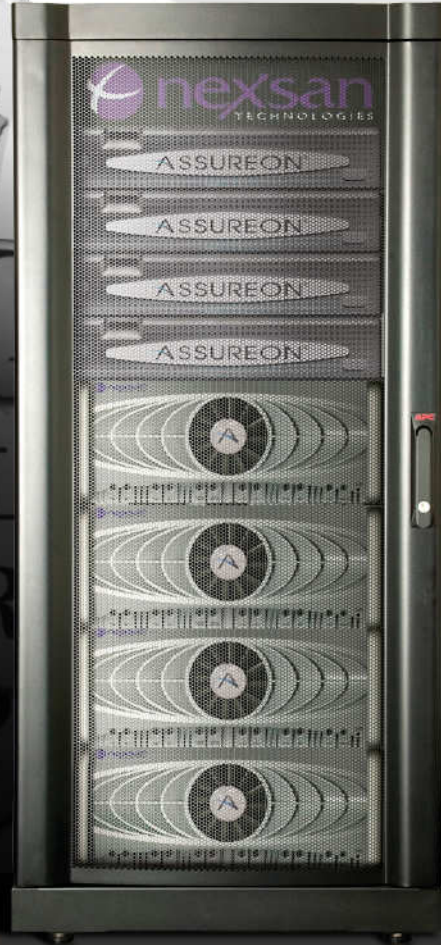


LOCAL SYSTEMS
SUFFERS SECURITY
DATA BREACH by Brandon Ras

employee delet
Sarbanes-Oxle
LAW SUIT

ARCHIVE CORRUPTI
DIGITAL
TAMPER

Illusions of Digital Integr
by Deborah Mathis
The phone call came late Thursday night as Ramon Cordiva was returning back from the office. Back-minded fears about his data security were coming true on the heels of a data security analysis meeting. He had informed the rest of the board
data privacy?



ASSUREON[®]

RISK MITIGATION FOR A NEW WORLD

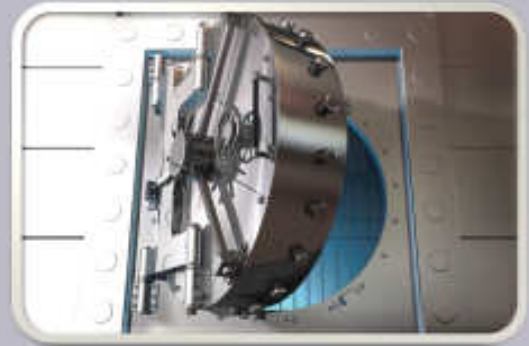
ASSUREON, THE MOST SECURE ONLINE ARCHIVE

There is some data that is just too important to lose, too private to be seen, and too critical to be tampered with.
Imagine a safe deposit box for the digital age giving you unprecedented assurances about your data.

A Safe Deposit Box for the Digital Age

Most storage systems provide you “hope” - hope about your data privacy, integrity and longevity. But there is some data that demands guarantees.

Can you GUARANTEE a file...
 has not been tampered with?
 is safe from prying eyes?
 is not corrupted over time?



Enterprise storage provides some protection with RAID and replication but it cannot guarantee the privacy, integrity or longevity of your data. Files can still be secretly read, modified, stolen, deleted and corrupted.



What you need is a storage system that is as secure and private as a safe deposit box and as easy to access as your wallet. Nexsan's Assureon online disk storage archive provides the privacy, integrity and longevity of a digital safe deposit box with the high speed access of disk drive technology.

ASSUREON assures PRIVACY

A digital safe deposit box is the ultimate in data privacy. Like a bank, Assureon creates virtual safe deposit boxes (virtual archives) within its secure hardware. As your data grows, Assureon scales additional virtual safe deposit boxes allowing only you or authorized users to access the data.

DATA SEPARATION

Your critical files are not just virtually separated from the rest of the data in Assureon, they are physically separated.

There is no co-mingling of files within the Assureon system.

Every user or group is given their own separate safe deposit box within the Assureon vault. Imagine an infinite array of safe deposit boxes within a scalable vault – safe, secure, separate.

ACCESS AUDIT TRAIL

Assureon establishes an unalterable audit trail for the duration of the life of a file. Every time a file is accessed, a record is kept of who accessed it and when.

Assureon even records the date and identity of unauthorized attempts to access your file. If you ever face the risk of stolen, tampered or unauthorized reading of a file, the Assureon audit trail might be the best insurance you've ever had.

