

smartoptics  
Case study NNIT

# IT advisory firm NNIT achieves more robust, reliable networks

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— Jan Svarrer Sølvsten, Senior SAN Architect, NNIT.

## ROBUST, RELIABLE INFRASTRUCTURE

NNIT is one of Denmark’s leading consultancies in the areas of IT development, implementation and operations. The company serves a range of industries including life science, financial services, manufacturing and transportation along with public utilities and government organizations. NNIT has more than 2,400 employees in locations around the world including China and the US.

When companies need help reaching business goals through IT, they turn to NNIT. Making it critical for the consultancy to maintain the most reliable, robust networks possible. Many of NNIT’s clients are in highly regulated industries. To provide the most secure solutions, NNIT maintains a SAN infrastructure based on Brocade switches. Jan Svarrer Sølvsten, NNIT’s Senior SAN Architect, explains: “Our goal is to provide our customers with the most robust, reliable and scalable infrastructure available all the time.”

## MEETING INCREASED CUSTOMER DEMAND

As NNIT’s business grew, with more customers requesting more data storage,

the consultancy needed to ensure its fiber optic network could scale accordingly. And, given the sensitive nature of customer data, NNIT protects it by encrypting all data and providing fast disaster recovery. To make that possible, NNIT’s storage network is extended to secondary sites to allow efficient and reliable replication of data through synchronous-mirroring between the different switches.

Any new connections NNIT deployed had to be highly efficient, secure and resilient. Yet flexible and scalable with low latency to allow for synchronous-mirroring. NNIT was faced with two options: Add more fibers or “squeeze” more capacity from the existing ones. The company sought a simple design and installation solution that didn’t require adding fiber optic cables between sites—one that would offer the maximum channel count. A cost effective solution to meet the needs of NNIT’s growing network.

## GETTING THE MOST FROM FIBER

To avoid investing in additional fiber, NNIT made a decision: to increase capacity through a Wave Division Multiplexing (WDM) solution. This way



the company could optimize its existing network infrastructure.

NNIT turned to Smartoptics for the solution. Why? The two companies had a solid track record and, according to Sølvesten, “Smartoptics and their M-Series is the technology partner of choice for Brocade. To us the choice was obvious.”

The M-Series platform allowed NNIT to build a scalable infrastructure that meets even the greatest SAN requirements.

### M-SERIES: SIMPLE. EASY. LOWER COST.

With the new WDM-based solution from Smartoptics’ M-Series, NNIT improved their network performance and resolved capacity issues. Minimizing the cost of infrastructure and operating expenses using a single fiber pair. Notes Sølvesten: “The Smartoptics’ M-Series platform offered us the simplest installation solu-

tion. We deployed the product quickly and easily. It was literally plug and play – we plugged in and were up and running in minutes.”

Now NNIT’s network capacity has increased significantly: up to 8G on each of its 32 channels. Today NNIT uses eight of these 32 channels, leaving spare capacity for future growth. NNIT gained the high capacity it needed and a future proof solution for ever evolving data center needs. And the M-Series platform allows NNIT to meet the demand for encryption without adding increased latency.

Along with a host of other benefits, M-Series offers the ultimate green data center. Sølvesten concludes: “With the M-Series, NNIT has had no major demand for increased power. No noise or emissions. So the new network contributes to the company’s policy of maintaining green data centers.”



**Jan Svarrer Sølvesten**  
Senior SAN Architect, NNIT.

## ABOUT SMARTOPTICS

Smartoptics offers optical transmission solutions making networks more powerful. Expanding bandwidth without the upfront investment or hassle of traditional WDM. Our products allow corporate data centers, governments, hosting solution providers and ISPs to build simple, straightforward and cost effective solutions to fulfill their ongoing and future network capacity needs. Headquartered in Oslo, Norway, Smartoptics is an international provider with thousands of installations all around the world. Our award-winning approach has helped companies from every industry sector stay ahead of expanding network demands.

## smartoptics

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