Innovative networking solutions.
Made in Germany.

> LANCOM Management Cloud
> Network Connectivity
> Wireless LAN
> Service & Support
SECURE. NETWORKS.

With the solutions from LANCOM, you can be sure that your networks are secure, reliable, and fit for the future.
The time has come for fresh thinking.

An efficient network is the heart of every company, and developing and managing it is a highly complex matter. Wouldn’t it be great to have an intelligent, higher instance that takes care of things? A kind of hyper-intelligence that controls the entire network from a central location, that networks all of the key components, and is able to dynamically respond to any new requirements – and which is also secure. What sounds like a future scenario is here today.
Welcome to the LANCOM Management Cloud!

The LANCOM Management Cloud is the world’s first hyper-integrated management system that intelligently organizes, optimizes and controls your entire network architecture. State-of-the-art software-defined networking technology drastically simplifies the provision of integrated networks – the manual configuration of individual devices has become a thing of the past. The system adjusts dynamically to your wishes and requirements, it offers maximum security, and it is fit for the future. The system is hosted precisely according to your wishes: In your company’s Private Cloud or in the Public Cloud – hosted in Germany by the leading German manufacturer of integrated networking solutions.

This is hyper integration

State-of-the-art technology
The relentless growth in the number of users, applications, security requirements, devices, and sites that need to be managed is straining static network architectures to breaking point. What we need today is fresh thinking. Our solution: Software-defined networking (SDN) – the new benchmark for innovative, user-oriented, and future-proof network management and monitoring. The new LANCOM Management Cloud integrates all of the intelligence of the full range of your network devices, including the wide-area network (SD-WAN), the local-area wired network (SD-LAN), and the wireless network (SD-WLAN) with an uncompromising orchestration of the whole network into a single powerful system.

Easier and faster
The advantage offered by SDN is that the formerly manual device configuration is replaced by automated network orchestration. This eliminates the laborious configuration of individual devices, new sites are integrated faster and in full compliance with company-wide security policies, network errors are identified quickly and fixed proactively – without having to dispatch expensive field engineers.

Network settings are processed globally and the changes are automatically rolled-out to all of the relevant devices. Administrative tasks that previously took hours or days to complete are now taken care of within minutes or a few clicks.
Hyper integration – the combination of SD-WAN, SD-LAN & SD-WLAN

SD-WAN
SD-WAN automatically and dynamically creates secure IPSec VPN connections between sites, including network virtualization across the wide-area network (WAN). A mouse click is all it takes to enable the VPN function and select the required VLANs for each site. The laborious individual configuration of the two tunnel endpoints is simply no longer required.

SD-LAN
SD-LAN orchestrates the port profiles for each switch and automatically assigns the necessary network configuration, e.g. the required VLANs. At the click of a mouse, switch configurations that are fully customized for the access points and routers at each site are rolled-out or updated simultaneously.

SD-WLAN
SD-WLAN facilitates the automatic configuration of multiple WLANs (multi-SSID), including for example the separation of hotspot networks. All that needs to be specified here is the SSID authentication method and, if required, the bandwidth restrictions for each WLAN. The WLAN profiles created in this way are rolled out or updated on any number of access points and WLAN routers at the different sites – simply by mouse click.

Management & monitoring with LANtools
Along with the LANCOM Management Cloud, LANCOM has long provided a comprehensive set of free management & monitoring tools: Once installed on a Windows system, the programs LANconfig, LANmonitor and WLANmonitor provide the detailed configuration and monitoring of LANCOM routers, access points and WLAN controllers – for individual devices or in groups.
Hyper integration, for maximum transparency

Everything at a glance; every application 24/7
Once in operation, all LANCOM gateways, routers, switches, and access points are automatically integrated into the proactive, application-oriented 24/7 monitoring.

Layer-7 application monitoring
Layer-7 application monitoring provides network-traffic analysis on the application layer. A graphical display integrated in the dashboard reveals at a glance when, where, which application, or which user is causing excessive network traffic, and whether further action is required.

24/7 monitoring
With 24/7 monitoring, administrators are automatically notified of any events or errors on the network, which helps with the immediate identification and elimination of problems. Proactive troubleshooting saves valuable time and eliminates the need for manual network-performance monitoring.

