Storage Software

Sun StorEdge Volume Manager 3.0.2

Sun StorEdge Volume Manager 3.0.2 provides system administrators with the tools to dynamically configure disk storage, to perform administrative tasks while the system is active, and to analyze disk usage. Sun StorEdge Volume Manager maximizes data availability through the implementation of mirroring and RAID5 techniques, and maximizes system availability by enabling on-line administration of disk subsystems. It enables improved performance through disk striping and RAID5 features, and provides the support for performance monitoring, load balancing, and on-line administration required to manage large disk configurations.

The Sun StorEdge Volume Manager 3.0.2 Base Pack contains documentation and CD-ROM media. Sun StorEdge Volume Manager is licensed on a tiered basis, by system type. The RTU for the appropriate platform must also be purchased. There are separate RTUs for systems with SPARCstorage Arrays or StorEdge A5000s attached.

Requires:
* Sun StorEdge Volume Manager 3.0.1 requires Solaris 2.5 or later release.

Description	Order Number
Base Pack (Media and Documentation)	
Veritas Volume Manager 3.0.2 Base Pack CD-ROM media and hardcopy doc	VFSTS-302-9999
Licenses	
VERITAS Volume Manager License for Workstations and Workgroup Servers, RTU only, Edu	VMR9S-999-WE99
VERITAS File System License for Departmental and Enterprise Servers, RTU only, EDU - ScholarPAC	VMR9S-999-EE99
VERITAS File System License for E10000 Servers, RTU only, EDU - ScholarPAC	VMR9S-999-SE99

General Notes
* *Read the Software licensing information before ordering any software products. See page 14.*
* *See the License Tier Definition table for an explanation of the systems that each license corresponds to.*

License Tier Definitions Table

Tier	System Classes
Workstations and Workgroup Servers	SPARCclassic, SPARCstation LX, SPARCstation 4, SPARCstation 5, SPARCstation 10, SPARCstation 20, Ultra 1, Ultra 2, Ultra 30, Ultra 60, Sun 4/4xx, SPARCserver 4, SPARCserver 5, SPARCserver 10, SPARCserver 20, Sun Enterprise 1, Sun Enterprise 2, Sun Enterprise 150, Sun Enterprise 450
Departmental and Enterprise Servers	Sun 4/6xx, SPARCserver 1000, Sun Enterprise 3X00, Sun Enterprise 4X00, Sun Enterprise 5X00, SPARCcenter 2000, Sun Enterprise 6X00
E10000	Sun Enterprise 10000

Solstice Backup 5.5.1 for Solaris 2.x

Solstice Backup is for small workgroups and servers with two tape drives. It supports up to two non-concurrent backup devices and includes a 10-client license. Jukebox is not supported.

Solstice Backup Turbo is for larger SPARCservers with more than two tape drives. It is a license-only enabler providing up to ten devices, concurrent use of devices, and is required before adding Jukebox licenses.

Description	Order Number
Base Pack (Media, Documentation, and License)	
Solstice Backup 5.5.1 for Solaris 2.x	
Workgroup Edition for Solaris	LSEIS-551-2106
Network Edition for Solaris	LSEIS-551-2102
Power Edition for Solaris	LSEIS-551-5102
Media Kits	
Solstice Backup Media Kit	LSEMS-551-2088
Solstice Backup Documentation	LSEDS-551-8570
ClientPaks	
ClientPak for UNIX	LSEIS-551-3300
Note: For SPARC RS/6000, HP/Apollo, DEC System, Silicon Graphics, UnixWare, and SCO UNIX 3.1x.	
ClientPak for PC Desktops	LSEIW-551-3302
ClientPak for Netware	LSEIV-413-3303
Note: Backs up NetWare 3.1x and 4.1 servers to Solstice Backup server.	
ClientPak for Windows NT	LSEIN-551-3304
Note: For Windows NT Advanced Server 3.x or 4.0, or Windows NT Workstation 3.x or 4.0.	
ClientPak for Macintosh	LSEIM-200-3305
Note: For Macintosh systems.	
Licenses (No Media or Documentation)	
5 Client Connections	LSEV9-551-2021
25 Client Connections	LSEY9-551-2022
100 Client Connections	LSEC9-551-2023
Network Edition Storage Node for Solaris	LSEIS-551-2080
Archive	
Archive Module, Solaris version	LSEIS-551-2030

