

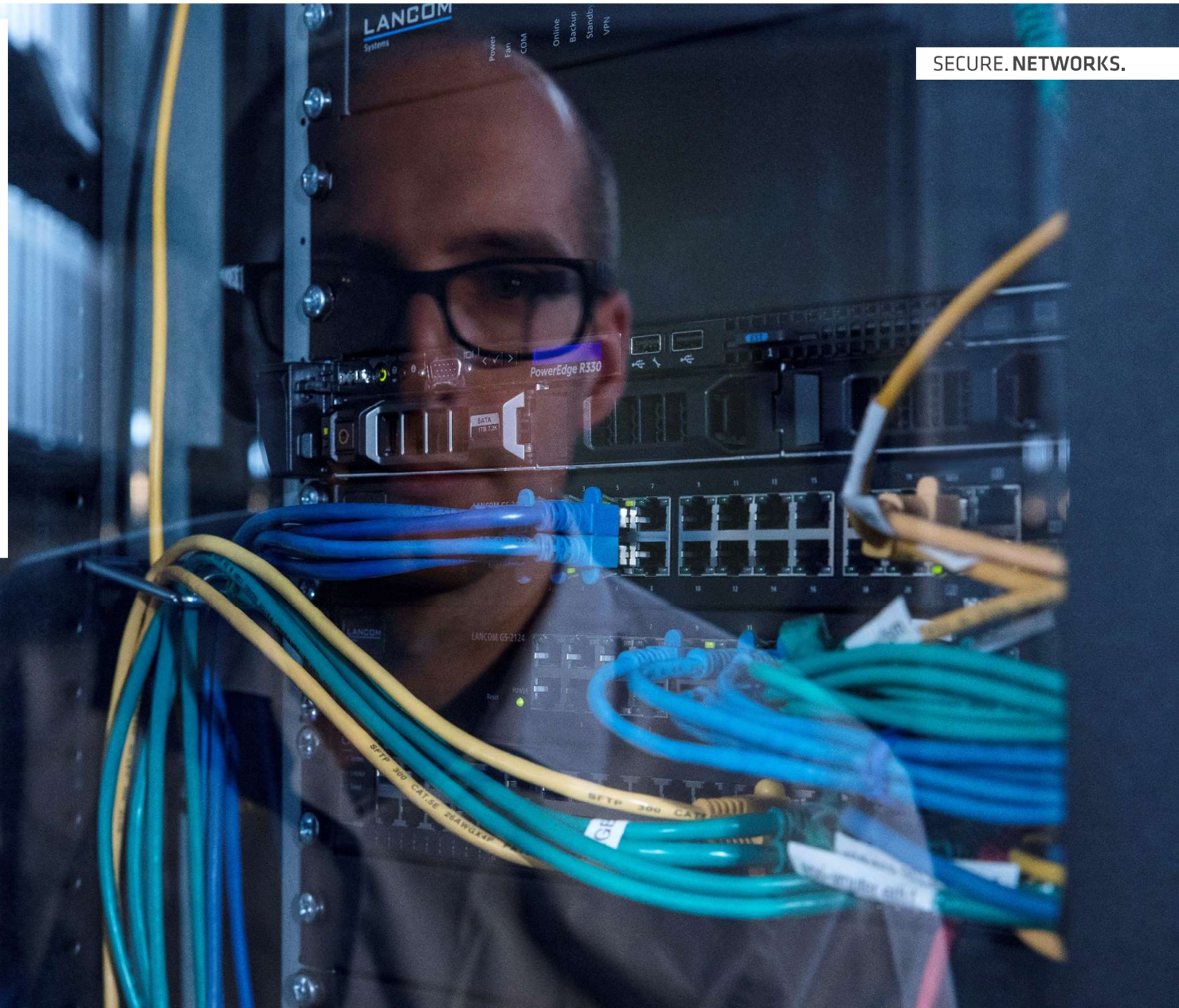
LANCOM
Systems

FEATURE NOTES

LCOS 10.20

LCOS 10.20

SECURE. NETWORKS.



LCOS 10.20

THE POWER PACKAGE FOR WI-FI AND NETWORK CONNECTIVITY!

