VERITAS Volume Replicator™

ENTERPRISE-CLASS DISASTER RECOVERY FOR MISSION-CRITICAL ENVIRONMENTS

Key Benefits:
- Essential component for disaster recovery solution
- Uncompromised data integrity
- Scalable to multiple replication sites over any distance
- Replicates data between any storage hardware platform and across operating system platforms
- Easily plan and test the replication environment

Whether motivated by disaster, site failure or a planned site migration, VERITAS Volume Replicator provides the foundation for seamless availability across sites. Based on the de facto industry-standard VERITAS Storage Foundation™, VERITAS Volume Replicator reliably, efficiently and consistently replicates data to remote locations over any IP network for maximum business continuity. Volume Replicator provides a robust, storage-independent, disaster recovery solution when data loss and prolonged downtime cannot be tolerated.

PRODUCT HIGHLIGHTS
- **Data Protection** — Performs comprehensive volume group replication in both synchronous and asynchronous modes to ensure data integrity and consistency. Latency protection guards against a secondary replica site failing behind a defined amount.
- **Extensive Scalability** — Scales to support up to 32 secondary replication sites for many-to-one or one-to-many scenarios. Can replicate over any distance — across campus or across the globe.
- **Management** — Intuitive web and Java-based consoles assist with configuration and monitoring. Administrative tasks are performed online without interrupting business operations or compromising data availability.
- **Solution Integration** — Integration with VERITAS Cluster Server™ and the Global Cluster Option allows the monitoring of replication across sites and ensures that replication services are highly available. In addition, the replicated data at the secondary site can be quickly accessed by fully integrating with VERITAS Storage Foundation and VERITAS FlashSnap™.
- **Full Support of Database Management Systems** — VERITAS Volume Replicator fully supports all commercial database management systems including Oracle, Sybase, DB2, Exchange, SQL Server, etc.
- **Heterogeneous Hardware Support** — Replicates between any major hardware platforms to eliminate vendor-specific storage limitations.
- **Heterogeneous Operating System Replication** — Replicates data between Solaris and AIX to eliminate operating system dependencies.
- **Plan and test the replication environment** – Using VERITAS Volume Replicator Advisor Tool, collect and analyze your environments data to determine appropriate bandwidth requirements before replication implementation begins. After replication is implemented, quickly and easily verify your primary and secondary sites are in sync and test the replicated data to ensure your data will be recoverable should a disaster strike.
- **Instant Access to Replicated Data while saving storage space**— Quickly access the replicated data at the remote site for Disaster Recovery testing and data verification. VERITAS Volume Replicator enables an IT Administrator to access the replicated data and only requires a minimal amount of additional storage space for data processing.

OPEN SOLUTION
Unlike proprietary inflexible hardware approaches, the software-based replication of VERITAS Volume Replicator provides a reliable, efficient and cost-effective solution for geographically mirroring data sets. Organizations can replicate their data between any major hardware platforms to eliminate vendor-specific storage limitations. For example, using VERITAS Volume Replicator customers can replicate between single vendors alike arrays, between a single vendors dissimilar arrays or between two different vendors’ arrays. In addition, VERITAS Volume Replicator can replicate data from Sun Solaris to IBM AIX for data center migrations between multiple operating systems.
Furthermore, VERITAS Volume Replicator replicates data over a standard IP network across any distance.

RESILIENT AND EFFICIENT
VERITAS Volume Replicator makes efficient use of network resources and keeps WAN traffic to a minimum by replicating only the data blocks that actually change. It also gracefully handles temporary network outages and failures and includes robust error-handling capabilities — which is an absolute requirement for long-distance replication over wide area networks. For example, VERITAS Volume Replicator can switch from synchronous to asynchronous mode on the fly to eliminate downtime under network failure scenarios. In addition, VERITAS Volume Replicator provides rapid resynchronization in the event of a migration from a primary to a secondary site. This rapid, delta-based, logging and resynchronization capability means that failover and failback can occur under all shutdown scenarios (graceful and non-graceful) without having to resend entire data sets over the network. VERITAS Volume Replicator also provides a free tool, VERITAS Volume Replicator Advisor, to assess and analyze the environment before implementing replication to ensure that the bandwidth requirements are met.
UNCOMPROMISED DATA CONSISTENCY
VERITAS Volume Replicator maintains data consistency within and among volumes to deliver uncompromised data integrity at secondary locations whether operating in synchronous or asynchronous mode. Synchronous replication does not allow the secondary to get behind, or lag, thereby eliminating the threat of any data loss. Like the synchronous replication, asynchronous mode guarantees data consistency or integrity, but allows the secondary to lag slightly. This asynchronous capability makes VERITAS Volume Replicator ideally suited to provide maximum performance over long distances. By faithfully maintaining write order fidelity within and among volumes, VERITAS Volume Replicator ensures data integrity in any mode for any application environment, including all major database management platforms. In addition, the replicated data at the secondary location can be easily accessed for data processing and disaster recovery testing to ensure that the data is always protected.

COMPLETE HIGH AVAILABILITY DISASTER RECOVERY SOLUTION
The full integration of VERITAS Volume Replicator and VERITAS Cluster Server including the Global Cluster Option, provides a powerful high availability disaster recovery solution. VERITAS Cluster Server handles local availability issues. VERITAS Volume Replicator replicates critical data to a remote site, and the Global Cluster Option monitors and manages the replication jobs and clusters at each site. In the event of a site failure or complete failure of applications at the primary site, the Global Cluster Option will control the shift of replication roles to the secondary site, bring up the critical applications and redirect client traffic with a single command or mouse click.

WORLD CLASS HIGH AVAILABILITY AND DISASTER RECOVERY CONSULTING SERVICES
A solution for high availability and disaster recovery doesn’t stop with the technology. Disaster Recovery and Business Continuity requires recovery objective analysis, plan recovery and strategies to name a few. VERITAS not only provides a proven solution for high availability and disaster recovery, but also offers world-class consulting services to help you define requirements and procedures while ensuring that current investments are utilized.

When used in conjunction with the entire suite of VERITAS high availability technologies and services, VERITAS delivers the ultimate disaster recovery solution when data and application availability is paramount.

SUPPORTED PLATFORMS
- HP-UX: 11i
- IBM AIX 5.1, 5.2
- Microsoft Windows 2000
- Sun Solaris: 2.6, 7, 8 and 9

RELATED INFORMATION
- VERITAS Storage Foundation Datasheet
- VERITAS Cluster Server Datasheet
- VERITAS Services Datasheet
- VERITAS Disaster Recovery Services Datasheet
- VERITAS Supported Clustering Architectures Datasheet

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