

```
.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 for Oracle RAC 6.2, SUSE Linux Enterprise Server 11 , x86-64

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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

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Required number of CPUs: 2

Recommended speed of CPUs: 2 GHz

Required memory: 2 GB

Required disk space:

Partitions	Minimum space required	Maximum space required	Recommended space
/opt	757 MB	929 MB	928 MB
/root	79 MB	79 MB	79 MB
/usr	92 MB	92 MB	92 MB

Supported architectures:

AMD Opteron architecture [\[1\]](#)

Intel EM64T architecture [\[1\]](#)

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

Product features

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The features in the list are enabled in this release.

Feature	Storage Foundation RAC
1-256 TB File System	✓
Atomic I/O	✓
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	✓
Flexible Storage Sharing	✓
Full size instant snapshots	✓
Hardware assisted copy	✓
Hot-relocation	✓
Import cloned LUN	✓
Keyless licensing	✓
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)	✓
Oracle RAC integration	✓
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	✓
SmartIO - Volume Manager and File System Read Caching	✓
SmartIO - Write Back Caching	✓
SmartIO Support for vMotion with DMP for VMware with SmartPools (Linux Guests only)	✓
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

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Product guides

Storage Foundation for Oracle RAC Guides	  Storage Foundation for Oracle RAC Installation and Configuration Guide - English
	  Storage Foundation for Oracle RAC Administrator's Guide - English
Storage Foundation Guides	  Veritas File System Programmer's Reference Guide - English
Release Notes	 Storage Foundation for Oracle RAC Release Notes - English

Patches for Storage Foundation for Oracle RAC and Platform

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Product (recommended)		
Patch	Date	Size
cpi-Patch-6.2.1.2200	2022-12-10	54.39 KB
vcs-sles11_x86_...atch-6.2.1.1100	2019-11-05	69.79 MB
sfha-sles11_x86...Patch-6.2.1.200	2018-12-12	135.69 MB
vm-sles11_x86_64-Patch-6.2.1.500	2017-10-06	80.93 MB
vcsag-sles11_x8...-Patch-6.2.1.100	2017-06-15	13.51 MB
cpi-Patch-6.2.1.1100	2017-02-14	33.08 KB
sfha-sles11sp4_...-Patch-6.2.1.100	2015-09-22	133.73 MB
glm-sles11_x86...Patch-6.2.0.100	2015-09-21	1.45 MB
sfha-sles11_x86_64-MR-6.2.1	2015-04-24	385.03 MB
Platform (required)		
No patches required.		

End of Support Life information

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Last updated on 2024-05-15. Refer to EOSL page for more information about support.			
Release Date(GA)	Extended Support Starts	Sustaining Support Starts	End of Support Life Date(EOSL)
2014-11-30	2020-10-03	2022-12-30	2028-12-30

Platform configuration

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Unless otherwise stated, the specified Veritas product supports all platform kernel versions.	
Supported platform version. Last updated on 2018-06-12	
Product versionPlatform version6.2SP2, SP3	
Required platform packages:	
For SLES11SP2:	
parted-2.3-10.21.18.x86_64	
libudev0-32bit-147-0.47.2.x86_64	
glibc-32bit-2.11.3-17.31.1.x86_64	
pam-32bit-1.1.5-0.10.17.x86_64	
libstdc++46-32bit-4.6.1_20110701-0.13.9.x86_64	
libgcc46-32bit-4.6.1_20110701-0.13.9.x86_64	

glibc-2.11.3-17.31.1.x86_64
 libacl-32bit-2.2.47-30.34.29.x86_64
 findutils-4.4.0-38.26.1.x86_64
 libncurses5-5.6-90.55.x86_64
 ed-0.2-1001.30.1.x86_64
 coreutils-8.12-6.19.1.x86_64
 module-init-tools-3.11.1-1.21.1.x86_64
 libgcc46-4.6.1_20110701-0.13.9.x86_64
 libacl-2.2.47-30.34.29.x86_64
 zlib-1.2.3-106.34.x86_64
 libstdc++46-4.6.1_20110701-0.13.9.x86_64
 ksh-93u-0.6.1.x86_64
 zlib-32bit-1.2.3-106.34.x86_64

For SLES11SP3:

parted-2.3-10.38.16.x86_64
 libudev0-32bit-147-0.84.1.x86_64
 glibc-32bit-2.11.3-17.54.1.x86_64
 pam-32bit-1.1.5-0.10.17.x86_64
 libstdc++6-32bit-4.7.2_20130108-0.15.45.x86_64
 libgcc_s1-32bit-4.7.2_20130108-0.15.45.x86_64
 glibc-2.11.3-17.54.1.x86_64
 libacl-32bit-2.2.47-30.34.29.x86_64
 findutils-4.4.0-38.26.1.x86_64
 libncurses5-5.6-90.55.x86_64
 ed-0.2-1001.30.1.x86_64
 coreutils-8.12-6.25.27.1.x86_64
 module-init-tools-3.11.1-1.28.5.x86_64
 libgcc_s1-4.7.2_20130108-0.15.45.x86_64
 libacl-2.2.47-30.34.29.x86_64
 zlib-1.2.7-0.10.128.x86_64
 libstdc++6-4.7.2_20130108-0.15.45.x86_64
 ksh-93u-0.18.1.x86_64
 zlib-32bit-1.2.7-0.10.128.x86_64

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)	Documentation	Libraries	
3PAR E-Class, S-Class		libvx3par (embedded in the package VRTSaslapm)	See TechNote
		libvx3par (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell EqualLogic PS3000 series		libvxeqlogic (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell EqualLogic PS4000 series		libvxeqlogic (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell EqualLogic PS5000 series		libvxeqlogic (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell EqualLogic PS6000 series		libvxeqlogic (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell SC Series		libvxcompellent (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Dell Compellent Series 40		libvxcompellent (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
