin-top: 2px !important; color:#0057B8 !important; font-weight:600 !important; }

Installation and Upgrade Checklist Report for Storage Foundation Cluster File System HA 6.0, SUSE Linux Enterprise Server 11 , x86-64

▼ Index   Back to top

▼ Important Notes   Back to top

Note: You have not selected the latest product version. Consider installing or upgrading to the latest version; otherwise, you may encounter issues that have already been fixed. To run a new report for the latest product version, select it from the Veritas product drop-down list.

In the VxFS 6.0 release, you can create and mount only file systems with disk layout Version 7, Version 8 and Version 9. VxFS 6.0 does not support disk layout version 4 and version 6. You can upgrade these unsupported layout versions online using the vxupgrade utility before installing VxFS 6.0. Or after installing VxFS 6.0, you can convert version 4 offline using vxfsconvert or upgrade version 6 online using vxupgrade utility.

It is recommended to upgrade VxFS disk layouts to a supported version prior to installing VxFS 6.0. However, VxFS 6.0 can mount disk layout version 6 locally only to perform an online upgrade. Cluster mount for disk layout version 6 is not supported in VxFS 6.0.

Array Support Libraries (ASLs)

When installing Veritas products, please be aware that ASLs updates are not included in the patches update bundle. Please go to the Array Support Libraries (ASLs) to get the latest updates for your disk arrays.

▼ System requirements   Back to top

Required number of CPUs: 2

Recommended speed of CPUs: 1 GHz

Required memory: 2 GB

Required disk space:

Partitions	Minimum space required	Maximum space required	Recommended space

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/opt	330 MB	643 MB	622 MB
/root	60 MB	61 MB	61 MB
/usr	77 MB	78 MB	78 MB

Supported architectures:

AMD Opteron architecture [1]

Intel EM64T architecture [1]

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

▼ Product features

The features in the list are enabled in this release.

Feature	Storage Foundation CFSHA
1-256 TB File System	✔
CFS Multi-transaction server	✔
Cluster File System	✔
Cluster Volume Manager	✔
Compression	✔
Concurrent I/O	✔
Data management application programming interface (DMAPI)	✔
Deduplication	✔
Device names consistent across cluster nodes	✔
Device names using Array Volume IDs	✔
Direct I/O	✔
Dirty region logging	✔
Dynamic LUN expansion	✔
Dynamic Multi-pathing	✔
Enclosure based naming	✔
File Change Log	✔
File system snapshots	✔
File system storage checkpoints	✔
Flashsnap: Disk group split & join	✔
Flashsnap: Fast resynchronization	✔
Full size instant snapshots	✔
Hardware assisted copy	✔
Hot-relocation	✔
Import cloned LUN	✔
Keyless licensing	✔

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Mount lock	✔
Named data streams	✔
Online coordinator disk replacement	✔
Online file system defragmentation	✔
Online file system grow & shrink	✔
Online relay out	✔
Online volume grow & shrink	✔
Operations Manager	✔
Oracle Disk Manager (ODM) and Cached ODM (CODM)	✔
Partitioned directories	✔
Portable Data Containers (formerly known as Cross-Platform Data Sharing (CDS))	✔
Remote mirrors for campus clusters	✔
Rolling upgrade	✔
SCSI-3 based I/O fencing	✔
SSD device exploitation	✔
Site awareness with remote mirrors	✔
SmartMove	✔
SmartTier (formerly Dynamic Storage Tiering)	✔
Space-optimized instant snapshot	✔
Split-mirror snapshot	✔
Thin storage reclamation	✔
User & group quotas	✔
iSCSI device support	✔
File Replicator option	Optional
Replicator option (formerly Volume Replicator)	Optional
Database storage checkpoints & rollback	Oracle only
FlashSnap: Database	Oracle only
SmartTier for Oracle (formerly Database DST)	Oracle only

▼ Product documentation   Back to top

Product guides	
Release Notes	📄 🌐 Veritas Storage Foundation Cluster File System High Availability Release Notes - English
Storage Foundation Guides	📄 🌐 Veritas File System Programmer's Reference Guide - English
	📄 🌐 Veritas Storage Foundation Cluster File System High Availability Administrator's

