.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, Solaris 10, x86-64

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## Important Notes

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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, version 5 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 and version 5 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.

#### S

**System requirements** 

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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



/opt	417 MB	806 MB	770 MB	
/root	51 MB	52 MB	52 MB	
/usr	194 MB	194 MB	194 MB	
/var	1 MB	1 MB	1 MB	

### Supported architectures:

AMD Opteron architecture [1][2]

Intel EM64T architecture [1][2]

- 1. Supports Solaris 10, 64 bit only.
- 2. Check Oracle's HCL for specific models: http://www.oracle.com/webfolder/technetwork/hcl/index.html.

▼ Product features		Back to top
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	✓	



Impart claned LUM	✓
Import cloned LUN	*
Keyless licensing	<b>*</b>
Mount lock	<b>✓</b>
Named data streams	<b>✓</b>
Online coordinator disk replacement	<b>✓</b>
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))	✓
Quick I/O (QIO) and Cached QIO (CQIO)	✓
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	✓
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
	Ctorono Foundation Chroton File Crotono High Availability Crides	Veritas Storage Foundation Cluster File System High Availability Administrator's Guide - English
Storage Foundation Cluster File System High Availability Guides		Veritas Storage Foundation Cluster File System High Availability Installation Guide - English

## Patches for Storage Foundation Cluster File System HA and Platform

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Product (recommended)			
Patch	Date	Size	
cpi-6.0P3	2014-06-26	9.59 KB	
perl-sol10_x64-6.0P2	2013-02-26	16.39 MB	
dbed-sol10_x64-VRTSdbed-6.0P2	2013-02-12	54.99 KB	
cpi-6.0RP1P2	2012-06-19	2.82 KB	
sfha-sol10_x64-6.0RP1	2012-03-22	258.64 MB	

Platform (required)

Solaris patch number: 118844-26 Solaris patch number: 119131-09 Solaris patch number: 119375-03 Solaris patch number: 119043-02 Solaris patch number: 125732-02 Solaris patch number: 128307-05 Solaris patch number: 118844-19 Solaris patch number: 127112-01

To check if the patch has been installed, use the showrev -p | grep patch\_number command

### End of Support Life information

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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

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



Product versionPlatform version6.0Update 8, 9, 10

#### Related documentation

Oracle Solaris 10 Operating System Overview
Oracle Solaris 10 8/11 Product Documentation

### Host bus adapter (HBA) parameters and switch parameters

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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

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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)

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Array family (model)	y 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
		libvxCLARiiON (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)	See TechNote
		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
Dell EMC CLARiiON CX series with PowerPath		libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
		libvxCLARiiON (embedded in the	The required ASL is already



package VRTSaslapm)	embedded in the install media
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
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
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
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
libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
libvxeqlogic (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
libvxeqlogic (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
libvxeqlogic (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
libvxeqlogic (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
	libvxCLARiiON (embedded in the package VRTSaslapm) libvxeqlogic (embedded in the package VRTSaslapm) libvxeqlogic (embedded in the package VRTSaslapm) libvxeqlogic (embedded in the package VRTSaslapm)



Dell EMC SC Series	libvxcompellent (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell EMC Symmetrix 8000 series with	libvxemc (embedded in the package VRTSaslapm)	See TechNote
PowerPath	libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dall FMC Symmetric 2000 garies	libvxemc (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
Dall FMC Compressive DMV corries	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
Dell EMC Symmetrix DMX series with	 libvxemc (embedded in the package VRTSaslapm)	See TechNote
PowerPath	libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell FMO Compression VMAAV engine	libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell EMC Symmetrix VMAX series	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
	libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
Dell EMC Unity 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 Unity series with PowerPath	libvxCLARiiON (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
	libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
	libvxemc (embedded in the package	The required ASL is already



