



LANCOM
SYSTEMS

Feature Notes

LCOS 10.90





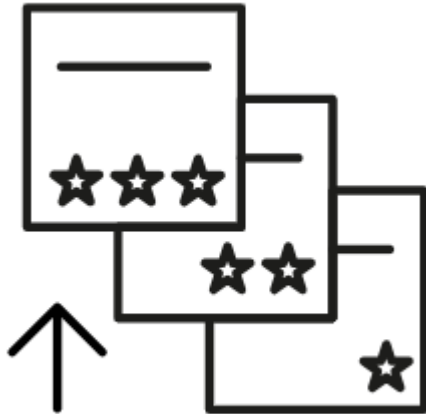
LCOS 10.90

More operational security and future-proofing for your SD-WAN

LCOS 10.90 makes your SD-WAN even more powerful and secure. With the ability to configure up to eight Quality of Service queues (QoS queues), business-critical services will always receive the necessary bandwidth. At the same time, you're taking the first steps toward protecting against future threats from quantum computers: post-quantum preshared keys for IKEv2 help safeguard your VPN connections against potential attacks today. Additionally, MOBIKE for IKEv2 ensures seamless VPN stability when switching networks—without the need to reconnect. And VRRPv3 for IPv6 enables reliable router redundancy and guarantees maximum fail-safety even in mixed operation with IPv4 and IPv6.

