

# 1 Secure, Long-Term Data Archiving with SnapLock

NetApp® SnapLock® software helps you meet internal and external requirements for retaining, protecting, and accessing regulated and reference data. SnapLock lets you securely store data in an unalterable and undeletable state and provides a flexible, efficient archiving solution. With SnapLock <<ClientShort>> can meet even the toughest compliance regulations with ease. SnapLock integrates with top archive and enterprise content management (ECM) applications and offers two retention features: SnapLock Compliance enables you to comply with stringent government requirements and SnapLock Enterprise will help you implement your company's policies and best practices.

With SnapLock, you can:

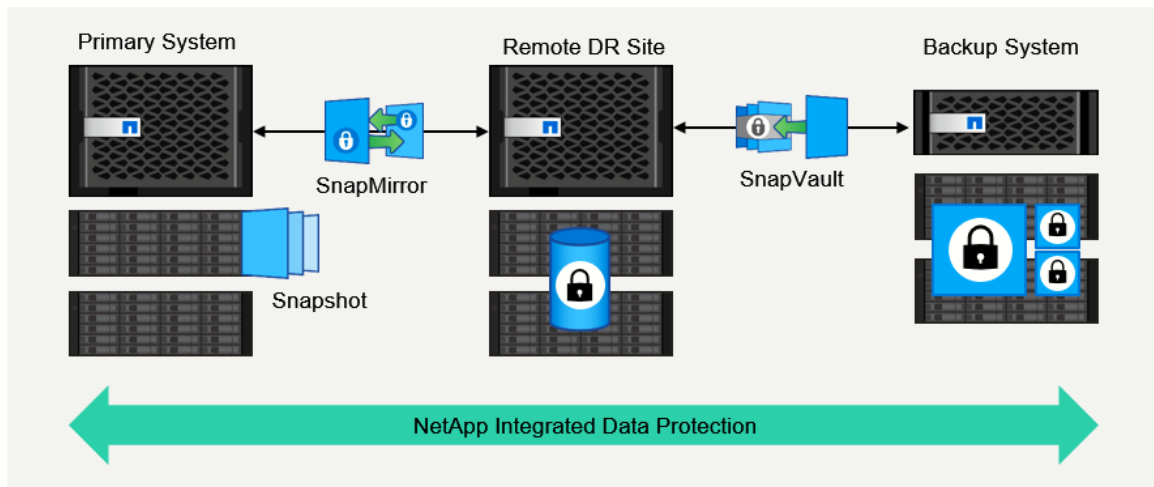
- Lower TCO
- Increase ROI

## Lower TCO and Increase ROI

With NetApp® SnapLock®, you don't need a dedicated archival system and you can archive files in an unalterable and undeletable state wherever you have available capacity—whether on primary storage or on backup systems. By using your data management systems for multiple business purposes, you can boost ROI and lower TCO. SnapLock is completely scalable. As your regulatory or compliance needs change, SnapLock can change with them.

## Meet the Strictest Data Retention Regulations or Comply with Internal IT Governance Policies

NetApp® SnapLock® is a cost-effective, integrated, and flexible write once, read many (WORM) solution. Can create nonrewritable, nonerasable volumes to prevent files from being altered or deleted until a specified retention date. SnapLock can put any files that need to be archive—e-mails, documents, audit information, or other data—in an unalterable state for as long as required. SnapLock files carry a retention date, which cannot be shortened, but can be lengthened. Even if those files are replicated or backed up to a different storage system or different type of storage system, WORM compliance remains intact. This makes SnapLock ideal for distributed businesses.



**Figure 1: SnapLock works with any application – Across all NetApp and open storage systems, making it a single archival solution for all your record retention needs.**

SnapLock is fully compatible with NetApp deduplication and compression and can be accessed with industry standard network storage protocols, so you can achieve data permanence objectives without sacrificing storage efficiency or performance.

With SnapLock, you can:

- Simplify data archiving and retrieval
- Solve all archiving needs with a single solution
- Meet the toughest compliance regulations

## Simplify Data Archiving and Retrieval

Sometimes you archive data just to put it away. Other times you preserve it knowing you'll need to access that data again, whether you are committing files to a WORM state to meet compliance regulations or because you'll need to access unaltered data again and again.

NetApp SnapLock simplifies archive management by:

- Easily committing files to WORM status
- Mixing WORM and non-WORM files on the same data management system
- Enabling persistent permanence

## Easily Commit Files to WORM Status

Use SnapLock to simplify the process of committing files to a WORM state. Your users can actively set the read-only attribute on the file or volume itself or rely upon administrator-defined policies within SnapLock to transition the data to read-only status. Functionally, WORM storage on NetApp systems is accomplished by designating a particular volume within a storage device as a SnapLock volume. Your administrators can optionally define the retention date for each volume, so the files within cannot be erased, rewritten, or have their metadata changed once they are marked read only. Users still have the ability to set retention dates for individual files or use the default retention period defined on each volume.

## **Mix WORM and Non-WORM Files on the Same Data Management System**

Because SnapLock is a volume-based solution, both WORM and non-WORM volumes on the same storage unit can be mixed and matched, reducing cost and complexity. You no longer need to have a separate storage tier for your archives; just file them away wherever you have the space. Consolidating your archives onto NetApp's unified architecture lets you easily access important data using archive and records management applications. You can also easily and quickly search through your archives and pull up records or files as needed or requested.