“...some data demands guarantees”

ASSUREON

assures

INTEGRITY

A safe deposit box is not just a place to ensure the privacy of valuables, it is a place to ensure the integrity of the assets you deposit.

FILE FINGERPRINTING

Assureon addresses a growing problem with today's storage solutions - ensuring file integrity. Even if you replicate a file a hundred times over, those copies are only as good as the source.

With Assureon, when a file is 'born,' it is assigned its own unique fingerprint that will stay with the file until 'death.'

If a single byte ever changes, the fingerprint will change. Revolutionary safeguards have been put into place to ensure that a file will retain its exact fingerprint through its life cycle.

SELF-AUDITING and SELF-HEALING

Not only does Assureon audit file access, it audits file integrity. While operating transparently in the background, Assureon continually monitors files for fingerprint discrepancies protecting against tampering, viruses, corruption, accidental or deliberate deletion and theft.

If discrepancies are discovered, Assureon notifies you and automatically self-heals the file. The Assureon automated system handles integrity audits so you never have to "cross your fingers" when retrieving an important file. Self-auditing and self-healing ensures the file you store is the file you retrieve regardless of time.



ASSUREON

assures

LONGEVITY

If a bank told you it was possible for the contents of your safe deposit box to be lost, you would find another bank. The ultimate challenge with data storage is...longevity.



FILE AVAILABILITY AUDIT

Assureon ensures the availability of your files regardless of time. With its innovative file availability technology, Assureon continual checks to determine if a file is missing.

If a file is found to be missing, Assureon notifies you and returns the file to its original state. Secure file management has never been easier with Assureon's automated processes.

"if discrepancies are discovered, Assureon notifies and automatically self-heals the file"

AUTOMATED RETENTION and DELETION

In a new world of regulatory compliance, you need to guarantee the retention and deletion of files. With automated integrity management and file immutability technology, Assureon protects against accidental or unauthorized file deletion and ensures you can retain files and delete files according to established retention periods.

Assureon enforces retention periods automatically deleting a file and all its copies when the retention period is over. Assureon knows the exact location and retention period of each file ensuring the right file is deleted at the right time.

You can sleep at night knowing that Assureon's automated process ensures systematic and accurate retention and deletion of files.

