

At LODENFREY, making good decisions is a long-standing tradition



A prestigious fashion house adopts secure digitalization, “Engineered in Germany”

Family-owned since 1842 and now in its sixth generation, Lodenfrey stands for continuous transformation and sustainable success. The task now was to make the IT infrastructure, including the increasingly important online shop, future-proof. The goal was to increase efficiency, stability, and security, with a particular focus on optimal Wi-Fi coverage in the sales areas and warehouses to support fast and reliable operations.

Initial situation and challenges

Lodenfrey's IT infrastructure was a complex, highly heterogeneous system that had evolved over many years. Various hardware components such as switches, routers and access points from different manufacturers created a confusing and difficult-to-manage IT landscape. In addition, a central administration option was missing, which made maintenance and troubleshooting considerably more difficult. With the constantly growing demands on IT network performance, the aim was to create a homogeneous solution that would not only reduce IT complexity but also sustainably enhance the network's performance and availability.

Objective and decision for LANCOM

Lodenfrey opted for a comprehensive unification of its network infrastructure, relying on technology from LANCOM Systems. The easy central management of all network components via the LANCOM Management Cloud (LMC) and the detailed system documentation were decisive factors. The goal was to create an IT environment that is maintenance-friendly and well-documented, to prevent media disruptions, and to simplify IT administrators' daily tasks.

Optimization of Wi-Fi coverage through automation with LANCOM Active Radio Control™ 2.0

LANCOM technology was implemented in close collaboration with the system house partner Schmidt & Fuchs Computertechnik. Optimal WLAN coverage was essential, especially in the fashion house's sales rooms and warehouses. LANCOM Active Radio Control™ 2.0 was used here – a self-learning automation solution that automatically optimizes the WLAN channels based on real usage data. This technology helps to prevent interference and ensures optimal Wi-Fi coverage across multiple floors, even in structurally challenging areas like storage and sales floors.

The system analyzes the Wi-Fi environment, distinguishes between its own and external Wi-Fi devices, and calculates the optimal channel distribution to minimize interference. This significantly reduces the effort for IT administration and contributes to network stability.



Conclusion and outlook

The project began at the end of 2023 in multiple phases and aims to eventually replace the remaining unmanaged switches to further enhance the homogeneity of the IT infrastructure. This approach not only speeds up troubleshooting but also enhances security – for example, by detecting error sources like network loops or unauthorized port usage early on.

Another significant step toward the future is the planned transition to a three-tier architecture through the integration of core switches. This aims to further enhance network availability and provide a solid foundation for Lodenfrey's rapidly growing online business.

By choosing LANCOM Systems and working closely with Schmidt & Fuchs, Lodenfrey has laid the foundation for a sustainable IT infrastructure. The advantages are obvious: higher efficiency of IT processes, improved network performance and centralized, simple management that is perfectly suited to the requirements of the dynamic fashion business and the increasing online trade.

The client

The implementation was commissioned by the company Lodenfrey. Lodenfrey, a renowned Munich fashion house, has been synonymous with exclusive fashion and high-quality traditional attire since 1842. In addition to high-quality clothing from renowned brands, the company also offers tailor-made fashion. Lodenfrey is internationally renowned for quality and timeless elegance..

The system house

The implementation was supported by Schmidt & Fuchs Computertechnik, an experienced IT system house specializing in tailored IT solutions for businesses. With a strong focus on network infrastructure, IT security and managed services, the company has been offering reliable IT services and consulting for many years.

The IT hardware components

Nearly the entire LANCOM Systems portfolio was utilized. This included access and distribution switches (LANCOM XS-6128QF, LANCOM XS-5110F, 12 units of LANCOM GS-4554XP, LANCOM GS-3628XUP, GS-3528XP, GS-3510XP, GS-3126XP), high-performance access points (LX 6400, LX 6402), and gateways/routers. The LANCOM Management Cloud (LMC) was used for central management. Core switches (LANCOM YS-7154CF) will be implemented in the future to expand toward a robust three-tier architecture.

At a glance

Client

LODENFREY

**LODENFREY
Verkaufshaus GmbH
& Co KG**

Maffeistraße 7
D-80333 Munich
Germany
lodenfrey.com

System house



**Schmidt & Fuchs
Computertechnik GmbH**
Manfred-Wörner-Str. 105
D-73037 Göppingen
schmidt-fuchs.de

Requirements

- Central management of IT network components including automated WLAN optimization ARC 2.0
- Homogeneous environment for the entire network
- Higher security standards in the IT network (e.g., port blocking)
- Future expansion from a two-tier to a three-tier architecture for better performance and redundancy
- Compliance with important framework conditions (GDPR compliance, backdoor freedom) and manufacturers from the EU

Utilized components

- LANCOM Management Cloud
- LANCOM XS-6128QF
- LANCOM XS-5110F
- LANCOM GS-4554XP
- LANCOM GS-3x series, (GS-3628XUP, GS-3528XP, GS-3510XP, GS-3126XP)
- LANCOM LX-6400
- LANCOM LX-6402

