

# ASSUREON STORAGE SYSTEMS SPECIFICATION SHEET

## HARDWARE COMPONENTS

| SX SERVER (2.5 INCH CHASSIS)               |  |
|--|--|
| CPU  | Dual 8-core Hyper-Threaded CPU                     |
| Management Port                            | Dedicated ethernet management port                 |
| Redundant Fans                             | Yes  |
| Redundant Power Supply                     | Yes  |
| Battery Backed-Up RAID                     | Yes  |
| Max data drives                            | 60   |
| Available PCI Slots                        | 6  |
| RAM  | 64GB   |
| Ports                                      | 2 1GbE Rj-45 MGMT Ports   2 10GbE RJ-45 Data Ports |
| Power cables                               | 5-15 and C13/C14                                   |
| AX SERVER (3.5 INCH CHASSIS)               |  |
| CPU  | Dual 8-core CPU                                    |
| Drives                                     | 2 SAS, 10 SATA drives                              |
| RAM  | 32GB   |
| Ports                                      | 2 10GbE RJ-45 Ports for Data and MGMT              |
| Power cables                               | 5-15 and C13/C14                                   |
| AX ASSUREON APPLIANCE                      |  |
| Assureon Client Software Installed         | No   |
| Useable Archive Space                      | 8TB to 32TB  |
| Expandable with Similar Systems            | Yes  |
| External Storage                           | No   |
| LOW CAPACITY ASSUREON                      |  |
| Small SX/SXR                               | 14TB to 112TB                                      |
| Rackspace                                  | 4 U  |
| Processing Node Included                   | Yes  |
| Storage Node Included                      | Yes  |
| ENTERPRISE CAPACITY ASSUREON               |  |
| Large SX/SXR                               | 16TB to 400TB*                                     |
| Rackspace                                  | 6 U  |
| Ability to Add Additional Processing Nodes | Yes  |
| Ability to Add Additional Storage Nodes    | Yes  |



\*An unlimited number of nodes can be configured together for Petabytes of secure archive.

## FEATURES AND FUNCTIONALITY

### ENVIRONMENT

|                            |   |
|----------------------------|---|
| Usage Environments         | Windows, Unix/Linux, Apple MacOS                        |
| Supported Files / Capacity | No architectural limit                                  |
| Removable Media            | No  |
| Admin Interface            | Web GUI, role-based admin                               |
| Remote Replication         | Yes - WAN-based   |
| Primary Ingestion Methods  | Assureon client, Edge device                            |
| Optional Ingestion Methods | Read-only lock, XML ingestion file                      |
| Custom API                 | Not required but can use as alt method to set retention |

### OPERATIONAL

|                            |  |
|----------------------------|--|
| Storage Technology Used    | RAID disk systems, integrated disk, or cloud |
| System Logging             | Yes  |
| System Automatic Reporting | Yes  |
| System Self-Protecting     | Yes  |

### INTEGRITY

|                         |   |
|-------------------------|---|
| Unique Fingerprints     | Generated using MD5 and SHA1 hash           |
| Serial Numbers          | Each file assigned unique serial number     |
| Secure Time Stamp       | Global, redundant, time source              |
| Two Copies of All Files | Each file and its fingerprints stored twice |
| Data Verification       | Continuously verified via fingerprints      |

### COMPLIANCE FUNCTIONS

|   |  |
|---|--|
| e-Discovery: Content Indexing, Search, Export       | Yes  |
| Automatic Copies                                    | Yes - makes two copies on disk - local or remote |
| Unique Copy Serialization                           | Yes  |
| Multi-Tenancy - Isolation to Storage Devices        | Yes  |
| Secure Delete                                       | Yes  |
| Legal Hold on Files and Multi-overlapping           | Yes, Yes   |
| WORM  | Yes  |
| Multi-Regulations Simultaneously                    | Yes  |
| Audit-Trail with Chain of Custody for Data Accesses | Yes  |
| Retention Controls - Default Setting by Archive     | Yes  |
| Retention Controls - Application Controlled Setting | Yes  |

