

Data and Application Availability Management

DISASTER RECOVERY

• HA CLUSTERING

• DATA PROTECTION

LifeKeeper® Disk to Disk Backup

Key Features:

- Supports all versions of Windows Server 2000/2003
- Real-time, continuous backup, disk to disk
- Access to backup data in a fraction of the time, cost, and complexity of tape
- Online data access eliminates restores from tape and potential data corruption
- Continuous, periodic, or scheduled backup
- Backup data from Microsoft Exchange, SQL Server, Oracle, and other enterprise Windows applications
- Only replicates changes to minimize bandwidth usage
- Integrates with existing tape systems for disk-to-disk-to-tape configurations
- Integration with Windows Backup Utility for additional cost savings
- Lays the foundation for building of full high-availability solution for application and data protection

Real-time Data Backup and Protection for Windows

SteelEye LifeKeeper Disk to Disk Backup

The advent of new government regulations, the evolution to on-demand computing, the explosion in volume of data processed and the falling price and increased capacity of disk-based storage is changing how organizations manage and protect their critical data assets. Traditional tape-based backup provides a low-cost mechanism for data archival, but with the need to focus on availability and speed of recovery, tape-based backup is no longer an appropriate stand-alone solution.

Disk to Disk backup introduces compelling new opportunities in data protection, recovery and availability and cost savings. For many organizations, disk backup is now an essential component for enabling higher levels of business continuity and disaster recovery. SteelEye LifeKeeper Disk to Disk Backup is a comprehensive, proven solution for providing real-time continuous server backup as well as data archival. LifeKeeper Disk to Disk Backup is a foundation component of the SteelEye LifeKeeper family of data protection, high availability clustering and disaster recovery products that deliver "scalable availability" to organizations of all sizes.

Continuous Backup in Real-Time

LifeKeeper Disk to Disk Backup enables continuous, real-time data backup. By backing up to disk, and taking advantage of the inherent data protection built in to disk drives, organizations immediately solve the most significant problem with tape-based backup - data loss caused by media corruption. Industry sources estimate that between 15-30% of all restores fail because of a problem that occurred when the data was originally written to tape, or data became corrupted because of the instability of the media.

With LifeKeeper Disk to Disk Backup production data changes are immediately and continuously replicated to a designated backup storage device. Should a system failure or disaster occur, organizations always have available the most current version of their data, and can eliminate data loss caused by having to recover from old archives.

Simple Restore; Consolidated

With LifeKeeper Disk to Disk Backup, because data is always available on a hot disk, the recovery process is simple and fast. LifeKeeper Disk to Disk Backup replicates data to disk without requiring encryption or compression. Subject to standard Windows security controls, data can be accessed and restored immediately from the backup storage device. The data on the backup system can be accessed in read-only mode for report generation, analysis, or backup to tape. This allows offloading data processing functions from the primary application server to the backup system and the consolidation of all backup operations to a single server.

About SteelEye Technology

SteelEye is the leading provider of data and application availability management solutions for business continuity and disaster recovery for Linux and Windows.

The SteelEye LifeKeeper family of application-focused data replication, high availability clustering and disaster recovery solutions are easy to deploy and operate, enabling enterprises of all sizes to ensure continuous availability of business-critical applications, servers and data.

To complement its software solutions, SteelEye also provides a full range of high availability consulting and professional services to assist organizations with the assessment, design and implementation of solutions for ensuring High Availability within their environments.

To contact SteelEye, visit our website at www.steeleye.com, or call

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LifeKeeper® Disk to Disk Backup

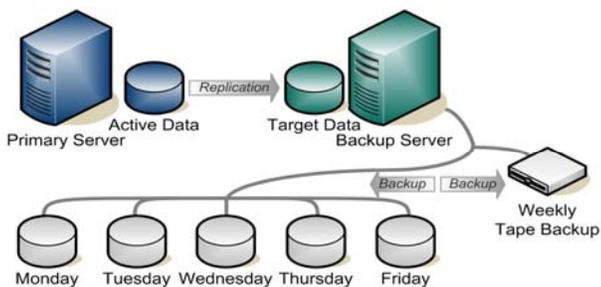
Flexible Protection

LifeKeeper Disk to Disk Backup offers flexibility in defining how and when data is backed up, with options for continuous, periodic and scheduled replication procedures. A useful feature is the ability to backup to daily online volumes, each of which can then be maintained for short-term data access requirements, and then be backed up offline to a tape system for long-term storage and data archiving.

