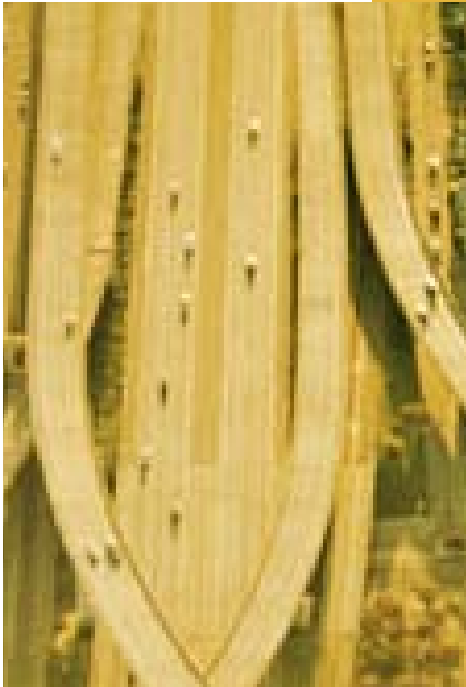
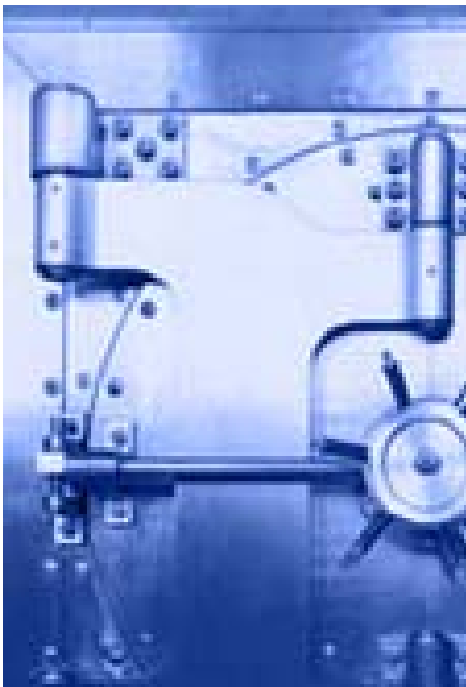




Analyze data lifecycle needs.



Optimize copies and placement.

