



HP StorageWorks Storage Mirroring software offers data replication and server failover to reduce risks and keep your business running through unforeseen events

Attacks, errors and failures can occur at any time. Data protection is a key strategy for any business. Proactive replication reduces risks and keeps a business running when the unforeseen occurs.

Natural and man-made disasters can occur when you least expect them – serving as a reminder that in less than a moment's notice, volumes of data loss can occur. To prevent data loss due to failure, error or disaster, HP StorageWorks Storage Mirroring Software provides replication of valuable Microsoft® Windows® and Linux data to another server. Proactive replication is a key strategy that can be coupled with tape backup and/or snapshot technology for up-to-the-second data protection. Having data replicated in two locations enables customers to recover their static and transactional data without affecting productivity.

Storage Mirroring Software provides host-based replication and failover for large companies and midrange customers seeking an alternative to fabric or array-based replication. Patented replication and

failover technology continuously captures byte-level data changes as they occur in your production environment and replicates those changes to one or more servers in any location without geographic limitations. By replicating only the bytes that change, Storage Mirroring Software uses the minimum bandwidth required to replicate customer data. Advanced features allow a customer to control bandwidth usage and queue data for replication during off-peak times if required. This software does not need special hardware to run and uses existing LAN or WAN infrastructure which already exists in their environment—saving time, additional investment and maintenance. Storage Mirroring Software is storage independent. It will support any DAS, NAS and SAN storage device and will support different platforms including Windows Server 2000, Windows Server 2003, Windows Storage Server, 64-bit Windows, Windows on Itanium and Red Hat Linux. The flexibility, resource optimisation and application-specific protection enable customers to solidify their data and disaster protection strategies using Storage Mirroring Software.

Key features and benefits

- **Performs real time data copies through continuous, asynchronous replication**

Storage Mirroring Software captures data changes as they occur and ensures that the data is in the proper sequence as it arrives at the target server.

Figure 1: Simple one-to-one HP Storage Mirroring replication and failover configuration.

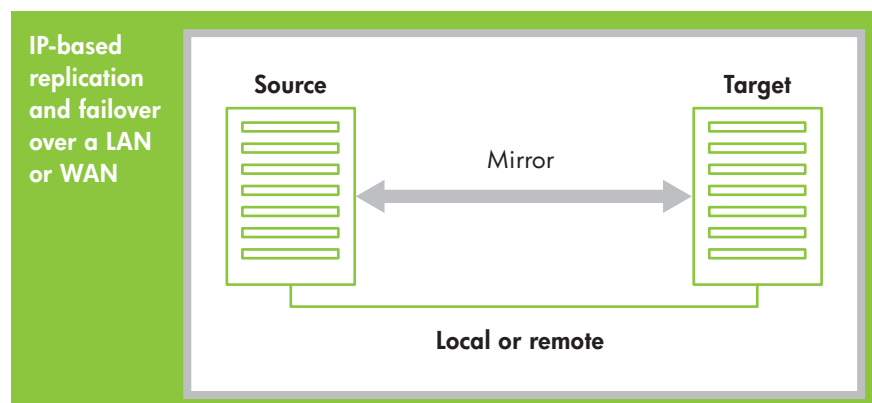
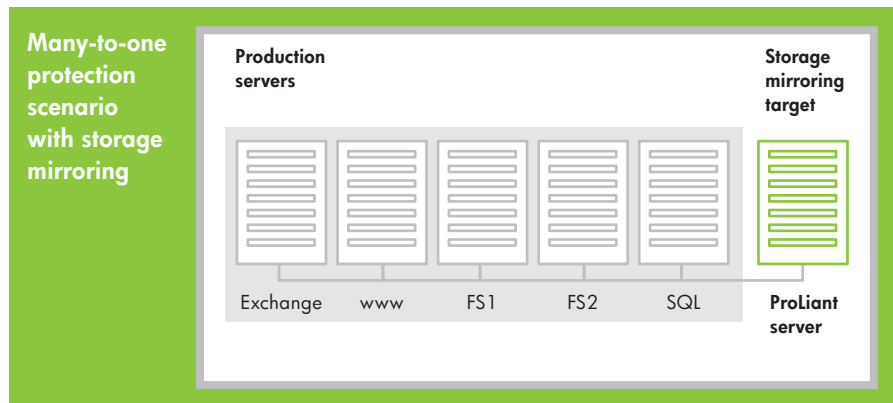


Figure 2: Many production servers can be replicated to a single target, which can failover any of the source servers.



- **Protects an Exchange Server 2003/2007 plus SQL Server 2000/2005/2008 and SharePoint Server 2007**

For customers with limited Exchange, SQL, or SharePoint knowledge or limited time, Storage Mirroring Software has an Application Manager for these applications, providing an automated, four button wizard to configure and test Exchange, SQL and SharePoint failover. This application enables accurate disaster recovery and high availability for each application.

