



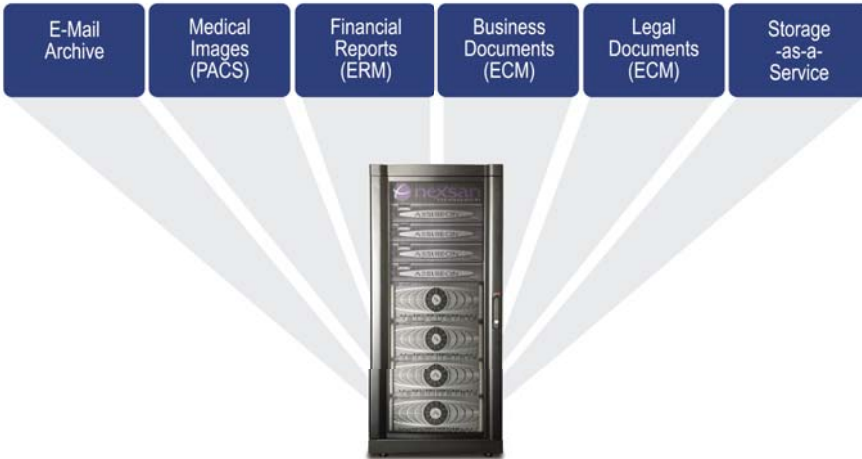
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## A Safe Deposit Box for the Digital Age

### APPLICATIONS THAT BENEFIT MOST FROM DIGITAL VAULT TECHNOLOGY



#### 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, and 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.

#### 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.

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?





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## A Safe Deposit Box for the Digital Age

### 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

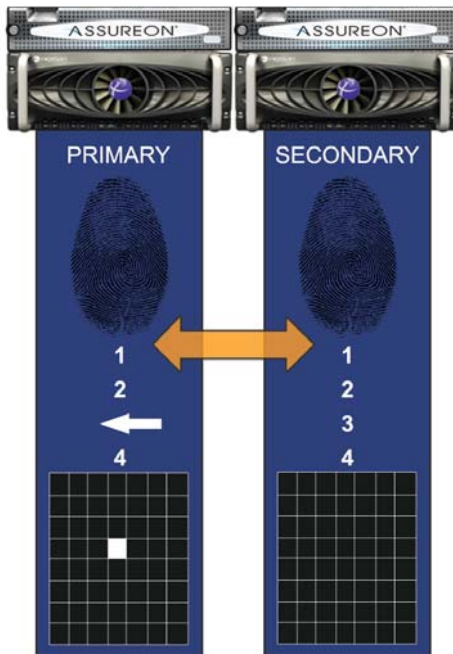
Scale without penalty

- 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



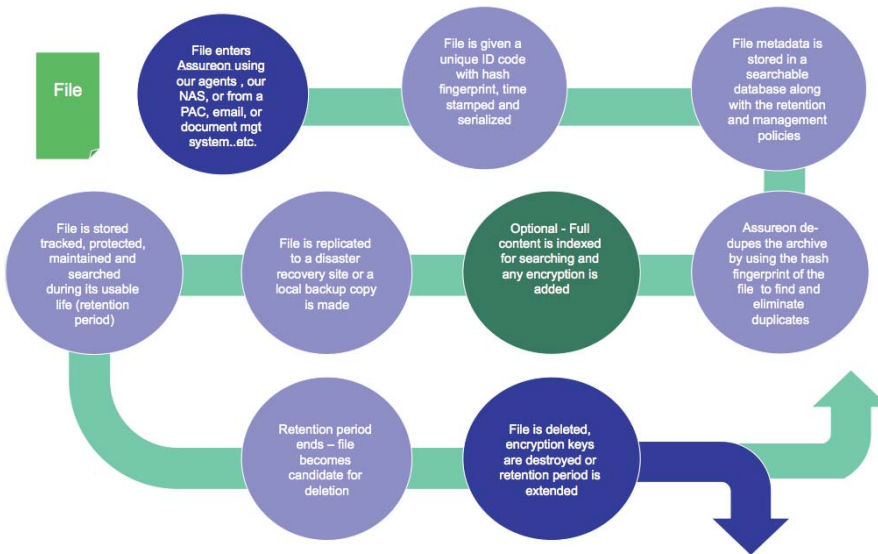
Automated Auditing Processes  
with Innovative Data Security





## A Safe Deposit Box for the Digital Age

### The "Life-cycle" of a file Inside Assureon



### Email Compliance – A five step guide:

#### Rule 1

Take responsibility for archiving emails away from the user.

#### Rule 2

Ensure that the emails cannot be changed or deleted.

#### Rule 3

Enable any email or group of e-mails to be easily and quickly found and viewed from the compliance database.

#### Rule 4

Ensure that the whole email compliance process is auditable.

#### Rule 5

Advise your users that you have an e-mail compliance archive which captures all incoming and outgoing emails irrespective of whether they are internal or external.

### Business Example:

e-mail required to be preserved and proven unalterable for many years based on new compliance regulations

- Exploding volume of email to archive
- Troublesome retrieval of email from traditional tape or optical archives when required for legal discovery or compliance
- Limited available storage space means that users must periodically either delete email or archive it offline

Nexsan's Assureon storage appliances provide safe, cost-effective means to archive the growing volumes of email, yet keep them online and rapidly retrievable. Businesses can now keep a complete archive of all their employees' email messages without requiring them to regularly clean out their email inbox and decide which messages to keep in order to free up space. At the same time, Assureon appliances dramatically reduce the time required to backup current, active email by offloading archived email into a separate repository.



## OTHER BENEFITS INCLUDE:

### 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 DOC 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 CK 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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