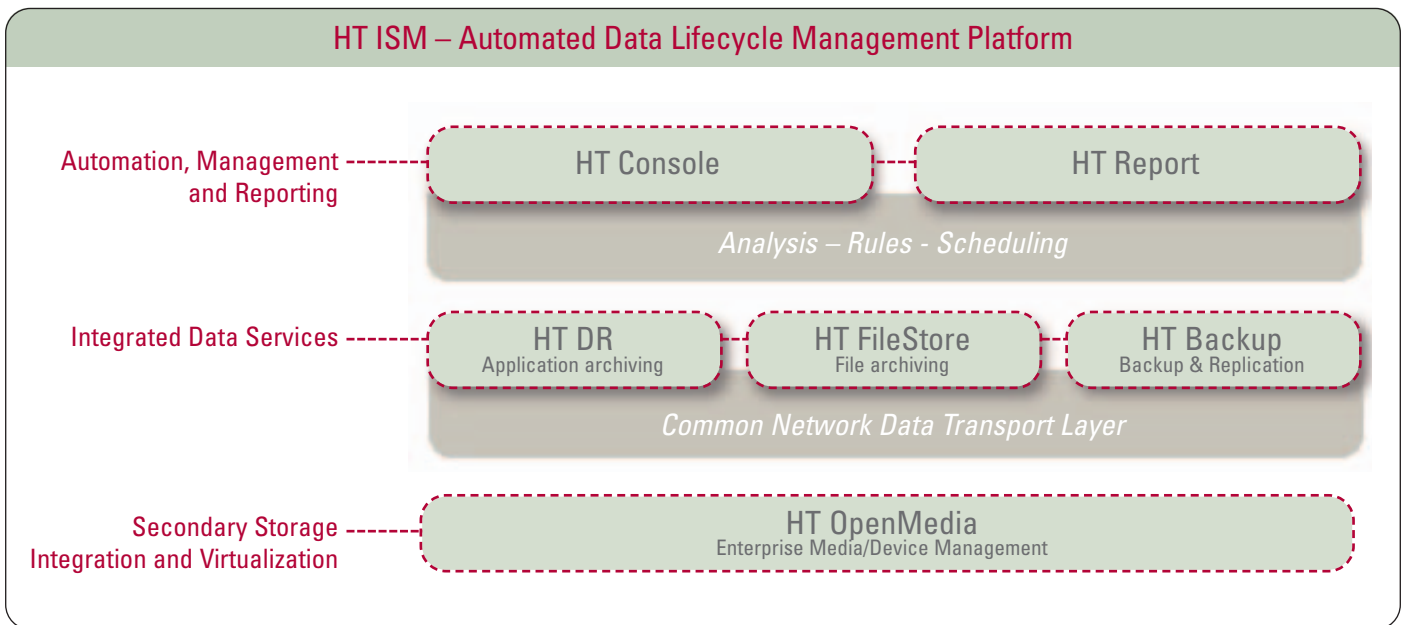


Secure and comply.

BridgeHead's HT ISM Integrated Storage Management

Singularly focused on delivering unmatched storage management solutions.

BridgeHead Software's HT ISM platform is a complete Integrated Storage Management system that helps mid- to large-sized IT organizations meet their goals for business continuance, data protection, disaster recovery, compliancy, data lifecycle management, and secondary storage consolidation. Our company has been a unique innovator of multi-platform storage management software for over 12 years. HT ISM integrates our automated backup, replication, archiving, file migration, and media and robotics management functions into a single, scalable platform, allowing a central administrative group to use a single management system for all aspects of creating and managing secondary copies of data.



We deliver and support our HT ISM family of software solutions via systems integration and reseller partners throughout North America and Europe. Our technology is specifically designed to enable and optimize the use of all prevalent storage technologies including disk, tape and optical to fit the needs of our IT users. We also work closely with many of the leading storage vendors to ensure truly superior integrated solutions. End-user customers can buy individual pieces of our solution for particular storage management problems. They can then easily add modules in phases to reach the full platform and benefit from the total solution approach.

