

HYPER INTEGRATION!

LANCOM Management Cloud



SECURE. NETWORKS.

- › Automated
- › Software-defined
- › Hyper-integrated

LANCOM
Systems

SECURE. NETWORKS.

Challenge Digitalization





A fully functional network is the heart of any business.

And yet installing and managing it is highly complex. The shortage of skilled manpower makes things worse, as qualified network specialists are hard to find. At the same time, the conventional manual configuration is a time-consuming, error-prone, and thus very costly task.

Wouldn't it be great if there were an intelligent, higher instance that automates and controls the entire network from a central location? A kind of hyper-intelligence that networks all of the key components, dynamically responds 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 in terms of its WAN, LAN, WLAN, and Security. State-of-the-art software-defined technology (SD-WAN, SD-LAN, SD-WLAN, SD-SECURITY) drastically simplifies the provision of integrated networks and makes the manual configuration of individual devices a thing of the past. The system adapts dynamically to your requirements, it is future-proof, and offers maximum security.



Maximum agility
and versatility



State-of-the-art
security



Radical time and
cost savings



Highly automated
multi-service networks of
the highest quality





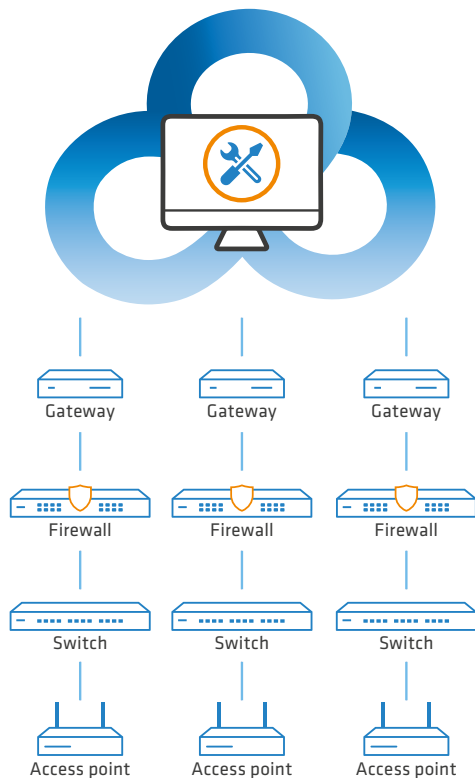
Holistic network orchestration



Hyper Integration means: Fully automated configuration

LANCOM has made the manual configuration of individual devices a thing of the past – software-defined technology (SD-WAN, SD-LAN, SD-WLAN, SD-SECURITY) now delivers fully automated network orchestration. All the administrator has to do is specify the framework conditions for the network's design and security policies.

Auto-configuration and zero-touch deployment implement an automated rollout with maximum security. Complex network configurations, previously the cause of intense manual effort by certified IT professionals, is now reduced to just a few minutes and a few clicks!



SECURE. NETWORKS.

The hyper-integrated **premium portfolio**



Hyper Integration means: Routing, switching, Wi-Fi, security

The LANCOM Management Cloud is a holistic system that controls the entire network infrastructure. This is only possible through a perfectly compatible product portfolio: You can quickly and easily transfer all gateways, all routers, all switches, all access points, and all firewalls to the cloud-based network orchestration for a holistic SD-WAN, SD-LAN, SD-WLAN, and SD-SECURITY.