VERITAS

Storage Foundation Cluster File System High Availability Guides	Guide - English
	📄🌐 Veritas Storage Foundation Cluster File System High Availability Installation Guide - English

▼ Patches for Storage Foundation Cluster File System HA and Platform

Product (recommended)

Patch	Date	Size
cpi-6.0P3	2014-06-26	9.59 KB
cpi-6.0RP1P2	2012-06-19	2.82 KB
sfha-sles11_x86_64-6.0RP1	2012-03-22	204.52 MB

Platform (required)
No patches required.

▼ End of Support Life information

Last updated on 2024-03-25. Refer to support fundamental for more information about support.

Release Date(GA)	Extended Support Starts	Sustaining Support Starts	End of Support Life Date(EOSL)
2011-12-18	2018-12-01	2020-12-30	2026-12-30

▼ Platform configuration

Unless otherwise stated, the specified Veritas product supports all platform kernel versions.

Supported platform version. Last updated on 2018-06-12

Product versionPlatform version6.0SP1

Required platform packages:
parted-1.8.8-102.21.8.x86_64
glibc-32bit-2.11.1-0.17.4.x86_64
pam-32bit-1.0.4-0.5.12.x86_64
libgcc43-32bit-4.3.4_20091019-0.7.35.x86_64
libstdc++43-32bit-4.3.4_20091019-0.7.35.x86_64
glibc-2.11.1-0.17.4.x86_64
libacl-32bit-2.2.47-30.34.29.x86_64
findutils-4.4.0-38.24.11.x86_64
ed-0.2-1001.22.x86_64

coreutils-6.12-32.17.x86_64

module-init-tools-3.11.1-1.3.5.x86_64

libgcc43-4.3.4_20091019-0.7.35.x86_64

libacl-2.2.47-30.34.29.x86_64

libstdc++43-4.3.4_20091019-0.7.35.x86_64

ksh-93t-9.9.8.x86_64

▼ Host bus adapter (HBA) parameters and switch parameters Back to top

Unless otherwise stated, the specified Veritas product supports all HBAs (except iSCSI HBAs) and fibre channel switches supported by the platform and storage array manufacturers listed in the hardware compatibility list (HCL). For more details, click the link to the HCL.

▼ Operations Manager Back to top

Veritas InfoScale Operations Manager gives you a single, centralized management console for the InfoScale products. You can use it to monitor, visualize, and manage storage and cluster resources, and generate reports about these components in the Management Server domain.It can also help administrators centrally manage diverse data center environments. This section lists the documents for Veritas InfoScale Operations Manager 8.0.2.

Documentation

▼ Array Support Libraries (ASLs) Back to top

Array family (model)	Documentation	Libraries	
3PAR E-Class, S-Class		libvx3par (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell EMC CLARiiON AX series		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
		libvxCLARiiON (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
Dell EMC CLARiiON CX series		libvxCLARiiON (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
		libvxCLARiiON (embedded in the	

		package VRTSaslapm)	See TechNote
		libvxCLARiiON (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell EMC CLARiiON CX3 series		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
		libvxCLARiiON (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell EMC CLARiiON CX4 series		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
Dell EMC EqualLogic PS3000 series		libvxeqlogic (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell EMC EqualLogic PS4000 series		libvxeqlogic (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell EMC EqualLogic PS5000 series		libvxeqlogic (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell EMC EqualLogic PS6000 series		libvxeqlogic (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell EMC Symmetrix 8000 series		libvxemc (embedded in the package VRTSaslapm)	See TechNote
		libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell EMC Symmetrix DMX series		libvxemc (embedded in the package VRTSaslapm)	See TechNote
		libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell EMC Symmetrix DMX series with PowerPath		libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxemc (embedded in the package VRTSaslapm)	See TechNote
Dell EMC Symmetrix VMAX series		libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxemc (embedded in the package VRTSaslapm)	See TechNote
Dell EMC Symmetrix VMAX series		libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media

