

Plasmon Enterprise Active Archive

Benefits at a glance

- > Reduces legal risks and supports corporate governance better than any other archive system
- > Manages the retention and deletion of online and offline data
- > Facilitates e-discovery
- > Saves money and resources with single-instance storage
- > Easily scales to support petabytes of archive data
- > Simplifies disaster-recovery planning
- > Optimizes IT and improves operating efficiencies
- > Reduces energy costs and keeps your storage infrastructure green

Like most companies, your archive storage needs have probably increased dramatically over the past few years, and are continuing to grow exponentially. The emergence of electronic data as the official business record, new forms of digital information, corporate governance practices, and compliance regulations, are all contributing to rapid data growth. Not only is there more data to archive, but it must be retained for longer periods, and specific files must be quickly accessible for legal discovery purposes.

The Enterprise Active Archive (EAA) is specifically designed to meet your complex archiving needs in a cost-effective manner. It is the industry's first intelligent, secure, multi-tier archiving solution that manages data and its retention on both online and offline media.

**ENTERPRISE
ACTIVE
ARCHIVE™**

The EAA delivers the performance and simplicity of network-attached RAID disk with the authenticity, permanence, and portability of UDO media. And flexible, policy-driven management tools help reduce your business and legal risks while meeting corporate governance requirements.

Support corporate governance and comply with regulations

Today's regulatory environment is extremely complex with over 20,000 worldwide regulations impacting how business records must be created, stored, accessed, and maintained. Business policies, processes, practices, and systems can be audited at any time for compliance with these laws. And electronic discovery (e-discovery) can cost a corporation hundreds of thousands of dollars, and possibly uncover information that should never have been retained.

To minimize the risks and costs of e-discovery, a company needs to establish retention policies based on industry, federal, state, and local laws. Equally important is a systemic process that manages, authenticates, and disposes of records based on these policies. Plasmon's EAA enables you to meet the most stringent compliance regulations by establishing a complete process for archiving and auditing electronic information.

According to an Enterprise Strategy Group survey, approximately 42% of organizations have experienced an e-discovery request during the past twelve months. More than half of these organizations failed to produce requested records, and 13% experienced a financial penalty for this failure.





The EAA is a multi-tier archive solution using both RAID disk and UDO technologies. Policy-based software enables the movement of data among these tiers and the compliance functions described below:

User-defined retention management tools

At the heart of the EAA are its policy-driven management tools that automatically classify data and assign the proper retention period. Since policies are enforced at the file level, each file can have a specific retention period based on its importance. And a single file can have different retention periods for different users.

Indexing and search capabilities

The EAA facilitates e-discovery by maintaining a rich metadata layer that is indexed for fast and timely access. An optional contextual search engine allows searching all information in the archive.

Data immutability and record authenticity

UDO is the only true hardware-based WORM technology. It provides unmatched data authenticity and a media life in excess of 50 years.

Records retained in the EAA cannot be altered or deleted until the specified date. Authenticity is further ensured by the EAA's self-diagnostic and repair tools. Archived files are continually scanned to verify they have not been corrupted. Any discrepancy causes the file to be replaced with a mirrored copy, and the audit log to be updated.

Absolute disposition of data on all media

Deletion of all file copies is critical to meet privacy regulations and minimize the risks of e-discovery. This is challenging for many organizations since it's almost impossible to delete a specific file across all backup tapes.

The EAA provides complete deletion of all copies, regardless of media and location, at a specified time. Files on disk are deleted through an automated, seven-step process. And data stored on UDO media onsite or offsite is deleted by destroying the file's encryption key, rendering the file unusable.

Meets legal hold requirements

The EAA can place "on-hold" the destruction of records in case of pending litigation or a government investigation. The disposition process also requires a deliberate action by the administrator.

Identifiable audit trails for compliance

As mandated by HIPAA, the EAA provides detailed audit trails verifying who has accessed data and when. All files are serialized and assigned a globally unique ID when ingested. This ensures that files have not been backdated, tampered with, or destroyed, fulfilling an SEC requirement.



Tape is not an effective digital archive medium, especially for business compliance data. It simply takes too long for users to find and retrieve data on tape. This time equates to dollars lost – in manhours consumed to find data, application downtime, fines, etc.”

Heidi Biggar

Analyst
Enterprise Strategy Group

Canada

- > Electronic Evidence Act
- > Basel II

United States

- > SEC 17a-4
- > HIPAA
- > FDA 21 CFR Part 11
- > Sarbanes-Oxley
- > ISO
- > FRCP
- > Basel II

United Kingdom

- > BSI PD5000
- > Financial Services Authority
- > Public Record Office
- > Basel II

Germany

- > GDPdU
- > GoBS
- > Basel II

Japan

- > Electronic Ledger Storage Law
- > 11 MEDIS-DC

France

- > NF Z42-013
- > Basel II

Italy

- > AIPA
- > Basel II



More than 20,000 regulations influence the storage of electronic information worldwide.

Protect and secure your valuable data

Some industry experts are advising companies working with confidential information to encrypt all data stored on portable devices and media.

The EAA enhances data security and safeguards valuable information with the following features:

- > **256-bit AES encryption** is a standard feature, and protects files stored on local disk, remotely replicated disk, or removable UDO media. Simple-to-use policies enable data to be selectively encrypted at the file, volume, or archive level.
- > **Key management is a fully integrated service that provides peace of mind.** All keys are encrypted and there is a monthly roll of the master key and the key manifest. And the system includes remote vaulting of keys to multiple secure data centers.
- > Unlike other archiving systems, the EAA uses **dual cryptographic hashing algorithms** (MD5 and SHA-1) to create each object's unique file ID. This confirms file integrity and eliminates potential data loss from weak hash collisions.
- > **Controlled access to information** is a key component of any data security system. The EAA transparently integrates with Microsoft's Active Directory and Microsoft's Authentication System. Audit logs detail all access to managed information, as mandated by HIPAA and other regulations.