The easiest way into the Cloud

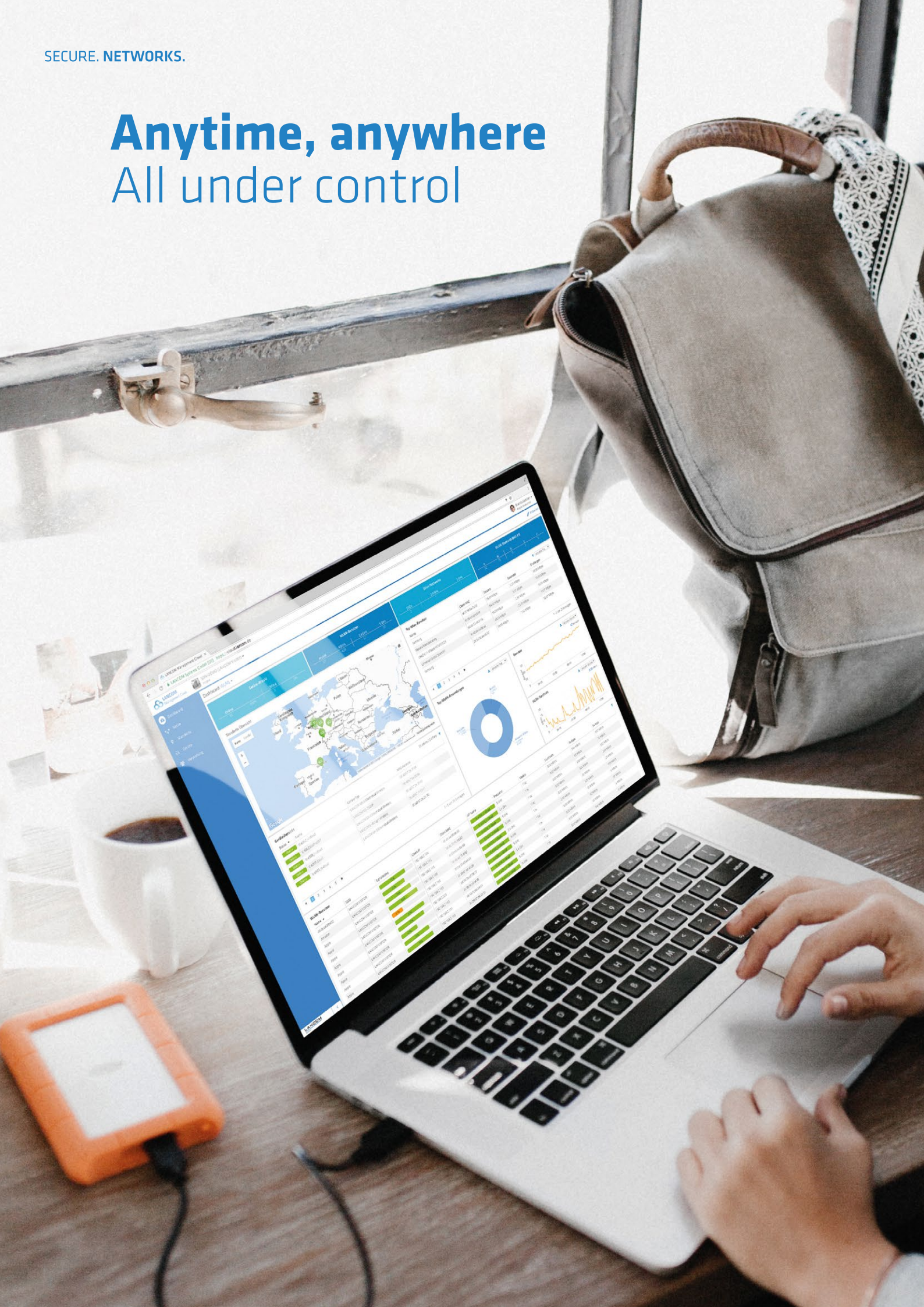
It takes just a few clicks to integrate your devices into the LANCOM Management Cloud – be they new devices or existing infrastructures. You decide whether to switch your entire network over to innovative SD-WAN, SD-LAN, SD-WLAN, and SD-SECURITY, or whether to take it step by step: A gradual transition of your different locations is easy to implement – so take a closer look at the full power of Hyper Integration.



SECURE. NETWORKS.

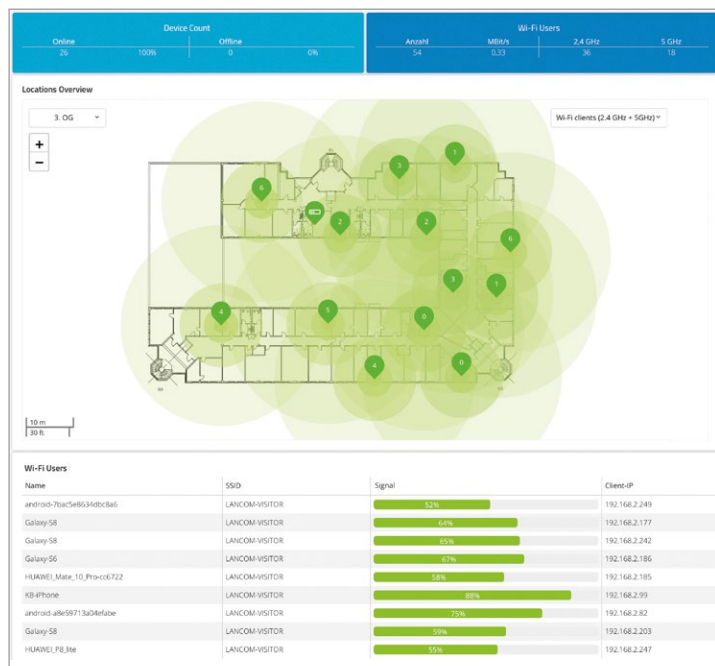
Anytime, anywhere

All under control



Hyper Integration means: Central management & monitoring

The unique combination of state-of-the-art technology and the LANCOM premium portfolio encompasses all segments of the network infrastructure – the WAN, the LAN, the WLAN, and the security policies active on the network. These help you to create highly integrated, company-wide network scenarios at the click of a mouse: Interconnect your locations, home offices, and field staff, for instance. Define Wi-Fi networks for internal user groups or hotspots for guests. You can ensure maximum network security, for example through the central management of device passwords, content and application filtering, and protection from malware and viruses*. All of this is centrally designed, rolled out, and monitored with just a few clicks – a web browser is all you need. Furthermore, you benefit from around-the-clock monitoring, diagnosis, and troubleshooting. You are constantly aware of any events or errors on the network, which helps with the immediate detection and rectification of problem sources. This saves valuable time and eliminates the need for manual reactive checks on network performance – and ensures that your data is fully protected at all times.



