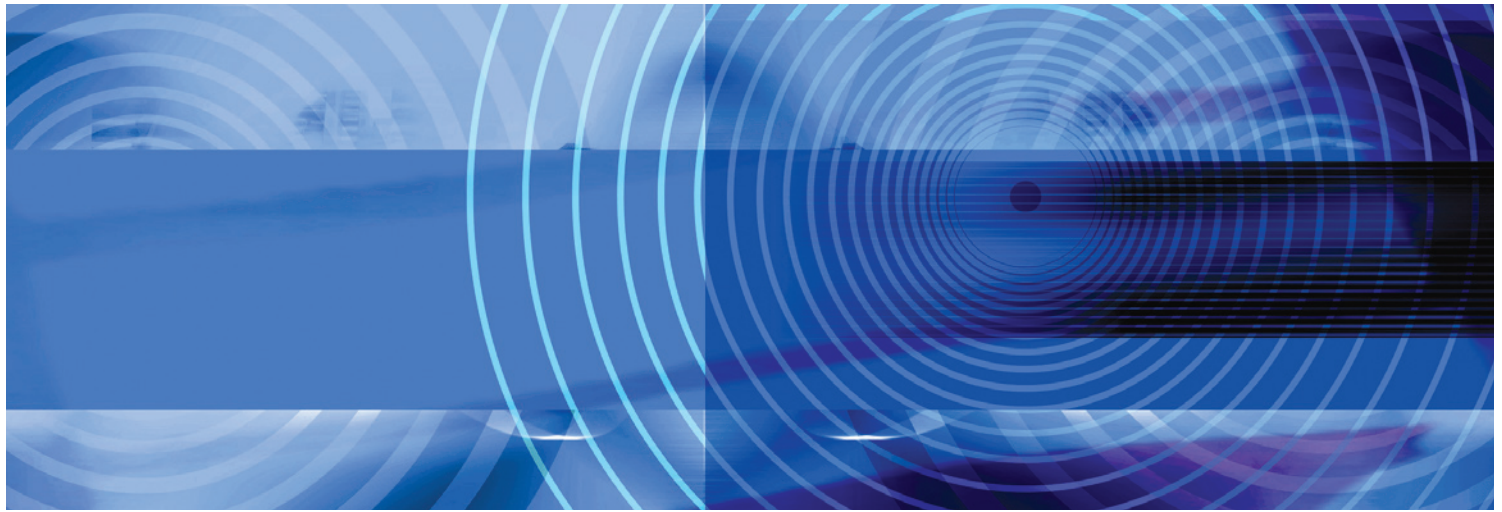


Archiving Solutions with the Hitachi Content Archive Platform



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Information growth inside organizations is resulting in rapidly increasing operating costs and decreasing application performance, while simultaneously increasing corporate risk. As companies strive to better manage information growth, they are facing unprecedented challenges to balance costs while preserving and maintaining access to content for compliance, e-discovery and corporate governance requirements. Unstructured content is driven by key applications, such as e-mail, database/enterprise resource planning (ERP), enterprise content management (ECM) and Web 2.0 content creation, as well as groupware solutions like Microsoft® SharePoint systems. The Hitachi Content Archive Platform offers a solution — a common platform to store and preserve information permanently, yet allow easy access to it — thereby helping organizations decrease operating costs.



E-mail Archiving

Today's organizations are facing increasing pressure to retain e-mail for compliance requirements (Sarbanes-Oxley, Federal Rules of Civil Procedure, SEC Rule 17a-4, NASD Rules 2210, 3110) and litigation e-discovery requests. At the same time, e-mail servers are under increased loads from the volume of e-mails sent, received and stored.

Working in concert with e-mail archive solution partners, the Hitachi Content Archive Platform provides a robust and highly scalable solution for e-mail archiving requirements.

E-mail archiving software offers several key capabilities:

- **Mailbox management**, which reduces the load on primary e-mail storage by migrating data to an archive layer or storage based on business rules
- **Watchdog and classification services**, which review key words and quarantine questionable language
- **Legal discovery support**, including search and case management tools for legal discovery
- **Records retention**, to meet corporate governance and compliance standards

The Hitachi Content Archive Platform provides "write once, read many" (WORM) storage, ensuring archived content cannot be changed. Further, the Content Archive Platform enforces retention at the storage layer to prevent premature deletion.

The Content Archive Platform complements these e-mail archive software solutions by offering encryption, de-duplication and replication

services at the storage layer. With the Content Archive Platform, administrators can scale their e-mail archives to billions of e-mails.

