

Feature Notes

LCOS 10.12

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[LANCOM OPERATING SYSTEM]



LCOS 10.12



Full power for your network!

LCOS 10.12

Look forward to the new LCOS 10.12 – the power package for extremely high-performance network connectivity. Among many other improvements, take advantage of our highlight features for:

- › **More VPN performance and security** – thanks to modern encryption mechanisms (AES-GCM) and elliptical Diffie-Hellman groups (ECDH) for IKEv2
- › **Maximum VPN availability** – thanks to extended VPN backup mechanisms
- › **Highest reliability in your LAN** – thanks to virtual bundling of Ethernet ports (LACP)
- › **Judder-free IPTV streaming in your Wi-Fi** – thanks to the conversion from Multicast to Unicast datastreams

HIGHLIGHT More VPN performance and security

Future-proof IKEv2-VPN connections

- › Modern encryption mechanisms (AES-GCM)
- › New Diffie-Hellman groups (ECDH)

For...

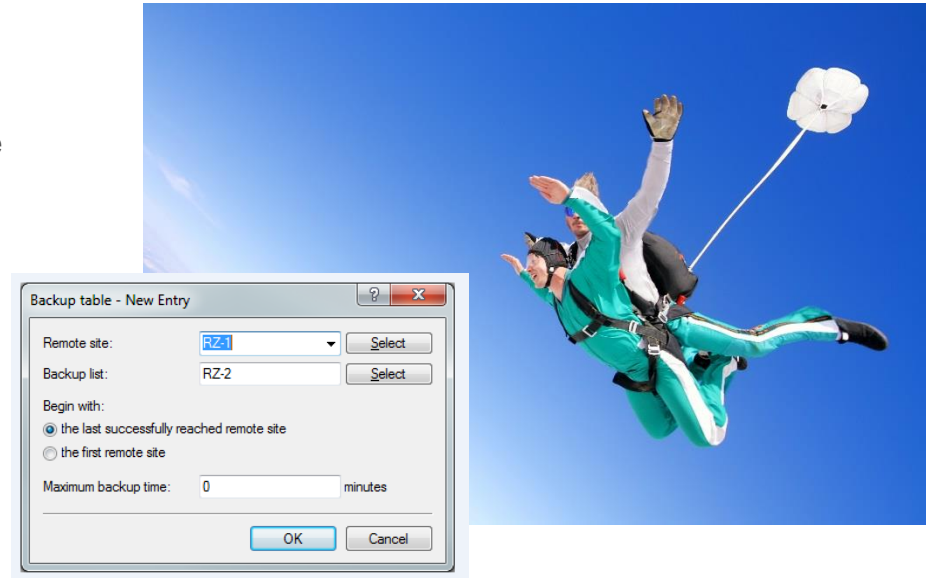
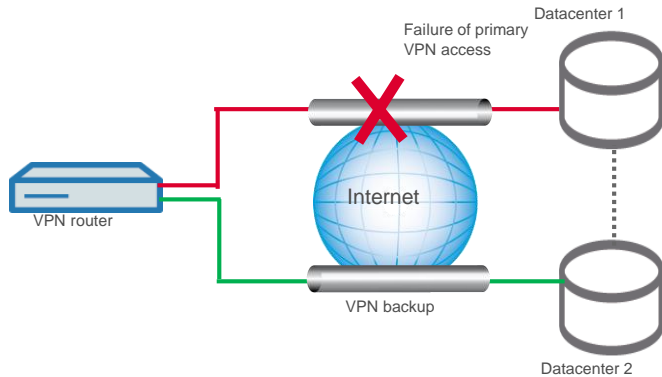
- › “State-of-the-art security”
- › The implementation of VPN scenarios with greatest efficiency and encryption performance



HIGHLIGHT Maximum VPN availability

Failure of the primary connection? No problem!

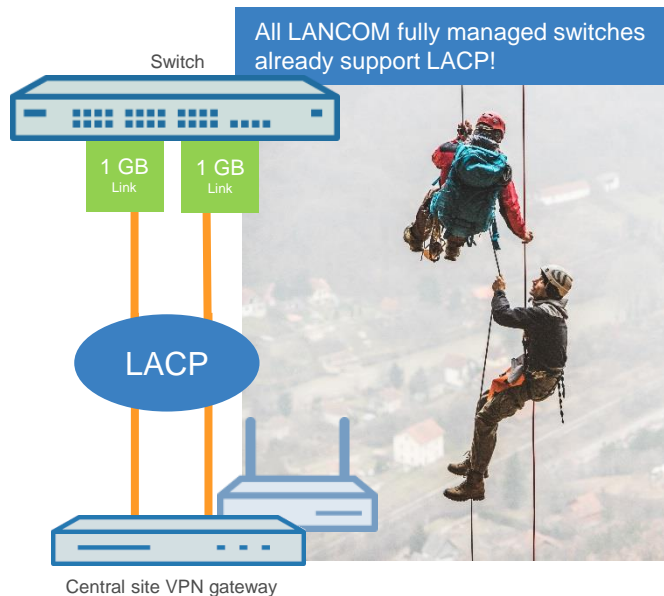
- Setting up VPN backups – fast and easy
- If the VPN connection from a branch office to the primary datacenter should fail, a VPN tunnel to the secondary datacenter is established automatically