* Integration in 2019

The right solutions **for different needs**



Public Cloud

For any scale of installation, hosted centrally and securely in Germany

Private Cloud

For system vendors, service providers, and large enterprise installations

SecurITy

TeleTrust Quality Seal
www.teletrust.de/tsmlg

made
in
Germany



Hyper Integration means: Public Cloud or Private Cloud

You decide: Either you use the central and securely hosted Public Cloud based in Germany, which offers maximum scalability and data security for installations of all sizes.

Or you host the system yourself on the LMC Private Appliance. This is the ideal solution for observing corporate security policies that requires the operation of a private cloud without missing out on the features and convenience of the LANCOM Management Cloud. It allows companies to operate the LANCOM Management Cloud at their own data center or on-premises, without sharing an infrastructure with other client organizations. The solution package consists of a powerful hardware appliance, an installation service, and software maintenance by LANCOM Systems.

Hyper Integration means: New licensing possibilities

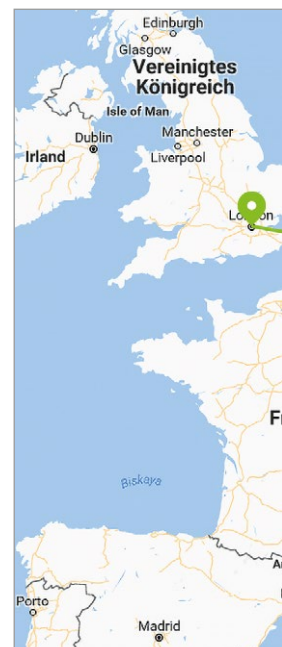
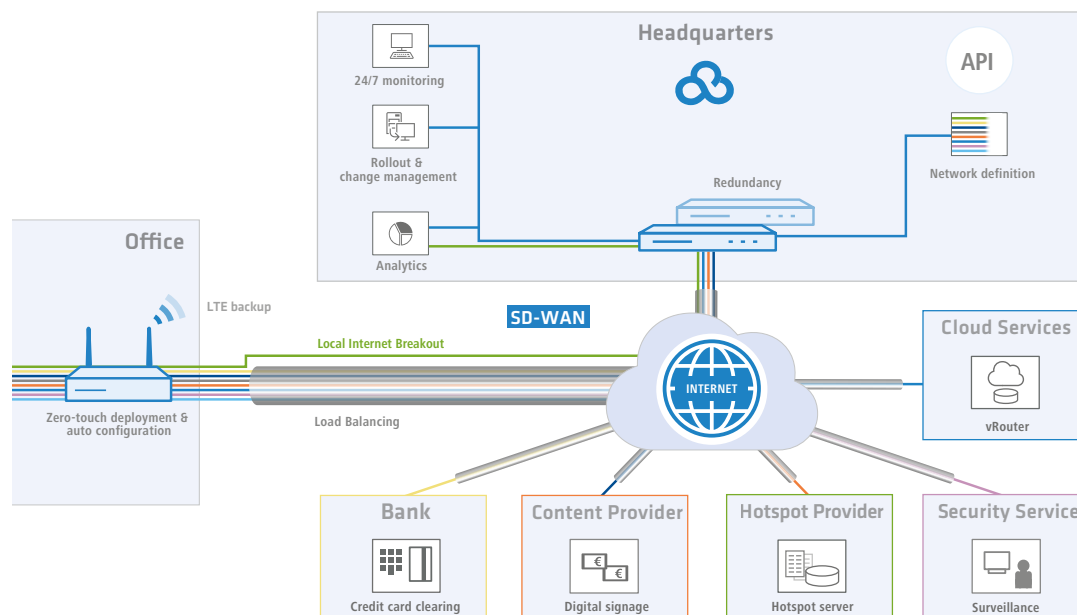
IT networks are often implemented using the conventional, static CAPEX model, i.e. the system vendor is involved in the planning of the network and the necessary hardware is then procured and put into operation. Later changes or upgrades are laborious and require the on-site presence of network specialists. In contrast to this static approach, the LANCOM Management Cloud not only makes your network agile, future-proof and easily expandable: it also provides license models that are billed as operating costs (OPEX) and that flexibly adapt to your requirements.