General Notes

- *Read the Software licensing information before ordering any software products. See page 14.*

- *Supports either Solaris 1.x or Solaris 2.2 or later Solaris 2.x release for both client and server sides.*

Solstice Backup 5.5.1 for Solaris 2.x *(continued)*

Description	Order Number
Jukebox Software Module Licenses (No Media or Documentation)	
Autochanger Software Module 1-8 slots	LSEIS-551-2008
Autochanger Software Module 1-16- slots	LSEIS-551-2013
Autochanger Software Module 1-32 slots	LSEIS-551-2009
Autochanger Software Module 1-64 slots	LSEIS-551-2014
Autochanger Software Module 1-128 slots	LSEIS-551-2043
Autochanger Software Module 1-256 slots	LSEIS-551-2044
Autochanger Software Module unlimited slots	LSEIS-551-2046
Application Module Licenses (No Media or Documentation)	
Solstice Backup Media Kit	LSEMS-551-2088
Solstice Backup Documentation	LSEDS-551-8570
Network Edition for Solaris	LSEIS-551-2102
Upgrade Server Edition to Network Edition (License only)	
Solstice Data Backup Utility Upgrade to Solstice Backup 5.5.1 Network Edition	LSE9S-551-D9T9
Solstice Backup 5.5.1 Upgrade Workgroup to Network Edition	LSE9S-551-W9T9

General Notes

- *Read the Software licensing information before ordering any software products. See page 14.*

VERITAS File System 3.2.1

VERITAS File System 3.2 is a high availability, high performance file system designed for the data center. It includes features such as extent-based allocation, transaction-based journaling, fast recovery, and on-line administrative operations such as backup, resizing, and defragmentation.

The VERITAS File System 3.2 Base Pack contains documentation and CD-ROM media. VERITAS File System 3.2 is licensed on a tiered basis, by system type. The RTU for the appropriate platform must also be purchased.

Requires:
• VERITAS File System 3.2 is supported on Solaris 2.5 and Solaris 2.6.

Description	Order Number
Base Pack (Media and Documentation)	
VERITAS File System 3.2 Base Pack (media and documentation) VxFS 3.2.1 requires the 3.2.6 patch to be Y2K compliant, which can be found at: http://sunsolve5.sun.com/beta/vxfs/	VFS-3.2-B
Licenses only	
VERITAS File System for Desktop Workstations and Workgroup Servers Release 3.2 for Solaris 2.5/2.5.1 and 2.6. RTU only. EDU.	UNVFS-3.2-WS-L
VERITAS File System for Departmental and Enterprise Servers Release 3.2 for Solaris 2.5/2.5.1 and 2.6. RTU only. EDU.	UNVFS-3.2-ES-L
VERITAS File System for E10000 Servers Release 3.2 for Solaris 2.5/2.5.1 and 2.6. RTU only. EDU.	UNVFS-3.2-E10-L

General Notes
• *Read the Software licensing information before ordering any software products. See page 14.*

Sun StorEdge Enterprise NetBackup 3.2/Sun StorEdge Enterprise HSM 3.2

Together, NetBackup and Storage Migrator provide high-performance, industrial-strength backup and recovery services for Solaris, HP-UX, IBM AIX, Windows NT, and various other operating systems and platforms. With very high-speed backup of large databases, centralized management capabilities, mainframe-class media management, and support for a wide variety of tape drives and robotics, NetBackup and Storage Migrator are specially geared for Sun customers with large heterogeneous computing environments.