Six good reasons for the LANCOM Management Cloud

Security Made in Germany
Gateways, routers, access points, the LCOS operating system, and the LANCOM Management Cloud are developed and manufactured in Germany. With the Public Cloud hosted in Germany, data security and legally compliant handling are guaranteed.

One system for all components
All LANCOM gateways, routers, switches, access points, and virtual LANCOM routers (vRouters) are centrally configured, and uniformly controlled and monitored.

A system that is perfectly scalable
The LANCOM Management Cloud meets any demand, from small networks right up to enterprise-scale installations. Management is easy and smart throughout: Applications can be assigned to any number of sites.

Multitenancy
The LANCOM Management Cloud supports the management of any number of projects. It is also very easy to switch between individual projects for immediate visibility of current and past network events.

Security of investment
LANCOM devices currently in operation become Cloud-ready with a simple firmware update – no hardware replacements required! They can at any time be reassigned to different projects, and you can even return them to conventional configuration and operation again.

Your operating model? Your choice!
The LMC is available now as a “Public Cloud” variant hosted in Germany, as a “Private Cloud” variant hosted by any systems vendor, or as a self-hosting variant located at the end customer’s own premises.
Secure and flexible site connectivity

Your success is our inspiration
Smooth and reliable cross-site communication is essential for efficient and economical operations, which makes this a decisive factor for your success. The individual nature of the structures at each different enterprise demands a flexible solution that perfectly fits your needs and one which, above all, offers a secure network – at multiple sites and offering high performance and protection against unauthorized access.

LANCOM OFFERS YOU:
- Automated network orchestration thanks to software-defined networking with the LANCOM Management Cloud
- Wired or wireless Internet access
- Securely encrypted networking of main and branch offices
- Mobile access to corporate networks from mobile devices
- Home-office connectivity

Securely networked with LANCOM VPN
In the interests of the secure exchange of sensitive data in the network, „a secure data channel“ (VPN) is necessary to network corporate offices, branches, home offices, and mobile workers. This involves an encrypted data tunnel being established through the public Internet, which creates a secure private network that allows access for authorized persons only.

LANCOM MANAGEMENT CLOUD
SD-WAN enables enterprise-wide VPN networking by mouse click – fast and easy!
Site connectivity for main and branch offices and mobile coworkers

High-performance basis for your infrastructure
For years now, companies have established networked sites around the world and are operating business-critical applications online. VPN site connectivity is a must, and this demands a high-performance network infrastructure. The central site VPN gateways from LANCOM and the software-based vRouters ensure that complex structures with large numbers of sites are implemented securely and reliably.

Mobile access to the company network
Be it at a hotel, at meetings or conferences out of the office – once installed on your PC or laptop, the LANCOM Advanced VPN Client provides your employees with secure data communication and access to the corporate network. LANCOM cellular routers with LTE and Wi-Fi additionally provide a wireless high-speed Internet connection with speeds of up to 300 Mbps, which makes them the ideal equipment if you need to set up temporary networks.

Connecting branch offices and partner companies
A VPN connection can be used to securely connect your branch offices to the corporate network, and to exchange data with partner companies. The access rights are controlled by virtual networks, which ensure that each and every network participant only has access to the corporate data that are relevant to them.
Network virtualization with LANCOM – for example, in a retail chain store

The basis for network virtualization
Instead of using dedicated infrastructures and different Internet access accounts for your various applications, you can use LANCOM routers with Advanced Routing and Forwarding (ARF) to manage multiple logical networks that are strictly separated from one another. This method encapsulates data from different VLANs into separate tunnels and transmits them over the Internet via an IPSec tunnel, which makes it possible to completely virtualize an entire corporate network.

One multipurpose network infrastructure
In retail stores, where so many applications and connections play a vital role, network virtualization is the ideal solution. The scenario shown here illustrates a retail chain store which operates different applications in parallel, all of which are kept completely separate from one another.

DIGITAL POS MARKETING
Networking solutions from LANCOM are the basis for centralized and fully digitalized marketing-campaign management in brick-and-mortar retail: In the stores, large screens (digital signage) display the current promotional offers which, at the same time, appear on customer smartphones and the digital price labels.

DIGITAL PRICE LABELING IN RETAIL
Retailers are already taking advantage of digital price tags, also known as “electronic shelf labels” or ESL. With the E-series LANCOM access points, prices, items, barcodes, and QR codes are automatically updated from the central ERP system by wireless – in almost real time.

