

# ASSUREON® ACTIVE DATA VAULT

There is some data that is too important to lose, too private to be seen and too critical to be tampered with.

## OVERVIEW

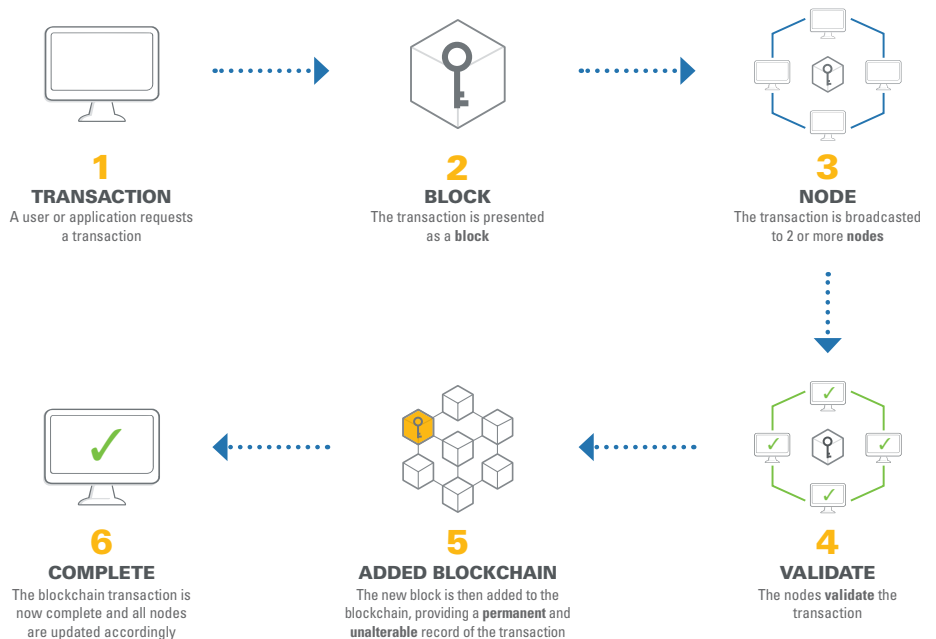
The Nexsan Assureon® archive storage system is ideal for any organization that needs to implement regulatory and corporate compliance, the long-term archiving of unstructured data, or storage optimization. Users do not need to learn anything new, change how they access data or learn any new processes. Assureon's file integrity is second to none so you can trust Assureon to protect your most important data.

## REGULATORY AND CORPORATE COMPLIANCE










Assureon is ideal for organizations that must comply with governmental regulatory requirements including HIPAA, GDPR, CCPA, GLBA, Sarbanes-Oxley, Federal Rules of Civil Procedure (FRCP), CJIS, SEC 17A-4 and PCI DSS. Assureon exceeds even the strictest regulatory requirements for data integrity, protection, privacy, security, longevity and availability with full audit trails. Additionally, Assureon makes it easy and automatic for organizations to adhere to their internal guidelines for data retention, deletion, privacy, protection and risk mitigation.

## ASSUREON PRIVATE BLOCKCHAIN







Assureon Private Blockchain enables organizations to protect and secure digital assets by storing data in an immutable data structure, utilizes cryptography to secure transactions and relies on an automated integrity audit at the redundant sites to maintain data integrity and transparency. Combined with Assureon's unique file fingerprinting and asset serialization process, with metadata authentication and a robust consensus algorithm, Assureon Private Blockchain allows you to securely archive your digital assets for long term data protection, retention and compliance adherence.



## ENTERPRISE FEATURES

	Private Blockchain	Protect and secure digital assets with the immutable data structure utilizing cryptography to secure transactions. Automated integrity audits and redundant sites maintain data integrity and transparency.
	Regulatory Compliant	Assureon complies with governmental regulatory requirements including HIPAA, GDPR, CCPA, GLBA, Sarbanes-Oxley, Federal Rules of Civil Procedure (FRCP), CJIS, SEC 17A-4 and PCI-DSS.
	Storage Optimization	Transparently offload inactive unstructured data from Tier-1 or cloud storage for a more cost effective solution that's easily retrieved.
	Backup Elimination	Assureon-protected data does not need to be repeatedly backed up during weekly full or daily incremental backups, dramatically reducing the size, time and cost of the backup process.
	Cloud Transfer	ACT transfers data to or from cloud applications. Reference any or all archive files from AWS, Azure or windows servers for cloud data portability - eliminating cloud vendor lock-in.
	Remote Replication	Two active Assureon systems can continuously replicate to each other to protect against failure.
	Failover/Failback	Native active/active replication protects against site disasters with automatic read failover and manual write failover.
	Scalable Capacity	Scale capacity up to multiple petabytes and add performance by using multiple Assureon archive storage systems together.
	Performance	Optional RoCE (RDMA over Converged Ethernet) connectivity delivers blazing-fast 40GbE read functionality for virtual shortcuts.

## DATA INTEGRITY

	Fingerprints	Each time a file is saved, a unique fingerprint is generated using both an MD5 and SHA1 hash of its contents and metadata, so history and contents cannot be altered after the fact (WORM storage).
	Serial Numbers	Each file is assigned a serial number which is used to ensure no files are missing or inappropriately added.
	Secure Time	Tampering with the system time clock is prevented by using a global, redundant, secure time source (Stratum Level I hardware time sources).
	Two Copies	Each file and its fingerprint is stored twice in the Assureon. The second copy is either stored in a separate RAID disk set in the same Assureon or on a remote Assureon.
	Data Verification	Files are continually verified against their fingerprints, repaired using their copies and safeguarded by RAID disk arrays for days or decades.
	Chain of Custody	Self-healing integrity checks and file availability audits along with digitally signed metadata files and third-party secure time stamps work together for the utmost protection of files within Assureon. Together, this applies a verifiable chain of custody to each data set throughout the retention period.

## 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)