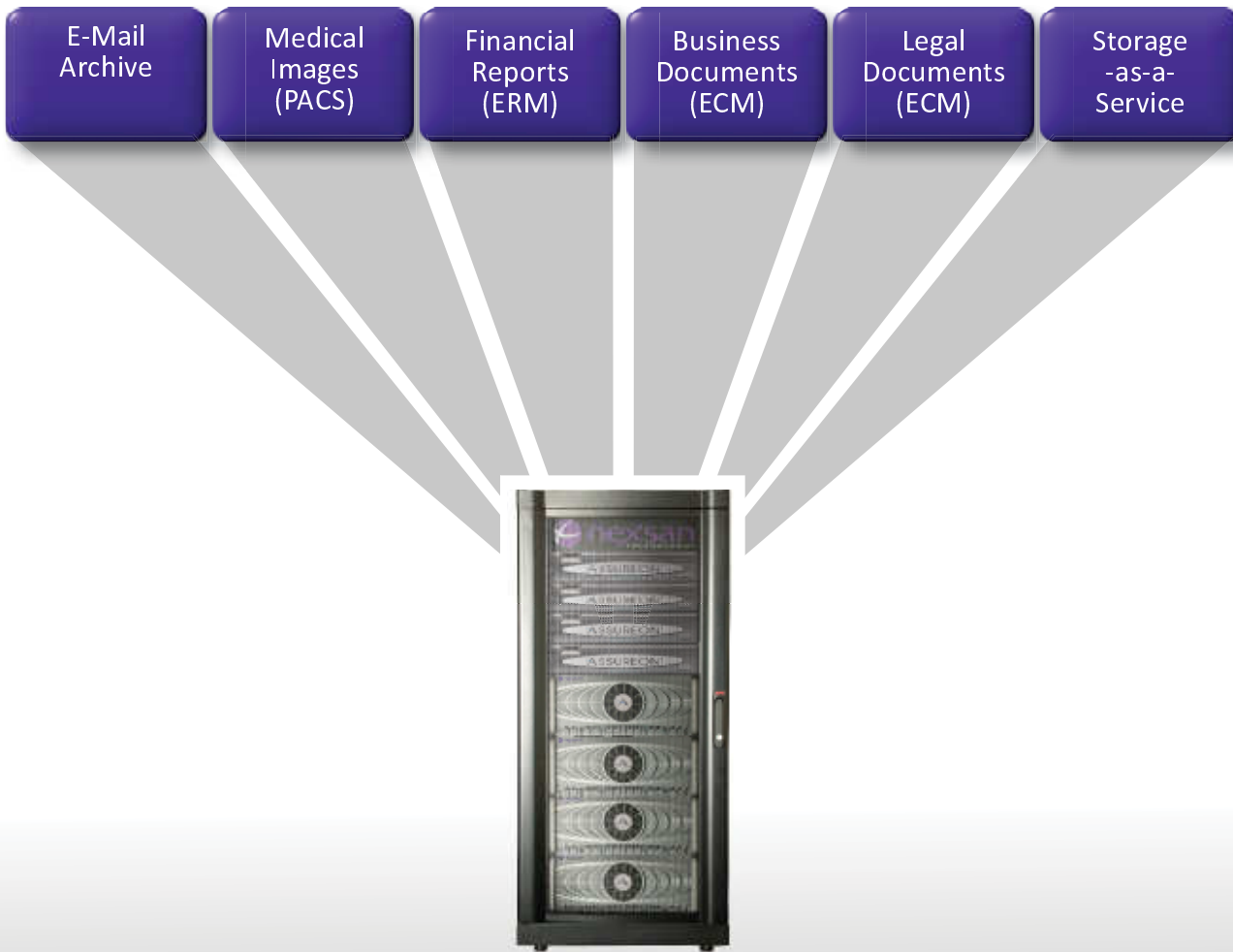


Assureon, the secure archive for fixed content

Privacy, Integrity, Longevity, there is a no more secure way to handle all your fixed content data. All these features are available in a single, fully integrated, easy to manage solution that is:

- more green
- more scalable
- more affordable

Assureon works for you whether you are a business with a single location or a large global enterprise consolidating data from multiple remote locations. Assureon, a safe deposit box for the digital age.



ASSUREON[®]

Assureon™ Secure Online Disk Archive



Competitive Edge

Assureon is known for its next generation security measures, but there is much more to Assureon. When you look 'under the hood,' Assureon reveals a full suite of features.

Finding the most secure archive available is not enough. You also need a system packaged in a simple, fully integrated solution that offers enterprise class manageability, scalability and energy efficiency... at a price to meet your budget.

This is where you discover how Nexsan is changing the rules of storage - by delivering an enterprise class archive to meet your needs at a price to meet your budget. Along with innovative security features, how does the rest of Assureon stack up?

Manageable

Simple to understand, simple to install, simple to use

- Automated audits of file availability, integrity and access
- Automated file fingerprinting
- Automated 'lights out' management
- Automated file ingestion, retrieval, audits, de-duplication and replication without user intervention
- Quick and easy search of files based on file properties or content with near instantaneous retrieval

Scalable

Scale without penalty

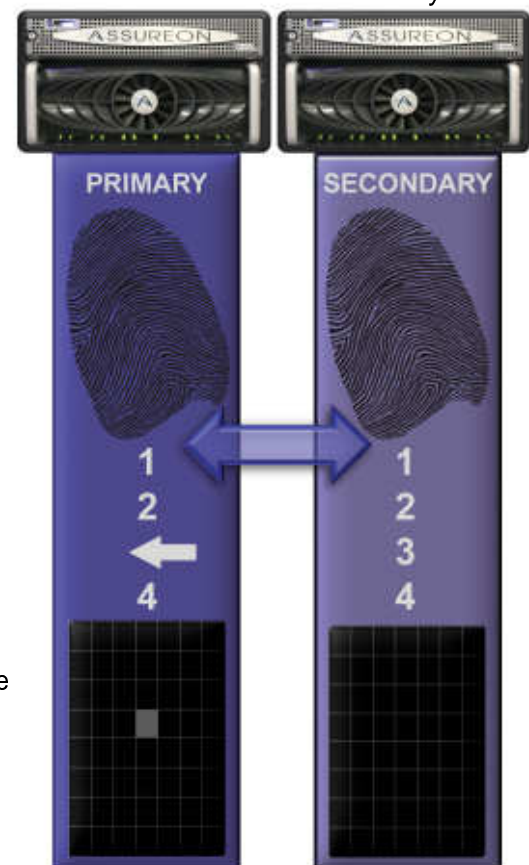
- No object limit; scale without performance penalty
- Scale performance and capacity independently
- Scale performance to thousands of files per second
- Scale from a few terabytes to multiple petabytes