CLOUD-BASED TOTAL SOLUTION MANAGEMENT
The LANCOM Management Cloud orchestrates your entire network with all of its components into one powerful system: All LANCOM gateways, routers, switches, access points, and virtual LANCOM routers (vRouters) are centrally configured, and uniformly controlled and monitored. Networks are automatically assigned and rolled-out to the desired sites and devices – in minutes, not days!

LEARN MORE AT:
www.lancom-systems.com/cloud

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LEARN MORE AT:
www.lancom-systems.com/cloud
The five pillars of the LANCOM security pledge

01  German firmware
   Full control of our own "closed-source" operating system, LCOS

02  German products
   Software and hardware developed in Germany
   Manufacturing in Germany

03  German company
   Based in Germany, 100% German ownership

04  Guaranteed free of backdoors
   Rigorous avoidance of any hidden means of access

05  Highest encryption
   Highest security and encryption standards in all LANCOM products

BSI-certified products
The high security of the CC routers has been certified after an extensive assessment carried out by the German Federal Office for Information Security (BSI). These products demonstrably offer your multi-site networks and critical infrastructures the maximum of protection from interception, tampering, and sabotage – all based on the highly integrated and widely tested LANCOM network components. What’s more, you benefit from a comprehensive variety of interfaces and a full range of features for flexible application scenarios. This combination of economical, highly integrated VPN routers in combination with certified German security technology – without hidden backdoors – is unique on the market.

LANCOM OFFERS YOU:
- High-security networking of critical infrastructures
- High-security access to secure cloud services
- Protection of critical areas, such as management offices, and R&D departments
- Protection of IP telephony and videoconferencing solutions

COMMON CRITERIA BSI CERTIFICATION
Common Criteria (CC) is an internationally recognized standard for the certification of hardware and software in the field of data security Certification by the German Federal Office for Information Security ensures that LANCOM products meet the extremely high German and European requirements for security and data-protection. With CC EAL 4+, LANCOM routers achieved the highest internationally recognized level of certification that is available for commercial network products of this complexity.

LEARN MORE AT:
www.lancom-systems.com/high-security
The key is having the right device

The LANCOM portfolio of Wi-Fi products is as diverse and versatile as your requirements. With our range of access points, LANCOM offers a comprehensive product portfolio that will meet any individual challenge. The devices offer maximum versatility of operation: be it orchestration by the LANCOM Management Cloud, central management by a WLAN controller, or stand-alone operation.

Wireless flexibility

The mobility and flexibility offered by laptops, tablet PCs and smartphones have become an integral part of our everyday lives. Modern wireless LAN solutions from LANCOM Systems are a viable alternative to wired networks, because these days, throughput rates are measured in Gigabits! Wireless infrastructures are quickly installed without structural alterations, and you can extend them at will.

LANCOM OFFERS YOU:

- The best Wi-Fi equipment for any application or industry
- Solutions on any scale: From home offices to worldwide enterprise networks
- Automatic Wi-Fi configuration by the LANCOM Management Cloud or WLAN controllers
- Professional Wi-Fi optimization technology
- User-friendly setup of guest access accounts
- Connecting mobile devices to the corporate network

Flexible solutions.

Best Wi-Fi.
Twice as good: SD-LAN and SD-WLAN

The convergence of LAN and WLAN

The integration of switches and access points in the LANCOM Management Cloud results in tremendous added value for the consistent and efficient configuration of your local wired and wireless networks. Not only do SD-LAN and SD-WLAN save your valuable time, but they completely eliminate any manual configuration errors, as well.

Formerly: Static networks and manual configuration of individual devices

A modern internal company network – be it wired (LAN) and/or wireless (WLAN) – demands separate networks for different applications, all of which need to be securely isolated from one another: An internal local area network (intranet) and, possibly, extra networks specifically for the accounts and R&D departments, but also an open network for guest access (hotspot). Even for experienced, certified network administrators, the conventional configuration of individual devices can become an extremely time-consuming task. The workload and the number of errors increase exponentially with the number of devices, which can result in complex troubleshooting for configuration errors.

