Why HAOC needed to modernize their infrastructure

Hospital Alemao Oswaldo Cruz (HAOC) is one of Brazil's largest hospital networks, but was hamstrung by an ageing, legacy network infrastructure that was unable to keep up with the demands of patients and medical staff. To improve the customer experience, HAOC needed to modernize their entire networking landscape.

How HAOC reimagined their network and improved productivity and patient care

The hospital network deployed a next-generation networking solution, alongside a new contact center system, and a virtualized server environment based on the latest server technology. This allowed for full redundancy, solid disaster recovery plans, energy and space savings, cost savings, and better visibility and control over the network.

What HAOC is able to achieve with a modernized network and data center

HAOC's thousands of staff, and hundreds of thousands of patients, benefited with a powerful, resilient network and fail-safe data storage that produce the very best customer experience. This made it possible to scale with ease and to adopt the most advanced cloud-based hospital management systems in the future.

‘From the moment a patient sets-up an appointment, technology plays a key role in the patient’s experience.’

Cesar Lisboa, IT Operations and Infrastructure, Hospital Alemao Oswaldo Cruz

The latest network and virtualization radically improves patient experience
Case study

‘The quality of our service is getting better and better. The rate of dropped calls decreased, the service rate has improved, and the average wait time has decreased.’

Cesar Lisboa, IT Operations and Infrastructure Supervisor, Hospital Alemao Oswaldo Cruz

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Hospital Alemao Oswaldo Cruz (HAOC) has 4,000 employees and 3,700 physicians across five offices and one major hospital center in São Paulo. Having experienced rapid growth - establishing new specialist centers and expanding its operations - HAOC’s technology landscape had grown in a largely unstructured manner.

Their network infrastructure was based on aging PBX and telephony equipment, which was unable to keep up with the high demands of patients and medical staff. It also prevented HAOC from embracing truly integrated and consolidated hospital information systems. In addition it provided very limited visibility into network performance and wasn’t able to capture rich data to inform better network design and decisions.

With average wait times of up to two minutes, and an unacceptable level of dropped calls, they weren’t able to give patients key information as quickly as they wanted. In order to provide fast and efficient responses, and serve patients with the information they require, they needed to modernize their entire networking landscape.

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HAOC deployed next-generation equipment to increase service availability, decrease telephony costs, and set the foundation for advanced services to be added in the future.

The new contact center system allowed their frontline staff to better manage, schedule, and route incoming calls. They were able to implement this new system within just 24 hours, as the teams came together to quickly learn how to operate the new system.

In total, the migration of the entire network - covering five sites and 1,500 endpoints - was completed in three days. Their aging legacy network was replaced with a highly-secure corporate wireless network, as well as a guest network for patients and other visitors.

They also modernized HAOC’s data center - migrating their outdated physical servers to an almost 100% virtualized environment based on the latest server technology.

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The hospital network saw an immediate impact. Average call waiting times fell from 2 minutes to just 30 seconds; and customers enjoyed improved service in all their interactions with the hospital group.

The new technology architecture made it possible to scale with ease, as shown during its network expansion program for a new branch: Referenciada Vergueiro. The teams designed a high-performance network for this site that seamlessly integrated into their core network and data center infrastructure. The modernized network meant that there was no need for Referenciada Vergueiro to have local data centers, servers, databases, or storage infrastructure.

The powerful, resilient network and fail-safe data storage using the latest virtualized architecture opened the way for new data-driven strategies and advanced hospital management systems. These nerve centers link up everything from admissions, to patient records, doctor engagements, theatre and specialist equipment usage, pharmaceuticals, billing, and medical aid interactions.