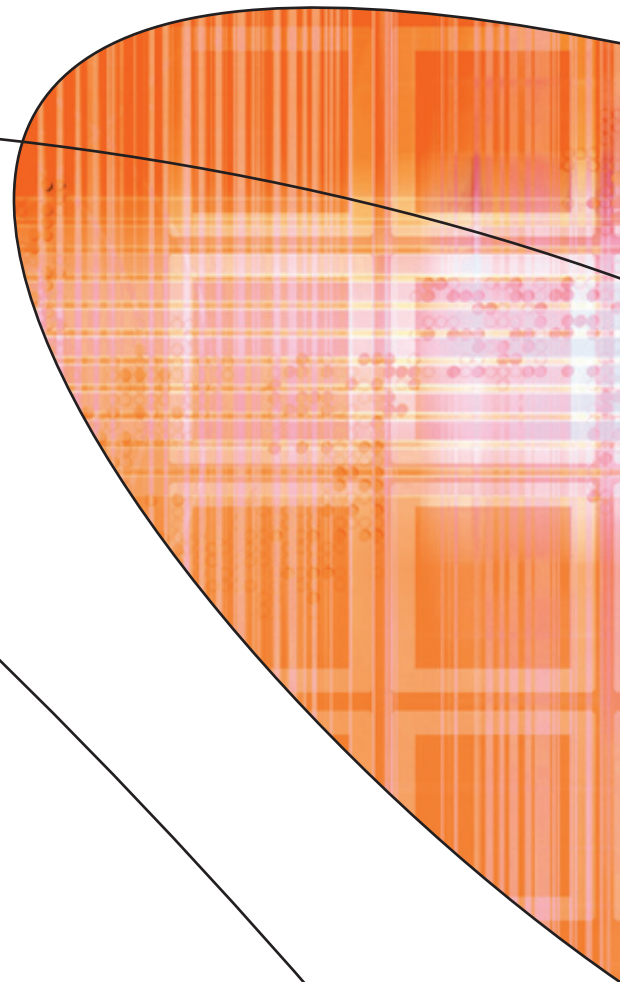




Hitachi Content Archive Platform

An Active Archive Solution

Partner Beyond Technology



As companies strive to better manage information growth, regulatory compliance, and governance they are facing unprecedented demand, not only for secure long-term preservation and retention of digital content, but also for ready access to that content whenever it is needed.

Hitachi Content Archive Platform An Active Archive Solution

The Hitachi Content Archive Platform establishes an *active archive* environment—a single online repository that enables protection, search, and retrieval across all content types. Based on a unique SAN-based architecture, the Content Archive Platform fully leverages Hitachi storage capabilities for high availability, performance, and multipetabyte scalability.

With the Content Archive Platform, Hitachi Data Systems Takes Its Application Optimized Storage™ Strategy to a New Level

Hitachi Data Systems has defined a new approach to the active archive market that combines industry-leading Hitachi storage with renowned, open standards-based archiving software. The Content Archive Platform addresses customers' needs, delivering content services for long-term preservation, simplified management, and rapid retrieval of structured and unstructured data.

The Content Archive Platform provides a massively scalable active archive solution, based on a common environment for archiving content, which takes advantage of the unique, established portfolio of tiered storage technologies already available from Hitachi Data Systems.

Can You Risk Lack of Access to Historical Information and Content?

From rapidly growing midsize businesses to the largest enterprises, IT departments face the challenge of effectively managing and preserving business-critical content, knowledge, and information that is produced and stored digitally. If your company generates significant amounts of unstructured content and/or is working to comply with corporate governance requirements or government regulations, you are especially aware of the escalating costs of legal discovery in digital repositories, penalties and fines for not complying with regulations, and the growing complexity of managing digital content.

Consider the Hitachi Content Archive Platform— an Active Archive Solution

A Single Online Repository for All Content Types

The Content Archive Platform is based on records-management and archival-science specifications and takes a policy-based,

Why an “Active Archive”?

An active archive provides for the long-term preservation and protection of authenticated digital content and keeps it available and easily accessible for retrieval in a timely manner whenever needed.

Historically, an “archive” has been viewed as a repository of backup and recovery data. The focus was on data protection for recovery from data loss or a disaster, not on rapid retrieval or frequent restores. Thus, tape and optical systems were adequate storage media. However, ad hoc retrieval of content was slow, if at all possible.