Network orchestration and automated device configuration

Software-defined Networking by the LANCOM Management Cloud guarantees that each and every switch and access point at the various sites operates with a fine-tuned configuration. Once setup with the necessary security settings, the required networks (VLANs) are assigned to the appropriate switch ports and deployed to all of the switches in the network – completely automatically and at any number of sites. The access points connected to the switch ports transmit the appropriate WLAN SSIDs.
High-speed Wi-Fi
IEEE 802.11ac
Wave 2

Wirespeed for wireless LAN
Wireless freedom in combination with the speed of wired networks – with the increasing number of clients and applications, this is an absolute must for any modern company network! The Wi-Fi standard IEEE 802.11ac offers you exactly this Gigabit performance and sets the standard for a unique Wi-Fi experience.

Advantages of IEEE 802.11ac Wave 2
LANCOM access points with IEEE 802.11ac Wave 2 provide net data rates of up to 1.3 Gbps. This makes local data transfer lightning fast – even faster than wired infrastructures! And thanks to latest Multi-User MIMO technology, multiple compatible Wi-Fi clients are supplied with data at the same time in parallel.

- All-wireless office – high-speed networking without wires
- Maximum speed for all applications
- Increased battery life for devices through shorter data-transfer times
- High-speed Wi-Fi in high-density environments with many clients

All LANCOM 11ac Wave 2 access points are Cloud-ready!

100%

Multi-User Mimo
The new wave of efficiency

Wave 2 introduces Multi-User MIMO
The Wi-Fi standard IEEE 802.11ac Wave 2 introduces a new technology which significantly increases the efficiency of the entire wireless network. Multi-User MIMO (MU-MIMO for short) simultaneously distributes all of the available spatial streams of an access point between several different Wave 2 clients, rather than one after the other as was formerly the case. The available bandwidth is used efficiently and delays in the wireless network are substantially reduced.

How it works
Multi-User MIMO (MU-MIMO for short) allows the spatial streams of an access point to be shared between different clients. This supplies several clients with data at the same time and all of the available spatial streams are used to maximum effect.

NEXT GENERATION: HIGH-SPEED WI-FI WITH IEEE 802.11AC WAVE 2
Current latest-generation LANCOM access points support IEEE 802.11ac Wave 2. They provide additional functions that not only increase the overall gross data rate, but it also significantly improve the efficiency of the Wi-Fi as a whole.

LEARN MORE AT:
www.lancom-systems.com/ac

IEEE 802.11ac Wave 2 – the benchmark for wirespeed performance and maximum efficiency for your Wi-Fi.

LEARN MORE AT:
www.lancom-systems.com/ac

LANCOM Access Point
no unused streams

WAVE 2: MULTI-USER MIMO

used stream

used stream

2 used streams

Smartphone
1x1

Tablet
1x1

Laptop
2x2
**LANCOM Active Radio Control**

**Full potential for your Wi-Fi**

An efficient wireless-based workflow demands high-performance throughput and the proactive avoidance of interference sources. A guarantee for this is the LANCOM Active Radio Control, an optimization concept that intelligently combines well-matched features to sustainably improve the performance of your wireless network.

**Optimized Wi-Fi performance**

- **Adaptive RF Optimization**  
  Greater Wi-Fi throughput thanks to the dynamic selection of optimum Wi-Fi channels by the access point in case of disturbances

- **Airtime Fairness**  
  Fair, equal distribution of Wi-Fi transmission times by the access points for multiple clients

- **Managed RF Optimization**  
  Less channel overlaps due to the selection of optimal Wi-Fi channels triggered by the administrator

- **Band Steering**  
  Optimized load distribution throughout the Wi-Fi by actively redirecting clients to the less congested and higher performance 5-GHz frequency band

- **Client Steering**  
  Installations based on WLAN controllers actively direct clients to the access point that offers the best service

- **Adaptive Noise Immunity**  
  Considerably higher data throughput for clients in demanding wireless environments with interfering signals

- **Adaptive Transmission Power**  
  Reliable Wi-Fi backups on access point malfunction

- **Spectral Scan**  
  Efficient troubleshooting by identifying interference sources in the radio field

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**DID YOU KNOW?**

Current LANCOM wireless LAN devices are already Hotspot 2.0-ready. Moreover, many have been certified by the Wi-Fi Alliance based on the Wi-Fi standard IEEE 802.11u and received the label Wi-Fi CERTIFIED Passpoint™. Also there are already hundreds of millions IEEE 802.11u-compatible end devices in the field – tendency upwards.

