

IP FABRIC FOR SCALABLE, HIGHLY AVAILABLE AND CROSS-DATA CENTRE DELIVERY OF INFRASTRUCTURE SERVICES

PROJECT OVERVIEW

CUSTOMER:

Operator of IT infrastructure (network incl. WLAN/NAC, server infrastructure, firewall/security and more)

SOLUTION:

- Datacentre Interconnect (DCI)
- Routing / Switching
- Network Management
- Automation

VENDOR:

Arista

PROJECT SCOPE:

€1 million

PRODUCTS:

- DCS-7280QR-C36
- DCS-7280SR-48C6
- DCS-7160-32CQ

SUMMARY

By building an EVPN/VxLAN-based Arista IP Fabric, Xantaro modernised the industrial campus network – enabling maximum availability, automation and efficient management.

Our customer is a specialised IT service provider that manages the entire IT infrastructure of a large industrial campus, home to numerous companies in highly regulated industries. Over time, their existing network began to struggle, reaching its limits in scalability, reliability, and the ability to roll out new services quickly.

A significant part of the data centre infrastructure is used for security critical applications such as video surveillance across the extensive campus. Due to the high security requirements and sensitive production environments, uninterrupted network connectivity and maximum availability are essential.

To meet these requirements, the existing architecture needed to be fully modernised and transformed into a scalable, automated and highly available IP Fabric.

Project Goals and Requirements

The objective was to build a future-proof, standardised and flexible network infrastructure that:

- Ensures high scalability and redundancy
- Operates loop-free and highly efficient
- Can be easily managed and automated
- Connects two datacenter locations transparently

From Planning to Implementation

Xantaro designed and implemented a modern IP Fabric architecture with EVPN/VxLAN, consisting of spine, leaf, distribution and DCI switches.

These components seamlessly connect two data centre sites, allowing transparent data communication across both locations. Every link and device was configured with full redundancy to guarantee maximum uptime.

With the introduction of CloudVision Portal (CVP), a central network management system was established that:

- Accelerates deployment
- Simplifies operations and troubleshooting
- Enables planned infrastructure changes in an automated and low-risk way

Routing and switching were fully optimised, allowing L2 and L3 VPNs to be planned and rolled out flexibly. The implementation was carried out by Xantaro in close coordination with the customer, from architectural design and configuration to commissioning and documentation.

The story continues on the next page >>>

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Achievements and Added Value

- Fast and simple provisioning of new network connections across the entire industrial park
- Standardised and uniform configuration for all devices and locations
- Improved transparency and monitoring (traffic, health status, utilisation)
- Higher availability at both link and device level
- More efficient operations through centralised automation with Arista CVP
- Reduced response times during incidents and simplified troubleshooting

After five to six years of reliable and efficient operation, the customer, extremely satisfied with the solution, is now refreshing their infrastructure with Xantaro to ensure it continues to meet future demands.

A large part of the data centre infrastructure is used for campus-wide video surveillance, serving numerous companies from the chemical and pharmaceutical industries. A high-performance and secure network infrastructure is therefore of critical importance.

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