HIGHLIGHT LACP (Link Aggregation Control Protocol)

Virtual bundling for high failure safety

- Failure safety due to the bundling of Ethernet connections to one virtual link
- Enables the implementation of redundant connections (if one physical link fails, data transfer will be maintained via the other cable)
 - Ideal for LANCOM central site VPN gateways
- Increased transmission speed for redundantly connected devices
 - Ideal for access points of the LN-17xx series



HIGHLIGHT Conversion from Multicast to Unicast

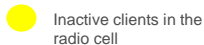
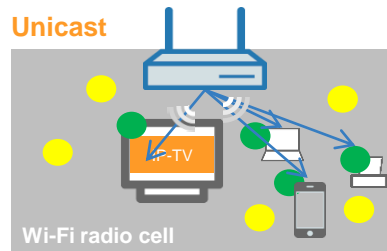
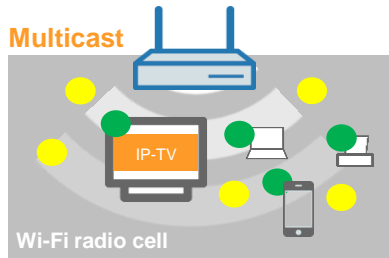
Judder-free IPTV via Wi-Fi with Unicast



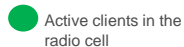
HIGHLIGHT Conversion from Multicast to Unicast

Improved reliability of IPTV services

- Conversion from Multicast to Unicast for significantly improved quality and speed when using IPTV services via Wi-Fi
- Shorter transmission times – Less exploitation of airtime which, in turn, will be available for other active Wi-Fi clients in the network



Inactive clients in the radio cell



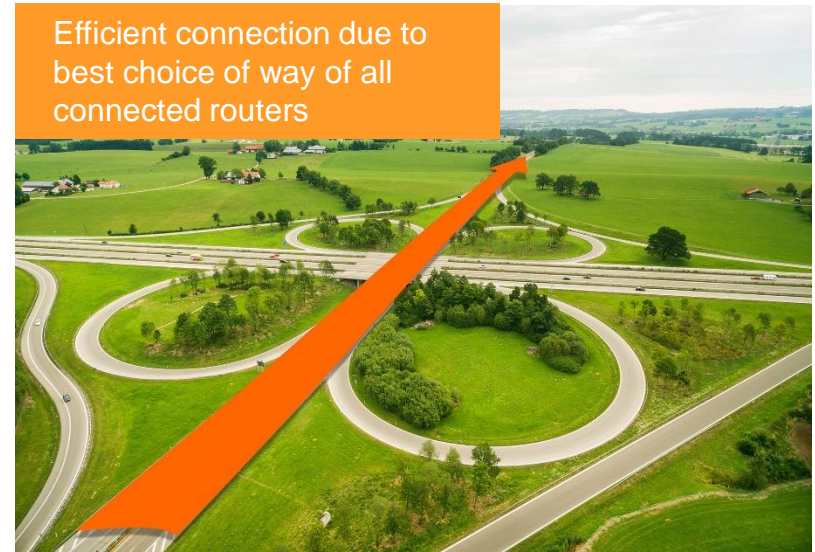
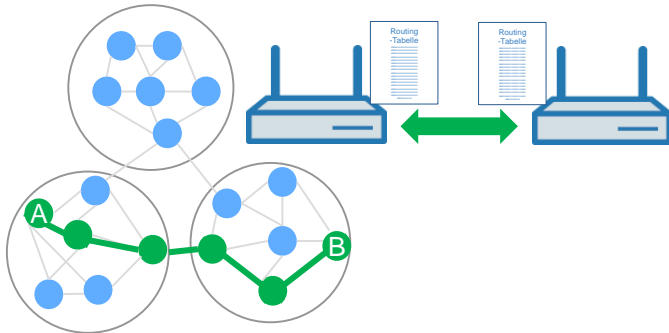
Active clients in the radio cell



OSPF (Open Shortest Path First)