SD-WAN



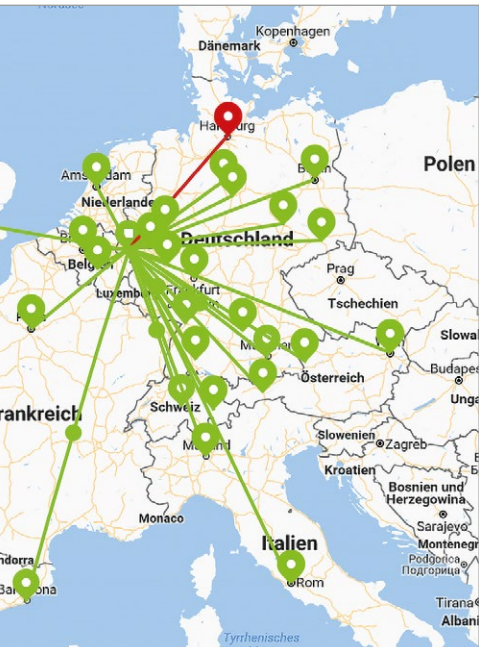
A software-defined wide area network (SD-WAN) replaces conventional, static, manually configured network infrastructures. As digitalization demands ever-higher bandwidths, highest network availability, maximum data security, and fast time-to-service requirements, an SD-WAN offers significant advantages for the networking of distributed enterprise sites. It uses Internet-based simple wide area networks (WANs) to rapidly provide digital services and multi-service networks. At the same time, it counteracts the shortage of skilled workers that is affecting the entire IT industry: On-site visits by qualified technicians at multiple company locations are no longer necessary.

SD-WAN application scenario





VROUTER
(LANCOM VIRTUAL ROUTER)

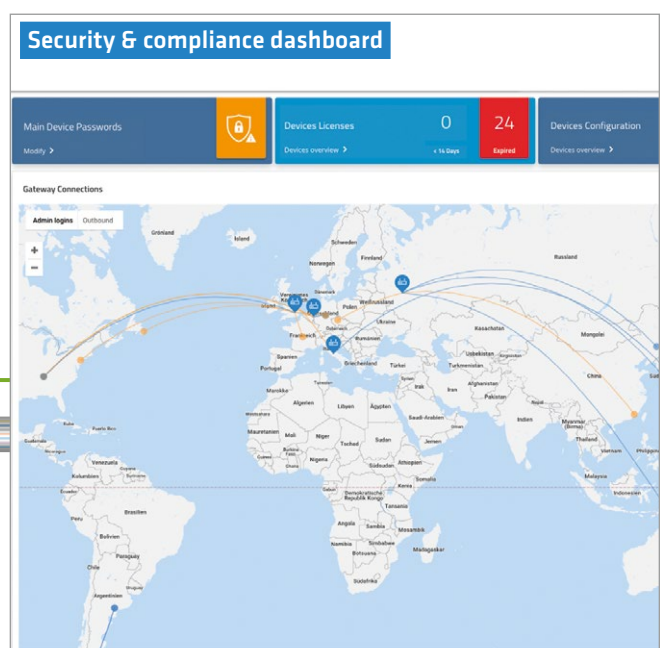
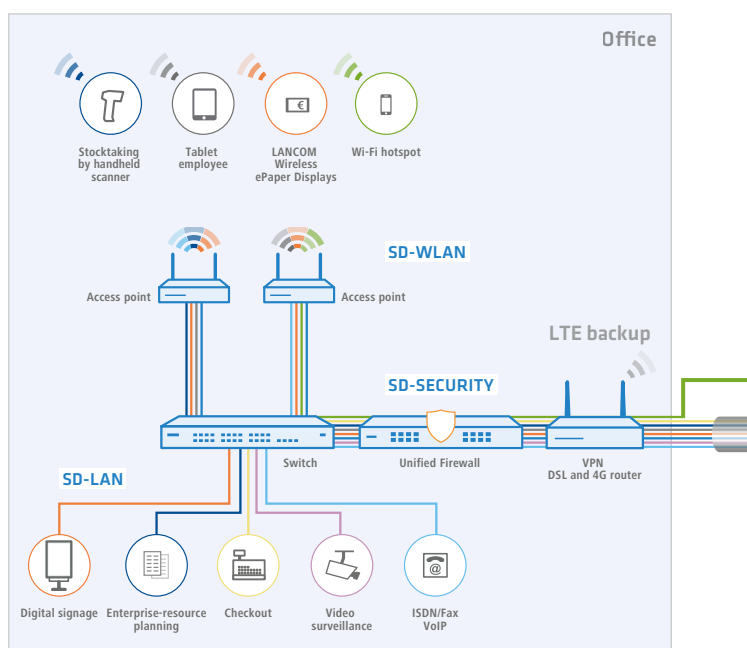


+ Create new network						
STATUS	NAME	IP RANGE	VLAN	INTERNET	VPN	HOTSPOT
Active	Alarm	10.6.0.0/16	6	✓	✓	—
Active	Intranet	10.8.0.0/16	8	✓	✓	—
Active	Hotspot	10.100.0.0/16	100	✓	—	✓
Active	Digital Signage	10.2.0.0/16	2	✓	✓	—
Active	ERP	10.1.0.0/16	untagged	✓	✓	—
Active	Voice	10.5.0.0/16	5	✓	—	—
Active	Management	10.3.0.0/16	3	—	✓	—
Active	DevOps	10.7.0.0/16	7	✓	✓	—
Active	Procurement	10.4.0.0/16	4	✓	✓	—