ell EMC VMAX3/VMAX All Flash	VRTSaslapm)	embedded in the install media
amily series with PowerPath	libvxemc (embedded in the package VRTSaslapm)	See TechNote
ell EMC VMAX3/VMAX All Flash	libvxemc (embedded in the package VRTSaslapm)	See TechNote
amily series	libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
	libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
ell EMC VNX series with PowerPath	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
ell EMC VNX 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)	The required ASL is already embedded in the install media
ell EMC VNX2 series with owerPath	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
ell EMC VNX2 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
ell EMC VNX2e series with overPath	libvxCLARiiON (embedded in the package VRTSaslapm)	See TechNote
	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)	See TechNote
	libvxInvista (embedded in the package VRTSaslapm)	See TechNote
Dell EMC VPLEX	libvxInvista (embedded in the package VRTSaslapm)	See TechNote
	libvxInvista (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
	libvxibmsvc (embedded in the package VRTSaslapm)	See TechNote
Fujitsu ETERNUS VS850	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 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	libvxhpalua (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
/6000/8000	libvxhpalua (embedded in the package VRTSaslapm)	See TechNote
Hewlett Packard Enterprise EVA4100	libvxhpalua (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
/6100/8100	libvxhpalua (embedded in the package VRTSaslapm)	See TechNote
Hewlett Packard Enterprise EVA4400	libvxhpalua (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
/6400/8400 series	libvxhpalua (embedded in the package VRTSaslapm)	See TechNote
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	libvxhpalua (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
EVA series	libvxhpalua (embedded in the package VRTSaslapm)	See TechNote
	libvxxp1281024 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media



Hewlett Packard Enterprise XP10000 /12000		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
		libvxxp256 (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
		libvxxp1281024 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hewlett Packard Enterprise P9500		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
		libvxxp1281024 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hewlett Packard Enterprise XP7		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
		libvxhdsalua (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)	See TechNote
		libvxhdsalua (embedded in the package VRTSaslapm)	See TechNote
		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hitachi Lightning 9900V series	Lightning 9900V Series Enterprise Storage Systems	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
		libvxhdsalua (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hitachi SMS/AMS2000 series		libvxhdsalua (embedded in the package VRTSaslapm)	See TechNote
		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
		libvxhds9980 (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
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 package VRTSaslapm)	The required ASL is already embedded in the install media
Hitachi VSP Gx00/Fx00 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 HUS VM		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 TMS1000		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
Hitachi VSP		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
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
		libvxhuawei (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
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
		libvxibmsvc (embedded in the package VRTSaslapm)	See TechNote
		libvxibmsvc (embedded in the	The required ASL is already



IBM Storwize series		package VRTSaslapm)	embedded in the install media
		libvxibmsvc (embedded in the package VRTSaslapm)	See TechNote
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
		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
IBM System Storage DS5000 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
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)	The required ASL is already embedded in the install media
		libvxibmds8k (embedded in the package VRTSaslapm)	See TechNote
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
NetApp AFF Series		libvxnetapp (embedded in the package VRTSaslapm)	The required ASL is already 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 Axiom series		libvxpillaraxiom (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxlsiall (embedded in the package	



	VRTSaslapm)	See TechNote
Oracle Storage 6580/6780 series	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)	The required ASL is already embedded in the install media
Oracle StorageTek 2500 series	libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
	libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
	libvxhdsusp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Oracle Starage Tak 0000 earies	libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
Oracle StorageTek 9900 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
One de Otere de Tale 0005/0000 a seine	libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
Oracle StorageTek 9985/9990 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
Oracle ZFS Storage Appliance series	libvxsun7x10 (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
	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 9985V system	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
Overale Otevers-Talk 0000V avertees	libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Oracle StorageTek 9990V system	libvxhdsusp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
	libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
	libvxlsiall (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)	See TechNote
	libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
Sun StorEdge 3510/3511	libvxsunse3k (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
Sun StorageTek 6130	libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
	libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
	libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
Sun StorageTek 6540	libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
	libvxlsiall (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media

