



LifeKeeper® Disk to Disk Backup™

The evolution to on-demand computing and the commoditization 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 solution.

Key Features:

- Real-time, continuous backup, disk to disk
- Access to backup data in a fraction of the time, cost and complexity compared with tape
- Online data access eliminates restores from tape and potential data corruption
- Continuous, periodic, or scheduled backup
- Change-level backup to reduce backup volume
- Integration with existing tape backup systems
- Integration with Windows Backup Utility for additional cost savings

Disk backup, which provides the ability to replicate data between disks, introduces compelling new opportunities in terms of data protection, recovery and availability, as well as 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™

SteelEye LifeKeeper Disk to Disk Backup is a comprehensive, proven solution for providing real-time continuous server backup as well as data archival capabilities.

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. LifeKeeper Disk to Disk Backup overcomes the complexity of backup that relies solely on tape-based systems, and their significant cost in terms of performance, recoverability, data latency, and data corruption. Combining this real-time backup capability with the ability to do periodic snapshots provides both an element of high availability along with data recoverability.

Zero Data Loss

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. Some industry sources estimate that between 15-30% of all restores fail because of a problem with which 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.

Immediate Data Access – No Restore Required

With LifeKeeper Disk to Disk Backup, because data is always available on a hot disk, in the event of a system failure, the recovery process is virtually immediate. LifeKeeper Disk to Disk Backup replicates data to disk, without the requirement for encryption or compression. Subject to appropriate security controls, data can be accessed or restored immediately from the backup storage device.

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 that eliminate the need to schedule daily backup sessions on production servers.

SteelEye LifeKeeper Disk to Disk Backup

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 meta data files that 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.

Significant Cost Savings - Integration With Windows Backup Utility

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 do 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.

Furthermore, 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

Backup Consolidation - Centralized Back-Up Over Wide Area Network

Many organizations are spread across campuses, cities, the country or around the world. With LifeKeeper Disk to Disk Backup, integrated with LifeKeeper Data Replication, an IT department can centralize backup operations into a single location.

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.

Technical Requirements

- Windows 2000/2003 Server, Advanced Server and Data Center Server

About SteelEye Technology®

SteelEye is a leading provider of enterprise IT reliability solutions for business continuity and disaster recovery. The SteelEye LifeKeeper family of software products enable enterprises of all sizes to ensure continuous availability of business-critical applications and data on industry standard Intel-based servers and storage systems. SteelEye software products are available worldwide and may be purchased directly from SteelEye or through the SteelEye international network of business partners.

For more information, visit the SteelEye web site at www.steeleye.com.

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