



The power to do more



Solution Brief

A comprehensive Medical Archive for Healthcare

The Dell and BridgeHead Medical Archive can offer:

- Seamless integration into your healthcare data environment
- PACS (DICOM), patient records and unstructured content management
- Self-replicating and self-healing storage infrastructure
- Scales to billions of objects
- Cost effective, low TCO, high ROI

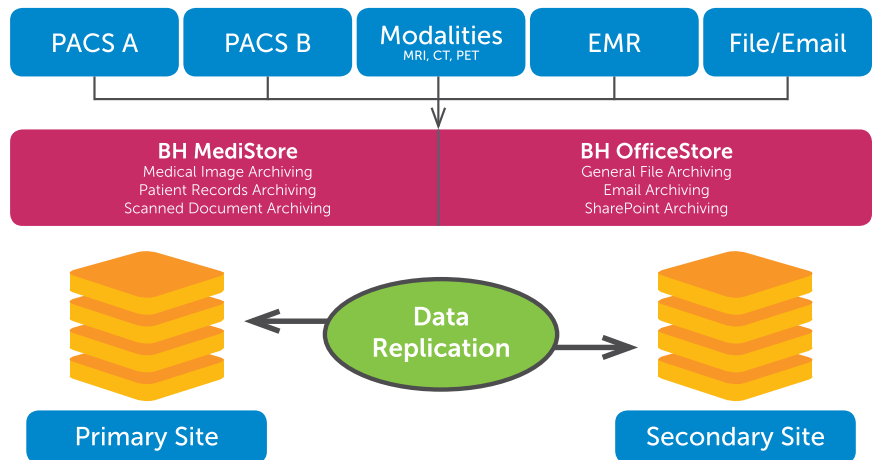
With Medical Archiving, you're in control at a time when your strategy for data growth is a crucial factor in your facility's success.

Benefits of Medical Archiving

- No need for data migrations. Skip the 3-to-5-year cycles of migrations. Skip the cost and the hassle.
- A common storage platform enables you to maintain one centralised archive of medical images for multiple departments. This streamlines accessing images.
- Not locked in to one PACS vendor. Going forward, data is simple to access no matter whom you partner with.

To cut the complexity and cost of Medical Archiving to drive better patient care, Dell and BridgeHead Software have joined forces to create a comprehensive Medical Archive for healthcare. In combination with Dell's DX Object Storage Platform, BridgeHead's BH MediStore® and BH OfficeStore® solutions can provide comprehensive protection for your healthcare organisation's critical clinical and administrative data. BridgeHead can provide the effective capture, management and control of data while the DX Object Storage Platform is designed to provide scalable, secure and cost effective storage for billions of unstructured items.

Dell and BridgeHead offer a comprehensive Medical Archive for clinical and administrative data



Why do you need an Enterprise Archive for healthcare?

Clinical systems are the lifeblood of healthcare IT. Traditionally, the Hospital Information System (HIS) has been the application at the centre of this environment. Although a database driven system, managing data from the HIS remains fairly straight forward — slowly growing to a few hundred gigabytes over years of use, perhaps reaching the terabyte range at large multi-facility organisations. However, as the push for paperless environments and the drive towards Electronic Healthcare Records (EHRs) accelerates, there is a movement to capture all of your patient data that sits outside the HIS. As your hospital scans and digitises this information — attaching it directly to the HIS or EHR, or making it accessible via a Document Management and Imaging (DMI) or Enterprise Content Management (ECM) solution — you are generating terabytes of new data every year. That data is surpassed by your medical images created by PACS. Radiology PACS are commonplace today generating terabytes of

data each year. As other disciplines (e.g. Cardiology, Pathology) adopt digital imaging technology, terabytes can quickly close in on a petabyte or more increasing your need for a complete medical archiving solution. In combination, these areas account for the vast majority of data and storage utilised in healthcare organisations today.

What's unique about all of this data is that it is unchanging. While the associated meta-data may be altered, a chest x-ray or a scanned copy of a patient's driving licence does not change once committed to disk storage. Furthermore, the frequency of access to this data decreases dramatically 90 days after its creation. After 12 to 14 months, there is a less than 2%¹ chance this data will ever be accessed again.

It is estimated that by moving to a paperless environment, a typical healthcare organisation will require approximately 60 gigabytes per bed per year². That equates to 6 terabytes of storage for a modest 100-bed community hospital – a number that does not include the data resulting from the retroactive scanning of warehoused documents. In summary, it is easy to see the data management challenges these systems present to your healthcare IT.

Dell and BridgeHead offer an archiving solution specifically for healthcare organisations, offering:

- Reduced data and storage management costs
- Greater control, flexibility and availability of data across the infrastructure
- Increased data security and protection in the event of system outage or disaster
- Efficient management of growing data volumes by archiving static data from primary to secondary storage
- Automated data optimisation and advanced data services e.g. encryption, authentication, de-duplication, retention management
- Adherence to healthcare standards such as DICOM, HL7, XDSi interfaces etc.

Medical Archive

BH MediStore can enable your healthcare organisation to manage and control clinical documents, records and images in a searchable, centralised repository integrated to the Dell DX Object Storage Platform.

- DICOM Storage Class Server
- HL7 interface
- Integration with file system content
- Content and meta-data index
- Full search
- Web portal access

Office Archive

BH OfficeStore equips your healthcare IT with the tools to manage email, documents, presentations, and other non-clinical content vital to running the business of healthcare.

- Microsoft® Exchange Storage Management, Compliance Journaling and PST Migration
- File System Archiving from Windows® and Linux File Systems
- Direct integration with Microsoft® SharePoint® Server
- Content index and search
- Web portal access

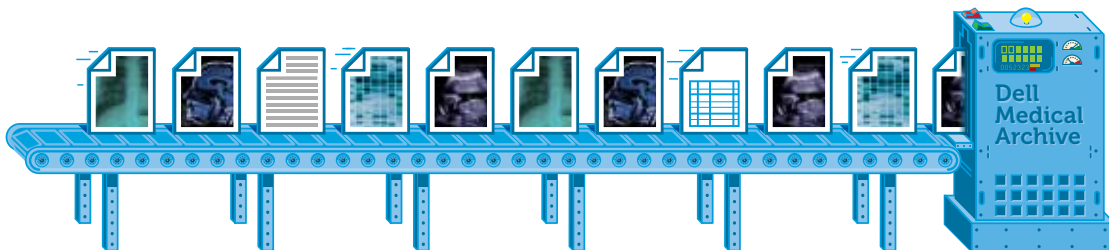
DX Object Storage integration

The Dell DX Object Storage Platform is designed to help you intelligently access, store, protect and distribute all of your fixed digital content.

- Automated and secure policy-based retention, replication, distribution & deletion
- Built-in replication and self-healing functionality to minimise IT staff demands
- Standards-based x86 hardware and integrated software in an end-to-end solution
- Easily integrated into your existing storage infrastructure

Services to help find the right solution

Leverage the Dell Healthcare Consulting Services industry experts to design and implement a Medical Image and Data Archiving solution tailored to your organisation.



¹Based on testing conducted by BridgeHead Software using their FileScan free utility.

²Based on research conducted by BridgeHead Software in 2009 during conferences, exhibitions and seminars in the US, Canada and UK.

Learn more about Dell's Medical Archiving solution:
Call **0870 191 3355** or visit dell.co.uk/medicalarchive

Take a tour of our Virtual Hospital dell.co.uk/virtualhospital

