Enhancing Reliability and Energy Efficiency in Healthcare Technology Case Study

Hospitals are also investing heavily in modernization. CH Mouscron (Centre Hospitalier de Mouscron) is no exception. This year, for example, the hospital is building a brand new data center. Jérémie Leleu, Technical Manager, took advantage of his long-standing relationship with Cebeo, the services of integrator SPIE, and Panduit colleagues to achieve a convincing result.

From left to right: technicians from Spie, Karel Verplaetsen (Panduit), Alexandre Devaux (CHM), Jérémie Leleu (CHM), Nicolas Pierre (Cebeo)

cebeo A Sonepar Company **SPIE**

PANDUIT™
infrastructure for a connected world

Organization
CH Mouscron (Centre
Hospitalier de Mouscron)

Industry
Healthcare

Country
Europe

Strategic Objectives
- Upgrade the network infrastructure to ensure reliability and efficiency.
- Create a future-proof data center that meets current and anticipated needs.
- Ensure minimal disruption to hospital operations during the transition.

Partners
- Cebeo
- SPIE

Solution
- NetContain® Universal Aisle Containment System
- FlexFusion™ Cabinets
- G5 Power Distribution Units
- Intelligent Rack Security Handle with Humidity Sensor and Keypad
- Wyr-Grid® Overhead Cable Tray
- FiberRunner™ Cable Tray Routing System
- QuickNet™ Copper and Fiber Pre-Terminated Solutions

Benefits
- Enhanced Reliability and Efficiency
- Future-Proof Infrastructure
- Minimal Disruption
- Energy Efficiency
- Optimal Cooling
- Standardization

Business Challenges

Modernizing the Data Center at CH Mouscron

CH Mouscron has 355 beds and guarantees a care offer that meets today's medical-social requirements. Of course, this also means a high-quality IT and datacom infrastructure.
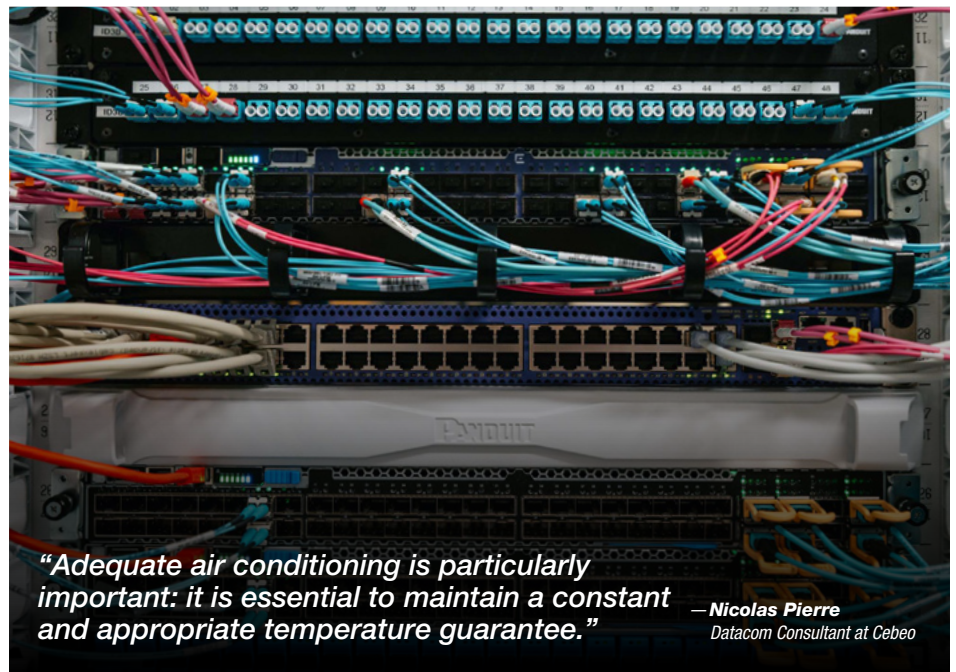
"When it comes to such investment, we rely on Cebeo's excellent relationship with its services over the years," explains technical manager Jérémie Leleu.

"As a result, we spend about 200,000 euros a year on upgrading our network infrastructure. Some time ago, we realized that we also needed to modernize our data center. Until recently, we had servers in a relatively small computer room.

In consultation with our IT department, led by Joffrey Plantefeve and system administrator Alexandre Devaux, we opted for a thorough transformation."

