MODERNISATION OF THE NETWORK ARCHITECTURE IN PRODUCTION AND RETAIL

PROJECT OVERVIEW

CUSTOMER:
A global player in the toy and consumer goods industry

SOLUTION:
DC Fabric and Campus Switching

VENDOR:
Juniper Networks (now HPE Juniper Networks)

PRODUCTS:
QFX and EX series switches

PROJECT SCOPE:
€1 million

SUMMARY:
A scalable spine-leaf architecture was introduced across the data centre and campus. Delivered through a controlled and coordinated migration, it now provides a resilient environment with a clear expansion strategy.

A global player in the toy and consumer goods industry faced the need for a fundamental network modernisation. Its existing infrastructure had evolved over time, resulting in a mix of hardware generations and design approaches that complicated operations. Scaling the network required increasing levels of complexity, and although redundancy existed, it was not implemented consistently. As digitalisation accelerated, the demands on network stability and performance grew significantly.

The goal was to create a future-proof network to tightly integrate production processes, logistics and administration. This initiative went beyond a hardware refresh and represented a strategic architectural shift.

Customer Goals and Expectations

The aim was to establish a clear and robust structure for the data centre and campus. The focus was on:

- Spine-leaf architecture in the data centre
- Unified design in campus switching
- Clean technical redundancy at all relevant levels
- Simplified operational processes
- Expandability without structural redesign

The migration had to be predictable and must not jeopardise production.

Technological Implementation for Maximum Performance

A consistent spine-leaf structure was implemented in the data centre. This reduces dependencies and enables linear scaling. East-west traffic is now handled efficiently and transparently.

In parallel, the campus network was completely modernised. More than 150 switches were replaced and integrated into the new design. All systems were pre-configured and tested in advance, significantly reducing project risk during the migration. The migration was carried out entirely by Xantaro during carefully coordinated maintenance windows. Production-critical areas received close support throughout the process, with predictability prioritised over speed.

Xantaro continues to support the customer's operations. The flexible service model ensures the internal IT team stays in control and can respond quickly as new requirements arise.

Result

Production, logistics and administration are now seamlessly and structurally interconnected. Redundancy is fully implemented, allowing issues to be isolated more quickly. Expansions can be carried out without fundamental design changes. The network now forms a stable platform for future growth.

OUR EXPERTS LOOK FORWARD TO LEARNING MORE ABOUT YOUR REQUIREMENTS!

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