

Hitachi Content Archive Platform

The Hitachi Content Archive Platform is a cost efficient active archive storage solution that maintains content to meet long term preservation, availability and retention policies; optimizes storage efficiency and scalability; and enables discovery of fixed content.

Fixed Content Archive Solutions in a Crowded Digital World

Digital fixed content is increasing at an exponential rate, making archiving a high priority for organizations. A ripple effect is often seen as organizations “throw more servers and storage at the problem.” In the end, costs are compounded and pressure increases to meet corporate governance guidelines and reduce the risk of audits related to government data retention regulations.

Examples of fixed content data include lesser referenced corporate documents or financial records, seldom accessed customer records such as monthly phone bills, medical records and images, Web 2.0 content or simple e-mail and attachments.

The Hitachi Content Archive Platform is a cost effective solution designed to answer all of these challenges. This robust “active archive” retains and authenticates fixed content data while scaling and optimizing performance, capacity and availability to handle extensive growth. The Hitachi Content Archive Platform is an ideal target for moving older data from expensive higher storage tiers, reducing backup windows and related costs, dramatically improving discovery time and meeting both corporate governance and regulatory compliance objectives for critical data retention.

Business Benefits

Preserve and Protect Fixed Content Data

- Sets and enforces data retention periods to provide disk-based “write once, read many”

Business Solutions

Hitachi Data Systems and its Hitachi TrueNorth Channel Partners along with the Hitachi Content Archive Platform’s integrated software vendors (ISVs) offer industry leading solutions to help organizations of all sizes meet their unique requirements for business continuity, regulatory compliance and data recovery. Together, we provide cost effective storage products and solutions that leverage world renowned Hitachi global R&D resources to deliver performance, availability and scalability — supporting business critical ISV and custom developed applications and strengthening competitive advantage.

Complementary Services

Hitachi Data Systems Global Solution Services (GSS) can help organizations of all sizes design and implement the optimal Hitachi Content Archive Platform configuration to meet specific business and application requirements. Choose from GSS design and implementation services that support the Content Archive Platform and the entire suite of Hitachi storage products.

Hitachi Content Archive Platform: Available Solutions

	300 Series	500 Series
System Overview	RAIN architecture Provides embedded storage per node in affordable configurations	SAIN architecture Offers maximum flexibility, performance and scalability Highly scalable solution that leverages Hitachi storage options
Scalability (usable capacity*)	Scales from 2TB to 42.5TB	Scales to 40 petabytes (PB) usable configurations
Supported Hitachi Storage Platforms	Embedded storage within the Hitachi Content Archive Platform 300 appliance	Supports: Hitachi Universal Storage Platform® V Hitachi Universal Storage Platform Hitachi Adaptable Modular Storage Hitachi Workgroup Modular Storage

* Capacity gains may be experienced with the de-duplication and compression features.

(WORM) capability and prevents record deletion prior to data retention end date

- Ensures content authenticity with unique digital signature
- Protects data in unaltered form through file authentication, retention and logging
- Ensures high availability and fault tolerance through both Redundant Array of Independent Nodes (RAIN) configuration and SAN-attached

Feature Highlights

Feature	Feature Description	Hitachi Content Archive Platform 300	Hitachi Content Archive Platform 500
Open Interoperability	Standard file system interfaces and protocols for application integration — no proprietary API required	✓	✓
High Availability and Data Protection	Policy-based object management guarantees archived data is authentic, available and secure using selectable hash algorithms WORM format safeguards against corruption or tampering	✓	✓
Encryption Options	Multiple encryption levels for both transmission and storage	✓	✓
Duplicate Elimination	Not only compares hash generated fingerprints but also does a binary compare of the contents of the object	✓	✓
Object Compression	Reduces the physical size of the data stored in Content Archive Platform, enables greater storage efficiencies and scalability, and reduces total cost of ownership	✓	✓
High Availability and Data Protection	Data Protection Levels (DPLx) ensure specified number of replica copies are maintained to tolerate simultaneous points of failure	DPL2 with RAID-5 protection	Multiple DPL levels available, with RAID-6 protection
Retention Enforcement	Enforces application defined retention — prevents premature deletion of archived files based on file-level settings	✓	✓
Support for Custom Metadata	Provides meaningful customized metadata to archived data for control and rapid discovery	✓	✓
Discovery			
Indexing and Data Discovery	Hitachi Content Archive Platform Search provides full text search on all data, metadata and custom metadata	✓	✓
Optional Feature			
Object-based Replication	Enables folder-level replication of objects for offsite disaster recovery	✓	✓

Array of Independent Nodes (SAIN) architectures, which provide node and path failover without single points of failure and offer multiple data protection schemes to meet a host of customer specifications

- Enables disaster recovery planning through object-based bi-directional replication for files, metadata and archive policies
- Transparently, via optional encryption at rest, encrypts all content, metadata and search indexes to further protect sensitive content

Optimize Performance and Scalability

- Enables policy-based data migration through tiered storage solutions; reduces burden on higher tiers, backup windows and related costs
- Allows file systems to scale organically; additional storage is immediately available
- Simplifies archive management and administration through self-management features; allows storage nodes to be added/removed online, without disruption/downtime
- Provides efficient storage scalability/usage via duplicate file elimination/compression

- Optimizes performance by distributing data evenly for I/O workload balancing
- Offers enterprise scalability to 40PB

Discover

- Search is an available option on both the Hitachi Content Archive Platform 300 and 500 models
 - Full text index, search and retrieval across content in the archive
 - Metadata and custom metadata

- Reduces content retrieval time for e-discovery and audits
- Eliminates the costs associated with tape and offsite discovery
- Integration with Hitachi Data Discovery Suite enables automated discovery and policy migration between the Hitachi High-performance NAS, powered by BlueArc®, and Hitachi Content Archive Platform

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