ANALYZE

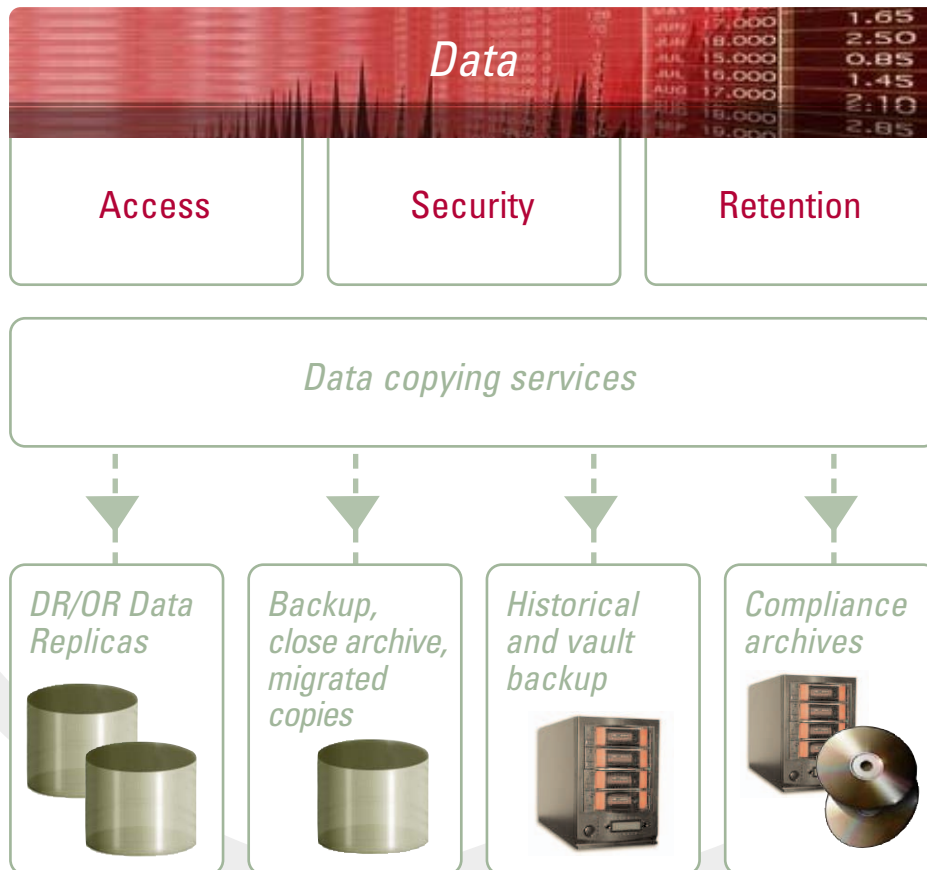
OPTIMIZE

SECURE

Integrated multiple data services for different business needs.

The BridgeHead HT ISM platform provides a unique value. It is the result of our vision over 10 years ago to integrate different storage management functions into a single model. Our philosophy is that storage management is about making and managing multiple copies of data on secondary storage. Creating one type of copy—such as backup—is simply not sufficient. That's why HT ISM offers a full range of "Data Services" including backup, replication, and archiving and allows them to be managed together to satisfy all different business needs including:

- Business continuance and disaster recovery
- Long-term retention and compliance
- Data protection
- Data lifecycle management



ANALYZE

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An unmatched enterprise storage management infrastructure layer.

Business drivers such as disaster recovery and compliancy demand that data be copied from primary storage to alternative copies—in different formats, on different media, and in different locations. HT ISM was designed from the bottom up to make this technically complex need simple and efficient. It gives administrative staff a single, advanced management console and automated policy engine to centrally control and monitor data services. It also includes a unique and unparalleled layer of storage management infrastructure software with the following components:

- A common data transport layer capable of driving data to **multiple** secondary storage media at **any** network location
- A true enterprise media-management system for rules-based, dynamic allocation of media and enterprise-wide media lifecycle management
- State-of-the-art support of robotics-based automation and operations

Complete automated data lifecycle management.

In addition to integrating data services, HT ISM includes unique data analysis, reporting, rules automation, and media management features. With these tools, users are able to precisely match data as its storage needs change throughout its lifecycle to the optimal backup, replication, and archiving strategies.

HT ISM's data lifecycle management extends to all data sources. **HT FileStore** provides policy-based management, archiving, and migration of files throughout the networked environment. **HT Data Repository** extends multi-copy/multi-media long-term archiving from files to data in structured environments such as email and relational databases via integration with BridgeHead partner products. **HT Backup** allows users to easily structure a tiered media system for maintaining multiple generations of data replicas and backups. Finally, **HT OpenMedia** provides a common media and device management layer to bring secondary copies of data from throughout the enterprise into a single media management environment.

Fully prepared to meet major business needs.

By and large, the overriding business need behind storage management is ensuring data is optimally available at all times—even in the event of failure, disaster, corruption, or the passage of significant time; all the while maximizing utilization of cost effective storage technologies. IT organizations have distinct storage management processes for each of these scenarios. But only HT ISM provides specific functionality and a single strategic approach for all them.



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BUSINESS CONTINUANCE AND DISASTER RECOVERY

In today's constant and fast-paced business environment, applications are expected to survive or quickly resume operation with rapid access to data—even during disaster, significant equipment failure, or primary data loss. HT ISM addresses this need with several approaches. First, automated, frequent point-in-time replication of data images can be used to move data to secondary storage, ensuring recent copies can be brought on line immediately.

Second, HT Backup creates and manages multiple generations of point-in-time volume images and file backups across many generations for selective data recovery.

Finally, multi-copy archiving with HT FileStore and HT Data Repository provides a cost-effective approach for making static data immediately available from alternative storage.

DATA PROTECTION

Data is a corporate asset. Precisely why IT organizations must ensure that even over time, data is never lost or mishandled. HT Backup runs routinely to protect data—saving copies on inexpensive, removable media that are often moved to a remote vault for safe keeping. Its file journaling component also provides a means of tracking different generations and versions, so that as data changes over time, versions can be automatically identified and quickly retrieved.

