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LANCOM reference projects **Healthcare**



Secure network solutions for the healthcare sector, compliant with guidelines, and engineered in Germany – for a trustworthy digital healthcare network.



LANCOM
SYSTEMS



All-round protection for IT networks in the healthcare sector

Modern eHealth applications such as the electronic health record, electronic certificates of incapacity for work, digital health applications, and digital care applications are impressively advancing healthcare – but they also require a very special sensitivity for data protection and digital sovereignty.

Various laws and regulations such as the European NIS2 Directive take care of this. The institutions must implement the guidelines themselves. As an experienced network specialist with numerous projects in the healthcare sector, LANCOM Systems supports you in securely connecting to the digital healthcare network.

Added value of the LANCOM Healthcare Solutions



Compliant IT security

Certified cybersecurity, digital sovereignty, fulfillment of legal requirements



Highest compatibility

Access points for use in the medical sector, compatible with PHILIPS and Dräger patient monitoring systems, all network components incl. support from a single source



Sustainable network maintenance

Resource-saving, secure investment, regular software updates, transparent software lifecycle management, support from experienced technology partners



Engineered in Europe

GDPR-compliant, backdoor-free, network management cloud hosted in Germany

Experience & strong partnerships



Dräger

STANLEY
Healthcare

ascom



EVRESYS

PHILIPS
Healthcare

HYPROS

spectralink

macmon

ROHDE & SCHWARZ
Make ideas real

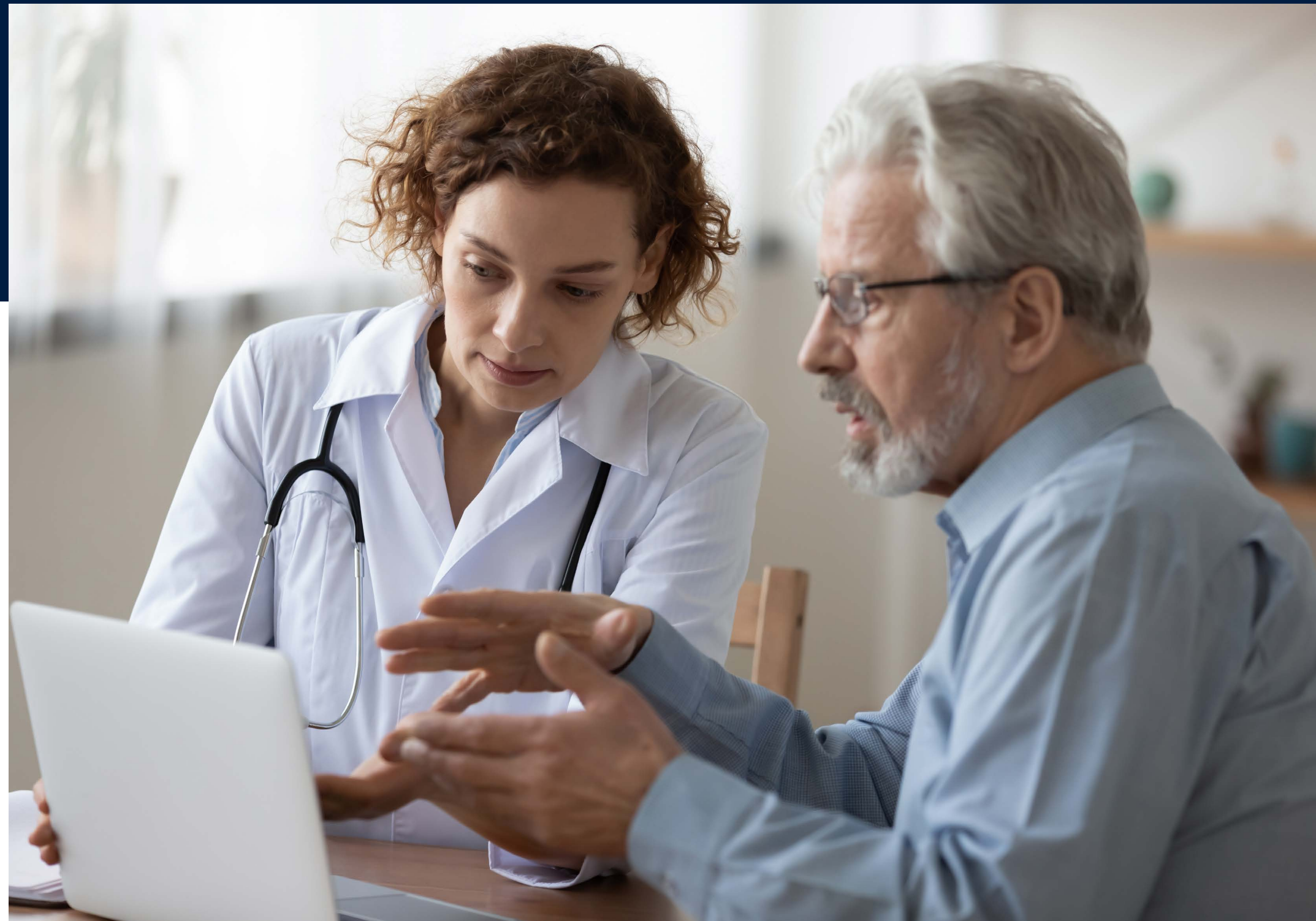


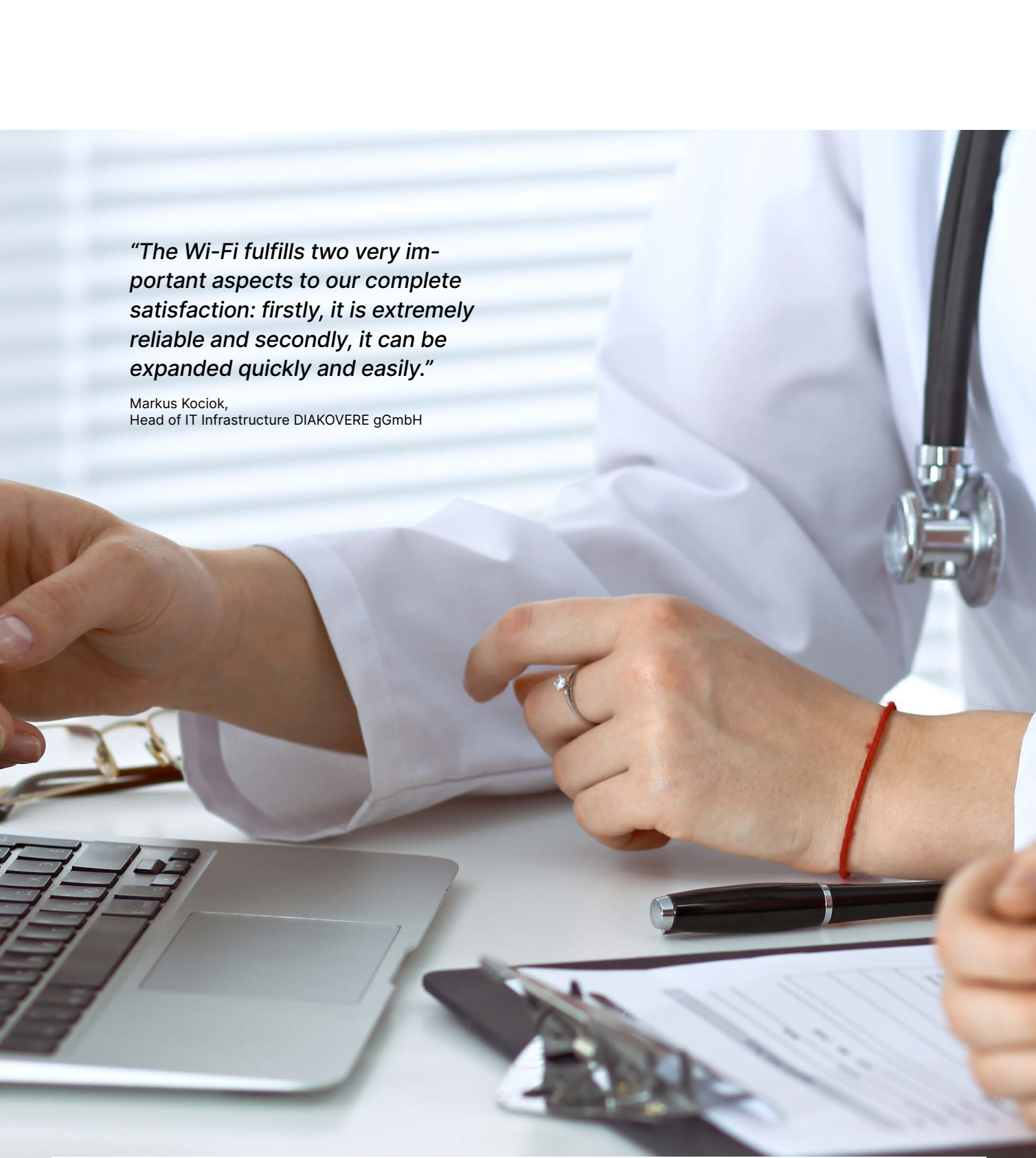
You can find more information about cybersecurity in the healthcare sector here: <https://www.lancom-systems.com/solutions/healthcare>