"Reliability and efficiency are crucial"

"Adequate air conditioning is particularly important: it is essential to maintain a constant and appropriate temperature guarantee."

— *Nicolas Pierre*
Datacom Consultant at Cebeo

Strategic Objectives

An In-Depth Study

Jérémie Leleu turned to Nicolas Pierre, Datacom Consultant at Cebeo.

"Based on this project, we put together a team including integrator Spie and Panduit," Nicolas explains. "Panduit is a world-renowned name in structured cabling and data centers. So we went together to Mouscron hospital to analyze the current situation and see how we could best support this healthcare institution in this process."

Panduit took care of the technical study.

"We quickly noticed that this partner offers quality services and guarantees a fast and efficient approach with reliable products," notes Jérémie.

As a manufacturer, Panduit leaves nothing to chance. Each product is literally subjected to thorough tests before being put on the market. This specific approach guarantees the reliability and longevity of each product.

Gradual Migration

One of the key requirements of this project is the correct dimensioning of the network cabins.

"We spend about 200,000 euros a year on improving our network infrastructure."

—Jérémie Leleu
Technical Manager at CH Mouscron

"In doing so, we have set the bar very high, as the infrastructure must not only meet current needs but also be futureproof. This entails a high degree of complexity anyway, especially as we want to avoid wastage. The migration of servers and other IT equipment from the old facility to the new data center is just as delicate. This is done in a very gradual and tightly organized way so that availability is never in danger," Alexandre Devaux explained.
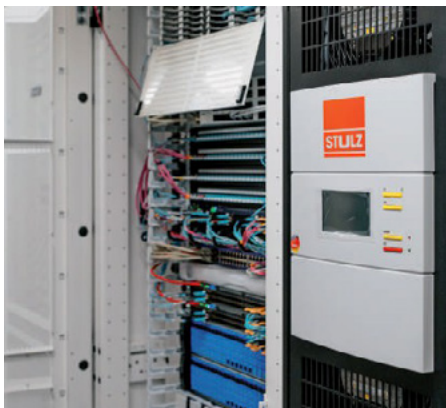
Jérémie Leleu agrees: "The computer space, which was originally quite modest, has grown considerably, but we had to make sure that there was never any inconvenience would arise. Moreover, the existing data computer equipment had to be able to continue working during the construction phase."

"We have also strived for uniform interpretation of and between all network cabins. This standardization saves a lot of time during installation and makes easier management afterwards," Jérémie continued.

"The migration of servers and other it equipment is done very gradually and strictly organized."

—*Alexandre Devaux*
Systems Administrator at CH Mouscron

Energy Management

Energy management is another aspect that comes to the fore in such projects.

"Twenty years ago, the market did not pay much attention to this," Nicolas Pierre explains. "Back then, sustainability was not really on the radar of many organizations, especially as energy prices were much lower. Today, the story is completely different, and rational energy management is a hot topic. Data centers also need to make the necessary efforts to properly manage energy consumption."

"Adequate air conditioning is particularly important in this regard. It is essential to ensure a constant and appropriate temperature. Efficient cooling plays an important role because it has a considerable impact on the service life of IT infrastructure. Without adequate air conditioning, IT equipment – each one a considerable investment – ages much faster. This is another reason why it is necessary to able to think long term."

"We look forward to keeping the system in the best conditions for a very long time to come to use."

—*Alexandre Devaux & Jérémie Leleu*
CH Mouscron

Benefits

New Data Center Paves the Way for the Future

The new data center is already operational, but the gradual migration of hardware is still ongoing.

"That process should be completed this summer. We are happy that the cooperation and communication between all parties involved have been optable and we look forward to keeping the new system in the best conditions for a very long time to come to use," Jérémie and Alexandre conclude.

With the new data center operational, the team at CH Mouscron are already experiencing the benefits of the modernized infrastructure including:

+ **Enhanced Reliability and Efficiency:** Upgraded network infrastructure ensures consistent and dependable performance.
+ **Future-Proof Infrastructure:** The new data center is designed to meet current and future needs, allowing for scalability.
+ **Minimal Disruption:** Gradual migration of servers and IT equipment ensured hospital operations continued smoothly.
+ **Energy Efficiency:** Improved energy management practices reduce consumption and operational costs.
+ **Optimal Cooling:** Adequate air conditioning maintains appropriate temperatures, extending the lifespan of IT equipment.
+ **Standardization:** Uniform interpretation and installation of network cabins streamline management and save time.

With gradual migration still ongoing, the entire project is expected to be completed by the Summer.