### SCALABILITY AND HIGH AVAILABILITY

|                    |  |
|--------------------|--|
| Remote Replication | Two active Assureons can continuously replicate each other                     |
| Failover/Failback  | Native Active/Active replication with automatic read and manual write failover |
| Capacity           | Scale capacity up to multiple petabytes  |
| Infiniband         | Optional   |

### CLOUD READY

|                |   |
|----------------|---|
| Multi-Tenancy  | Enables service to offer highly secure Archive-as-a-Service                           |
| Online Archive | On-premise Asssureon can replicate to a cloud-based Asssureon powered archive service |

| MANAGEMENT               |   |
|--------------------------|---|
| Automatic Archive        | Move files to Assureon, leave original file in place or optionally leave shortcut         |
| NAS (NFS/CIFS)           | Edge device presents a CIFS/NFS NAS interface to users and applications                   |
| Fast and Easy Deployment | Assureon client can be installed on Windows Server 2008R2 - 2016 with no reboot required. |
| Global Management        | Single pane-of-glass management   |
| Reports                  | Reports keep track of storage usage   |
| Lights-Out Management    | Self-managing Assureon issues alerts when something needs attention                       |

| REGULATORY AND CORPORATE COMPLIANCE |   |
|-------------------------------------|---|
| Government Regulations              | FRCP, SCX, SEC-17, GLBA, and PCI-DSS                      |
| Data Retention Policies             | Create retention rules for directories and file types     |
| Legal Hold                          | Ability to place on any set of files                      |
| Retention Periods                   | Fixed and flexible retention periods                      |
| Data Deletion                       | Single-point deletion and optional data wipe of the drive |

| ADVANCED FEATURES                     |   |
|---------------------------------------|---|
| Power - Auto Spin-Down of Disk Drives | Yes   |
| Single instancing                     | Yes   |
| Compression                           | Yes   |
| Encryption                            | AES-256, FIPS 140-2, automatic key management |
| Versioning                            | Yes   |
| Reporting                             | Yes - extensive                               |
| Ingestion Throttling                  | Yes   |

| PRIVACY            |  |
|--------------------|--|
| Separation of Data | Logical and physical separation plus separation via multiple AES-256 encryption keys |
| Encryption         | Files can be AES-256 encrypted   |
| Authentication     | Active directory or digital certificates   |
| Audit Trails       | Report on file access and denied access  |

| ASSUREON COMPONENT DESCRIPTIONS |   |
|---------------------------------|---|
| Single Site Assureon (SX)       | Assureon will maintain two copies of every file within local Assureon system  |
| Replicated Assureon (SXR)       | Assureon will maintain two copies of every file or object. Replicated Assureons (SXR) are typically geographically separated.   |
| Hosted Assureon (HXR)           | A local Assureon will maintain a single copy of the data while a second copy of the data is replicated to a remote, multi-tenancy Assureon. Typically, the second Assureon resides at an Assureon-as-a-service cloud provider or in a corporate cloud.  |
| Edge Server                     | The Edge Server includes 8 GB RAM, single quad-core CPU, and approximately 2.3 TB capacity for customer data. It supports four additional drives for extra capacity and it also supports Infiniband for high-speed Assureon.  |
| Client Software                 | The client software is an agent that runs on Windows systems; it watches directories chosen by the administrator and will send new or changed files to the Assureon.  |
| Virtual Shortcuts               | Instead of creating shortcuts on disk, the Assureon client has the ability to have the shortcuts reside purely in memory. This facilitates extremely fast recovery time. If the Assureon Client server goes down, you need only bring up another machine, install the Assureon Client on it and the files appear instantaneously. |

## ABOUT NEXSAN

Nexsan® is a global enterprise storage leader since 1999 delivering the most reliable, cost-effective and highly efficient storage solutions. Nexsan's solution portfolio empowers enterprises to securely store, protect and manage valuable business data with a broad product line of unified storage, block storage, and secure archiving. [www.nexsan.com](http://www.nexsan.com).