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**Hotspot 2.0 – The next-generation hotspot**

Wi-Fi as easy to use as cellular

The burdensome entry of access credentials for logging in to a hotspot and the selection of the correct SSID belong to the past! Hotspot 2.0 offers the user maximum comfort thanks to the automatic login to Wi-Fi hotspots. The selection of the correct SSID takes place unnoticed from the user in the background – comfortable and securely encrypted. The underlying Wi-Fi standard IEEE 802.11u enables an automated, encrypted authentication of clients for Wi-Fi access.

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**Benefits for End Customers**

- Using Wi-Fi becomes as easy as using cellular
- No manual selection of SSIDs or input of access credentials
- Secure authentication on Wi-Fi hotspots thanks to WPA2/EAP encryption
- Automatic access to Wi-Fi hotspots at different locations
- Faster Internet experience compared to cellular networks

**Benefits for Hotspot Operators**

- Wi-Fi access as a competitive advantage leads to higher customer satisfaction among multimedia users
- Increased turnover as customers stay longer thanks to Wi-Fi access
- Simple provision of the necessary technology through cooperation with providers or roaming brokers
- Provision of hotspot login data is no longer necessary

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**High-performance features for your WLAN**

Maintain control over your wireless infrastructures by proactively avoiding sources of interference. All the features of the LANCOM Active Radio Control are included with the LANCOM operating system LCOS, and they are easy and effective to use with the appropriate management tools. Not only are they free, but they also receive regular updates with innovative enhancements.

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**LEARN MORE AT:**

www.lancom-systems.de/arc

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**LEARN MORE AT:**

www.lancom-systems.com/arc
LANCOM Wireless ePaper Solutions

A world’s first in innovative signage

Wireless ePaper Displays from LANCOM offer state-of-the-art digital signage for a wide range of applications. With their modern design and ePaper suitable for use in daylight, the LANCOM Wireless ePaper Displays not only look good, they also create transparency and improve your information flow. Once connected to your calendar management system, they update fully automatically. The energy-efficient technology lasts for up to 5-7 years without an external power supply. The innovative E-series access points from LANCOM support Wi-Fi and ePaper displays in parallel – operating absolutely free of any interference. Available in different sizes, the latest generation of Wireless ePaper Displays use their full graphics capability to display the colors red, black, and white.

Innovative signage, countless possibilities

Active room signs for businesses

Current meetings and events are automatically synchronized with your calendar management system (including Exchange, Domino, Google Calendar, Office 365, etc.) and presented on the LANCOM Wireless ePaper Displays at the conference rooms – an added value that significantly improves the information flow for employees and visitors alike.

Signage in the public sector and in healthcare

LANCOM Wireless ePaper Displays simplify workflows and create transparency at offices, schools, universities, and hospitals. Thanks to automatic synchronization with the database, you can see at a glance whether an office, a classroom or a treatment room is free or occupied.

LANCOM E-series: Wi-Fi, Wireless ePaper, and iBeacon

The access points of the LANCOM E-series combine four radio modules in one device: Along with 2.4- and 5-GHz Wi-Fi and communication with LANCOM Wireless ePaper Displays, an additional iBeacon radio module integrated into the access points supports location-based services for smartphones.

Learn more at: www.lancom-systems.com/epaper
**LANCOM Public Spot – Professional guest access**

**Simple to set up, easy to use**

Guest Internet access is at its most compelling when it is easy to set up, offers guests user-friendly access to the Internet, and assures operators that their own company network is secure from unautho-rized access. Solutions from LANCOM meets these requirements: You can offer your guests secure access with a minimum of effort and significantly increase the attractiveness of your location.

**Wi-Fi hotspots for everybody**

The LANCOM Public Spot option provides reliable and secure access for guests, visitors, partners or customers, all based on a common infrastructure. At the same time it offers the administrator full freedom to configure and customize their Wi-Fi guest access to precisely meet their needs.

- User-friendly setup of Wi-Fi guest access (optionally charged or for free)
- Choice of login procedure to the Wi-Fi hotspot (e.g. via Smart Ticket or printed voucher)
- Choice of models for online time and validity period of the guest access accounts
- Secure separation of guest access from the internal network
- Voucher and portal layout can be customized to the individual design of the company
- Connection to external servers or property management systems (PMS) via XML, RADIUS or RAS interfaces

**Maximum freedom of design with maximum security**

**EASY ACCESS – WITH LANCOM SMART TICKET**

As an alternative to printed vouchers with the hotspot access credentials, your guests can receive them on their smartphone thanks to the Smart Ticket function – quickly and easily via SMS or e-mail.