Times have changed. Companies now recognize that, at any moment, archived data may be requested for use in audits, legal discovery, or for business analytics applications.

Cost-effective disk-based storage systems combined with metadata management software simplify the rapid search and retrieval of archived data whenever needed, making active archives possible.

object-oriented approach to ease the access and retrieval of various content types across multiple applications. Leveraging Hitachi Content Archiver software, powered by Archivias®, the Content Archive Platform establishes a single online repository of content objects that combine the file, its metadata, and policies for authentication, retention, and protection.

This single repository, capable of holding structured, semi-structured, and unstructured data, eliminates the need for separate islands of content archives serving individual applications. It allows integrated searching and indexing of the archive, including search of file contents—a unique capability still unavailable with traditional content addressable storage (CAS) products.

Further, the Content Archive Platform provides authentication and secure retention of content to ensure its long-term preservation and accessibility in an active archive storage environment within an open and standards-based environment that minimizes technology constraints.

Hitachi Content Archiver Software Supports:

Multi-application Access:

Content can be archived by multiple applications simultaneously.

Archive Object Management: Archived content is managed as objects that include the data file, metadata, and policies.

Open Standards: Administrators interface with the archive through standard protocols that maintain the familiar file system view and standard file formats.

Search and Indexing: Enhanced discovery via simple and advanced searches is enabled through an easy-to-use browser interface.

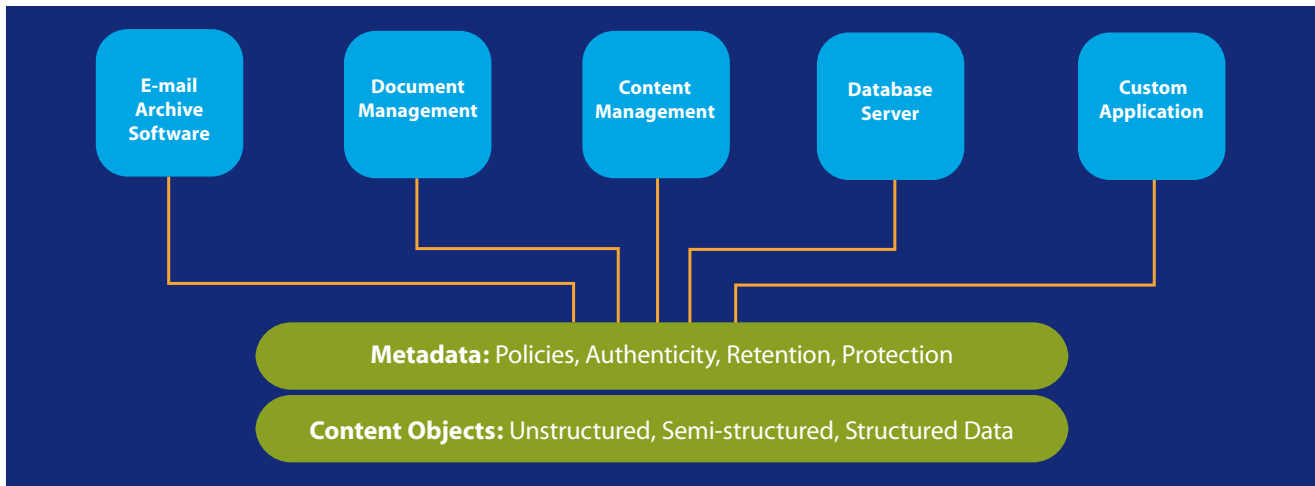
Simplified Management: Self-healing and configuring can be completed via automated monitoring and integrity checks.

Near-infinite Scalability: The software scales to meet requirements for increasing content load and storage capacity.

Built on Robust Hitachi Storage for Best-in-class Availability, Performance, and Scalability

As the amount of digital content expands, meeting increased archival demand requires a robust platform that offers flexible scalability, high availability, and performance for rapid retrieval, in both open systems and mainframe environments.

Hitachi Content Archive Platform



The Content Archive Platform is based on records-management and archival-science specifications and takes a policy-based, object-oriented approach to ease the access and retrieval of various content types across multiple applications.

The Content Archive Platform scales to support an increasing number of applications, new content for archiving, and the high availability needed to protect it. The platform scales horizontally to archive content across a variety of applications and vertically to address the continuing growth of content that must be retained.

Hitachi Content Archive Platform is initially available in two preconfigured Hitachi storage systems that can be scaled to higher capacities.

