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ASSUREON STORAGE SYSTEMS SPECIFICATION SHEET

HARDWARE COMPONENTS

SX SERVER (2.5 INCH CHASSIS)	
CPU	Dual 6-core CPU
Management Port	Dedicated ethernet management port
Redundant Fans	Yes
Redundant Power Supply	Yes
Battery Backed-Up RAID	Yes
Available Drive Slots	16
Available PCI Slots	6
RAM	32 GB
NX/AX SERVER (3.5 INCH CHASSIS)	
CPU	Dual quad-core CPU
Drives	2 SAS, 10 SATA drives
RAM	16 GB
NX INTEGRATED EDGE AND ASSUREON	
Assureon Client Software Installed	Yes
Useable Archive Space	3 TB to 6 TB
Expandable with Similar Units	Yes
External Storage	No
AX ASSUREON APPLIANCE	
Assureon Client Software Installed	No
Useable Archive Space	4 TB to 8 TB
Expandable with Similar Systems	Yes
External Storage	No
LOW CAPACITY ASSUREON	
Small SX/SXR	7 TB to 56 TB
Rackspace	4 U
Processing Node Included	Yes
Storage Node Included	Yes
ENTERPRISE CAPACITY ASSUREON	
Large SX/SXR	14 TB to 400 TB*
Rackspace	6 U
Ability to Add Additional Processing Nodes	Yes
Ability to Add Additional Storage Nodes	Yes

*An unlimited number of nodes can be connected for Petabytes of secure archive.

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FEATURES AND FUNCTIONALITY

ENVIRONMENT	
Usage Environments	Windows, Unix/Linux, Apple MacOS
Supported Files / Capacity	No architectural limit
Removable Media	No
Admin Interface	WebGUI, 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 Assureon powered archive service

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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 2003, 2008, 2012, 2012 R2 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-tenency 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 serger 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 leader in storage, back up and data management solutions that are focused on seamlessly and securely enabling a connected workforce. Its broad solution portfolio empowers enterprises to securely store, protect and manage valuable business data - allowing users to sync, share and access files from any device, anywhere, anytime. www.nexsan.com

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