



**FOUNDRY**  
NETWORKS

## CASE STUDY: SINT LUCAS ANDREAS ZIEKENHUIS

### Dutch Hospital Modernizes Care and Training Using Foundry Networks



[WWW.SINTLUCASANDREASZIEKENHUIS.NL](http://WWW.SINTLUCASANDREASZIEKENHUIS.NL)

#### SUMMARY

The Sint Lucas Andreas Ziekenhuis, a 550-bed teaching hospital in Amsterdam-West, has much riding on its future. As a member of the association of tertiary medical teaching hospitals and one of 15 top clinical hospitals in the Netherlands, the Sint Lucas Andreas Ziekenhuis continually strives for innovation in medical training and scientific research. But recently these goals were impeded by an aging network that couldn't scale to meet the hospital's future plans and requirements for reliability and security.

As the existing network grew older, network administrators recognized that it was time to upgrade the infrastructure to support superior technologies that would move the hospital forward on its mission of excellence. Sint Lucas Andreas Ziekenhuis sought a faster, high performance networking partner that could deliver a reliable, scalable solution that wouldn't be complicated to manage. The hospital found that partner with Foundry Networks®.

#### OBJECTIVE

Sint Lucas Andreas Ziekenhuis had already outgrown the capabilities of its four-year-old network, and it was facing a limited future on that architecture. The hospital wanted to open up new horizons by replacing its outdated infrastructure with network equipment capable of supporting high-performing new technologies. Hospital executives knew that new technology would be key, not only for supporting innovative features that are important to modern healthcare, but for improving the reliability and availability of the system on a daily basis. "We wanted a network that could face the challenges coming our way in the coming years," explains Arnold Oudejans, Project Manager/Architect Technische Infrastructuur. "We spoke with another Foundry customer, the Amsterdam Internet Exchange, a service provider with complex network and performance requirements. We heard nothing but good things about Foundry's ability to support a network that requires unparalleled performance and reliability. That meant a lot to us and gave us the confidence that Foundry could meet our needs moving forward."

The hospital's list of requirements didn't end there though. It also included quality integration and support between the LAN and WAN, as well as ease of management and, last but not least, robust security.

#### SOLUTION

After evaluating the alternatives, Sint Lucas Andreas Ziekenhuis chose Foundry and, from there, work quickly got underway to make sweeping changes that would have a tremendous impact on the network. Project leaders decided on two BigIron® RX series switches and eight FastIron® LS switches in the core. Another 30 FastIron® LS switches were installed at the edge as well as 180 IronPoint® wireless access points.

The BigIron RX Series of Layer 2/Layer 3 Ethernet switches enabled the deployment of an Ethernet infrastructure that addresses the hospital's requirements with a scalable and future-ready architecture that will support network growth and evolution for years to come.

The FastIron LS series provides a scalable architecture in a compact form. Featuring redundant power and 10-Gigabit Ethernet upgradeability for high-capacity connectivity to the network backbone, the FastIron LS delivers the scalability, low latency, and resilience needed to meet the hospital's future growth.

#### INDUSTRY

Healthcare

#### COMPANY DESCRIPTION

The Sint Lucas Andreas Ziekenhuis is a 550-bed teaching hospital on the Jan Tooropstraat in Amsterdam-West, which prides itself on providing top quality, professional, patient-centered care. As a member of the association of tertiary medical teaching hospitals, and one of 15 Top clinical hospitals in the Netherlands, the Sint Lucas Andreas Ziekenhuis continually strives for innovation in medical training and scientific research.

#### OBJECTIVE

- Upgrade aging infrastructure for reliability and future scalability
- Modernize applications and utilize new technologies
- Add integrated, easy-to-use management tools
- The same management tool for LAN as well as for WLAN

#### SOLUTION

- BigIron RX series switches in the core
- FastIron LS series in the core and at the edge support upgrade potential to 10Gbps Ethernet
- IronPoint wireless access points at the perimeter for end-to-end wireless connectivity
- IronView Network Manager provides simple, integrated management for the LAN and WLAN

#### RESULTS

- Increased bandwidth for large data file transmission and streaming video
- Improved high-performance network supports a new electronic records-keeping system
- No system downtime since deployment
- Scalability for future growth
- Simple, integrated toolset for LAN and WLAN management

Finally, IronView® Network Manager (INM) was the key to fulfilling one last item on the checklist: ease of management. INM provides network administrators the tools they need to easily configure and manage this new network. With INM, network additions and new services does not mean increasing complexity in the IT workroom.

## RESULTS

Today Sint Lucas Andreas Ziekenhuis is experiencing improved network performance and the ability to support advanced applications. The hospital is delivering the high level of health care services its patients have come to expect, and the ground-breaking education for which it has become recognized.

As a teaching hospital, Sint Lucas Andreas Ziekenhuis requires the ability to record procedures taking place in the operating room and share them with the medical students in the hospital's education center. This ability to provide high quality on-demand video streaming to the students is one of the immediate major wins for the Foundry network. In addition to video streaming, the hospital no longer has to fear collapse of their system under the strain of continuous digital data growth, caused by medical imaging technologies such as ECGs, MRIs, and Multisliced CT scans. These, too, require unparalleled performance and availability now provided by the Foundry solution.

The hospital's network demands and requirements have increased in other ways as well, for example with the implementation of a new Hospital Information System with electronic patient files. The Foundry network was critical to this important transition as the network has remained stable, reliable and secure, with plenty of future potential yet to be unlocked.

"After evaluating the alternatives, we believed that Foundry offered the best WLAN solution and the best technology for the core while still providing the management simplicity our network administrators demanded," says Oudejans. "Today we can monitor and manage the LAN and WLAN with the same tool, all based upon Foundry's superior technology."

Incorporating the latest advances in switch architecture, system resilience, quality of service and switch security, all in a modular chassis, the BigIron RX series provides the price performance, scalability, and total cost of ownership (TCO) the hospital wanted.

"We have not experienced any downtime of the WLAN since deploying the new Foundry network," notes Oudejans. "The new Foundry network has fulfilled all of our technology requirements while also simplifying network management for administrators. Foundry has given us the best of both worlds and a strong foundation for the future."

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YEARS "**

– Arnold Oudejans,  
Project Manager/Architect  
Technische Infrastructuur,  
Sint Lucas Andreas Ziekenhuis

## FOUNDRY NETWORKS

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