



Alliance
Storage Technologies Inc.

INTEGRATION

PROACTIVE MONITORING

SIMPLIFIED OPERATION

Archive Management Software

AMS

PROFESSIONAL

SECURITY

BUSINESS CONTINUITY

DATA MANAGEMENT

Whether your objective is to preserve data or images unaltered, comply with industry regulations, wrap some control around big data, or secure data from unauthorized access, the Archive Management Software Pro enables you to archive worry-free while solving business problems.

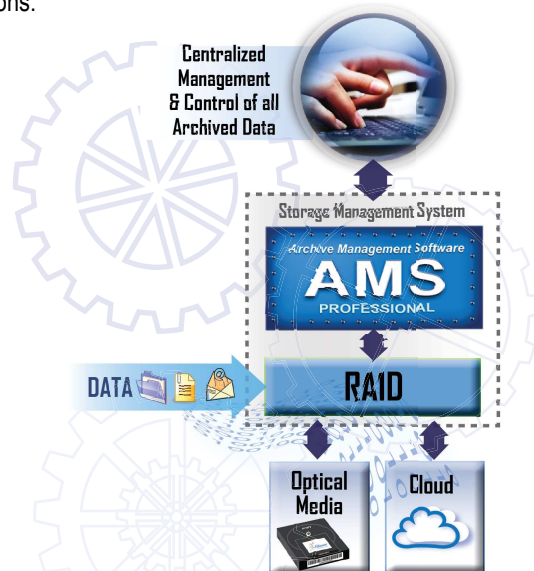
The fully automated Archive Management Software Pro (AMS Pro) data management software serves as the central intelligence for the NETArchive differentiating the solution through accurate and streamlined data archiving operations.

Key elements of the AMS Pro synchronize to provide all the capability necessary for proficiently and effectively archiving and managing data. These elements: Integration, Security, Data Management, Simplified Operation, Proactive Monitoring, and Business Continuity, mesh to provide timesaving features that address the needs of contemporary IT professionals.

Designed by data archiving specialists for archiving professionals, the AMS Pro features the convenience of centralized management and control of all data within the archiving ecosystem. The simple to use web-based interface provides all of the capabilities necessary for migrating data to optical storage media or cloud in accordance with configurable, user-defined policies.

Geared to equal the groundbreaking capabilities of system hardware components, AMS Pro has the power to support high-speed Fibre Channel or SuperSpeed USB communications, up to 96 TB of nearline RAID storage, and up to 2.5 PB of nearline storage with virtually limitless offline media management.

Meeting today's requirements for industry compliance, reducing overhead costs, reducing backup windows, preventing unauthorized access, and preserving data accurately, can be a daunting task. The AMS Pro offers all of the capabilities and protection you need for worry-free archiving operations.



Overview

Archive Data Storage Tiers for Fast Access

- Immediate Access to most recently used data (cached on RAID)
- All data is archived to Optical and/or cloud storage tiers for permanence

Centralized Management and Control

- Of all data within the archiving ecosystem
- Establish user defined policies for individual archives
- Worry-free data archiving – set it once and forget about it

Simplifies and Improves Operations

- Saves time and reduces costs
- Clear-cut administration
- Proactive monitoring & alerts

Highest Level of Data Protection

- Enables compliance with industry and government regulations
- Protects against data loss & minimizes business risks

Multi-faceted Data Security with Controlled Access

- Supports multiple authentication services
- Internal safeguards ensure accurate data archives
- Access is restricted to only authorized users via configurable access controls

Efficient and Flexible Data Management

- Adaptable to any business or industry
- Scalable for non-disruptive system growth & extensibility
- Designed for contemporary IT infrastructures
- Seamless integration with existing applications

Delivers enterprise level capability to all archiving environments whether small or large

AMS Pro Options:

- High Availability Replication
- Cloud-Integrated Storage (CiS)
- Encryption for increased data security

Key elements of the Archive Management Software Pro mesh to provide the capability necessary for proficiently and effectively archiving and retrieving data.



Easy Integration for Users & Applications

SMB, NFS,
File Shares

Dual 1Gb
Ethernet

Integration

AMS Pro is powered by the Storage Management System (SMS), an integrated Network Attached Storage (NAS) server enabling seamless integration [connection] with existing local area networks.

Through configurable settings in the AMS Pro interface, file shares integrate with Windows, UNIX, and Linux, or simultaneous operational support for mixed environments, with standard file sharing protocols: SMB, NFS, and FTP. The dual Gigabit Ethernet network interface settings include redundancy (for disaster recovery) or bonding performance.

AMS Pro easily integrates with applications including content management, document imaging, PACS and DICOM, and more. Optional features enable the software to adapt to the specific needs of your environment and include Cloud as an additional archive tier, encryption for increased data security, and replication for high-availability.