Dynamic Routing for efficient site connectivity

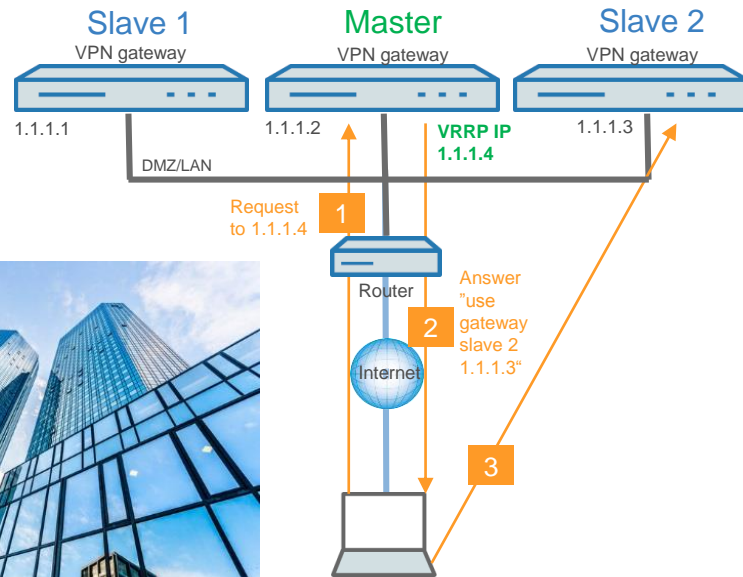
- Efficient, dynamic routing within a network
- Best path selection for all connected internal routers due to the exchange of the best paths from their routing table



IKEv2 Load Balancer

Even load distribution of VPN tunnels in large enterprise scenarios

- › Enables the setup of highly available clusters of central site VPN gateways via VRRP
- › Load Balancer distributes IKEv2 clients equally on individual central site VPN gateways in the cluster
→ even workload for all resources



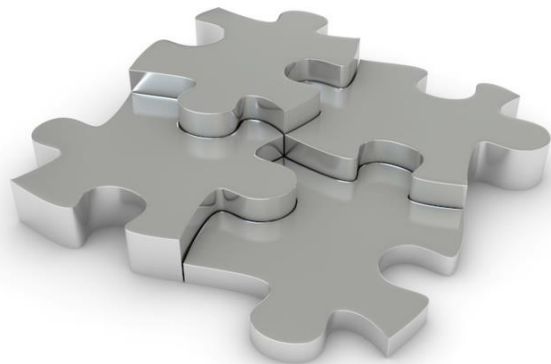
Further features

VPN setup wizard for IKEv2

- › The convenient wizard for setting up secure VPN connections via LANconfig now supports the protocol IKEv2. On top of that, the VPN wizard also enables 1-click configurations of the LANCOM Advanced VPN Client for IKEv2 connections.

LANCOM Content Filter – more options, more security

- › An extension of selectable categories to block web contents grants you now even more security against unwanted Internet misuse in your network. Furthermore, the LANCOM Content Filter now enables to filter IPv6 web content.



Further features

Public Spot for the LANCOM vRouter

› Now there is even more in your LANCOM vRouter – an already integrated LANCOM Public Spot Option. A real added value, you benefit from attractive access for your guests to the Wi-Fi infrastructure, for free and without any additional activation. The maximum number of users depends on the purchased license level and ranges from 128 parallel Public Spot users (vRouter 50) to an unlimited number of clients (vRouter unlimited).

Smart Ticket/ SMS: Whitelist for dialing codes

› More security for the Smart Ticket functionality in the Public Spot: Having already been able to allow and block country codes, you can now do the same with individual area codes. This way the abuse of expensive value-added numbers when requesting access to your Public Spot is prevented.

LCOS 10.12

The LCOS promise

The free operating system LCOS (LANCOM Operating System) is the in-house closed-source firmware for the entire core portfolio of products from LANCOM Systems GmbH. **LCOS is developed at our headquarters in a maximum security zone** that is certified by the BSI (the German Federal Office for Information Security). **Several times a year LCOS benefits from software updates** with new features and enhancements. Moreover, the **quality seal "IT Security Made in Germany" (ITSMG)** from an independent authority guarantees that **LCOS is free from backdoors**. LCOS constantly undergoes quality testing so that it offers the **highest degree of reliability** for professional network infrastructures. Thanks to hardware that is dimensioned for the future, LANCOM products are designed for a **long service life** and support of the latest versions of LCOS. Even our older devices that no longer support current versions of LCOS are, when necessary, provided with bug fixes that are based on the latest available firmware. LANCOM offers **unbeatable safeguarding of your investment**.



Thank you
for your attention!

LANCOM 1781WA-AC