- NetBackup cost-effectively automates backup, archive and recovery for thousands of nodes across multiple servers, while enabling the enterprise to manage its storage from a single console. With optional add-on modules, NetBackup provides high-performance hot or cold database backup, as well as support for the very large, high speed tape robotics commonly used in large data centers. NetBackup features sophisticated media and device management capable of managing media across the enterprise from a single location.

- VERITAS NetBackup for Solaris Base Pack contains documentation and CD-ROM media with all the code for NetBackup functionality on the Solaris platform.

- VERITAS NetBackup for non-Solaris Base Pack contains documentation and CD-ROM media with all the code for NetBackup functionality on all supported non-Solaris UNIX platforms.

- VERITAS NetBackup for PCs Client Media Kit contains documentation and CD-ROM media. This is required if backup of non-UNIX PC clients is needed.

- The Sun StorEdge Enterprise NetBackup Database Extensions for non-Solaris Platforms Media Kit contains documentation and CD-ROM media. This is required for online backups of non-Solaris systems.

- Online Database Backup Support is required in order to perform online or offline backups of databases by interfacing with the database or applications vendors' backup utilities. The currently supported databases include SAP on Oracle, Oracle, Informix, Sybase, and SQL Backtrack. One Robotics RTU is required for each device attached to a particular server (except for Tier 0 support, which is included). For an up-to-date list of which devices are supported, and to which Tier each device is assigned, refer to "VERITAS NetBackup and Storage Migrator: Supported Operating Environments and Devices".ach device is assigned, refer to "Sun StorEdge Enterprise NetBackup and Sun StorEdge Enterprise HSM: Supported Operating Environments and Devices".

- VERITAS Storage Migrator for UNIX, including Solaris Base Pack contains documentation and CD-ROM media with all the code for Storage Migrator functionality on the Solaris platform.

Sun StorEdge Enterprise NetBackup 3.2/Sun StorEdge Enterprise HSM 3.2 *(cont.)*

- The Veritas HSM for non-Solaris Base Pack contains documentation and CD-ROM media with all the code for HSM functionality on all supported non-Solaris UNIX platforms. each system to be backed up.

- The VERITAS Storage Migrator Remote is an alternative Storage Migrator package which migrates data to disk storage on a remote server. Storage Migrator Remote can be installed with Storage Migrator, but does not require it.

- The VERITAS Storage Migrator RemoteStorage for UNIX (including Solaris) Base Pack contains documentation and CD-ROM media with all the code for Storage Migrator Remote functionality on all supported UNIX platforms.

- Both Enterprise Extension and NetBackup use the same Robotics Support Licenses. In the case where a server is both a NetBackup and an Enterprise Extension server, only one Robotics RTU is required.

- Sun StorEdge Enterprise HSM provides robust, multi-level hierarchical storage management capabilities. By automatically migrating least-used files to secondary storage according to administrator-defined policies, HSM allows the enterprise to effectively manage the use of expensive primary storage. Sun StorEdge Enterprise HSM features the same media management and centralized administration capabilities as Sun StorEdge Enterprise NetBackup. The two products can be used independently of one another, or as an integrated unit, sharing the media manager and central management console.

- The Sun StorEdge Enterprise HSM 3.1.1 Management Interface RTU is a license for a single HSM server. The Management Interface contains the Management Engine and Management console.

- The Remote Storage Extension is an alternative HSM Management Interface which migrates data to disk storage on a remote server. The Remote Storage Extension can be installed with the HSM Management Interface, but does not require it.

- Sun StorEdge Enterprise HSM supports the same robotics modules as Sun StorEdge Enterprise NetBackup. Use the Sun StorEdge Enterprise NetBackup Robotics RTUs. Sun StorEdge Enterprise HSM does not support client connections or the Database Extension.