- **Provides an alternative way to create a centralised data location for easier backup**

Storage Mirroring Software can eliminate the 'backup window' by replicating data from several production servers to a single centralised server. This centralisation enables tape backup to occur from the replication server instead of pulling data sets throughout the LAN or WAN from all production servers.

- **Supports a range of server, storage and operating system platforms**

Storage Mirroring Software is designed to be flexible, easy to learn and support many different customer platforms. Customers can intuitively learn how to use the software and be able to apply that knowledge to support any DAS, NAS and SAN storage and many operating system platforms.

- **Optimizes the use of networking technology with Intelligent Data Compression**

Engineered to reduce network consumption, Storage Mirroring Software gives customers various options to throttle bandwidth and compress data minimising the impact on their existing LAN/WAN bandwidth.

- **Support for VMware and Microsoft Virtual Machines environments with up to five virtual instances on a single physical machine and support for VMware's Virtual Infrastructure**

- **Server failover in several configurations—a simple one-to-one server failover, one-to-one with Full Server Failover, a simple many-to-one, server failure, or a many-to-one server failover with the Server Recovery Option**

Customers can get 'cluster-like' functionality with flexible configuration choices and different levels of rapid recovery

- **Supports multiple generations of different Windows platforms concurrently**

Customers can achieve efficiency by using a single software program for replication and failover even when different versions of an Operating System are deployed—e.g. Windows 2000, Windows 2003 R2, Windows on Itanium

Warranty and included services

HP warrants only that the software media will be free of physical defects for a period of ninety (90) days from delivery. For more information about HP Global Limited Warranty and Technical Support, visit www.hp.com/products/storageworks/warranty

HP Care Pack services

Customers can optimize technology operations, minimize risk and drive business outcomes with easy-to-buy, easy-to-use scalable support packages for servers, storage, networking, desktops, mobile computing, printing and imaging and software.

Support overview

Supported operating systems	Microsoft Windows Server 2003 R2 Standard x64 Edition Microsoft Windows Server 2003 R2 Enterprise x64 Edition Microsoft Windows Server 2003 Enterprise Edition for 64-Bit Itanium-based Systems Microsoft Windows Server 2003 Standard x64 Edition Microsoft Windows Server 2003 Enterprise x64 Edition Microsoft Windows Server 2003 Enterprise Edition	Microsoft Windows Storage Server 2003 Enterprise Edition Microsoft Windows Server 2003 Standard Edition Microsoft Windows Storage Server 2003 Standard Edition Microsoft Windows Server 2003 Web Edition Microsoft Windows 2000 Advanced Server Microsoft Windows 2000 Server Microsoft Windows 2000 Powered OS Red Hat Enterprise Linux 4.x
Supported virtual machines	VMware on Windows Microsoft Virtual Server	VMware Virtual Infrastructure
Supported applications	Exchange Server 2000/2005/2007, SQL Server 2000/2003/2005/2008, SharePoint Server 2007,	mySAP, Oracle Peoplesoft, Lotus Domino, Blackberry Enterprise Server
Applications supported in HP's special 4 Button Setup Wizard	Exchange Server 2000/2005/2007, SharePoint Server 2007	SQL Server 2000/2003/2005/2008,

For ordering information, please see QuickSpecs www.hp.com/go/QuickSpecs.

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HP Factory Express

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- Smoother implementation with reduced deployment time
- Accurate and reliable results
- Comprehensive choice of options

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For more information on Education services, visit education.hp.com/curr-storsan.htm

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HP Financial Services provides innovative financing and financial asset management programmes to help customers cost-effectively acquire, manage and ultimately retire their HP solutions. For more information on these services, please contact your HP sales representative or visit www.hp.com/go/hpfinancialservices

For more information

For more information about the HP StorageWorks Storage Mirroring software, contact any of our worldwide sales offices or visit our web site at www.hp.com/go/storageworks/storage mirroring

HP Services

HP Services has end-to-end, industry-leading expertise in delivering solutions that help you improve your business agility. From initial assessment and design to technical integration and ongoing support, HP Services can be your single point of contact and accountability.

HP related services:

- HP Installation and Startup Service for StorageWorks Storage Mirroring—provides implementation of the HP StorageWorks Storage Mirroring software on servers running Windows NT, Windows 2000 and Windows 2003 operating systems. It provides analysis, design, implementation and testing services to help deploy the functionality of real-time data mirroring between local and remote systems.
- Other applicable HP storage services include:
 - Backup and Recovery Solution Service
 - Data Replication Solution Service
 - Disaster Tolerant Management Service
 - Storage Essentials Solution Service
 - Electronic Vaulting Service for Enterprises
- HP Care Pack services—a comprehensive range of services for maintaining the highest levels of IT availability.
 - Critical Service
 - Proactive 24 service
 - Support Plus 24 service
- Instant Support Enterprise Edition (ISEE)—remote monitoring and support solution for your servers, storage and networks.
- Business Continuity Services—protect and strengthen IT infrastructure and associated business processes against site outages, disasters and environmental events.

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