

# UNITY ASSUREON ARCHIVE STORAGE SYSTEMS

Unity Assureon Archive is a secure archive storage system designed to work with Unity unified storage for the nearline long-term retention of unstructured data. As a compliant archive, Unity Assureon Archive provides a comprehensive data protection feature-set which ensures the availability and integrity of all files. Core to these features is Unity Assureon Archive's digital file fingerprinting and self-healing integrity audits which eliminate threats of data loss, tampering and corruption.



ENTERPRISE FEATURES	
REGULATORY AND CORPORATE COMPLIANCE	
Policy-based Archiving	Flexibility to set policies for each type of unstructured data
Government Regulations	HIPAA, FRCP, SOX, SEC-17, GLBA, and PCI-DSS
Audit Trail with Chain of Custody	Yes, with reports on file access and denied access
Data Retention Policies	Create retention rules for file types
Retention Periods	Fixed and/or flexible retention periods
Data Deletion	Single-point deletion and optional data wipe of the drive
Immutability	Archived files cannot be changed
Legal Hold on Files	Ability to place on any set of files
Write Once Read Many (WORM)	Unity Assureon Archive provides WORM emulation, which prevents assets from being modified or deleted until their expiry date has been reached, and only if these assets are not part of a legal hold.
Multi-Regulations Simultaneously	Yes
Retention Controls	Default Settings by Archive and/or Application Setting
INTEGRITY	
Secure and Digital Unique Fingerprints	Utilizes a combination of two cryptographic hashes for the Unique File Identifier
Serial Numbers	Each file is assigned a globally unique sequential serial number
Secure Time Stamp	Global, redundant, time source that prevents time tampering
Automatically Copies All Files	Each file and its unique fingerprint is stored twice - locally or remote
Data Verification	The contents of the data, metadata, and fingerprints are continuously audited.
Self-healing	Ensures that all files are healthy and retrievable

<b>SCALABILITY AND HIGH AVAILABILITY</b>	
Remote Replication	Two Unity Assureon Archives can continuously replicate to each other
Failover/Failback	Native Active/Active replication with manual read and manual write failover
Capacity	Create retention rules for directories and file types. Scales up to multiple petabytes.
<b>CLOUD READY</b>	
Multi-Tenancy	Allows for the highly secure Archive-as-a-Service
Online Archive	On-premise Unity Assureon Archive can replicate to a cloud-based Unity Assureon Archive powered archive service
<b>MANAGEMENT</b>	
Automatic Archive	Allows you to move files to Unity Assureon Archive, either leaving the original files on your Unity system, or creating a fully transparent Unity shortcut
NAS (NFS/CIFS)	Unity presents a NFS/CIFS NAS interface to users and applications
Lights-Out Management	Self-managing Unity Assureon Archive issues an email alert when system needs attention
<b>PRIVACY</b>	
Separation of Data	Logical and physical separation plus separation via multiple AES-256 encryption keys
Encryption	Archived files are AES-256 encrypted at rest and in flight via SSL/TLS
Authentication	Authentication is provided by digital certificates

<b>UNITY ASSUREON ARCHIVE COMPONENT DESCRIPTIONS</b>	
Single Site Unity Assureon Archive (SX)	Unity Assureon Archive will maintain two copies of every file within the local Unity Assureon Archive system
Replicated Unity Assureon Archive (SXR)	When Unity Assureon Archives are geographically separated Unity Assureon Archive will maintain two copies of every file or object, one on each Unity Assureon Archive.
Hosted Unity Assureon Archive (HXR)	A local Unity Assureon Archive will maintain a single copy of the data while a second copy of the data is replicated to a remote, multi-tenancy Unity Assureon Archive. Typically, the second Unity Assureon Archive resides at an Unity Assureon Archive-as-a-service cloud provider or in a corporate cloud.
Unity	See Unity Data Sheet and Unity Spec Sheet for details
Client Software	The client software is an agent that runs on Unity; it watches file systems chosen by the administrator and will send new or changed files to the Unity Assureon Archive.

HARDWARE COMPONENTS			
SX SERVER			
CPU	Dual 8-core Hyper-Threaded CPU		
Chassis Form Factor Rackspace	2U		
Management Port	Dedicated ethernet management port		
Connectivity	Dual Port 10GbE plus optional Dual Port 10GbE SFP+ or RJ-45		
Redundant Fans	Yes		
Redundant Power Supply	Yes		
Battery Backed-Up RAID	Yes		
Available Drive Slots	16		
Available PCI Slots	6		
RAM	64GB		
Ports	2 1GbE Rj-45 MGMT Ports   2 10GbE RJ-45 Data Ports		
Power cables	5-15 & C13/C14		
SX STORAGE	SX SERVER + E18	SX SERVER + E48	SX SERVER + E60
Small SX/SXR	14TB to 112TB	20TB to 320TB	20TB to 400TB
Rackspace	4U	6U	6U
Processing Node Included	Yes	Yes	Yes
Storage Node Included	Yes	Yes	Yes
AX SERVER			
CPU	Dual 8-core CPU		
Chassis Form Factor Rackspace	2U		
Drives	2 SAS   10 SATA drives   3.5 in		
RAM	32GB		
Useable Archive Space	8TB to 16TB		
Expandable with Similar Systems	Yes		
Ports	2 10GbE RJ-45 Ports for Data and MGMT		
Power cables	5-15 & C13/C14		

FEATURES AND FUNCTIONALITY	
<b>ENVIRONMENT</b>	
Usage Environments	Windows, Unix/Linux, Apple MacOS
Admin Interface	Web GUI, role-based admin
Remote Replication	Yes, WAN-based
Primary Ingestion Methods	Unity Assureon Archive client on Unity
<b>OPERATIONAL</b>	
Storage Technology Used	RAID disk systems, integrated disk, or cloud
System Logging	Yes
System Automatic Reporting	Yes
System Self-Protecting	Yes
<b>ADVANCED FEATURES</b>	
Power - Auto Spin-Down of Disk Drives	Yes
Single instancing/File Deduplication	Yes
Compression	Yes
File Versioning	Yes
Ingestion Throttling	Yes

## 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 all-flash NVMe, unified storage, block storage, and secure archiving. Nexsan is a proud member of the StorCentric Family. [www.nexsan.com](http://www.nexsan.com)