



## Solution Brief

# Securely Back Up and Archive Medical Images and Data in the Cloud

Boost recovery, cut costs and risks with NetApp AltaVault

### Key Features

#### **Shrink Recovery Time and Data Loss for Large Volumes of Medical Data**

Reduce time, cost, and risk by up to 90% compared to that of on-premises backup and archive methods.

#### **Manage Data Growth Without Large Capital Expenditures**

Leverage the flexibility and economics of cloud computing to deliver enterprise-class data availability while speeding data transport up to four times.

#### **Guard Patient Privacy and Maintain Regulatory Compliance**

Securely transmit and store medical data with FIPS 140-2-compliant end-to-end encryption.

### Rising Cost of Protecting Medical Data

Providers and payers are turning to cost-effective cloud solutions for backup and archiving to help reduce the complexity of managing growing medical files. With the ability to easily scale storage capacity to accommodate increasing data requirements, healthcare organizations can make sure that they maintain compliance with HIPAA and HITECH retention mandates:

- Shorten backup windows as data footprint increases.
- Eliminate tape to reduce risk of downtime and lost data.
- Manage data growth within existing budgets.

### Make the Best Decisions for You and Your Patients, Every Time

Technology is reshaping how healthcare works. NetApp's vision for the future of data management is to create a Data Fabric that spans your entire IT landscape. The Data Fabric enabled by NetApp takes the worry and complexity out of managing and maintaining control of clinical data across private and public cloud resources. Doing so allows healthcare organizations to adhere to internal data security policies, maintain compliance with HIPAA and HITECH requirements, and promote greater innovation and IT responsiveness. With a Data Fabric, you get:

- **The choice** to select the mix of private and public cloud services that will result in providing patients with the most secure and cost-effective services
- **Data mobility** so that your data flows seamlessly to wherever your clinicians need it most—across flash, disk, and private and public clouds
- **Speed** that allows you to innovate faster with fewer resources to improve patient outcomes

### Send Backup and Archive Data to the Cloud with NetApp AltaVault

NetApp® AltaVault™ cloud-integrated storage enables customers to securely back up data to any cloud at up to 90% less cost compared to that of on-premises solutions. This feature allows healthcare organizations to include the public and private cloud as part of backup and recovery strategies for cost-effective data protection. Healthcare organizations achieve faster recovery, reduced data loss, ironclad security, and minimal management overhead.

With AltaVault, data is compressed, deduplicated, encrypted, and streamed to the cloud gateway appliance. Recent backups are intelligently cached on local systems for rapid restores while older versions are vaulted to the cloud. "Our NetApp AltaVault and OpenStack-supported backup service makes it easy for customers to check off all those boxes for regulations compliance, such as encryption and off-site copies," said Frank Tollefson, assistant director of Network Services, INHS/Engage.

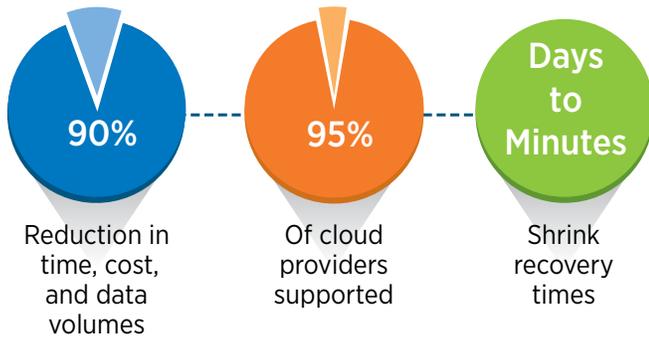


Figure 1) AltaVault offers unparalleled efficiency and ironclad security on an open platform.

The solution makes it possible to establish off-site backup and retention of data for compliance purposes:

- Data is encrypted and secure at all times, in flight and at rest, using AES 256-bit encryption. Data is also compliant with FIPS 140-2 level 1 (certification in progress) and industry-standard SSL or TLS encryption.
- Encryption keys are managed locally by your security department.
- Solution provides role-based access controls and integration with TACACS and RADIUS.

AltaVault can help healthcare organizations:

- **Modernize backup environments.** Vaults older tape and disk solutions to the cloud, enabling rapid restores with off-site protection.
- **Integrate the cloud into backup strategies.** Integrates with all leading backup solutions and all major public and private cloud providers for a long-term cloud tier.
- **Store large volumes of cold storage.** Cost-effective solution retains large volumes of data that is infrequently accessed.
- **Maintain cost-effective archive storage.** Reduces cost of storage with deduplication and network-efficient replication to meet compliance requirements for data retention.

### Efficient

Ready access to patient files is critical to delivering quality care. AltaVault accelerates cloud on-ramping using inline deduplication and compression capabilities that result in up to a 30-to-1 data reduction ratio. This benefit makes it possible for healthcare organizations to store less data in the cloud as well as store and retrieve critical data faster. And with AltaVault's effective capacity of up to 57PB per appliance, healthcare organizations can easily handle data growth across their organization.

### Secure

Preserving patient privacy and meeting HIPAA requirements for data encryption are top priorities for healthcare organizations. AltaVault helps reduce security and compliance risks in the cloud, offering complete end-to-end security for data at rest and in flight. Using FIPS 140-2 level 1-compliant AES 256-bit encryption, healthcare organizations can make sure that data is accessible only by authorized users. Healthcare IT security departments manage the encryption keys locally using role-based access controls to enforce separation of duties.

### Open

Budget and productivity concerns are addressed by preserving current technology investments. AltaVault seamlessly integrates with 95% of cloud storage providers and 85% of the leading backup and archiving software solutions, including those from BridgeHead, Commvault, IBM, and Veritas. And if you choose to replace your existing cloud provider, AltaVault makes it easy to move your data.

### Summary

Cloud storage computing offers significant cost and efficiency benefits to healthcare organizations. The NetApp AltaVault solution delivers a cost-effective solution for managing the data backup and archiving capabilities of growing medical data:

- Reduce the cost of storage with deduplication and network-efficient replication.
- Achieve end-to-end data security and compliance.
- Dramatically improve ROI compared to that of tape.

Customers depend on NetApp to safeguard data in the cloud, which is proven by the AltaVault installations that protect over 150PB of customer data. Contact your NetApp account manager or partner to see how AltaVault can improve backup and archiving capabilities within your operations and maximize the long-term value of your IT investment.

### About NetApp

Leading organizations worldwide count on NetApp for software, systems and services to manage and store their data. Customers value our teamwork, expertise and passion for helping them succeed now and into the future.

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