Green

All the benefits of green without the limitations

- Energy saving AutoMAID reduces energy costs up to 60%
- Speed with green - near instantaneous response from idle state
- **Green Maximizer** automatically migrates files to 'green, greener, greenest' states of energy savings based on file usage

Automated Auditing Processes with Innovative Data Security



More Secure

File Fingerprinting

Assureon protects the integrity of your data with innovative digital fingerprint technology. Every file is provided its own fingerprint utilizing concatenated SHA1 and MD5 with original Assureon technology. This next-generation approach provides the benefits of integrity while eliminating file collisions that can result in data loss. Assureon's fingerprint feature ensures the data you put on storage is the data you get back regardless of time

Physical Separation of Data

Individual departments, organizations or businesses can share a single Assureon but have their own secure archive with dedicated storage to ensure physical data separation and privacy

Self Auditing and Self Healing

Assureon transparently checks the integrity of all stored files and automatically self-heals if any discrepancies are discovered

File Audit Trail

Assureon tracks all users and applications that access a certain file providing administrators with an unalterable audit trail of information access

File Availability Audit (Serialization)

Each file is given a unique inventory serial number. Assureon continually takes inventory of all stored files ensuring all files are present. Any missing files will be automatically replaced using a redundant copy

WORM Storage

WORM (write once read many) enforces the retention periods and provides file immutability. Once a file is archived, it cannot be changed and is protected against accidental or deliberate deletion, tampering, false file insertion and date or time altering

Encryption

Assureon protects information privacy and security with AES256 encryption - the encryption level authorized by the US Government for Top Secret Classified Information. Assureon encryption services ensures the highest levels of file privacy and security

Secure File Deletion

Use compliant-level file deletion with encrypted and non-encrypted files. Optional 7-pass DOD wipe can be enabled for DOD data deletion

File Versioning

File versioning retains only the last few versions of a file and automatically disposes older versions. The number of versions to be retained is fully configurable

Independent Date and Time Stamp

Assureon's independent time source prevents modifications of the system's time clock ensuring the integrity of retention periods. With Assureon there is no tampering to the system clock or the file itself

Redundant Architecture

Assureon is designed as a fully redundant, high availability system providing no single point of failure. This fault tolerant architecture ensures high levels of data availability

High Availability Storage

Supporting the innovative Assureon appliance is Nexsan's highly reliable, green storage. The SATABeast, SASBoy and SATABoy provide redundant controllers, power supplies and fans along with support for RAID 6 to overcome double drive failures

High Density Storage

Optimize datacenter space while reducing power and cooling costs with Assureon high density architecture. Assureon storage systems deliver 42TB of capacity for every 4U of rack space providing users with one of the most space efficient solutions available

More Manageable

Compliant or Flexible Retention Periods

Once created, compliant-level retention periods cannot be deleted or changed. Use flexible retention period for files that do not require regulatory compliance

Legal Holds

Legal holds can be placed on files to protect against file deletion when its retention period has expired. This ensures availability of files in cases of litigation or potential litigation

De-duplication

Store only a single instance of duplicate files maximizing storage efficiency. Meta data and retention policies will still be preserved for each instance

Active/Active Replication

Assureon has taken data replication to a whole new level with its digital fingerprint technology. Assureon combines active/active replication and automated failover/failback with innovative fingerprint technology to enable business continuity with data integrity

Assureon FSW (File System Watcher)

Configure host archive policies with Assureon FSW. Policies can be configured for different file folder locations and data categories including when to archive a file, retention periods and what is left behind (original file, shortcut, or nothing)

Assureon Edge

Extend Assureon archive service to include multiple remote offices, branches, facilities and even other businesses. See the Assureon Edge data sheet for more details

Assureon NFS and CIFS Interface

Assureon Edge can provide a CIFS and NFS interface. Files written to these Assureon shares can be automatically archived to Assureon based on pre-described configurable policies

Application Support

Assureon has been integrated with leading applications to provide the backend data management. These include: email archive, PACS, document management (ECM), financial reports (ERM/COLD), imaging and other applications

Storage-as-a-Service

Assureon is an ideal platform for outsource management of archiving services. See the Assureon for Storage Service Providers for more details



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