Healthcare



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"The Wi-Fi fulfills two very important aspects to our complete satisfaction: firstly, it is extremely reliable and secondly, it can be expanded quickly and easily."

Markus Kociok,
Head of IT Infrastructure DIAKOVERE gGmbH

DIAKOVERE gGmbH – Friederikenstift Hannover

Industry: Healthcare

Area covered by Wi-Fi: 19.000 m²



Hospital processes optimized

Electronic health record and high-performance Wi-Fi ensure optimized processes

- Comprehensive Wi-Fi at the stations and central management of the access points via WLAN controller (WLC)
- Optimum network utilization through simultaneous operation in the 2.4 GHz network (patient hotspot) and 5 GHz network (mobile services)
- Logical separation of the various applications using SSIDs and VLANs

Customer benefits

- Electronic patient file and high-performance Wi-Fi ensure optimized processes
- High scalability of the solution enables gradual expansion to new wards and all DIAKOVERE hospitals
- Fail-safe: Autonomous operation of the access points in the event of a WLC failure
- More time and more efficient processes in patient care through the use of electronic files in mobile ward rounds

This project was realized by: alcera Kommunikationstechnik GmbH,
www.alcera.de

"Hospitals also live from the recommendations of their patients. In addition to medical care, service to people is also important and a reliable Wi-Fi hotspot ensures a positive response."

Alexander Kern,
Head of IT Management at Alice-Hospital

Hospital Wi-Fi for the best care

Alice Hospital uses a modern wireless network for medical applications and patient hotspots

- 120 access points with approval for medical environments supply 19,000 square meters simultaneously in the 2.4 and 5 GHz frequency bands
- Logically separate networks for patient hotspots and medical services
- Central WLAN controller (WLC) manages and configures access points

Customer benefits

- Modern wireless network for medical applications and a patient hotspot that increases satisfaction
- Access to digital patient files via laptop and future integration of other Wi-Fi-enabled end devices possible
- High reliability of the access points (operation via WLC and with failure of the WLC autonomous operation) and optimal utilization of the network

Alice Hospital Darmstadt

Industry: Healthcare

Area covered by Wi-Fi: 19.000 m²



The project was realized by: Sidis GmbH & Co. KG, www.sidis.de

"Thanks to the professional solution from Seabix and LANCOM, we can now concentrate fully on what our core task is: flying."

Gerold Biner,
CEO Air Zermatt

Flying high with the cloud

Implementation of a state-of-the-art, cloud-managed network infrastructure ensures optimal deployment preparation

- Reliability and speed are the most important cornerstones of mission preparation for the Air Zermatt mountain rescuers
- Long waiting times to rectify outages of important resources such as Internet and telephony were unacceptable for an air rescue service where time is essential
- The customer wanted to implement a network that came completely from a single source – from the Internet connection to the Wi-Fi and telephony

Customer benefits

- The mountain rescue service now benefits from improved Wi-Fi coverage, wireless telephony via voice over Wi-Fi and a higher quality of network service
- In particular, the time saved by proactive monitoring and the increase in efficiency thanks to simpler operation allows the customer more mountain rescue operations
- After intensive research, the customer opted for LANCOM due to the comprehensive hardware portfolio and the combined management cloud

Air Zermatt AG

Sector: Services

Location: Zermatt, Switzerland



The project was realized by: Lumiad, www.lumiad.com

"We are very satisfied with the professional hardware from LANCOM Systems. The network has not disappointed us yet."