**EASY TO UPGRADE – ESPECIALLY FOR EXISTING INFRASTRUCTURES**

The LANCOM Public Spot Option is easy to install on your existing LANCOM hardware such as access points, WLAN controllers, WLAN routers, and VPN gateways. Your network infrastructure remains in place and there is no need to purchase additional equipment.

**LEARN MORE AT:**

www.lancom-systems.com/publicspot

**Convenient Internet access for your customers**

Online. Anywhere, anytime. Preferably at no charge and with a minimum of effort. The Public Spot solutions from LANCOM fulfill this wish for your guests and, at the same time, they securely separate the guest network from your company’s network. What’s more, LANCOM solutions adapt perfectly to the size of your network – and your budget. An open interface makes it easy to integrate external systems without problem.
**Wireless LAN in the hospitality industry**

**Guest access accounts in hotels**
Wireless LAN makes it easier than ever for hotel operators to offer their guests mobile and high-speed internet. Quick and easy to install, Public Spot Wi-Fi solutions enable guests to use their own laptop, tablet or smartphone to access the internet.

1. Easy hotspot login for the guests by means of SMS or e-mail (Smart Ticket), printed vouchers, or with their room number and surname
2. Billing of fee-based internet access by hotel accounting system (such as Micros Fidelio or protel)
3. No access to internal data by unauthorized persons thanks to the secure separation of the company and guest networks
4. User-friendly commissioning and configuration thanks to helpf ul setup and configuration wizard

**Free Wi-Fi is a decisive selection criterion for many hotel guests**

83%

*Expedia.de and Egencia: Mobile Index 2014

**Secure wireless networks in administrations**

In administrations today, employees are increasingly using robust wireless network connections to improve processes and increase flexibility. Guests also benefit from high-speed wireless internet that is securely isolated from the internal network. Software-defined networking by the LANCOM Management Cloud guarantees that a common configuration operates on every switch and access point at the various offices.

1. Centralized network orchestration with the LANCOM Management Cloud in compliance with German data protection law
2. Everything from a single source: High-performance VPN routers, Gigabit Ethernet switches and high-speed WLAN access points
3. No access to internal data by unauthorized persons thanks to the strict separation of the internal and guest networks
4. Radio-controlled digital room signs with the LANCOM Wireless ePaper portfolio

**IT SECURITY MADE IN GERMANY**
In a market with a strong presence of American and Asian products, LANCOM offers maximum security “Made in Germany”. The entire LANCOM portfolio is guaranteed to be backdoor-free and the products fully comply with European data-protection regulations.

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**Wireless LAN networks in administrations**

**NO WI-FI, NO STAR**
Since January 2015, a minimum requirement of two-star hotels in Germany and 14 other European countries is to offer wired or wireless internet access in their public areas, such as the lobby or bar. To earn three stars, DSL or Wi-Fi has to be available in the rooms.

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**Public Administration**

**Hotel**

- Guest network
- Internal network

**Conference room**

- Access point
- PC
- Printer
- PMS server
- LANCOM Management Cloud
- Switch
- Router

**Reception**

- Access point
- PC
- Printer
- PMS server
- LANCOM Management Cloud
- Switch
- Router

**Social security office**

- Access point
- PC
- Printer
- Meeting room

**Digital signage**

- Access point
- Switch
- LANCOM Management Cloud

**Data center**

- Access point
- Switch
- LANCOM Management Cloud

**Job center**

- Access point
- Switch
- LANCOM Management Cloud

**Registration office**

- Access point
- Switch
- LANCOM Management Cloud

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*SECURE NETWORKS.*
Wireless LAN in schools and universities

Wireless freedom for modern learning

That students, school pupils, teachers and staff at modern schools and universities should make do without the Internet is unthinkable – they need it even at isolated buildings, preferably via Wi-Fi, and with their own end devices. LANCOM wireless LAN solutions make it easy to implement this type of scenario.

