

EMC RepliStor

Protecting against data loss and ensuring fast restoration after outages in Windows environments

The Big Picture

- Provides server-based asynchronous, realtime, byte-level replication of files, directories, volumes, and shares from source to target systems for Windows environments running on LANs or WANs
- Performs locally and remotely in one-to-one, one-to-many, and many-to-one configurations, providing multiple levels of data recovery, distribution, and consolidation
- Protects data by providing a remote, consistent copy at all times
- Ensures data recovery with Microsoft Volume Shadowcopy Service (VSS) to allow full recovery of Windows data and applications
- Supports any storage device; does not require proprietary hardware
- Reduces branch-office expenses—hardware, media, and administration—by replicating branch-office data to a central location for backup using tools such as NetWorker
- Minimizes data and application downtime and increases user productivity with automated server failover to a remote target

Ongoing business viability

EMC® RepliStor® provides server-based local and remote asynchronous replication for Microsoft Windows environments. RepliStor replicates files, directories, volumes, and shares—on a schedule or in real time—from a source server to a target server or servers using TCP/IP connectivity, regardless of data location. RepliStor operates over local area network (LAN) and wide area network (WAN) connections as well as across Windows domains. It does not require proprietary or specialized hardware and can be installed and administered remotely from any RepliStor client on your network.

RepliStor is a reliable, low-cost business continuance solution providing data replication, data recovery, data migration, and failover of server identity and applications. If a server fails, RepliStor ensures users stay connected to their applications and data at the secondary location.

Continuous data protection

RepliStor keeps your business productive during an outage, minimizing data loss and increasing recoverability. Protection goes beyond nightly backup to tape. Realtime data replication with RepliStor increases Windows server uptime and reliability and protects against data loss in Microsoft Exchange, SQL Server, Internet Information Services (IIS), Print Services, and other Windows files. After initially synchronizing the data, RepliStor replicates any file changes to one or more target servers continuously or on a scheduled basis.

Data recovery

Data recoverability is a top concern for many companies. As a result, demand is growing to boost Microsoft Exchange 2003, 2007, and SQL Server 2005 uptime and recoverability. RepliStor creates file system, Exchange 2003, 2007, and SQL Server 2005 snapshots on a target server, without impacting the primary server. Leveraging Microsoft VSS to provide application-consistent snapshots, RepliStor ensures recoverability in case of data corruption or even a disaster on the primary server—allowing full recovery of Windows data and applications.



Non-intrusive branch-office data consolidation

Financial compliance regulations and other business imperatives require companies to protect data at remote locations. Unfortunately, acquiring and managing remote hardware and media is complex and the high costs continue to rise. Backing up remote office data to tape each night and shipping the tapes to be vaulted in a central location is not a complete solution: security can be breached and media can be lost. RepliStor replicates data to one or more locations, minimizing remote hardware, media, and personnel costs and simplifying media storage and security. Once branch-office data is replicated to the central data center, customers can use backup products such as NetWorker to backup all data, improving overall efficiency at all locations.

Easy installation and management

RepliStor is inexpensive and easy to implement, learn, and manage, so it will not strain your IT budget or personnel. With minimal effort and in little time, RepliStor can be up and running. Wizards make Microsoft Exchange 2003, 2007, and SQL Server 2005 VSS snapshot set-up quick and straightforward. An administrator can then manage the entire replication process, including schedules and target locations, from a centrally located graphical user interface.

System efficiency

RepliStor uses minimal server and network resources and can be installed on an existing server without impacting application performance. After initial file synchronization, RepliStor updates and replicates changes only. Companies can dedicate a network interface card (NIC) to manage RepliStor traffic, easily isolating it from the rest of the network and managing its impact on bandwidth.

Availability of clustered environments

Whether running in a physical environment or alongside VMware® ESX Server™ in a virtual environment, RepliStor can be integrated with EMC AutoStart™ to provide granular application protection during planned or unplanned outages. In the event of application, network, or hardware failure, AutoStart manages application and data failover services automatically so applications keep running. AutoStart also manages the failback process when data on the primary server has been recovered. RepliStor replicates the data for appropriate re-synchronization and relocation while AutoStart manages applications and the storage replication restart processes. AutoStart seamlessly transfers control of storage resources to a remote facility in the event of a remote-host application restart.

Feature	Benefits
Ensured recoverability	Recovers Exchange 2003, 2007, SQL Server 2005, or file system data from Microsoft VSS snapshot if real-time replica is not recoverable.
Continuous, asynchronous, byte-level data replication	Captures and replicates changes in real time over unlimited distance with negligible effect on application performance. After initial synchronization, consumes minimal server and network resources.
Remote office protection	Performs locally and remotely in one-to-one, one-to-many, and many-to-one configurations, providing multiple levels of data recovery, distribution, and consolidation.
Hardware independence	Runs on the server so it does not require proprietary or specialized hardware.
Write-order consistency	Ensures data integrity for all applications.
Three levels of security protection	Meets stringent security requirements using connection, integrity, and encryption security.
Network bandwidth throttling	Allows users to limit the amount of network bandwidth used for replication.
Scalability	Scales from small to large Exchange deployments.
Integrates with EMC AutoStart	AutoStart provides an end-to-end automated application failover solution regardless of distance.
Supports VMware ESX Server and VMware Server	Ensures flexibility of protecting data in a physical or virtual environment.
Ease of use	Wizards provide automated, fast set-up of Exchange 2003, 2007, and SQL Server 2005 Microsoft VSS snapshots.
Server downtime protection	Minimizes data and application downtime and increases user productivity with automated server failover to a remote target.
Reporting	Allows ad-hoc or scheduled reports to monitor environment health, performance, and tuning.
Wizards for Exchange and SQL VSS setup	Provides integrated wizards for ease of use, creating multiple recovery options at the recovery site.

About EMC

EMC Corporation (NYSE: EMC) is the world leader in information storage systems, software, networks, and services, providing automated networked storage solutions to help organizations get the maximum value from their information, at the lowest total cost, across every point in the information lifecycle. Information about EMC's products and services can be found at www.EMC.com.



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