Highlight

Support for eight QoS queues



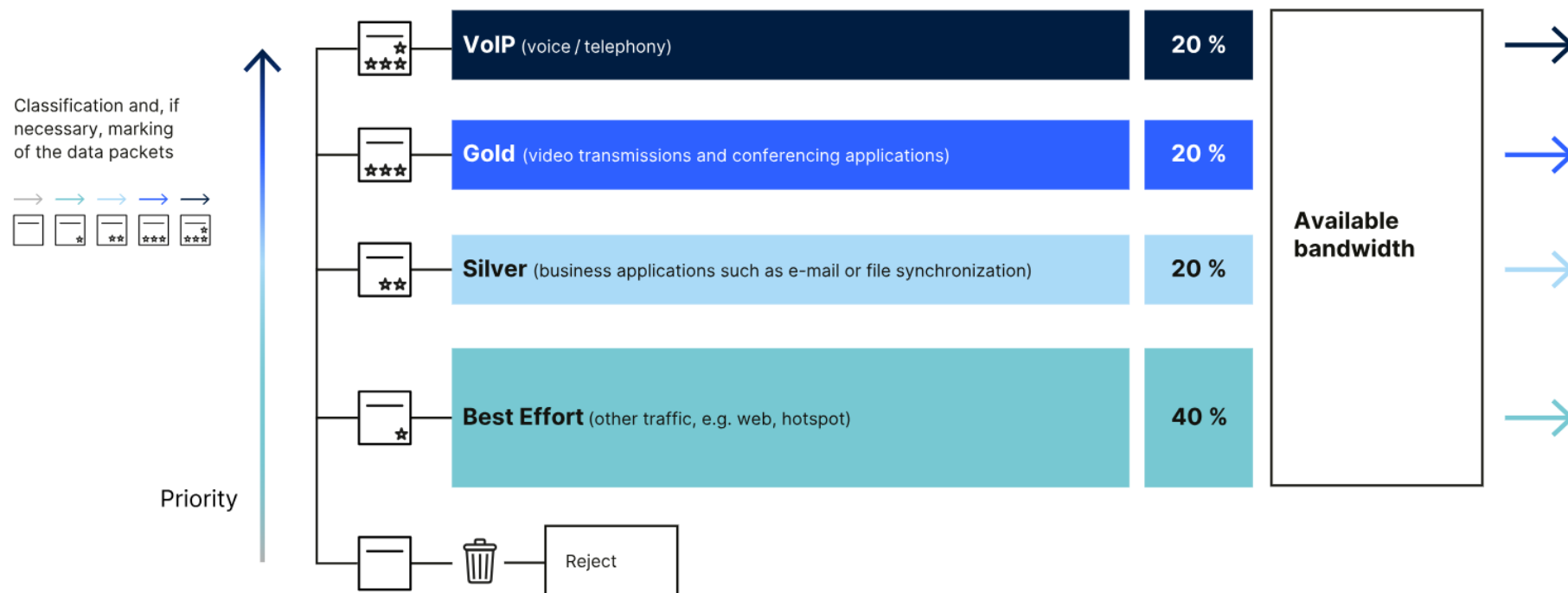
Ensuring business-critical applications

- Up to eight different queues (service classes) with priority levels can be defined for network applications
- Ensures that important services such as VoIP or video calls receive sufficient bandwidth even when the network is heavily utilized

Highlight

QoS Queues - Functionality

Queues

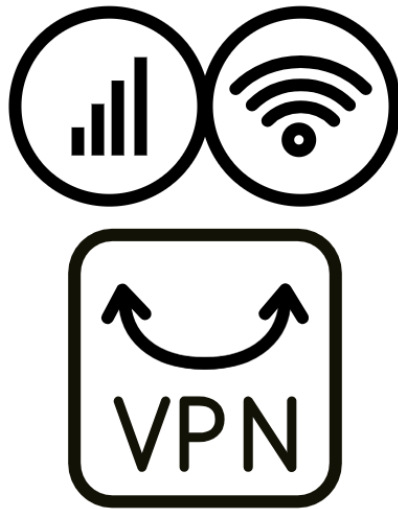


- Upload bandwidth is configured per service class in percent or Mbps
- Data packets are assigned to a QoS class using DSCP markings or firewall rules
- Gateway sorts packets into the correct priority level



Highlight

MOBIKE in the VPN



For accelerated roaming

- The MOBIKE extension for IKEv2 allows VPN clients to seamlessly roam between networks (e.g. from Wi-Fi to cellular) without having to reestablish the VPN tunnel
- LANCOM Advanced VPN Client and Trusted Access Client send an update message with the new IP address to the SD-WAN gateway when switching networks
- The result: No interruptions during VPN roaming, the connection remains stable

Highlight

Post-quantum preshared keys in IKEv2

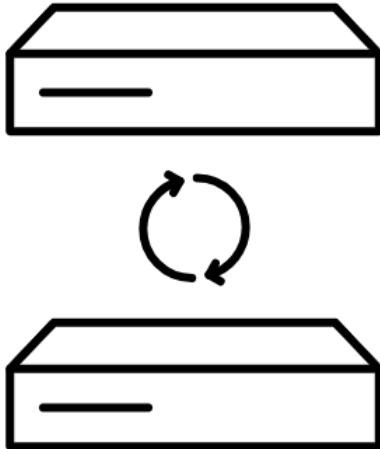


Proactive against quantum computers

- Post-quantum preshared keys (PQ-PSK or PPK) for IKEv2
 - Technology adds additional security mechanisms for the encryption of VPNs
 - Prevents VPNs from potential attacks by quantum computers already now
- **LCOS outlook with foresight:** Gradual introduction of additional functions to protect networks against future quantum computer attacks

Highlight

VRRPv3 for dual-stack networks



For maximum reliability

- VRRPv3 for IPv6 enables to implement router redundancy in IPv6 networks or in dual-stack environments (simultaneous use of IPv4 and IPv6)
- This increases operational security, as if one router fails, another can automatically take over
- Ideal for modern networks that support both IPv4 and IPv6, as it ensures seamless redundancy in both protocols



Further improvements

- With LCOS 10.90, the router can **dynamically assign VLANs via RADIUS to IEEE 802.1X clients on the LAN**. Complex physical infrastructure, such as dedicated switches, is not required to perform VLAN separation and assignment. Since the router handles the entire LAN security structure, this feature is ideal for small locations.
- Many other improvements for the administration and operation of modern networks

A man with glasses, wearing a blue long-sleeved shirt and khaki pants, is walking through a server room aisle. He is smiling and leaning his right hand on a server rack. The room is filled with rows of server racks, and the floor is made of light-colored tiles. A blue circular graphic is overlaid on the left side of the image.

Thank you!