Integration with Tape-Based Backup for Archival Portability

LifeKeeper Disk to Disk Backup can work in conjunction with a wide range of industry-standard tape backup systems and devices to establish a variety of automated and scheduled backup procedures which eliminate the need to schedule daily backup sessions on production servers.

In the disk-to-disk-to-tape configuration below, a backup server is built with separate volumes designated for each business day. Data replication is used to provide a real-time copy of business data onto the respective volume of the backup server. At the start of the next day, the data mirror is redirected to the appropriate volume. In this setup, five business days of data is available for immediate restore via a simple mount and drag/drop operation at any time. Once a week, a full backup is taken to tape for offsite storage. This combination of disk and tape backup provides the benefits of fast recovery with the security of offsite storage.



LifeKeeper Disk to Disk Backup with daily snapshots to disk and weekly backups to tape

Complete Data Security

LifeKeeper Disk to Disk Backup incorporates several critical features that ensure the highest levels of data protection and security:

- ... In the event of a network failure, re-synchronizing data and disks is fast and dependable with LifeKeeper Disk to Disk Backup's intent-logging capability.
- ... Because LifeKeeper Disk to Disk Backup works securely at the block level, below the file system, it provides organizations with direct control of what data is backed up and how data can be accessed.
- ... Unlike file-level replication products, LifeKeeper Disk to Disk Backup replicates not only data files but also storage metadata files which contain critical information such as data access permissions that are vital to maintaining data security in the backup environment.
- ... During operation, LifeKeeper Disk to Disk Backup maintains the highest levels of data protection by controlling access to the backup environment to prevent unauthorized or inadvertent update access, and to eliminate the potential for data corruption.

High Performance - Resource Efficient - Cost Savings

LifeKeeper Disk to Disk Backup replicates data at the block level, below the file system, and only backs up data changes, thereby minimizing the demand on systems and networks. Unlike file-based approaches to data replication, LifeKeeper Disk to Disk Backup is not dependent upon the file system to gain data access and does not incur the same levels of server resource utilization or latency that can cause critical out-of-sync conditions.

Because LifeKeeper Disk to Disk Backup works below the file system, there are no issues with backing up "in use" files. Therefore, unlike tape backup products that require the purchase of additional database and application agents in order to backup in use files, LifeKeeper delivers significant cost savings, particularly in large, multi-server environments.

For many organizations, LifeKeeper Disk to Disk Backup offers the potential to completely eliminate expensive vendor solutions for tape-based backup, and to instead rely upon the Backup utility that comes with the Windows operating system.

Scalable Availability and Disaster Recovery

LifeKeeper Disk to Disk Backup is an integral component of the SteelEye LifeKeeper family of data protection, high availability clustering and disaster recovery products.

Integrating LifeKeeper Disk to Disk Backup with LifeKeeper High Availability Clustering delivers comprehensive, automated data recovery and application availability protection. Coupled with LifeKeeper Data Replication, organizations can establish a complete automated solution for disaster recovery protection over wide area networks.

About SteelEye LifeKeeper

SteelEye LifeKeeper provides fault-resilience for the most demanding enterprise deployments at low cost by supporting configurations built on commodity servers and storage and by removing the need to make application environment changes. LifeKeeper delivers advanced monitoring of servers, networks, operating systems, applications and data along with automated healing capabilities based on policies set by system administrators to ensure that applications and data are always available. LifeKeeper for Windows is ideal in environments that run mission critical database and messaging operations and is today protecting world-wide. As customers look to deploy enterprise applications on Windows, they can be assured of the high availability benefits of LifeKeeper for Windows across the spectrum of Intel-compatible platforms.

Supporting the widest range of server and storage configurations from simple LAN clusters to clusters across a Fibre Channel SAN to shared-nothing clusters built around data replication, LifeKeeper lets you deploy the solution that best meets recovery time objectives today while allowing for expansion in the future. With support of both Linux and Windows and the ability to manage both environments from a single console, LifeKeeper can protect the entire IT infrastructure regardless of platform.

Backed by SteelEye Consulting Services

SteelEye offers a full range of consulting and professional services to assist customers in achieving high availability business objectives and to support the deployment of SteelEye products. Services include High Availability Assessment, Solution Design, Configuration/Deployment and Training.

We are the High Availability Experts.