with PowerPath		libvxemc (embedded in the package VRTSaslapm)	See TechNote
Dell EMC Unity series		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
		libvxCLARiiON (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
Dell EMC VMAX3/VMAX All Flash Family series		libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxemc (embedded in the package VRTSaslapm)	See TechNote
Dell EMC VMAX3/VMAX All Flash Family series with PowerPath		libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxemc (embedded in the package VRTSaslapm)	See TechNote
Dell EMC VNX series		libvxCLARiiON (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
Dell EMC VNX2 series		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
		libvxCLARiiON (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
Dell EMC VNX2e series		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
		libvxCLARiiON (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
Dell EMC VPLEX		libvxInvista (embedded in the package VRTSaslapm)	See TechNote
		libvxInvista (embedded in the package VRTSaslapm)	See TechNote
		libvxInvista (embedded in the package	The required ASL is already

		VRTSaslapm)	embedded in the install media
Fujitsu ETERNUS DX400/DX500 /DX600 series		libvxFJTSYe8k (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Fujitsu ETERNUS DX60/DX80/DX90 /DX100/DX200 series		libvxfjtsye2k (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Fujitsu ETERNUS DX8000 series		libvxFJTSYe8k (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Fujitsu ETERNUS2000 series	ETERNUS2000 Disk Storage Systems	libvxfjtsye2k (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Fujitsu ETERNUS4000 series	ETERNUS4000 Disk Storage Systems	libvxFJTSYe8k (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Fujitsu ETERNUS8000 series	ETERNUS8000 Disk Storage Systems	libvxFJTSYe8k (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Fujitsu FibreCAT SX80/100 series		libvxfsc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Fujitsu ETERNUS VS850		libvxibmsvc (embedded in the package VRTSaslapm)	See TechNote
		libvxibmsvc (embedded in the package VRTSaslapm)	See TechNote
		libvxibmsvc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hewlett Packard Enterprise 2000 G2 series		libvxmsa2kfc_sa (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hewlett Packard Enterprise 3PAR F/T-Class, StoreServ 7000/8000/9000 /10000/20000 Storage		libvx3par (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hewlett Packard Enterprise EVA4000 /6000/8000		libvxhpalua (embedded in the package VRTSaslapm)	See TechNote
		libvxhpalua (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hewlett Packard Enterprise EVA4100 /6100/8100		libvxhpalua (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhpalua (embedded in the package VRTSaslapm)	See TechNote
Hewlett Packard Enterprise EVA4400 /6400/8400 series		libvxhpalua (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhpalua (embedded in the package VRTSaslapm)	See TechNote
Hewlett Packard Enterprise		libvxmsa2k (embedded in the package	The required ASL is already

MSA2000fc series		VRTSaslapm)	embedded in the install media
Hewlett Packard Enterprise P2000 G3 MSA series		libvxmsa2kfc_sa (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hewlett Packard Enterprise P6000 EVA series		libvxhpalua (embedded in the package VRTSaslapm)	See TechNote
		libvxhpalua (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hewlett Packard Enterprise XP10000 /12000		libvxxp256 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxxp1281024 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxxp12k (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hewlett Packard Enterprise XP20000 /24000		libvxxp1281024 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxxp12k (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxxp256 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hewlett Packard Enterprise P9500		libvxxp1281024 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxxp12k (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxxp256 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hewlett Packard Enterprise XP7		libvxxp256 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxxp1281024 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxxp12k (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hitachi AMS/WMS series		libvxhdsalua (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsalua (embedded in the package VRTSaslapm)	See TechNote
		libvxhdsalua (embedded in the package VRTSaslapm)	See TechNote
		libvxhdsalua (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media

