

# Cloud Integrated Storage Solutions



## Benefits

- Provides multiple avenues for preserving data unaltered over the long-term
- Confidently secures data both locally and on the Cloud
- Facilitates IT management with centralized control and monitoring via a single application interface
- Reduces risks with field proven systems and libraries
- Minimizes data archiving overhead by distributing costs over multiple IT assets and resources
- Configurable systems conform to existing internal storage policies and infrastructures
- Offers affordable alternative disaster recovery strategies (optical stored off site or Cloud)
- Suitable for any business, government, or industry from small organizations to the largest enterprise
- Conforms to 3-2-1 Data Archiving Best Practices: 3 copies of data, 2 on different types of media, with 1 copy stored off site.
- Reduced Operating Costs - offers affordable alternative to traditional storage systems by combining the low operating costs of optical media with the convenience and economy of the Cloud.
- Solutions are supported by the knowledge and expertise of data archiving innovators

Alliance Storage Technologies, Inc. (ASTI) brings new dimension to long-term data archiving with innovative Cloud Integrated Storage (CiS) solutions. CiS solutions combine the strengths of multiple technologies to provide a data archiving infrastructure that drives competitive and financial business advantages.

Businesses and enterprises can now realize an archiving system specific to the needs of the organization according to capacity, scalability, performance, features, and budget. Blending compliant archive storage technologies with the reliability, availability, and utility of the Cloud, ASTI delivers the next generation of data archive storage solutions designed to manage valuable digital content.

ASTI CiS is an all-in-one Network Attached Storage (NAS) solution integrated into a single footprint that provides users with affordable choices for archiving data locally and on the Cloud. Access, manage and view all data anywhere within the archiving ecosystem as part of regular IT operations with onboard-integrated data management.

The multi-faceted architecture is equipped with features that address the contemporary requirements of data storage infrastructures such as compliance with industry regulations, disaster recovery, high-availability and the benefits of the Cloud:

**Cloud** – ASTI CiS integrates seamlessly with industry-leading Amazon Web Services - S3 (Simple Storage Service) to offer transparent data archiving to the Cloud. All data is migrated to the high-performance Cloud service via the NAS archive appliance RAID and is monitored from a single vantage point.

**Compliance** - Organizations face a deluge of regulations that require secure storage of documents and records for extended periods. WORM compliant optical media preserves data unaltered for extended periods. The optional Encryption feature adds another degree of security and compliance when storing data on media or the Cloud.

**Disaster Recovery** - Every system has designed-in affordable disaster recovery options with each having the capability of automatically generating multiple copies of media, one of which can be preserved off-site. Alternatively, data stored on the Cloud can facilitate recovery from disasters.

**High Availability** - When business continuity requires high-availability, the Replication option can be implemented enabling data to be replicated automatically to one or more additional libraries in separate geographical locations creating total redundancy between libraries.

## System Features

- **Centralized control facilitates IT management**
  - Offers an all-in-one solution within a single footprint
  - Monitor and track all data in the archiving environment: onsite, offsite, Cloud
  - Manage control and maintain all data via a single application
  - Establish policies that automatically migrate data from RAID to one or more copies of optical media or Cloud
  - Data is recalled to RAID from optical or Cloud to one central repository
- **Modular, flexible architecture** - Employs the strengths of multiple technologies: applications, server, RAID, optical media and Cloud
- **Investment Protection** - Scalable systems accommodate future growth
- **Eliminates unnecessary components** - No need for a Cloud gateway and third party software
- **Meets regulatory and corporate mandates**
- **Long-term data retention (>50 years)**
- **Cloud on-boarding without risk or loss of data control**
- **Secure centralized access with authentication controls**
  - Standard Active Directory, LDAP, and Local user enforced access, users prohibited from accessing cloud directly

**ASTI CiS solutions combine the strengths of multiple technologies to create a versatile, innovative data archiving ecosystem adaptable to any business, industry or organization.**



## System Overview

Highly configurable CiS solutions may include a variety of features and functions. The primary building blocks of ASTI CiS solutions include:

- **Optical Libraries** - Select from a variety of field-proven and reliable scalable optical libraries suitable for any sized business or organization ranging from Entry-Midrange to Enterprise libraries.
- **Storage Management System (SMS)** - Add the Elite SMS, the high-performance up-front server system with RAID and interface to optical media and Cloud. Elite offers the power, performance, and high-availability of hardware components necessary for expedient migrations and recalls.
- **Archive Management Software (AMS) w/ Cloud Option** - As an integral part of the solution, the flexible software provides all the capabilities necessary for proficiently and effectively archiving, managing, and randomly accessing data. Establish policies that determine when, and to what source, the data files are to be archived, after which the files are migrated automatically to their directed source. For additional data security, implement the Encryption feature as well. The Replication option is available for high-availability requirements.
- **Amazon Web Services S3** - Clients will work directly with AWS to obtain Cloud services under the Simple Storage Service (Amazon S3) service level agreement. ASTI CiS solutions integrate seamlessly with Amazon S3 services that can be used to store and retrieve any amount of data. Amazon S3 features highly scalable, inexpensive pay-as-you-go pricing to handle growing storage needs. S3 provides a secure infrastructure with up to 99.99% durability, with 99.99% availability.