EMC CLARiiON CX3 series		libvxCLARiiON (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxpp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxpp (embedded in the package VRTSaslapm)	See TechNote
EMC CLARiiON CX3 series with PowerPath		libvxpp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxpp (embedded in the package VRTSaslapm)	See TechNote

EMC CLARiiON CX4 series with PowerPath		libvxpp (embedded in the package VRTSaslapm)	See TechNote
		libvxpp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
EMC CLARiiON CX4 series		libvxpp (embedded in the package VRTSaslapm)	See TechNote
		libvxCLARiiON (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxpp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
EMC Symmetrix DMX series	EMC Symmetrix DMX Architecture	libvxpp (embedded in the package VRTSaslapm)	See TechNote
		libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxpp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
EMC Symmetrix DMX series with PowerPath	EMC Symmetrix DMX Architecture	libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxpp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxpp (embedded in the package VRTSaslapm)	See TechNote
EMC Symmetrix VMAX series		libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
EMC Symmetrix VMAX series with PowerPath		libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
EMC VMAX3 series with PowerPath		libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
EMC VMAX3 series		libvxemc (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
EMC VNX series		libvxCLARiiON (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
EMC VNX2 series		libvxCLARiiON (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
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
		libvxpp (embedded in the package VRTSaslapm)	The required ASL is already

		VRTSaslapm)	embedded in the install media
		libvxpp (embedded in the package VRTSaslapm)	See TechNote
EMC VPLEX with PowerPath		libvxpp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxpp (embedded in the package VRTSaslapm)	See TechNote
		libvxInvista (embedded in the package VRTSaslapm)	See TechNote
EMC XtremIO		libvxpp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxXtremio (embedded in the package VRTSaslapm)	See TechNote
		libvxXtremio (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxXtremio (embedded in the package VRTSaslapm)	See TechNote
		libvxpp (embedded in the package VRTSaslapm)	See TechNote
EMC XtremIO with PowerPath		libvxpp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxpp (embedded in the package VRTSaslapm)	See TechNote
Fujitsu ETERNUS DX400/DX500 /DX600 series		libvxFJTSYe8k (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxFJTSYe8k (embedded in the package VRTSaslapm)	See TechNote
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
		libvxFJTSYe8k (embedded in the package VRTSaslapm)	See TechNote
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)	See TechNote
		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
		libvxFJTSYe8k (embedded in the package VRTSaslapm)	See TechNote
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)	The required ASL is already embedded in the install media
Hewlett Packard Enterprise 2000 G2 series		libvxmsa2kfc_sa (embedded in the package VRTSaslapm)	See TechNote
		libvxmsa2kfc_sa (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxmsa2kfc_sa (embedded in the package VRTSaslapm)	See TechNote
Hewlett Packard Enterprise 3PAR F/T-Class, StoreServ 7000/8000/10000 /20000 Storage		libvx3par (embedded in the package VRTSaslapm)	See TechNote
		libvx3par (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
Hewlett Packard Enterprise EVA4400 /6400/8400		libvxhpalua (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hewlett Packard Enterprise MSA2000fc series		libvxmsa2k (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hewlett Packard Enterprise P2000 G3 MSA series		libvxmsa2kfc_sa (embedded in the package VRTSaslapm)	See TechNote
		libvxmsa2kfc_sa (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxmsa2kfc_sa (embedded in the package VRTSaslapm)	See TechNote
Hewlett Packard Enterprise P6000 EVA series		libvxhpalua (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)	See TechNote
		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

		VRTSaslapm)	embedded in the install media
Hewlett Packard Enterprise XP20000 /24000		libvxxp256 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxxp12k (embedded in the package VRTSaslapm)	See TechNote
		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 MSA 1040 SAN		libvxmsa2kfc_sa (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxmsa2kfc_sa (embedded in the package VRTSaslapm)	See TechNote
		libvxmsa2kfc_sa (embedded in the package VRTSaslapm)	See TechNote
Hewlett Packard Enterprise MSA 2040 SAN		libvxmsa2kfc_sa (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxmsa2kfc_sa (embedded in the package VRTSaslapm)	See TechNote
		libvxmsa2kfc_sa (embedded in the package VRTSaslapm)	See TechNote
Hewlett Packard Enterprise P9500		libvxxp12k (embedded in the package VRTSaslapm)	See TechNote
		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
Hitachi HUS 100 series	Hitachi Unified Storage 100 Family	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)	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 USP/NSC series		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