SD-SECURITY

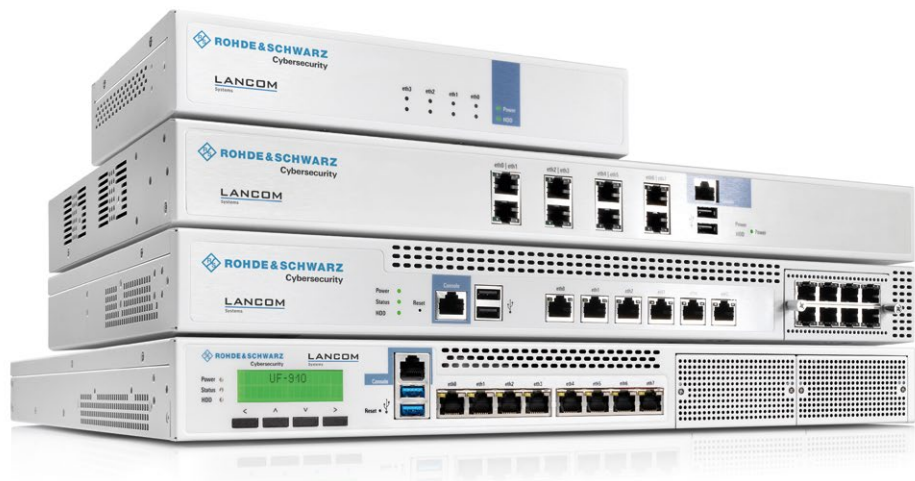
Software-defined Security (SD-SECURITY) enables the central administration of network security, compliance, and optimal bandwidth usage requirements across all network components. Security features of cloud-managed next-generation UTM firewalls and other network components such as routers are provided at all locations in a highly automated manner. A clearly structured, intuitive interface allows defined user groups to block individual applications or website access, or allow direct access. Sensitive Internet traffic can be allowed via a VPN connection to the company headquarters or, if required, supplemented with cloud-based UTM functions via a local break-out.

Cloud-managed Security



Security

made
in
Germany



Security definition in the LMC

LANCOM Management Cloud | My Company Projects

Networks

Status	Name	IP range	VLAN	Internet	VPN	Hotspot
Active	Alarm	10.6.0.0/24	6	✓	—	—
Active	Digital Signage	10.7.0.0/16	7	✓	—	—
Active	Intranet	10.10.0.0/16	10	✓	✓	—
Active	Management	10.0.0.0/16	untagged	✓	✓	—
Active	Printer	10.18.0.0/16	18	✓	—	—
Active	Secure	192.168.0.0/16	20	✓	—	—
Active	Video	10.128.0.0/24	128	✓	—	—
Active	Visitor	10.172.0.0/24	172	✓	—	✓
Active	VoIP	10.17.0.0/16	17	—	✓	—

Overview | Wi-Fi | Switches | Application Management | Add ins | Variables

Please select an application to create a rule:

Search for applications

☒ Applications

Application: **WhatsApp**

Action: **Steer**

Comment:

Only applications supported by LCOS will be steered

Routing target: **Local internet gateway**

☒ Applications

Application: **Dropbox** **Amazon Prime Video**

Action: **Block**

Comment:

Cloud-based Security by Zscaler*

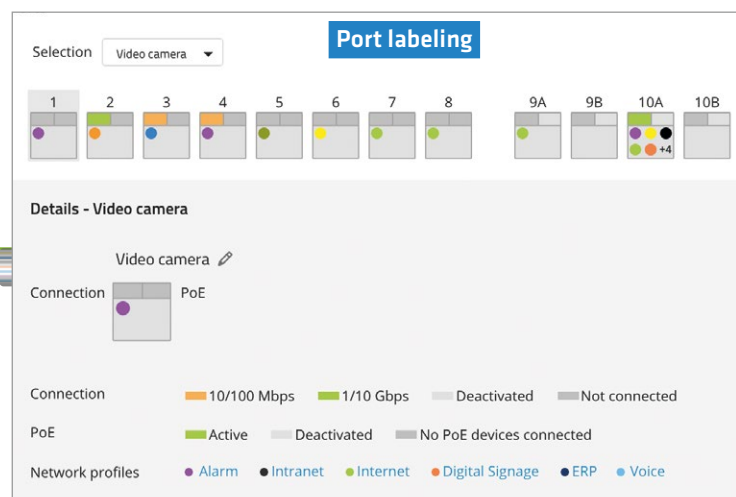
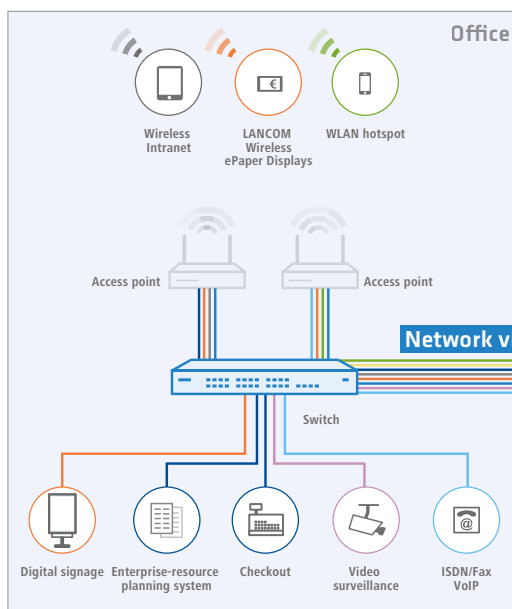
- > Cloud-based firewall features (antivirus, sandboxing, application control, bandwidth restriction)
- > No additional security appliances required at the sites
- > Real-time cloud updates for continual up-to-date protection
- > Data Loss Prevention (DLP)