User Authentication

Windows Active Directory
Local Users
LDAP

WORM Media

Data Encryption

AES-256 Cryptography
FIPS-validated 140-2
Complicitant Key Management

Security

ASTI's AMS Pro secures your archived data with a multi-layered approach to data security that includes standard security protections, record authenticity, and optional encryption. The AMS Pro supports multiple user authentication services including Windows Active Directory, LDAP, and Local User Security. This support extends corporate security to archive resources and eliminates the need to manage and synchronize secondary user definitions. Additionally, all data transmitted to offsite replication systems is encrypted in transit. True Write-Once-Read-Many (WORM) optical media secures data for greater than 100 years and meets stringent industry and government regulatory requirements.

AMS Pro offers optional encryption for organizations requiring an additional layer of security or needing to comply with regulations such as HIPAA/HITECH. Optional FIPS 140-2 based encryption secures data from unauthorized access or theft and has built-in encryption key management and protection meeting NIST guidelines.



Efficient & Flexible Automated Management

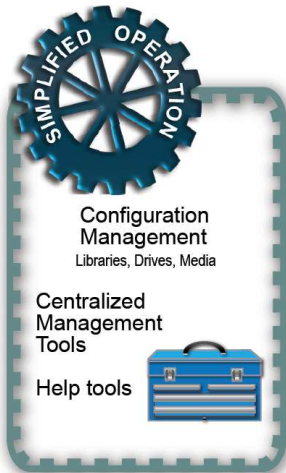
Policy-based Control
Thin Provisioning
Optical Media and/or Cloud

Immediate Access
to Cached Data

Data Management

The AMS Pro offers efficient and flexible automated data management. Archives appear as another network drive providing users and applications with transparent access to the data. With up to 96TB of RAID storage, users and applications have immediate access to most recently cached data. RAID cache for each archive is customizable depending upon the frequency of recall or access needs enabling rapid response to requests for data or eDiscovery.

Easily create archives by need, selecting optical, cloud, or both, as migration storage tiers. Thin provisioning of media and cloud ensures allocation of storage only when required, reducing total cost of ownership. Powerful policy-based archive controls enable administrators to configure archive volume file migration criteria, RAID allocation and release, and online and offline media management. Seamless data verification and error handling ensure correctly written data.



Simplified Operation

The web-based AMS Pro interface enables administrators to control, monitor, and manage all data within the entire archiving ecosystem from a single vantage point, increasing operational efficiency.

Whether configuring the system initially, setting up new archives, or monitoring and tracking nearline, online, and offline media, the fully automated data management software offers simplified, clear-cut administration. Easy to setup and configure, administrators simply set it once and monitor thereafter.

Valuable Help Tools are available to support setup and operation. The AMS Pro scales with your archiving operations providing non-disruptive growth. Monitoring, protecting, managing, and configuring all key archive solution components from a single source ultimately saves time, and reduces overhead costs and expenditures.



Proactive Monitoring

Proactive self-monitoring is a critical aspect of any fully automated data management system. The AMS Pro automatically monitors key system health indicators based on input from system events, operations, and media management. The software receives input from the SMS Server, including board, CPU, memory, network, and fans, the Optical Libraries and Drives including status, temperatures, fans and errors, and Operational Components and Processes including migrations, recalls, media management, cloud, encryption, and replication.

Administrators can enter notification recipients to receive real time alerts when specific events occur. Real time alerts or notifications are sent via SMTP (email) or SNMP. There are five levels of thresholds available including: Normal, Info, Warning, Critical, and Emergency. Notification history is viewable via the web interface.



Business Continuity

Businesses and organizations requiring rapid recovery can take advantage of the high-availability Replication feature. All data is replicated from an active library to one, or more, passive libraries located remotely or on-premises. In the event of a disaster, libraries can failover or failback depending upon available resources. Access control lists (ACL's), ownership, permissions, and extended attributes are migrated together with data archives enabling true redundancy between libraries. Libraries are synchronized daily; only files that have been added or modified are replicated enabling efficient use of resources.

Designed-in affordable disaster recovery options are standard in the NETArchive/AMS Pro. Through thin file system restore, systems can be recovered from the daily backup of the File System Catalog (FSC) and media or cloud, significantly increasing the speed of data recovery. The AMS Pro has the capability of automatically creating multiple copies of data on media or cloud. Data copies can be moved offsite for secure storage or remain safely in the cloud. Additionally, True Write Once Read Many (WORM) optical media by itself has proven to offer the necessary resilience for recovery in the event of a disaster.

This combination of system capabilities provides multiple avenues for securely preserving data and maintaining business continuity.