Hitachi USPV/USPVM		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhdsusp (embedded in the package VRTSaslapm)	The required ASL is already 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
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		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 HUS VM		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		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 VSP		libvxhdsusp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Hitachi VSP G1000		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		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 18000 series		libvxhuawei (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Huawei S5000 series		libvxhuawei (embedded in the package VRTSaslapm)	See TechNote
		libvxhuawei (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Huawei S5000T 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
Huawei VIS 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
IBM Storwize series		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
IBM System Storage DS3500 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 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
IBM System Storage N series	IBM System Storage N series IBM System Storage N7000 Modular Disk Storage System	libvxnetappls (embedded in the package VRTSaslapm)	See TechNote
		libvxnetapp (embedded in the package VRTSaslapm)	See TechNote
		libvxnetapp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxnetappls (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 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
IBM DS5020		libvxlsiall (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxlsiall (embedded in the package VRTSaslapm)	See TechNote
		libvxnetappls (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media

NetApp E_SERIES		libvxnetapplsi (embedded in the package VRTSaslapm)	See TechNote
		libvxnetapp (embedded in the package VRTSaslapm)	See TechNote
		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)	See TechNote
		libvxnetapp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxnetapplsi (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxnetapplsi (embedded in the package VRTSaslapm)	See TechNote
NetApp FAS3000/V3000 series		libvxnetapp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxnetapplsi (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxnetapplsi (embedded in the package VRTSaslapm)	See TechNote
		libvxnetapp (embedded in the package VRTSaslapm)	See TechNote
NetApp FAS6000/V6000 series		libvxnetapp (embedded in the package VRTSaslapm)	See TechNote
		libvxnetapp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxnetapplsi (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxnetapplsi (embedded in the package VRTSaslapm)	See TechNote
NetApp FAS8000 Series		libvxnetapp (embedded in the package VRTSaslapm)	See TechNote
		libvxnetapp (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxnetapplsi (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Oracle Storage 6580/6780 series		libvxlsliall (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxlsliall (embedded in the package	

		VRTSaslapm)	See TechNote
Oracle StorageTek 2500 series		libvxlslall (embedded in the package VRTSaslapm)	See TechNote
		libvxlslall (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
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
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
Oracle StorageTek 9985/9990 series		libvxhds (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		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
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
Oracle StorageTek 6140 array		libvxlslall (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxlslall (embedded in the package VRTSaslapm)	See TechNote
		libvxhds9980 (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
		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
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
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)	See TechNote
		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
		libvxhdsusp (embedded in the package VRTSaslapm)	See TechNote
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
SanDisk ioDrive		libvxfusionio (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxfusionio (embedded in the package VRTSaslapm)	See TechNote
		libvxfusionio (embedded in the package VRTSaslapm)	See TechNote
		libvxfusionio (embedded in the package VRTSaslapm)	See TechNote
		libvxfusionio (embedded in the package VRTSaslapm)	See TechNote
SanDisk ioDrive2		libvxfusionio (embedded in the package VRTSaslapm)	See TechNote
		libvxfusionio (embedded in the package VRTSaslapm)	See TechNote
		libvxfusionio (embedded in the package VRTSaslapm)	See TechNote
		libvxfusionio (embedded in the package VRTSaslapm)	The required ASL is already

		package VRTSaslapm)	embedded in the install media
		libvxfusionio (embedded in the package VRTSaslapm)	See TechNote
SanDisk ION Data Accelerator		libvxfusionION (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxfusionION (embedded in the package VRTSaslapm)	See TechNote
Violin Memory Violin 3000/6000 series		libvxviolin (embedded in the package VRTSaslapm)	The required ASL is already embedded in the install media
		libvxviolin (embedded in the package VRTSaslapm)	See TechNote