

# LANCOM Reference Projects

## Wireless LAN and VPN at Medical Practices



### Customer

The **radiological nuclear medicine joint practice** has various sites like the Düren Hospital or the practices in Jülich and Düren (Germany). The team currently consists of eight radiologists, nuclear-medicine specialists and radiotherapists, and approx. 50 further employees. The practice specializes in magnetic resonance imaging (MRI), computer tomography (CT), mammography screening, and all types of conventional x-ray examination. Nuclear-medical examinations are also carried out.

### Idea / Requirements

- Efficient, economical **networking of multiple sites**
- **Connection of external medical specialists** who refer patients
- **Multi-functional and secure networking of the practice** with **high bandwidth** for PACS (Picture Archiving and Communication System)

### Solution

- **Wireless point-to-point links** for networking two branch offices
- **Connection of external medical specialists** via VPN dial-in
- **Network virtualization:** Subnetworks for mammography screening, external medical specialists, service companies (for the maintenance of medical equipment), KV Safenet (transmission of quarterly results to the Medical Association)

### Advantages

- **Instant internal access** to images from all sites
- **Fast availability of patient images to external medical specialists** at their practices
- **Central appointment management** for all sites
- **Faster workflows** due to **quicker processing** and major **reduction of logistical requirements**



3 x LANCOM  
1811n Wireless  
business VPN  
routers

2 x LANCOM 1711  
VPN routers with  
25-user VPN option

1 x LANCOM  
1821n Wireless  
VPN ASDL2+  
router

1 x LANCOM  
L-54 ag wireless  
access point

1 x LANCOM  
GS 2124 switch

radiologische und  
nuklearmedizinische  
Gemeinschaftspraxis

**LANCOM**  
Systems