Hitachi HUS 100 series	Hitachi Unified Storage 100 Family	libvxhdsalua (embedded in the package VRTSaslapm)	See TechNote
		libvxhdsalua (embedded in the package VRTSaslapm)	See TechNote
Hitachi SMS/AMS2000 series		libvxhdsalua (embedded in the package VRTSaslapm)	See TechNote
		libvxhdsalua (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsalua (embedded in the package VRTSaslapm)	See TechNote
Hitachi Thunder 9500V series	Thunder 9500V Series Modular Storage Systems	libvxhdsalua (embedded in the package VRTSaslapm)	See TechNote
		libvxhdsalua (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsalua (embedded in the package VRTSaslapm)	See TechNote
Hitachi USP/NSC series		libvxhdsusp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hitachi USPV/USPVM		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hitachi VSP G series		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds9980 (embedded in the	The required ASL is already

VERITAS

		package VRTSaslapm)	embedded in the install media
Hitachi VSP Gx00/Fx00 series		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
Hitachi 9970V		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hitachi 9980		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hitachi TMS1000		libvxhdsalua (embedded in the package VRTSaslapm)	See TechNote
		libvxhdsalua (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsalua (embedded in the package VRTSaslapm)	See TechNote
Hitachi VSP		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media

		libvxhuawei (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Huawei OceanStor Series		libvxhuawei (embedded in the package VRTSaslapm)	See TechNote
		libvxhuawei (embedded in the package VRTSaslapm)	See TechNote
		libvxhuawei (embedded in the package VRTSaslapm)	See TechNote
Huawei S5000 series		libvxhuawei (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhuawei (embedded in the package VRTSaslapm)	See TechNote
		libvxhuawei (embedded in the package VRTSaslapm)	See TechNote
Huawei VIS series		libvxhuawei (embedded in the package VRTSaslapm)	See TechNote
		libvxhuawei (embedded in the package VRTSaslapm)	See TechNote
		libvxhuawei (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhuawei (embedded in the package VRTSaslapm)	See TechNote
IBM Spectrum Virtualize series		libvxibmsvc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxibmsvc (embedded in the package VRTSaslapm)	See TechNote
		libvxibmsvc (embedded in the package VRTSaslapm)	See TechNote
IBM Storwize series		libvxibmsvc (embedded in the package VRTSaslapm)	See TechNote
		libvxibmsvc (embedded in the package VRTSaslapm)	See TechNote
		libvxibmsvc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
IBM System Storage DS3000 series		libvxlsiall (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
		libvxlsiall (embedded in the package	

		VRTSaslapm)	See TechNote
IBM System Storage DS5000 series		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
		libvxlsiall (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
IBM System Storage DS6000 series	IBM System Storage DS6000 Series	libvxibmds6k (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
IBM System Storage DS8000 series	IBM System Storage DS8000 series	libvxibmds8k (embedded in the package VRTSaslapm)	See TechNote
		libvxibmds8k (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
IBM System Storage N series	IBM System Storage N series IBM System Storage N7000 Modular Disk Storage System	libvxnetapp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
IBM System Storage XIV series		libvxxiv (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
IBM TotalStorage DS4000 series	IBM DS4000 series: Overview - IBM TotalStorage Disk Storage Systems	libvxlsiall (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
IBM DS3950		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
		libvxlsiall (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
IBM DS5020		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
		libvxlsiall (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
NetApp AFF Series		libvxnetapp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxnetapp (embedded in the	The required ASL is already

NetApp E_SERIES		package VRTSaslapm)	embedded in the install media
NetApp FAS2000/FAS900/FAS200 series		libvxnetapp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
NetApp FAS3000/V3000 series		libvxnetapp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
NetApp FAS6000/V6000 series		libvxnetapp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
NetApp FAS8000/FAS9000 Series		libvxnetapp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Oracle Storage 6580/6780 series		libvxlsiall (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
Oracle StorageTek 2500 series		libvxlsiall (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
Oracle StorageTek 9900 series		libvxhdsusp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Oracle StorageTek 9985/9990 series		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxlsiall (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media

Oracle StorageTek 6140 array		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
Oracle StorageTek 9985V system		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Oracle StorageTek 9990V system		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Oracle Sun Storage 6180 array		libvxlsiall (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
X-IO ISE2400		libvxxiotechE5k (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media