* only for major customers & enterprise projects, separate Zscaler account mandatory

SD-LAN

Short for software-defined local-area network, an SD-LAN supports the automated, dynamic, and secure provisioning of any type of multi-service network on switch ports. What used to be the extremely time-consuming and error-prone configuration of individual switches is now fully automated. For multi-site switch configurations, the required networks (VLANs) are defined once only, they are then assigned to the desired switch ports and made available by all of the switches on the network. You additionally modify the individual switch configurations with the user-friendly graphical VLAN assignment. An SD-LAN not only saves your valuable time, it completely eliminates manual configuration errors.

SD-LAN application scenario





Graphical VLAN assignment

Network profiles

- ☐ Default
- ☐ Deactivated

Untagged network

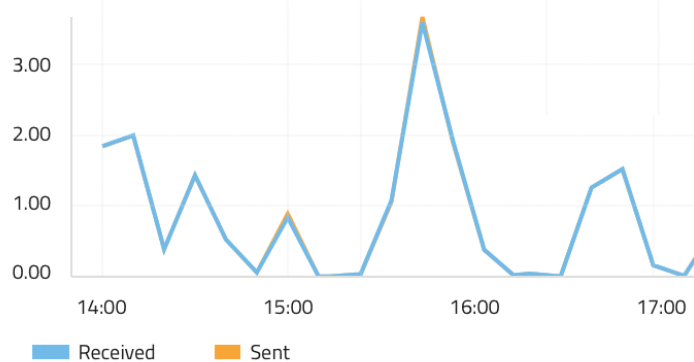
Port VLAN ID

- ☒ Alarm (VLAN 5)
- ☐ Intranet (VLAN 1)
- ☐ Internet (VLAN 2)
- ☐ Digital Signage (VLAN 10)
- ☐ ERP (VLAN 5)
- ☐ Voice (VLAN 12)

Port monitoring

Total Throughput (Mbps)

Hour Day Week

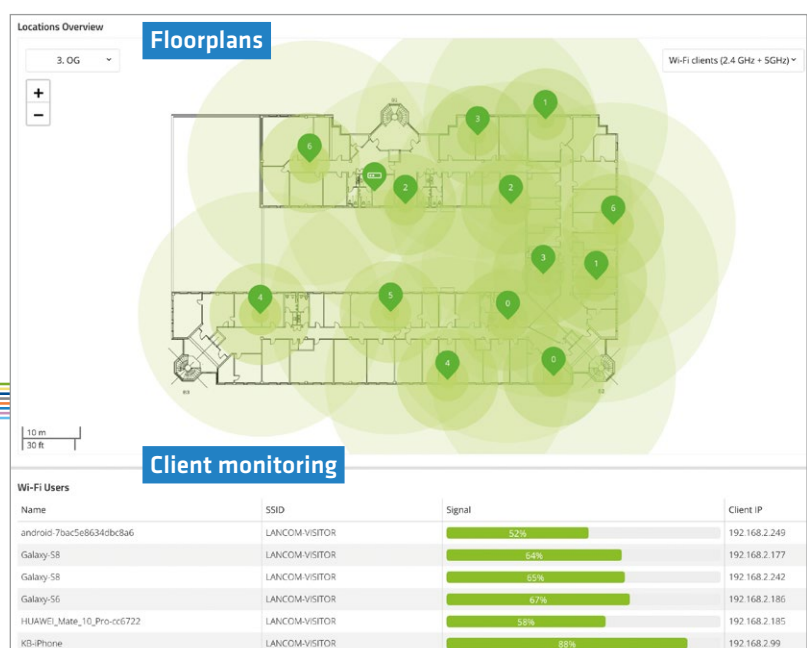
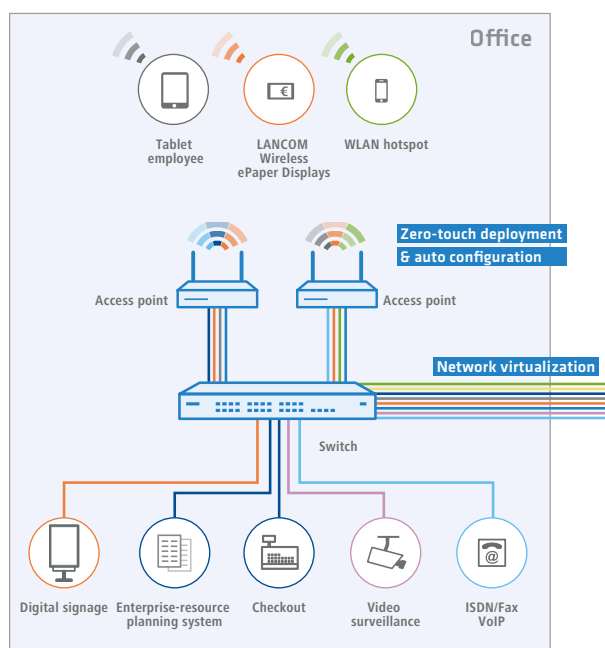


