

LEGATO RepliStor®

LEGATO solutions



Achieving Offline, Centralized Tape Backup For Windows

Clothes are purchased, cash is deposited, and payments are made for services rendered at local retail establishments and branch offices. Protecting the information about daily business operations is critical. The manpower and infrastructure required to ensure it's protected and recoverable could cause a business to go bankrupt. And today, the SEC, HIPAA and other regulatory agencies are not only asking businesses to protect remote office information, but to also remotely backup centralized data to safeguard against major disaster. LEGATO RepliStor offers a simple and cost effective solution enabling the consolidation of geographically distributed information, as well as the ability to duplicate it to a remote location for backup and recovery operations.

When data is consolidated using replication solutions such as LEGATO RepliStor in the branch office, it can be backed up in a central location, using equipment, personnel and software already in place for the enterprise. The high-value benefits of this approach include:

- **Reduced cost** – Use one set of library equipment, backup systems, and operators trained to manage and eliminate the cost of rotating tapes from distributed locations
- **Removed risk** – Backups are managed according to policies, by trained operators
- **Improved protection** – Data is replicated off-site at the moment it's created, rather than weeks or months later when the tape is pulled and rotated
- **Speeds branch business** – Removes burden of operating local backup, slowing systems and networks
- **Enables rapid business resumption through site failures** – When branch office sites go down, data created at the instant of the failure is online and immediately available, enabling rapid business resumption

Protect Data Without Added Hardware, Software or Personnel

RepliStor offers unlimited flexibility in terms of data selection and target configuration to accommodate almost any required configuration from one-to-one, one-to-many and many-to-one. RepliStor can be deployed on both Windows Servers or Windows Powered NAS to accommodate data replication from geographically distributed sites to a centralized server; making it the perfect solution for performing centralized backup operations. Branch offices and remote locations can use RepliStor's asynchronous replication to send their data to the data center where backup operations happen on a daily basis. This can significantly reduce IT requirements at remote locations, while leveraging administration and hardware in the data center.

Ensure Policies are Maintained and Data is Recoverable

When backups are run at each branch office, there is no guarantee that backup policies are followed, tapes are rotated and not overwritten or even if they are cycled off-site for disaster recovery protection. RepliStor helps remove these risks by allowing businesses to consolidate branch office data and back it up centrally according to policies by trained IT staff. This improves businesses ability to manage whether branch data is successfully protected to tape and whether it is recoverable.

Flexible Configuration and Product Design Ensures Performance

While RepliStor ensures all critical information including files, directories, volumes, shares and selected Windows Registry Keys is replicated to secondary systems and more, it is also designed to minimize the impact to both network and server resources. RepliStor replicates only the changes in Windows data as they are written by the production server and does not replicate unnecessary data. RepliStor's advanced features including filtering and scheduling, the ability to define exclusions, optional retention of deleted files, along with throttling and compression ensures maximum control and efficiency of existing network connections with minimal impact. RepliStor can further reduce the impact to network bandwidth by allowing the ability to dedicate a NIC to RepliStor traffic, making it easy to isolate from the rest of the network traffic. If a server or network failure occurs and then comes back online, RepliStor automatically verifies the source data against the target and re-synchronizes any and all files that are different.

Achieve Impact-free Backup of Critical Applications

Reduced performance of critical applications has many consequences from reduced employee productivity to lost business due to impatient consumers searching for another web site when they have to wait. RepliStor can help protect critical Windows applications without impacting their performance. With RepliStor, tape backup can run at any time without impacting application performance on source servers.

RepliStor's real-time replication ensures an up-to-date copy of data is on target systems. Backups can then be run from the target system at any time without affecting users on the source production servers. And these backups can be run without impacting the replication process because of a feature called "pause updates". By enabling the pause update feature, all updates and changes made to the source systems are captured and logged to the RepliStor Data Directory. The purpose of this feature is to prevent RepliStor from accessing the files on the target system while the tape backup is running, ensuring an accurate backup. Once the tape backup is complete, the pause update feature is disabled and all the updates that were logged in the RepliStor Data Directory are applied to the appropriate files on target systems, ensuring the servers are back in sync.

