

IBM System Storage N series with SnapLock Compliance and SnapLock Enterprise Software

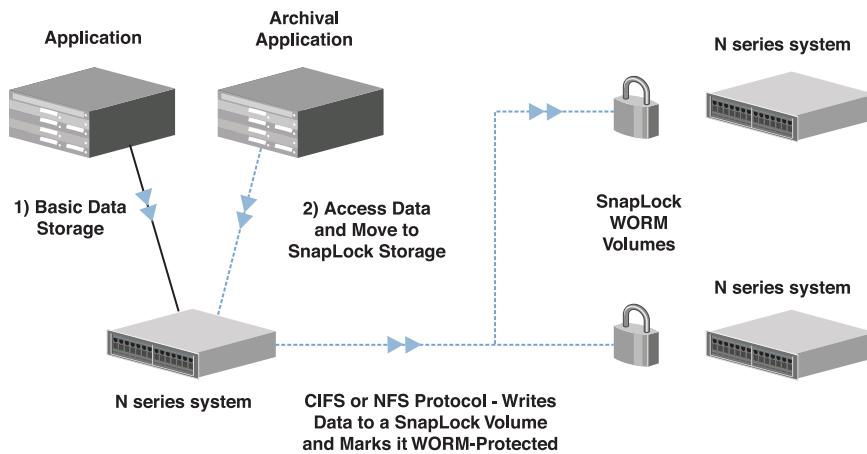


Figure 1. Disk-Based Regulated and Reference Data Management
This diagram illustrates how regulated and reference data can be easily archived with a partner archival application via open, industry-standard protocols onto a SnapLock WORM volume.

The challenge: Complying with strict records retention and performance requirements

Organizations today face increasingly strict regulations relative to records retention that require the archiving of e-mails, documents, patient records, design files, audit information, and other data for years, often on WORM (write once, read many) media. In addition, companies are increasingly implementing rigorous best practices to ensure that unregulated but crucial reference data is not changed or deleted and can be quickly and easily retrieved.

Highlights

- **Fast WORM storage on magnetic disk—High-performance, non-rewritable, non-erasable disk storage is designed to protect data until a specified retention date**
- **Open solution using standard protocols—Leverages industry-standard CIFS and NFS protocols to support easy data access and application integration**
- **Flexible and robust compliant data protection—Supports replication between WORM volumes on IBM System Storage™ N series and nearline and primary storage systems**

In today's world, government and internal records requests frequently combine highly specific search criteria with tight response times, and failure to accurately retrieve the required unaltered records may result in significant financial penalties or damage to reputation. However, current WORM technologies based on optical disk and tape do not provide sufficiently rapid access.

Solution: IBM System Storage N series with SnapLock Compliance and SnapLock Enterprise Software

The SnapLock™ function is designed to deliver high performance and high-security data function to disk-based nearline and primary IBM System Storage N series storage. The SnapLock function can help manage the permanence, accuracy, integrity, and security of data by storing business records in an inalterable form and allowing for their rapid online accessibility for long periods of time.

SnapLock is available in two versions:

SnapLock Compliance: Is designed to help organizations address records retention regulations such as SEC Rule 17a-4 (broker-dealers), HIPAA (health-care), Sarbanes-Oxley (public companies), 21CFR Part 11 (life sciences), and DOD 5015.2 (government).

SnapLock Enterprise: Supports adherence to rigorous organizational best practices through functionality similar to that of SnapLock Compliance, but allows administrators to delete entire SnapLock Enterprise volumes. SnapLock Enterprise functionality is designed to prevent SnapLock Enterprise users or administrators from deleting or modifying individual SnapLock Enterprise WORM records or undermining SnapLock Compliance WORM volumes.

WORM and security capabilities help enable regulatory compliance and business best practices

SnapLock can help you comply with regulatory and best-practices records-retention requirements by allowing the creation of nonrewritable, nonerasable WORM volumes on IBM System Storage N series and Network Appliance™ NearStore® systems. This can help you prevent critical files from being altered or deleted until a specified retention date.

SnapLock is designed to allow WORM data to be replicated securely and automatically between multiple IBM System Storage N series and Network Appliance NearStore systems using SnapMirror® software. WORM-to-WORM replication is designed to enable data at remote sites to comply with best practices, resulting in a highly robust WORM data protection solution. WORM data can also be backed up to tape for an additional level of data protection.

To help provide for the security and confidentiality of data, IBM System Storage N series and Network Appliance NearStore systems support an advanced set of security features, including authentication (Kerberos, Active Directory, NTLM, NIS, LDAP) access controls (CIFS ACLs, NFS Permissions), server or network-based access restrictions, transmission

encryption (IPSec, SecureAdmin™ software option), and audit logs (CIFS logging).

Open, standards-based solution for easy integration

SnapLock supports open, industry-standard protocols such as NFS and CIFS, so it offers easy data access and application integration—as opposed to other regulated data solutions that require each application vendor to write to a closed, proprietary API to store, retrieve, and search data. Consolidating storage on unified, rapidly scalable IBM System Storage N series and

Network Appliance NearStore systems can help increase flexibility in preserving important data using archival and records-management applications.

Help improve ROI and TCO

Storing and accessing massive amounts of information on economical, high-capacity, and easily expandable IBM System Storage N series unified storage solutions can help improve return on your IT infrastructure investment. The same N series and Network Appliance NearStore systems that are

designed to provide fast access to unalterable data using SnapLock can simultaneously be used for multiple purposes such as disk-to-disk backup, cross-platform replication, and primary storage.

The bottom line: Your organization is empowered to address internal and external requirements for storing and accessing regulated and reference data while obtaining a highly flexible, high-performance, and cost-effective storage solution.

For more information

Contact your IBM representative or
IBM Business Partner or visit:

ibm.com/storage/nas



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MB, GB and TB equal 1,000,000, 1,000,000,000 and 1,000,000,000,000 bytes, respectively, where referring to storage capacity. Actual storage capacity will vary based upon many factors and may be less than stated. Some numbers given for storage capacities give capacity in native mode followed by capacity using data compression technology.

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