PURESTORAGE®
Uncomplicate Data Storage, Forever

chu saint étienne

About Customer

CHU Saint-Etienne is one of four university hospitals in the Auvergne-Rhône-Alpes region in southeast France. It has 1,900 beds and places, and 8,300 employees including 800 medical practitioners.
www.chu-st-etienne.fr

Geo

EMEA

Industry

Public sector/Healthcare

Solution Area

Accelerate Core Applications
Modernize Data Protection

Products in Use

FlashArray//X™
FlashArray//C™
Pure1®
Pure Evergreen™ architecture

Chu Saint-Etienne Modernizes Its Storage Infrastructure With Pure Storage

The University Hospital Centre (CHU) of Saint-Etienne is a public institution that specializes in healthcare, research, and teaching. It provides a variety of patient care to people in the region, ranging from pediatrics and maternity care to heart surgery and radiation treatment.

Faced with growing demands and limited space, Samuel Pelissier, IT infrastructure and operation manager at CHU Saint-Etienne, and his IT team needed to modernize the IT infrastructure that supports all systems at the hospital. Pure Storage provides the availability, security, and performance that the hospital needed with easy maintenance for the small IT team.

> "Pure Storage delivers higher performance, tighter security, and greater efficiency that helps us give better care for patients across the region."

SAMUEL PELISSIER,
IT INFRASTRUCTURE AND OPERATION MANAGER

Impacts for CHU Saint-Étienne

Improved patient services with strengthened business continuity

Accelerated access to patient data to deliver more positive patient care

Gained peace of mind with stronger protections against cyber threats

Challenges

Improve performance for critical medical applications

Decrease energy usage for the data center

Make better use of limited hospital space for IT infrastructure

Results

Reduced latency from 17ms to less than a millisecond

Reduced power consumption while increasing storage capacity 50%

Consolidated storage from 70 units to 6 units with two FlashArrays

Modernizing Storage to Meet Current Hospital Needs

CHU Saint-Etienne previously supported hospital operations with a mix of disk storage. The aging technology took up a great deal of space, while breakdowns threatened availability.

The IT team worked with partner Axians to replace approximately 70 units of legacy hardware with six units and just two Pure Storage FlashArrays. “We were facing space constraints in one of our IT rooms, and we needed a solution with a small physical footprint,” says Samuel Pelissier. “Pure Storage FlashArray offers incredible density, which was a determining factor when choosing Pure.”

Increased capacity gives the IT team more flexibility to shift workloads and increase demand as needed. The smaller footprint also helps save energy—a critical concern for all European organizations. “We’ve seen a significant reduction in power consumption while increasing storage capacity by 50% compared to our legacy environment,” says Samuel Pelissier.

Pure1 reduces administrative time with an easy-to-use interface that simplifies storage management and allows new IT team members to get up to speed quickly. The Pure Evergreen architecture further simplifies management with seamless upgrades to existing controllers. “It’s wonderful that we can benefit from new features or interfaces added from one generation of FlashArray to the next with Pure Evergreen,” says Samuel Pelissier.

Data Protection at the Heart of Modernization

One of the main reasons that CHU Saint-Etienne chose Pure Storage was the SafeMode™ snapshots feature in FlashArray. The immutable snapshots allow for fast recovery of data that has been inadvertently deleted, making it easier to comply with data retention requirements. Snapshots, along with ActiveCluster™ active-active replication across the FlashArrays, help to minimize the impact of cyberattacks. Pure Storage thus reinforces CHU Saint-Etienne’s business continuity plan by helping to deliver greater availability.

Better Quality of Service for Patients

The new Pure Storage infrastructure dramatically improves application performance, reducing latency from around 17 milliseconds to under a millisecond in most use cases. Staff and clinicians can access data faster and provide a better quality of care to patients and other users of the hospital. “We are planning to further reduce these latencies, particularly for the databases that contain patient records, in order to improve our level of service,” says Samuel Pelissier.

“Pure Storage delivers performance and features that meet our data storage needs and help us, indirectly, better care for patients across the region,” says Samuel Pelissier.

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