

# Health IT infrastructure solution boosts network immune system



## Network security and modernization in the specialist practice Sabine Becker

### Initial situation

**The Langenhagen practice team is representative of the many family and specialist practices in Germany that do their best every day for the health of their patients and strive to create a positive, appreciative atmosphere within the team despite high stress levels. Digitalization in the healthcare sector can optimize many processes – if it is based on a stable, high-performance IT infrastructure.**

The practice owner, Sabine Becker, a renowned specialist in general medicine in Langenhagen near Hanover, faced the challenge of updating her IT infrastructure after founding the practice in 2018. The existing solution was based on consumer hardware that could no longer meet the growing demands for security and performance and only provided limited range for the Wi-Fi.

*„I am completely satisfied with our network modernization. Given the sensitive nature of the data, for whose security I am personally liable, my main focus was on a trustworthy solution from Germany. And then only LANCOM came into question. The complete package with integrated virus protection and remote management offered by our reliable and competent IT service provider Medicus IT Solutions has fully won me over.“*

Sabine Becker  
Specialist in  
Family medicine

## Solution

With a health IT infrastructure solution from the German manufacturer LANCOM, Medicus IT GmbH implemented a tailor-made complete industry solution that significantly optimized the practice's network security and also ensured a legally compliant, guaranteed backdoor-free connection to the telematics infrastructure. The key points of the solution were the introduction of a LANCOM UTM firewall and the establishment of a separate Wi-Fi for patients and employees. Cloud-based management by the system house ensures maximum security and failure protection through remote monitoring and configurations.

## Client benefits

With the new complete solution comprising a firewall, access point, switch, VPN client, service product, and cloud management, all requirements for secure and legally compliant networking in the healthcare sector have been perfectly met. By using a predefined package for the healthcare sector, only three months passed between planning and full implementation.

The stable and fast Internet connection supports the smooth running of the practice and the new Wi-Fi provides employees with stable and powerful wireless connections in all rooms of the practice, but that's not all. As a new service, a Wi-Fi hotspot is now also available to patients – safely separated from the practice Wi-Fi, of course.





Configuration adjustments, firmware updates, monitoring, and troubleshooting are controlled remotely and in a highly automated manner by the Medicus IT Solutions system house via the LANCOM Management Cloud. In the future, self-learning Wi-Fi optimization will also be possible via the cloud. As a free feature of the LANCOM Management Cloud, LANCOM Active Radio Control 2.0 (ARC 2.0) offers the option of automated channel and transmission power optimization as the WLAN network load increases, which can achieve a significant increase in Wi-Fi capacity in demanding environments.

## At a glance

### The customer



**Practice team**  
**Langenhagen**  
**Sabine Becker**

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#### **Products and services:**

General & family medicine.  
Preventive healthcare,  
skin cancer screening,  
vaccination, chirotherapy,  
fascia therapy, medical  
flossing, kinesiologie taping

### The partner



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### Requirements

- Better security and active virus protection
- Stable connections and remote monitoring
- Backdoor-free, complete solution from Germany

#### **Utilized components:**

- Access point: LX-6200
- Firewall: UF-160
- Switch: GS-3126XP
- LANcare Advanced
- LANCOM Management Cloud



LANCOM Service  
**LANcare**  
**Advanced**