SD-WLAN



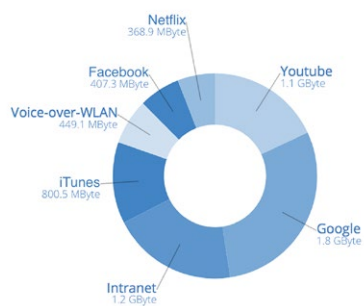
A software-defined wireless local-area network (SD-WLAN) combines the features of conventional WLAN controllers and cloud-managed Wi-Fis and supplements these with maximized automation and agility. Additional access points or new applications such as hotspots are easily integrated into the network, taking full account of all network policies relating to VLANs, security, bandwidth management or client management. At the same time, an SD-WLAN offers administrators a graphical all-around view of the Wi-Fi status as well as the application-level and client-level loads on the entire network – prerequisites for proactive, around-the-clock troubleshooting.

Cloud-managed Wi-Fi

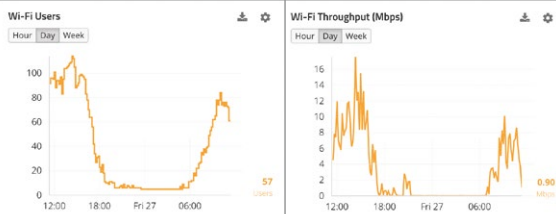




Layer-7 application detection



Usage statistics



WLAN hotspot

Image for desktop view



Select image

Image for mobile view



Select image

Login

☒ Show custom text on login page

German

Login text

Description text

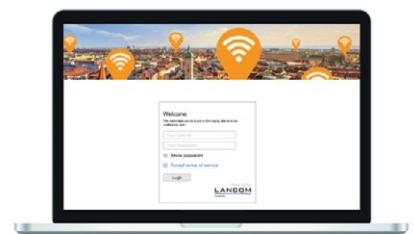
☒ Activate login with username and password

Username

public

Password

Preview

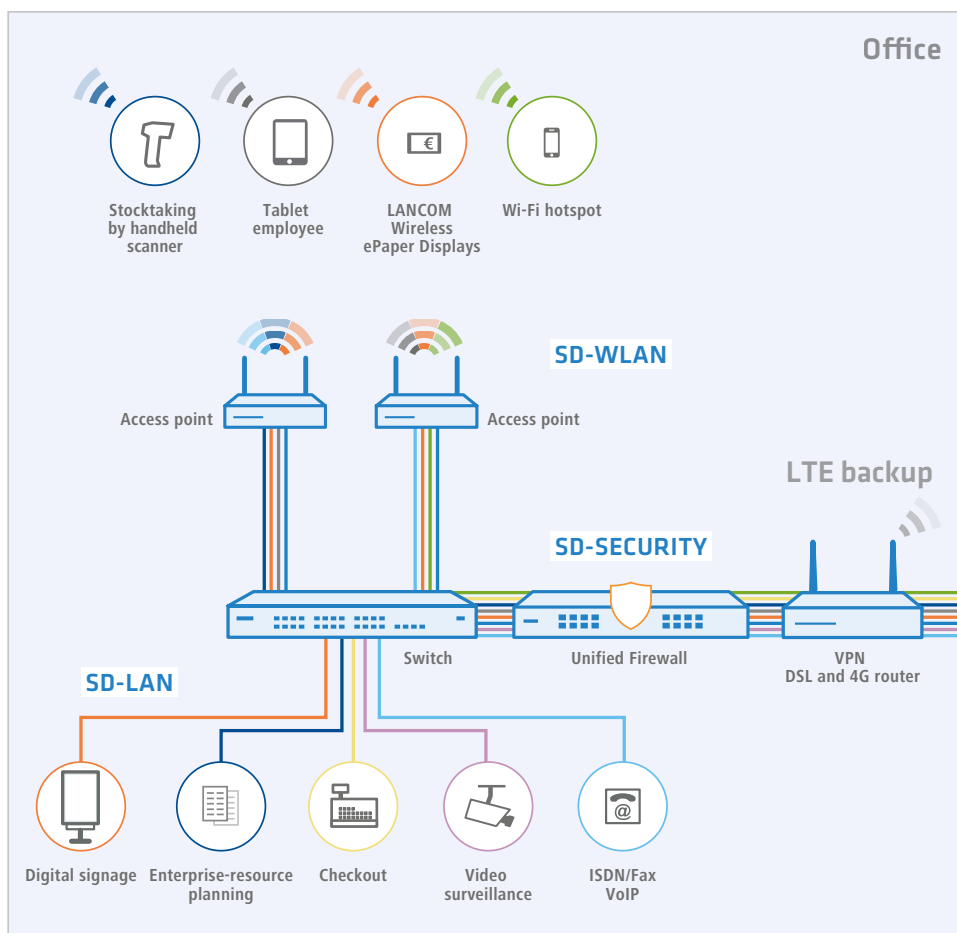
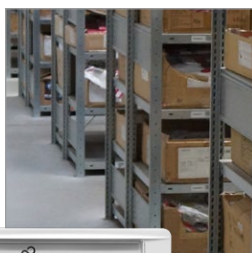