YOUR BENEFITS:

- Encrypted Internet access for professors, students and employees, also in combination with eduroam
- No access to internal data by unauthorized persons due to strict separation of the administrators’, professors’, and guest networks
- Specially suited LANCOM access points for high-speed Wi-Fi in high-density environments
- Automatic WLAN configuration with SD-WLAN via the LANCOM Management Cloud

RESPONSIBLY ONLINE

Educational institutions have a duty to treat pupils and students in a responsible manner, and this also applies to the Internet access they provide. For this reason you should protect your network from abuse from the very start. The LANCOM Content Filter Option ensures this by checking for website categories and blocking the retrieval of sites that offer illegal or other undesirable content.

Wireless LAN in clinics and medical practices

Efficient healthcare facilities

Professional LANCOM IT infrastructures give your healthcare facility numerous advantages: More efficient therapies thanks to faster data access, more convenience for your patients, and faster internal communications. This saves you costs and gives you more time for what is really important – your patients.

YOUR BENEFITS:

- Access points with approvals for operation in medical environments (EN 60 601-1-2)
- Electronic ward rounds with access to patient records
- Provision of guest Wi-Fi access
- Uninterrupted monitoring at any location by transmitting vital signs directly to the nurses’ station
- Automatic configuration of the entire infrastructure by the LANCOM Management Cloud (Private Cloud)
**Outdoor Wireless LAN Solutions**

**Mobile freedom with LANCOM outdoor solutions**

Internet access plays an increasingly important role in the outdoors. Be it at secluded ski lodges, sports stadiums or sprawling campsite – for open areas where wired Internet access is not an option, the ideal solution comes in the form of the outdoor access points from LANCOM. They support applications such as providing a hotspot for your guests, or connecting secluded locations to the central network via point-to-point links. The outdoor portfolio in our rugged IP66 housing stands up to even the most extreme environmental conditions and tolerates temperatures from -33°C to +70°C.

**Solutions for exceptional challenges**

**Outdoor wireless LAN – your options**

The LANCOM outdoor Wi-Fi range of products includes versatile access points and outdoor antennas for establishing wireless LAN infrastructures, which enable flexible applications in open air environments. They provide reliable Wi-Fi coverage over open spaces and offer fast wireless Internet access for visitors or modern enterprise applications. What’s more, LANCOM OAPs are ideal for establishing point-to-point links over long ranges.

**Coverage of open areas**

Even when outdoors, your employees, customers and visitors benefit from high-speed Wi-Fi with LANCOM outdoor solutions operating as per IEEE 802.11ac in the 2.4-GHz and 5-GHz frequency bands.

**Point-to-point links**

Company sites with several building complexes are networked via wireless point-to-point links, over several kilometers if required. So there’s no need for any laborious cable installation or expensive leased lines.
LANCOM Service & Support Products

With the LANCOM service and support products we provide the optimal support and a professional service – whether it be in case of emergency, for network changes after hours, in case of hardware failure or for supporting your projects.

LANCOM Warranty Basic Option
- Warranty extension for LANCOM devices to 5 years

LANCOM Warranty Advanced Option
- Warranty extension for LANCOM devices to 5 years and advance replacement by the next business day

LANCOM Config Service
- Professional support for the configuration of your LANCOM installations

LANCOM Emergency Support
- Short-notice, solution-oriented emergency support with minimum response times

LANCOM Extended Support Times
- On-call support outside of regular business hours

LANCOM Premium Support Access
- Premium support access for optimally secured network infrastructure

LANCOM Enterprise Support Access
- Full-service package for safeguarding networks with more than 100 devices

LANCOM Consulting Day

Our LANCOM trainers are coming to you! You can book our LANCOM experts for Consulting Days at your location. Benefit from both our technical expertise as well as from the convenience of personalized on-site training. These contents are available for your Consulting Day:

- Setup and optimization of your configuration, setup of configuration templates
- Implementation of a rollout
- VPN connectivity between branch offices and the central site
- Central access point management via WLAN controller (WLC)
- Embedding layer-3 tunneling into the existing infrastructure

LANCOM KnowledgeBase

A full text search will find any documents with relevant terms.
LEARN MORE AT: www.lancom-systems.com/knowledgebase

CONSULTING AND BOOKING
We will gladly consult you and make you an offer that fits your needs!
Contact us via:
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LANCOM Support & Training.

LEARN MORE AT: www.lancom-systems.com/support-products
SECURE. NETWORKS.