## **Enable Persistent Permanence**

To further protect data, back up SnapLock volumes across platforms to disk or tape with their permanence completely intact. As you move your archive files, their WORM status remains intact. Even physically moving the drives to a different system will not break immutability or disrupt the data.

## **Address all Archiving Demands with a Single Solution**

Use SnapLock as a single WORM solution to all archiving and compliance needs and to archive files from any application because it works across open protocols such as NFS and CIFS. You will find that it integrates better and more easily than other solutions because it doesn't rely on a closed, proprietary application programming interface. SnapLock also creates WORM files on any existing NetApp platform: no special-purpose hardware or add-ons are needed.

Data may be stored on lower cost serial ATA (SATA) drives, on higher performance Fibre Channel (FC) or serial-attached SCSI (SAS) drives, or on Flash drives. The WORM property of the data exists down to the physical disks themselves.

## **Meet the Toughest Compliance Regulations**

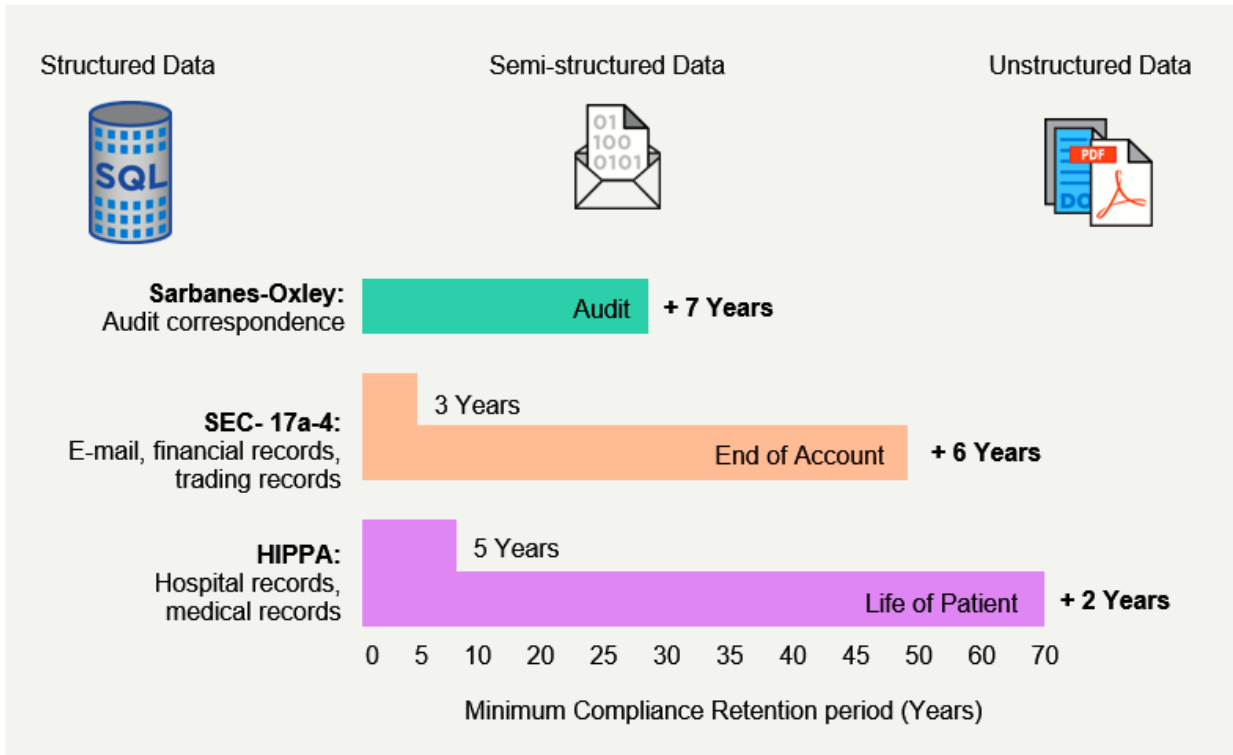
With SnapLock, you can meet even the toughest compliance regulations with ease. One license and two retention models.

## **SnapLock Enterprise for Unregulated Environments**

SnapLock Enterprise is optimal for unregulated environments or environments with more flexible regulations. Meet self-regulated and best practice guidelines for protecting digital assets with WORM data storage. Data stored on a SnapLock Enterprise volume is subject to less strict retention policies, so a volume can be deleted by an administrator at any time.

## **Use SnapLock Compliance to Meet Stringent Regulations**

For more strict retention requirements, SnapLock Compliance can help to implement a comprehensive archival solution to meet the toughest SEC regulations for data retention. Records and files committed to WORM storage on a SnapLock Compliance volume cannot be altered or deleted before the expiration of their retention periods. The archival application will eventually delete the data, but until then, no one, not even an administrator, can modify or delete it. SnapLock Compliance is certified for strict government retention requirements including SEC Rule 17a-4 and Commodities Futures Trading Commission (CFTC Rule 1.31(b)) regulations.



**Figure 2: Examples of retention requirements – Data that is stored in a compliant manner typically needs to be retained for long periods ranging from three years to decades.**