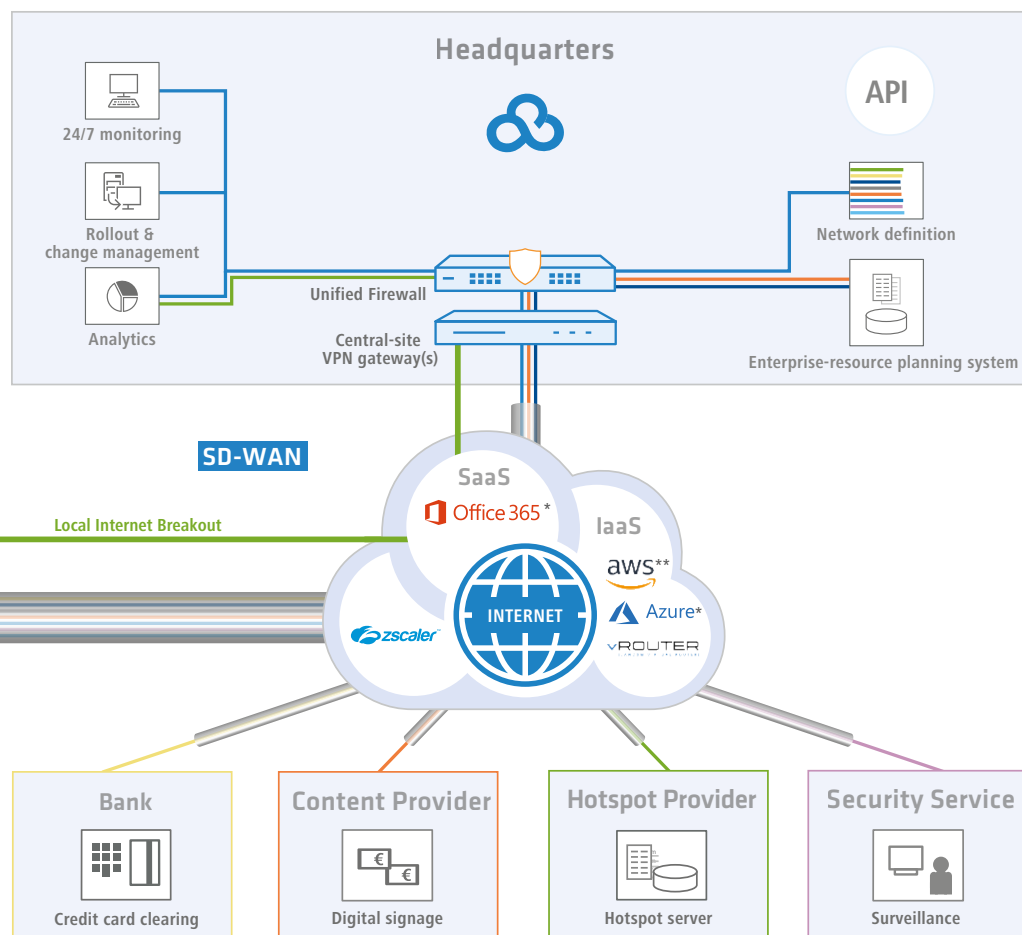
Mobile view

LANCOM Hyper Integration Software-defined Branch



Hyper Integration means combining SD-WAN-, SD-LAN-, SD-WLAN, and SD-SECURITY functionalities in one cloud-based management system. Through this, enterprises with many branch offices benefit from maximum automation, security, agility, and quality of your network operation. We call this: SD-Branch.





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Our Inside Sales Team is ready to help you.**

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