LONG-TERM DATA RETENTION

Together, HT FileStore and HT Data Repository manage the vital long-term storage and access of files and application data. Unlike backup, archiving software is optimized for granular data access and is designed to create multiple copies of data archives on combinations of different media to allow for data storage that extends beyond the lifecycle of the media and devices currently in use. HT OpenMedia is critical to long-term data and media lifecycle management, ensuring that the media the data resides on cannot be stolen or inappropriately accessed. It tracks all removable media volumes and uses sophisticated policies to enforce correct movement and accessibility throughout the organization.

COMPLIANCE

More and more, laws and regulations force organizations to maintain long-term copies of data. Archive copies must be safely and securely stored for extended periods of time on compliant media—like WORM or CAS—with strict controls including full audit trails and legal proof that the archive could not have been modified. HT ISM's Compliant Archiving can help your business by:

- *Enabling rules-based copying of data to compliant media*
- *Managing the retention cycles for data*
- *Performing a range of critical media management functions to control movement of removable media*
- *Managing media maintenance schedules and overseeing periodic media migrations when applicable*



ANALYZE

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It all adds up to cost effective data lifecycle management:

- The cost of raw storage is a fraction of the total cost of ownership. While raw storage costs have decreased, the cost of managing any storage medium to ensure data availability, security, and retention is significant.
- Different media types are optimal for storing different categories of data. The entire HT ISM services suite lets you integrate different types of media into a single, commonly managed system.
- The majority of data does not need to be stored online. Up to 80% of most online data has not been accessed in the last 90 days, and at least 60% of it will not be required in the future. BridgeHead Software can provide a major cost savings through automated file analysis, archiving, and migration of unaccessed data to secondary storage.
- Access, security, and retention requirements for any given data set change over time. HT FileStore reduces costs by automatically and regularly re-evaluating where copies of data should reside and migrating them to more efficient locations.
- Media management is the key to ensuring that “cheap” media, such as tape, is actually affordable. HT OpenMedia media management ensures that removable media capacity is fully utilized, and that media handling using robotic devices is as automated and reliable as possible.
- The consolidated secondary storage infrastructure provided by HT OpenMedia allows organizations to invest in secondary storage device and media technologies on their cost/performance attributes, with the expectation that the cost can be defrayed across the needs of all applications.

Turn to BridgeHead Software for all your storage needs.

The exploding cost of storing and managing massive amounts of complex data is a serious problem that needs a smart solution. The declining cost of raw disk will simply not ease budget strain because it is offset by the demand for proportionally greater capacity and management. Furthermore, it will not address your critical need to make and manage different types of strategic data copies on different types of media.

BridgeHead's HT ISM is the full-service solution for minimizing data overload and getting your storage budget under control. Across the enterprise, it gives your business a full range of services for creating and optimizing data copies on cost-effective combinations of media types. It consolidates the management of different media into a single system. And, most critically, it works throughout the data lifecycle-selecting and moving data from expensive media to more cost-effective locations while maintaining the access to the data you and your users demand.

To learn more on how BridgeHead Software can help your company, visit our website, www.bridgeheadsoftware.com or contact a sales representative at one of our office locations.

UNITED KINGDOM

BridgeHead Software Ltd.
Bailey House
215 Barnett Wood Lane
Ashtead, Surrey KT21 2DF
United Kingdom
Tel: 44 (0) 1372 221950
Fax: 44 (0) 1372 221977
Email: Sales.UK@BridgeHeadSoftware.com

NORTH AMERICA

BridgeHead Software, Inc.
400 West Cummings Park
Suite 6050
Woburn, MA 01801
Tel: 781 939 0780
Fax: 781 939 5607
Email: Sales.US@BridgeHeadSoftware.com

GERMANY

BridgeHead Software
Spanierstrasse 69
D-76879
Essingen
Germany
Tel: 49 (0) 700 9729 0000
Email: Sales.DE@BridgeHeadSoftware.com

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