File System Archiving

Classification and file system archiving software solutions offer storage and IT administrators different options to accomplish the balance of keeping a large amount of fixed content available, while keeping costs low. As file system archiving solutions direct static content from tiered storage through policy-based migration, the end result is reclamation of existing higher tiered storage, a reduction in backup windows and reduced backup costs. The typical functionality of these solutions includes:

- **Classification services and reporting** — identify the fixed content within an environment and potential candidates for migration to an archive tier of storage.
- **A policy engine and migration agent** — automate file migration to various tiers of storage, leaving behind "stubs" or pointers to ease retrieval of data.
- **Archive functionality** — set retention when moving fixed content to active archive.

As noted above, the Hitachi Content Archive Platform provides WORM storage, ensuring archived content cannot be changed, and enforces individual file-level retention at the storage layer to prevent premature deletion. The Content Archive Platform complements file archive solutions by offering encryption and replication services at the storage layer and greatly reduces storage costs through integrated file de-duplication. Plus, the platform's integrated search and indexing makes any archived file easy to find.

Database and ERP

The widespread use of ERP, customer relationship management (CRM) and customer facing e-business applications is causing transactional data to accumulate at an exponential rate. This structured data in production systems is often duplicated on mirrored databases and backed up frequently to provide for disaster recovery and business continuity. The active, changing portion of this data is typically much less than the historical or fixed content portion.

Data retention regulations coupled with corporate governance mandates are compelling organizations to preserve and retain historical data for longer periods of time. While this enterprise data is no longer needed for daily operations, it must remain accessible so that companies can respond to audit or discovery requests. Noncompliance exposes organizations to severe financial and reputation risk.

This accumulating historical data also slows down production systems, adversely impacting customer facing and internal processes; it elongates backup cycles and recovery times, and drives the purchase of more and more servers and database licenses.

Working with database archiving partners, the Hitachi Content Archive Platform allows organizations to implement enterprise data management and storage strategies that allow them to meet accessibility requirements for compliance retention, maintain application databases at a manageable size and lower costs.

Security Information Management and Call Data Records Management

Log files and call data records — whether operational, for security or government mandated — are another key driver of fixed content in an organization.

Log file aggregation and analysis solutions provide the ability to collect and search through vast amounts of records, quickly retrieving the desired results for security forensics, e-discovery or other compliance requirements. They also allow organizations to perform detailed analysis on log file data, providing detailed security or other IT infrastructure, and enabling organizations to improve the security and efficiency of their IT infrastructure.

The Hitachi Content Archive Platform, when combined with these solutions, provides an online WORM archive with the massive scale required to store these records. The Content Archive Platform also ensures the long-term preservation of these records through advanced RAID protection schemes and replication for disaster recovery. Finally, the Content Archive Platform ensures these records are secure through at-rest data encryption.

Enterprise Content Management and Collaboration

Enterprise Content Management systems are already well established in information infrastructures, and, more recently, adoption of Microsoft SharePoint has also increased tremendously.

These ECM and collaboration software solutions provide:

- **Document management** — check in/check out, version control, security and library service for business documents
- **Records management** — long-term archiving, automated retention and compliance policies
- **Document capture and imaging** — captures paper documents
- **Document-centric collaboration** — threaded discussions, project teams
- **Workflow** — supports business policies, content routing, work task assignment, audit trail creation

The explosion of content through with the use of Microsoft SharePoint has also created unique challenges for IT:

Hitachi Content Archive Platform Independent Software Vendor Program: Ecosystem Partners

Hitachi has a robust ecosystem of partners that complement the Hitachi Content Archive Platform. Listed below are just a few ecosystem partners.

To find out more about the Hitachi Content Archive Platform and the latest update on ecosystem partners, please visit: <http://www.hds.com/products/storage-systems/content-archive-platform/>

E-mail Archiving

CA, CommVault®, Gwava, Mimosa Systems, Open Text, Proceso, Symantec (Enterprise Vault), Waterford, Zantaz (Autonomy), ZipLip

File System Archiving

Arkivio (Rocket Software), Atempo, CA, CaminoSoft, CommVault, Crossroads, Enigma Data Solutions, Kazeon, Moonwalk Open Text, StoredIQ, Symantec (Enterprise Vault/FSA)

Enterprise Content Management and Collaboration

AleroTech, ASG (ViewDirect), Benchmark, Ceyoniq, Easy Software, FileTek, H&S, IBM (FileNet Image Services), Microsoft (SharePoint), OpenText

Database and ERP

Open Text, Princeton SoftTech (IBM), SAP, Solix

Security Information Management and Call Data Records Management

FileTek, Intellitactics, SenSage

- Backup times are dramatically increased.
- Microsoft SharePoint performance decreases as content is added.
- Information becomes more difficult to find as hundreds or even thousands of SharePoint sites are deployed across the enterprise.

The Hitachi Content Archive Platform provides a common repository for ECM and SharePoint documents. It offloads application servers and expensive local or SAN storage, increasing performance and decreasing backup times.

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