- The Sun StorEdge Enterprise NetBackup and Sun StorEdge Enterprise HSM CD-ROMs contain all of the code necessary for the products and their optional modules to function. All of the features, including optional features are immediately available. The RTUs for the optional modules are 'paper licenses' indicating which functions the customer is entitled to use.

Requires:
- See "Sun StorEdge Enterprise NetBackup/HSM and Veritas NetBackup/HSM for Non-Solaris: Supported Operating Environments and Devices" for a complete and up to date list of all supported operating systems, tape devices, and other requirements.

- The Solaris client requires Solaris 2.3 or later releases. See "Sun StorEdge Enterprise NetBackup and Sun StorEdge Enterprise HSM: Supported Operating Environments and Devices" for requirements for other client platforms.

- Sun StorEdge Enterprise HSM Management Interface and Sun StorEdge Enterprise HSM Remote Storage Extension require Solaris 2.4, 2.5, or 2.5.1.

Sun StorEdge Enterprise NetBackup 3.2/Sun StorEdge Enterprise HSM 3.2 *(cont.)*

Description	Order Number
Base Pack (Media and Documentation)	
NetBackup, or NDMP Server Scholarpac License for Solaris, UNIX, RTU Only	VNBSS-999-9E99
Storage Migrator (HSM) Server or Enterprise Extension License, RTU Only	VHSSS-999-9E99
Sun Enterprise NetBackup Client Support	
NetBackup and Storage Migrator (HSM) single Client License or Single Client encryption License (US $ International) for Departmental and Enterprise Servers RTU Only	VNBCS-999-WE99
Robotics Support	
Robotic Support for NetBackup and Storage Migrator (HSM) First Connection, Tier 1 Robotics, RTU Only	VNARS-999-WE99
Robotic Support for NetBackup and Storage Migrator (HSM) First Connection, Tier 2 Robotics, RTU Only	VNARS-999-DE99

General Notes

- *Read the Software licensing information before ordering any software products. See page 14.*

- *See the License Tier Definition table for a complete list of systems sorted by tier level.*

- *Upgrade information (from Sun Enterprise NetBackup/HSM 3.0 to 3.1.1) can be found in the "Solaris Media, Subscriptions and Unbundled Software Upgrades" section of this pricebook.*

Robotics Support

One Robotics RTU is required for each device attached to a given server. The Sun Enterprise NetBackup and Sun Enterprise HSM Management Interfaces each include an unlimited Tier 1 Robotics license. For a complete list of supported devices, refer to *"Sun Enterprise NetBackup and Sun Enterprise HSM: Supported Operating Environments and Devices"*. The following table lists only the Sun tape autoloaders and libraries, and their required Robotics Tier license.

Robotic Type	Robots Supported	Robotics Tier License
4MM Autoloader	Sun StorEdge 4mm DDS-3 Autoloader	0
8MM Tape Libraries	Sun StorEdge L140	1
	Sun StorEdge L400	2
DLT Tape Autoloaders and Libraries	Sun SPARCstorage DLT 4700	1
	Sun Enterprise Tape Library 4/1000	2
	Sun StorEdge L1800	2
	Sun StorEdge L3500	2

Solstice DiskSuite Products

Solstice DiskSuite provides logical volume management capabilities, including RAID 0/1/5, hot spare pools, and a graphical user interface, as well as UNIX file system extensions such as 1TB file systems and file system journaling.

Description	Order Number

Unlimited User-License

Solstice DiskSuite 4.1 for Solaris 2.4 and later Solaris 2.x release

Description	Order Number
ScholarPAC Solstice DiskSuite 4.1 Desktop Pack for Solaris SPARC 2.4, 2.5, and 2.5.1. Unlimited use License and Media	UNSDS-4.1-SL

General Notes

- *Read the Software licensing information before ordering any software products. See page 14.*

- *Solstice DiskSuite 4.1 for Solaris 2.4/2.5/2.5.1 requires Solaris 2.4 or later Solaris 2.x release. Solaris 1.x release.*

- *A Single-System License authorizes the use of the software on one system.*