



TreTempo Scalable Secure Storage Solution



ASSUREON™

**NEXSAN ASSUREON:
INFORMATION FOR LIFE**



Assureon Benefits

- Tamper-proof encryption technology
- Fully Compliant with major regulations affecting records management
- Content Addressable Storage
- Transforms existing and new storage into ILM-compliant tiered archival storage
- Self-diagnostic and self-healing capabilities
- A fully integrated and complete hardware / software solution - highly scalable

Nexsan and TreTempo Provide Tiered Information Lifecycle Management Solutions to Meet Corporate Governance and Regulatory Compliance

Information Lifecycle Management (ILM) for electronically stored files is a challenge for most organizations. The preservation, retention and disposition of electronic records will be costly if a company does not have a good ILM plan in place. ILM is the ability to align the business value of information with the most appropriate and cost effective infrastructure from the time information is created through its final disposition”.

Nexsan’s Assureon is designed to be flexible so it supports all forms of archive storage technology, aligning it perfectly with the budgets and business objectives of the company. Assureon helps companies with lifecycle management of valuable business documents, which required secure long-term retention and disposition management for legal and compliance purposes, assuring compliance with the stringent security and auditing requirements mandated by industry and government regulations, such as, SEC 17-4, HIPAA, CFR 21 part 11 FDA, Sarbanes-Oxley, Privacy Regulations, etc.

Assureon ensures compliance is met by immediately writing to a minimum of two or more permanent storage devices. Safeguards, such as file encryption, and audit trails, ensure the integrity of the files. Then, based on established policies, Assureon will delete the file from its original location as the file transitions from an active to an inactive state. Nothing needs to be done when the file transition occurs because Assureon is acting on the retention policies already in place when the file was placed under management.

With the integration of TreTempo’s optical and tape library technology, Assureon supports WORM optical, tape and tiered disk storage systems. WORM technology is important for compliance reasons because once a file is written to WORM media, it cannot be deleted. WORM, however, presents some unique problems for ILM applications when a file must be deleted at the end of its retention period. Assureon resolves this problem by using crypto shredding to delete files on WORM media. What is important to understand about Assureon is that it can crypto shred a single file from offline media, or from a protected piece of WORM media that resides in nearline storage, while other files remain accessible until their retention periods expire.

The combine solution provides maximum network and physical security and business continuity through the ability to mirror the Assureon appliance to secondary storage archive and backup devices.

Assureon provides full support for offline media such as tape and nearline long term archive media such as optical. Assureon along with TreTempo’s DVD, UDO and Blu-Ray optical libraries with their 9GB DVD, 30GB UDO and 50GB Blu-Ray optical media, storage has never been so cost effective, reliable and compliant.

TreTempo Partner Solution



Information Lifecycle Management Solution Key Features

Manages fixed content/reference data through the information lifecycle stages:

- **Classification:** Applying or generate retention policies.
- **Place:** Policy to move file to appropriate storage location.
- **Identify:** Single instance; content-addressable storage
- **Protect:** Secure the file through its lifecycle.
- **Archive:** Manage the long term storage of the data.
- **Access:** Provide secure access to information.
- **Expire:** Manage the disposition of the information.

Protects your information assets with tamper-proof encryption technology for storage:

- **Encryption:** Assureon optionally encrypts files before storage
- **Integrity:** Proof a file's contents have not been altered
- **Information Authentication:** Proof of who created a file, when it was created, serialization to ensure files aren't missing, and digital time stamping the metadata about the file
- **Audit Trail Serialization:** Validates integrity and authenticity of information assets, independent 3rd-party audit of manifests

Maintains Business Continuity with a Robust Disaster Prevention Topography:

- **Backup:** Assureon can provide backup to either tape, optical or other hard drive system, either over the LAN or to a remote site on the WAN.
- **Remote Replication:** Assureon supports remote replication of assets across the WAN and can be configured to keep duplicate files at a remote site.
- **Load Balancing:** The architecture of Assureon allows you to independently add processing power for performance or add more storage capacity. Assureon automatically identifies the additional nodes or storage, and balances the load for maximum throughput automatically.
- **Fault Tolerant:** Single and multiple failures can be tolerated without data loss or loss of data access. If a node fails, processing is redirected to another node. If a storage location is unavailable, its is redirected to the secondary and tertiary locations. If all locations become unavailable, Assureon journals the new files and metadata until a location becomes available.

Manages Long Term Archival Storage with the same Robust Features of the Primary Storage:

- Assureon can manage most popular optical libraries to provide long term archive capability with full information lifecycle management of the data and media. Providing true Regulatory Compliance for SEC, HIPAA and SOX.

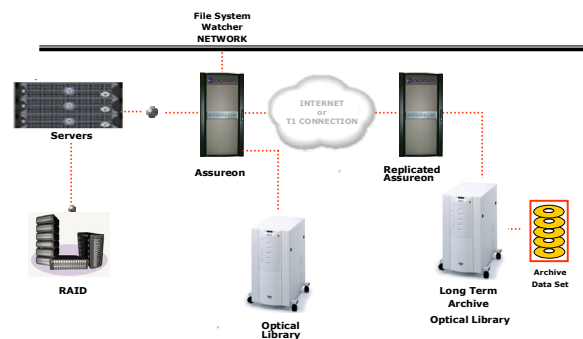
Content addressable storage (CAS) discovers each file's unique identity or fingerprint:

- **CAS Address:** Assureon's dual-cryptographic processes create and cross-validate files' unique identities
- **Serial Number:** Assureon's unique Signature ID can be configured to identify client, business division, project, etc.
- **True Single-Instance Storage:** Identical files saved with different filenames or even for different retention periods are stored only once -- Assureon transparently manages access
- **Reduced Storage Costs:** Analysts concur single instance storage can reduce storage requirements by 20% to 60%

Provides exceptional compliance capabilities to facilitate best practices:

- **Meets ILM Requirements:** Stores information on the most appropriate and cost effective storage infrastructure
- **Secure, Tiered Disk, Optical and Tape Storage**
- **Flexible, Cost-Effective Storage:**
 - Leverage your existing storage infrastructure
 - Expand with best of breed storage hardware from leading vendors (no lock in to one storage vendor's hardware or technology)
- **Disposition and Crypto-Shredding—even off WORM media**

Replicated Assureon ILM Solution



TreTempo, Inc. - HQ
11442 Wild Rose Lane
Anna, TX 75409
Office: 972-924-4575
FAX: 972-924-3610
sales@tremtempo.com
www.tremtempo.com

TreTempo, Inc. - U.S. Sales
10894 CR350
Terrell, TX 75161
Office: 972-551-3415
FAX: 972-551-3418
sales@tremtempo.com
www.tremtempo.com

TreTempo, Inc. - Sales
2420 Sand Creek Road, C1-316
Brentwood, CA 94513
Office: 972-551-3415
FAX: 972-551-3418
sales@tremtempo.com
www.tremtempo.com