Choose the right platform for your archive data

Backup and archiving are two different functions, and require storage systems with different attributes. The EAA provides the necessary longevity, authenticity, security, access, and low total cost of ownership to meet your archiving needs.



A best practice for securing long-term data archives is to maintain three copies of data on at least two different types of media in multiple locations, mitigating the risk of media failure. At least one copy of the media should be removable and be maintained offsite for disaster recovery purposes.”

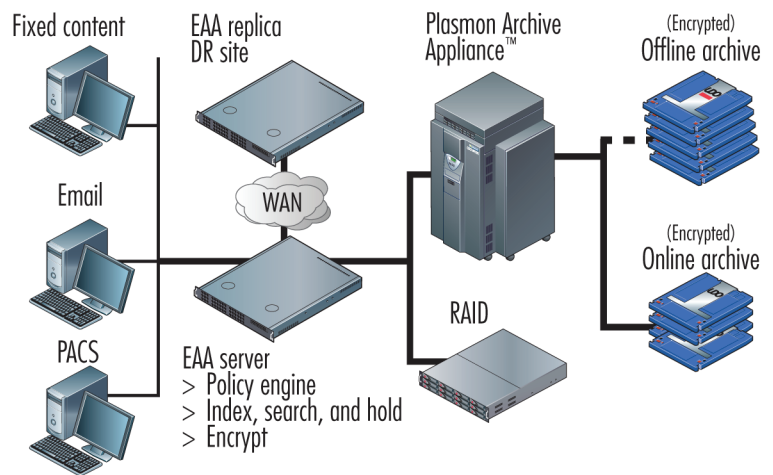
Carolyn DiCenzo

Research Vice President
Gartner, Inc.

Simplify disaster-recovery planning

The EAA provides a robust, cost-effective, disaster-recovery solution. Automatic data replication to another EAA at a remote location protects against site-based disasters. Your archive data is easily and quickly accessible in the event of a physical disaster with the EAA's failover and failback capabilities.

Alternatively, a second copy of data can easily be stored offsite on removable UDO media. The EAA's standard encryption capabilities provide additional security and protection from unauthorized access.



The EAA provides three copies of data on two different media types

Plasmon's Enterprise Active Archive: More feature rich than any other archive system

	Hardware-based WORM media	Unique file ID	Single-instance storage	Offsite media management	Replication	Searching	Retention on mixed media	Integrated encryption
Plasmon EAA	✓	✓	✓	✓	✓	✓	✓	✓
EMC Centera	✗	✓	✓	✗	—	✓	✗	✗

Make the most of your storage resources

Along with rapid data growth, most organizations are experiencing shrinking backup windows, and flat or reduced IT budgets. It's increasingly important to achieve the most-appropriate and cost-effective IT infrastructure possible. Information needs to be retained on the correct tier of storage with regards to access time, longevity, and cost.

The EAA helps streamline your IT infrastructure by off-loading fixed content and static data from production systems. Permanently archiving this data on the EAA improves operational efficiencies, reduces backup overhead, frees up expensive primary storage, and lowers costs.

Plasmon's EAA further reduces operating costs in the following ways:

- > **Single-instance storage, or de-duplication**, ensures that only a single copy of a record is retained, resulting in up to 60% less required storage space, and significantly less network bandwidth for replication to a DR site.
- > **A modular architecture provides unmatched scalability and investment protection.** Processing power, disk cache, and UDO archive media can all be scaled independently to meet your specific archiving requirements. The EAA supports up to 256 devices, over 400 million files/objects, and scales from 1TB to over 5PB.
- > **The EAA is easy to deploy and administer** with its industry-standard NAS interface and Web-based management console. The system is transparent to the end user and does not require proprietary APIs.
- > **Policy-based management tools** reduce the burden on IT and lower OPEX by automating everyday IT tasks. Data migration and retention policies only need to be defined once, and the EAA automatically enforces them. Routine housekeeping tasks such as formatting file systems, creating volumes, and binding LUNs are no longer necessary.
- > **Uses your storage resources more effectively** by archiving data from different applications in a single, scalable solution.

Save energy costs while keeping your data center "green"

An April 2007 Gartner analysis showed that 2% of the world's carbon dioxide emissions are generated by the information and communication technology industry. And according to a recent EPA report, IT departments can expect to spend half of their total budget on energy. Today, many corporations are making energy efficiency in technology a large part of their overall "green" efforts.

UDO technology is environmentally responsible, and uses significantly less power and cooling than magnetic-disk archive systems. In fact, EMC Centera consumes as much as 17 times more energy than a comparable UDO archive. Plasmon's UDO solutions help you save money and the environment.



Plasmon offers the only enterprise-class active archive solution that ensures data permanence, authenticity, access, longevity and removability, at the low total cost of ownership that businesses demand.

Archive Without Compromise.™

Plasmon is ISO 9001 certified.

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Plasmon

Global Sales

Americas & Asia Pacific Sales HQ
370 Interlocken Blvd., Suite 600
Broomfield, CO 80021
800.451.6845
Sales@plasmon.com

EMEA Sales HQ
Whiting Way, Melbourn
Hertfordshire, SG8 6EN
+44 (0) 1763 262963
emea.sales@plasmon.com

Plasmon.com