# WHEN TRUST IS THE CURRENCY, THE NETWORK MUST DELIVER




**Hamburger Pensionsverwaltung modernizes its network infrastructure in Hamburg's HafenCity – with R&S®LANCOM switching, Wi-Fi 7, and centralized cloud management |** Hamburger Pensionsverwaltung eG (HAPEV) is a cooperative providing occupational pension services and sees itself as a social-profit enterprise. In 2025, it planned a comprehensive modernization of the network infrastructure across multiple floors at its HafenCity site, with a clear goal: to protect sensitive personal data as effectively as possible while meeting demanding availability and performance requirements over the long term. The project was guided by reliable, secure network connectivity, alignment with DORA and ISO 27001 requirements, and digital sovereignty within German jurisdiction. Working with R&S®NC Platinum partner EDV-Partner, HAPEV established a redundant, scalable network infrastructure centrally managed through the R&S®LANCOM Management Cloud.

## The challenge: Uncompromising availability – planned for redundancy, centrally managed, and compliant

HAPEV's starting point was clear: As an organization providing occupational pension services, Hamburger Pensionsverwaltung eG has a particular responsibility when handling sensitive personal data. This places demanding requirements on the security, stability, and availability of its IT systems. Against this backdrop, the existing network infrastructure across several floors of its HafenCity office building was modernized as planned – with a structured approach, clear commitments, and a focus on long-term security.

The goal went beyond additional performance headroom: HAPEV needed a sound foundation for daily operations. It prioritized reliable, secure network connectivity aligned with DORA and ISO 27001 requirements. Digital sovereignty and an IT environment subject to German jurisdiction were equally important, alongside the expectation of being able to rely on a dependable manufacturer and a qualified partner network over the long term. Centralized control was also essential to support efficient operations and ongoing development.

> "When it comes to sensitive pension data, there are no gray areas for us: We wanted security and digital sovereignty within German jurisdiction – and a solution that simply works reliably every day."
>
> **Radu Alexa, Network & Security Engineer, IT systems team, Hamburger Pensionsverwaltung eG**

## The solution: Backbone redundancy, modern office Wi-Fi, and centralized visibility

Together with EDV-Partner, HAPEV chose an architecture built around high availability from the outset. At its core, a stack of two central aggregation switches connects the floor distribution network via 10G fiber uplinks, providing throughput of around 20 Gbit/s during normal operation. Robust redundancy mechanisms and hot-swappable power supplies maintain seamless availability, with 10G performance preserved even in the event of a failure. Below this, a PoE-capable access layer reliably supplies power and connectivity to endpoints and the Wi-Fi infrastructure across the building's floors.

A key technical challenge was delivering high performance across varying distances within the building. Suitable transceivers and fiber/copper connections (SFP modules) were selected for the different link distances, enabling reliable, scalable floor distribution with the necessary performance headroom.

Modern office Wi-Fi is another key component. The Wi-Fi 7 infrastructure uses both 5 GHz and the 6 GHz frequencies reserved for Wi-Fi, enabling operation with minimal interference and latency and maximum data transfer rates. HAPEV also uses modern client devices: Around half already connect in the 6 GHz band. Cloud-based radio optimization through R&S®LANCOM Active Radio Control™ 2.0 further supports stable operation. All network components are centrally managed through the R&S®LANCOM Management Cloud (R&S®LMC), with the IT service provider responsible for operations. This combines high performance with clear oversight of day-to-day operations – from configuration and rollout processes to ongoing infrastructure adjustments.

## Implementation: A 1.5-day weekend rollout – ready for business on Monday

The rollout was scheduled to minimize disruption to HAPEV's workflows. Implementation took place as planned over a weekend, in just 1.5 days.

The R&S®LANCOM Management Cloud (R&S®LMC) played a key role. Once the switches and access points had been installed and commissioned, the new infrastructure could be rolled out and configured quickly and consistently, with a structured deployment process, clearly documented, traceable configurations, and uniform security policies across all devices.

Administration remains consistent after go-live: The IT service provider continues to use the R&S®LMC to manage, adapt, and further develop the environment.



## Operations and results: Stable, scalable, and centrally managed – a foundation that grows with requirements

The new infrastructure gives HAPEV a powerful foundation for operations across multiple floors. The project results include a stable network infrastructure, a future-proof and scalable solution, and improved network performance and connectivity.

Centralized control is crucial to daily operations. The R&S®LMC enables structured management of devices and configurations.
Operations can be managed efficiently, with clear responsibility assigned to the IT service provider. This reduces day-to-day complexity and provides a basis for controlled infrastructure development as needed, while maintaining the required levels of security and availability.

In addition to the redundant architecture, HAPEV has selected R&S®NC support service options to safeguard infrastructure reliability over the long term. The switches in the first two tiers and the access points receive protection beyond the standard offering, including extended, guaranteed security updates and next-business-day (NBD) advance replacement services. This makes operations easier to plan even in the event of a fault and keeps the network infrastructure secure and maintainable over time.

"The R&S®LANCOM Management Cloud lets us centrally control the entire infrastructure – from rollout and configuration changes to ongoing optimization. This makes operations and further development significantly more predictable and efficient for the customer."

**Bernhard Graßhoff,**
**EDV-Partner, IT systems engineer**



### The customer

Hamburger Pensionsverwaltung eG (HAPEV) is a cooperative providing occupational pension services and sees itself as a social-profit enterprise. In 2025, HAPEV modernized the network infrastructure across multiple floors at its Hamburg HafenCity site to protect sensitive personal data as effectively as possible and meet demanding availability and performance requirements over the long term.

### The partner

As an R&S®NC Platinum partner, EDV-Partner GmbH delivers professional network infrastructure projects backed by extensive technical expertise. Its extensive R&S®NC certifications cover key areas such as switching, Wi-Fi, and network management. EDV-Partner supports customers from planning and implementation through ongoing operations, with a structured, reliable approach focused on security.

# AT A GLANCE

## The customer

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## The partner

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## Requirements

- Reliable and secure network connectivity (alignment with DORA and ISO 27001)
- Digital sovereignty / German jurisdiction
- Scalability and future-proofing
- Centralized infrastructure management

## Deployed components

- Switches:
  R&S®LANCOM GS-3252P
  R&S®LANCOM XS-5116QF
  R&S®LANCOM XS-3526YUP
- SFP modules:
  R&S®LANCOM SFP-LR-LC40
  R&S®LANCOM SFP-SX-LC10
  R&S®LANCOM SFP-CO10-MG
- Wi-Fi / Access points:
  R&S®LANCOM LX-7300
- Network management:
  R&S®LANCOM Management Cloud
  with Wi-Fi optimization through
  R&S®LANCOM Active Radio Control™ 2.0
- Service options:
  R&S®LANcare NBD Replacement XL
  R&S®LANcare Advanced L
  R&S®LANcare Basic S



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