- :: Hitachi Content Archive Platform with 5TB of usable capacity
- :: Hitachi Content Archive Platform with 10TB of usable capacity

As your capacity requirements grow, each model can scale in 2.5TB and 5TB increments to meet them.

Feature Highlights

- :: Highly available—no single point of failure
- :: SAN Architecture
 - :: Reliable SAN back-end storage
 - :: Array of Independent Nodes
- :: Full-text indexing and search
- :: Mirrored data objects
- :: WORM (“write once, read many”) File System

- :: Self-healing and self-configuring
- :: Automatic load balancing

Business Benefits

With Hitachi Content Archive Platform, you can:

Meet regulatory and governance requirements. Ensure compliance with requirements for content preservation and retention.

Protect your business. Reduce risk of fines and penalties for not meeting regulatory compliance mandates or providing timely responses to audit and legal-discovery requests.

Save time, money. Reduce cost and complexity via a single active archive repository. Expedite content retrieval. Place archived data on lower-cost storage tiers.

Protect and secure content. Provide a high-availability environment. Authenticate file integrity and access. Enforce retention rules.

Simplify searches. Ease access and retrieval of archived content whenever needed.

Grow with your business. Scale horizontally to support multiple applications and content types. Scale vertically to support continued data growth.

Enterprise Strategy Group: 90 Percent Annual Growth in Unstructured Data

More than 50 percent of all corporate data involves unstructured or fixed content, such as documents, images, e-mail, and other data. This data, which is experiencing up to 90 percent annual growth in volume according to Enterprise Strategy Group (ESG), must be readily available when needed. To date, ESG has found more than 15,000 laws and regulations in the United States alone, drafted by federal and state legislative bodies, which pertain to the proper treatment of information.

Capabilities

Governance and Compliance

- :: Policy-based management to set and adhere to retention periods
- :: WORM File System for content immutability
- :: Authenticity established with user-selectable digital signature (MD5, SHA1, SHA256, SHA512)
- :: Embedded index and search to accurately and quickly retrieve content
- :: Content protection through multiple copies and RAID-protected storage

Preservation and Retention

- :: Archives any type of content, such as e-mail, documents, spreadsheets, still images, scanned images, database records, etc.
- :: Allows archived information assets to be a source for business analytics
- :: Prevents deletion prior to the expiration of a retention date
- :: Keeps data safe; ensures high reliability with file authentication, retention, protection, and logging

Optimized Performance and Availability

- :: Highly available RAID storage and cluster architecture to ensure access to data and reduce recovery and rebuild time
- :: Optimal performance and maximized storage utilization through even distribution of data to balance load and storage
- :: Multiple file transfer sessions handled in parallel for superior throughput to nearline and tape-based solutions
- :: Simplified management and administration through self-managing cluster design
- :: Standards-based interfaces for integration (NFS, CIFS/SMB, HTTP, HTTPS, WebDAV)

Structured data is held within the well-defined constructs of a database. This is critical for organizations that rely upon online transactions and 24/7 access to transaction-related information.

Semi-structured data includes e-mail messages and unstructured documents structured by e-mail metadata, such as who sent the message under what subject with what attachments to whom and when.

Unstructured data includes documents, spreadsheets, graphics, still and moving images, and other data formats stored in file systems.

Meet Business and Application Requirements. Optimally Archive Content. We're at Your Service.

The Hitachi Data Systems Global Solution Services team can help you design and implement the optimal content archive platform to meet your business and application requirements with assessment, planning, design, and implementation services that support Hitachi Content Archive Platform and the entire suite of Hitachi storage products. Global Solution Services consultants assist with identifying and prioritizing your performance, availability, and cost requirements, designing and cost-justifying the most appropriate archive storage infrastructure, and implementing and configuring the optimal solution to meet your business and application needs.

Complementary Solutions

Hitachi Data Migrator software, powered by CommVault®

Part of the Hitachi Data Protection Suite, Data Migrator software delivers policy-based data management for Microsoft Exchange e-mail and Microsoft Windows or Sun Solaris file system data to reclaim space, reduce production data storage size, address quota issues, enable file-based tiered storage management, and provide archiving services.

Hitachi Data Archiver software, powered by CommVault

Part of the Hitachi Data Protection Suite, Data Archiver software provides tamperproof surveillance, discovery, and long-term access to Exchange e-mail for government compliance or business needs.

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