Mark Nuijten,
Head of IT & Automation

Paperless health records thanks to **Wi-Fi**

Seamless Wi-Fi coverage for digital health records and flexible use of end devices

- Controller-based network consisting of around 160 LANCOM access points with simultaneous operation in the 2.4 and 5 GHz frequency ranges
- Separation of staff and patient Wi-Fis and exclusive use of the 5 GHz network by staff
- Switching communication from DECT to VoIP and Wi-Fi with seamless roaming

Customer benefit

- Faster access to digital health records and greater efficiency in processing and storing data
- Less interference with medical devices thanks to the use of Wi-Fi
- More time for care through the use of mobile technologies

The project was realized by: Lumiad, www.lumiad.com

Hoogstraat Rehabilitation Center Utrecht

Sector: Healthcare

Mobile devices used: approx. 400



"A professional wireless network solution was important to us. At the same time, the Wi-Fi had to be flexible, as we only have access to one infrastructure for multiple applications."

Markus Puke, IIT Network Administrator
Schüchtermann-Klinik Bad Rothenfelde

Wireless on the pulse of time

Mobile applications support therapy, diagnosis, and service at the Schüchtermann Clinic

- Successive coverage of all stations with Wi-Fi
- Use of professional Wi-Fi access points (Dräger validation, autonomous continued operation, simultaneous operation in the 2.4 and 5 GHz frequency ranges Multi-SSID)
- Secure integration of various services and applications into the Wi-Fi, e.g. patient hotspot, mobile patient monitoring system, blood gas analysis devices

Customer benefits

- Professional solution ensures stable, secure, and convenient operation from a central location
- Seamless patient monitoring supports therapy
- Wi-Fi hotspots ensure a pleasant hospital stay

The project was realized by: SIEVERS-GROUP, www.sievers-group.com

Schüchtermann Clinic

Sector: Healthcare

Equipped areas: All 14 wards





**Apotheken-Dienstleistungsgesellschaft mbH
(Pharmacy service company)**

Sector: Healthcare
Locations: 4,250 pharmacies



Networked as prescribed

ADG relies on fail-safe VPN connection and Wi-Fi for pharmacies

- Stable connection of around 4,250 pharmacies to the Internet via VPN router
- Encryption of sensitive data using VPN technology
- Comprehensive coverage of the premises with Wi-Fi access point

Customer benefits

- Optimization of the entire goods flow logistics as well as the checkout and ordering systems
- Maximum availability: hardware allows various backup scenarios
- Maximum confidentiality: operating system and components come from the German manufacturer and receive regular security updates

"Site networking helps us to save costs, as a terminal server is only required in the central administration in Bad Krozingen, on which employees of all houses can access."

Dennis Rahneberg,
Managing Director of aczeptaholding GmbH

Networked care: Secure & wireless

Care service provider Aczeptaholding securely networks locations via VPN and optimizes processes with Wi-Fi

- VPN connection of four locations and Wi-Fi radio link to connect one location to the company headquarter
- Implementation of wireless networks in the homes (controller-based at two locations) with integration of mobile displays
- Set up an employee, resident, and visitor Wi-Fi with different SSIDs, separated into logically separate sub-networks

Customer benefits

- Efficient and fast cost accounting processes as well as fast and flexible personnel planning
- Seamless and fast documentation of care services via Wi-Fi-enabled displays
- Increased mobility for employees, residents, and visitors thanks to the wireless network


The project was realized by: CAB Solutions Computervertrieb GmbH,
www.cab-solutions.de

Aczeptaholding GmbH

Industry: Healthcare

Locations: Five facilities (Germany-wide)





„I am completely satisfied with our network modernization. Because of the sensitive data for whose security I am personally liable, my main focus was on a trustworthy solution from Germany.“

Sabine Becker,
Specialist for general medicine

Practice Team Langenhagen Sabine Becker

Industry: Healthcare
Location: Langenhagen



Health IT infrastructure solution boosts network immune system

Network security and modernization in the specialist practice Sabine Becker

- Updating existing consumer hardware for greater security, performance, and Wi-Fi range
- More security thanks to UTM firewall and separate Wi-Fis for patients and staff
- Cloud-based management by system house

Customer benefits

- Tailor-made complete industry solution comprising firewall, access point, switch, VPN client, service, and cloud management
- Significantly optimized, legally compliant, and backdoor-free connection to digital healthcare
- Only three months passed from planning to full implementation

This project was realized by Medicus IT Solutions GmbH,
www.medicus-it-solutions.de

Have we aroused your interest?
Our healthcare team will be happy to advise you!

Inside Sales International Team

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