



VERITAS VOLUME MANAGER™

Setting the standard for online disk storage management.

VERITAS Volume Manager™ software is an advanced, system-level disk and storage array solution that alleviates downtime during system maintenance by enabling easy, online disk administration and configuration. The product also helps ensure data integrity and high availability by offering fast failure recovery and fault tolerant features. VERITAS Volume Manager software provides easy-to-use, online storage management for enterprise

computing and emerging Storage Area Network (SAN) environments. Through the support of RAID redundancy techniques, VERITAS Volume Manager software helps protect against disk and hardware failures, while providing the flexibility to extend the capabilities of existing hardware. By providing a logical volume management layer, VERITAS Volume Manager overcomes the physical restriction imposed by hardware disk devices.

HIGHLIGHTS

- Data redundancy (RAID 0, 1, 0+1, 1+0, 5).
- Dynamic multipathing (DMP) support.
- Intuitive Java™ technology-based platform-independent graphical user interface.
- Enables easy movement of data between nodes in a SAN environment.

VERITAS VOLUME MANAGER SOFTWARE

FEATURES

HIGH AVAILABILITY

Online storage reconfiguration and database table space growth

Mirroring of storage (RAID-1)

Data redundancy (RAID-5, RAID-1+0, RAID-0+1)

Hot relocation of failed redundant storage

DRL (Dirty Region Logging)

SCALABILITY/PERFORMANCE

Online performance monitoring and tuning tools

Striping (RAID-0) and selective disk mirroring

Dynamic Multipathing (DMP) support

Spanning of multiple disks

Online relayout

Task monitor

BENEFITS

Uninterrupted data access during planned system maintenance.

Higher availability with fault tolerance and faster data access.

Reduces storage costs for data redundancy or by maintaining access to data even when multiple disks fail.

Automatic restoration of data redundancy when disks fail.

Provides fast recovery after a system failure.

Tools to assist in identification and minimization of I/O bottlenecks.

Increases throughput and bandwidth while providing scalable performance and balancing of application data loads.

Increases performance to multi-controller disk arrays by spreading I/O between the multiple paths into the array.

Easier access to data and automatic path recovery across redundant fibre channel loops.

Eliminates physical storage limitations.

Online tuning ability enables reconfiguration of storage layout.

Ability to throttle volume recovery speed and monitor VM I/O tasks.

SYSTEMS SUPPORTED

Server Platforms

Sun Enterprise™ 10000 server

Sun midrange servers (Sun Enterprise 3500-6500)

Sun workgroup servers (Sun Enterprise 250, 450)

Sun Ultra™ workstations

Netra t 1120/1125

Netra t A1000/D1000

Sun StorEdge™ Systems

Sun StorEdge™ A5x00, A3x00, A1000/D1000 disk arrays

Sun StorEdge MultiPack and UniPack disks

OPERATING SYSTEM

Solaris™ Operating Environment versions 2.5.1, 2.6, 7, and 8

HARDWARE REQUIREMENTS

16 MB of memory (recommended)

86 MB of disk storage

CENTRALIZED MANAGEMENT

Intuitive Java-based platform-independent graphical user interface

Device driver, file system, and database independence

Free space pool management for automatic or directed allocations

Logical diskgroups

Maximum volume size button

Unique disk IDs

Displays logical view of storage devices, providing easy monitoring of disk I/O configuration and management that improves productivity.

Easy integration with disk subsystems and arrays including hardware RAID systems.

Simplifies administration and provides flexible use of available hardware.

Enables easy movement of data between nodes in a SAN environment.

Automatically calculates the maximum free space available for building volumes on chosen disks.

Eliminates disk misidentification, allowing disks to be added and removed and configured automatically and online.

HETEROGENEOUS SUPPORT

Ability to move diskgroups between different versions of Volume Manager

Available on numerous Sun hardware platforms

Supports multiple Sun disk arrays

Easier migration with reduced downtime.

Reduces training costs.

Provides maximum flexibility by allowing businesses to select the storage hardware solution that best meets their needs.

INTEGRATION

Data Snapshot

Provides mirrored data snapshot which enables online backup of data via backup application such as VERITAS NetBackup.

HEADQUARTERS SUN MICROSYSTEMS, INC., 901 SAN ANTONIO ROAD, PALO ALTO, CA 94303-4900 USA

PHONE: 650-960-1300 OR 800-555-9SUN INTERNET: www.sun.com

SALES OFFICES

AFRICA (NORTH, WEST, AND CENTRAL): +33-1-3067-4680 • ARGENTINA: +5411-4317-5600 • AUSTRALIA: +61-2-9844-5000 • AUSTRIA: +43-1-60563-0 • BELGIUM: +32-2-716-79-11 • BRAZIL: +55-11-5187-2100 • CANADA: +905-477-6745 • CHILE: +56-2-372-4500
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