



Remote Tape Backup Modernizes Healthcare Data Protection with ATTO XstreamCORE®

Learn how a European public healthcare provider enhanced data protection and disaster recovery with the ATTO XstreamCORE® 8200T. This solution enabled remote tape backup, overcoming limitations of their previous infrastructure and ensuring compliance with industry regulations. As a result, they achieved improved data security, optimized disaster recovery readiness, and cost-effective expansion.

ATTO XstreamCORE® Ethernet Intelligent Bridges

The Challenge

A major European public healthcare provider faced significant data protection challenges. Their existing tape-based backup infrastructure, relying on direct-attached SAS storage in a D2D2T¹ architecture, lacked the offsite capabilities necessary for robust disaster recovery. With the tape library confined to their primary data center, they were highly **vulnerable to data loss** from local disasters or **system failures**, and struggled to meet stringent healthcare **data retention compliance** requirements. They needed a secure, remote tape backup solution to address these critical vulnerabilities.

The Solution

To address these challenges, the healthcare provider deployed the ATTO XstreamCORE® 8200T, which acts as a bridge between the provider's local storage and a secure, offsite tape library. This enables the seamless and secure backup of critical patient data to a geographically separate location, ensuring high availability and access control.

¹ A D2D2T architecture is a backup strategy that uses disk drives for primary and secondary storage, and tape drives for backup.

KEY CHALLENGES

- × Growing volumes of patient records, medical imaging, and administrative data.
- × Geographic disaster risks, including earthquakes and tsunamis.
- × The need for smooth integration with existing backup software and patient administration systems.
- × Ensuring multi-system access to centralized tape libraries for efficient data archiving.
- × Limited connectivity options, relying solely on SAS and Ethernet networking for backup operations.
- × Maintaining compliance with healthcare regulations for long-term data retention and security.

XstreamCORE empowered the provider to:

- **Extend storage reach:**
Securely and efficiently back up critical patient data to a remote tape library, ensuring high availability and geographically distributed access control.
- **Centralize backup management:**
Simplify IT operations by managing backups from multiple authorized data sources across the network, improving visibility, efficiency, and error reduction.
- **Ensure high-speed, secure transfers:**
Leverage built-in latency management and data acceleration technologies to enable fast, reliable, and secure data transfers over iSCSI Ethernet, minimizing bottlenecks and maintaining data integrity.
- **Optimize disaster recovery readiness:**
Enhance offsite data protection, enabling rapid recovery from disasters, outages, or cyberattacks, minimizing downtime and data loss.
- **Enhance data security and compliance:**
Securely store patient records on tape media, protecting them from threats like ransomware and ensuring adherence to strict data retention policies (GDPR and NHS UK).

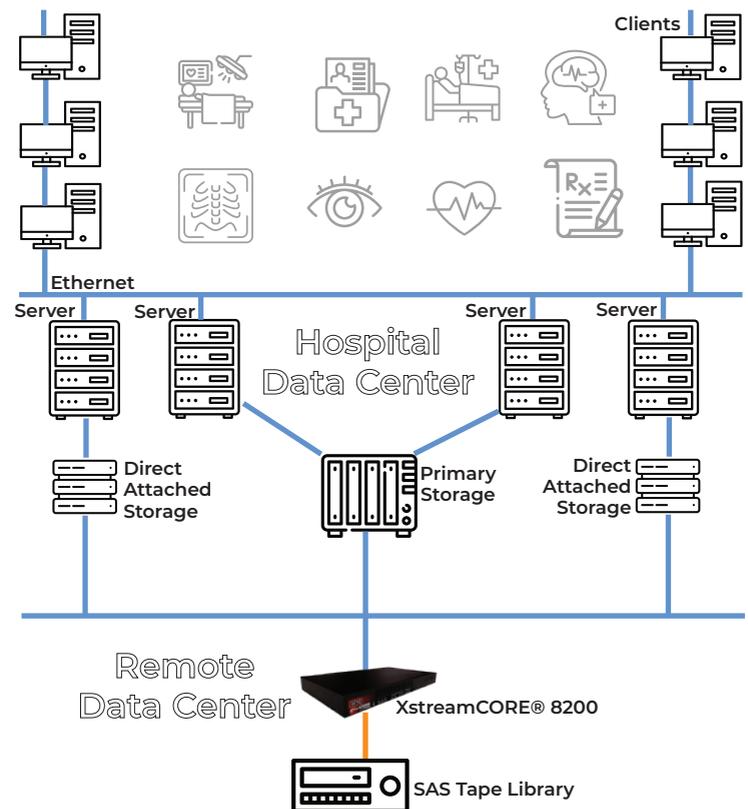
”...XstreamCORE has been invaluable in securing our patient data. It gives us the confidence that our information is safe, recoverable, and efficiently managed, even in the face of unforeseen events. ”

IT Director, European-based healthcare organization

Outcomes

- **Reliable remote backups**, mitigating the risk of local natural disasters
- **Cost-effective expansion**, extending the lifespan of existing DAS storage and tape infrastructure
- **Stronger data protection**, ensuring secure, long-term retention of patient records
- **Improved efficiency**, allowing IT teams to centralize and automate backup processes across multiple systems.

Hospital Backup & Archive Workflow Topology



For more on ATTO XstreamCORE:

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