Real-time Replication Ensures Critical Data is Always Available

RepliStor uses patented, asynchronous, real-time data replication to make it easy to make more than one copy of production Windows data, across LAN and WAN environments. RepliStor has no limitations on the number of copies of data and no limitations on the distance between Windows servers. Any data written to disk by the server can be captured and replicated by LEGATO RepliStor to one or more secondary disks, for any Windows application. RepliStor ensures your critical Windows information is available for rapid recovery in the event of downtime with the primary server.

Enables Rapid Resumption after Failure

All data stored on consolidated Windows servers or Windows powered NAS devices can be impacted by failures affecting these systems including disk failures, network failures, fires, floods and power outages. These failures impact all attached systems and business users, and entire branch offices and sites may be vulnerable. With traditional recovery systems, administrators must replace the disk or rebuild storage system, re-establish network and file system services and recover from tape backup. While this process takes place, time is wasted, business operations are down, and system administrators are working under time pressure to restore data and services potentially causing mistakes that further delay recovery. Meanwhile, data is lost since recovery is done with data that is restored from the last backup.

By adding RepliStor, businesses not only get the ability to centralize backup operations, but they can rapidly resume business operations after failure with virtually no data loss. RepliStor enables this by preserving data through real-time asynchronous replication that copies data disk-to-disk ensuring data is available up to the moment of failure. RepliStor's monitoring and reporting features allows it to detect systems failures and will automate failover to secondary servers or Windows NAS devices if necessary. This allows business to continue through the rebuild process, eliminating the cost and impact of downtime.

System Requirements

Each RepliStor protected server should satisfy the following software requirements:

- Microsoft Windows NT 4.0 Server or enterprise server
- Microsoft Windows 2000 Standard, Advanced or Datacenter server
- Microsoft Windows 2003 Server, Enterprise Edition or Datacenter Edition
- Windows 2000 SAK and Windows Storage Server 2003

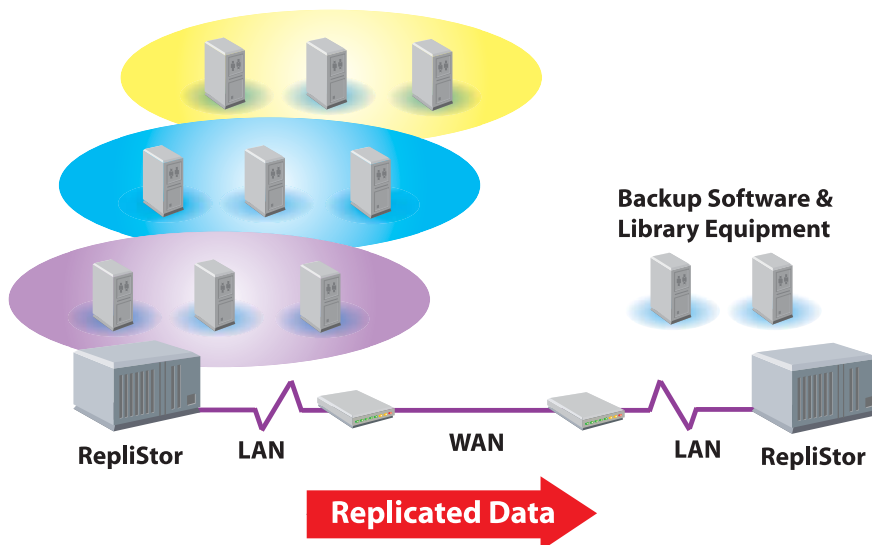


Figure 1: LEGATO RepliStor Enables Real-Time, Asynchronous Replication of Data Over LAN and WAN Networks

LEGATO® Tel (650) 210.7000 • (888) 853.4286 | Fax (650) 210.7032 | www.legato.com