Benefit from:

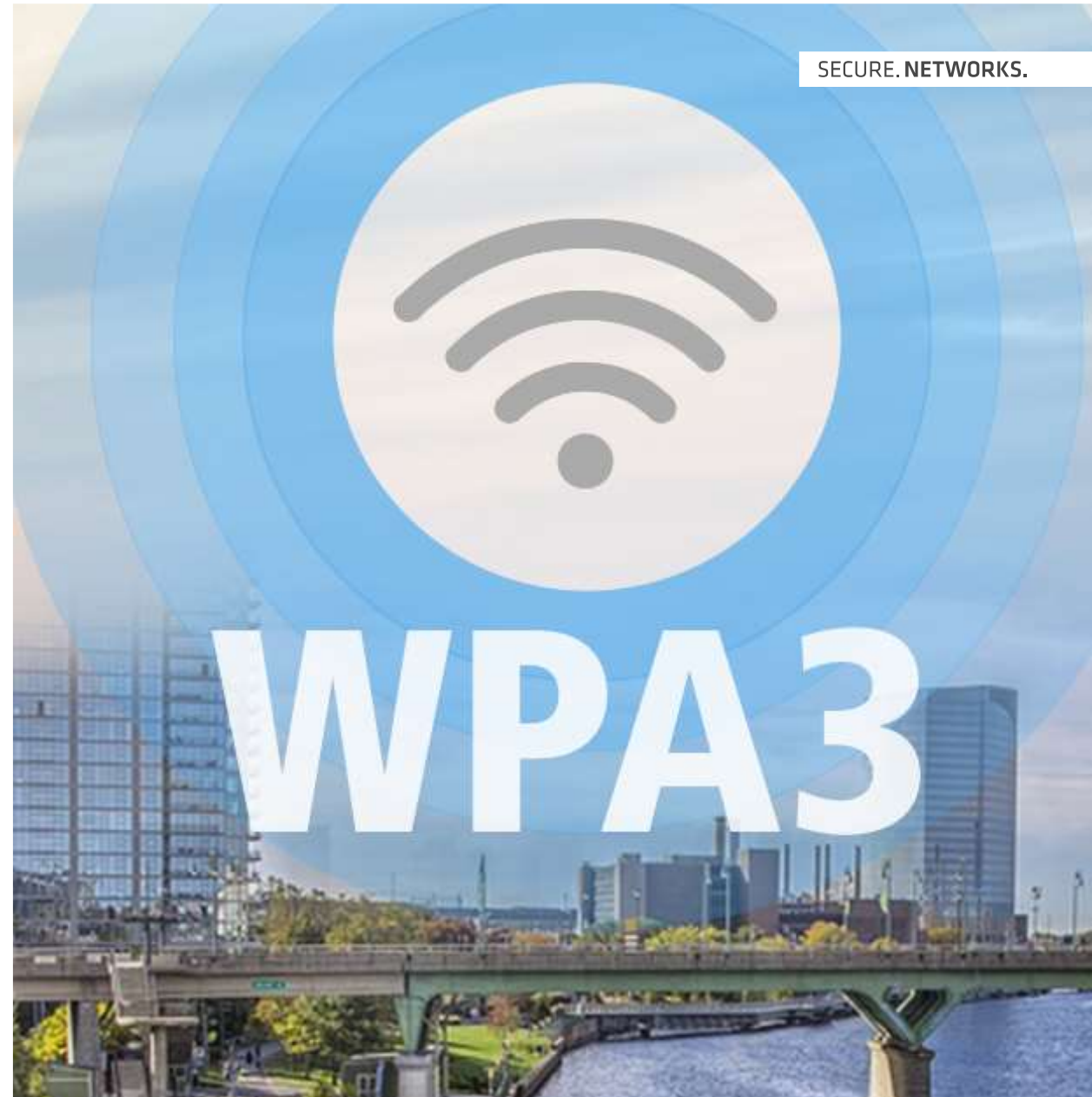
- **State-of-the-art Wi-Fi security** – Secure encryption via WPA3
- **Best Wi-Fi** – Top quality in the wireless network due to Client Management
- **More Wi-Fi control** – Individual Wi-Fi passwords for clients with LEPS-U and LEPS-MAC
- **Always up to date** – Automatic LCOS updates thanks to the Auto Updater
- **More flexibility** – Easy use of NAT in firewall rules



WPA3 ENCRYPTION

STATE-OF-THE-ART WI-FI SECURITY

The latest generation of Wi-Fi encryption - WPA3 (Wi-Fi Protected Access) - now offers you more security for your WLAN infrastructure. As the successor of WPA2, WPA3 offers important extensions and security features for small ("WPA3-Personal") and large networks ("WPA3-Enterprise").

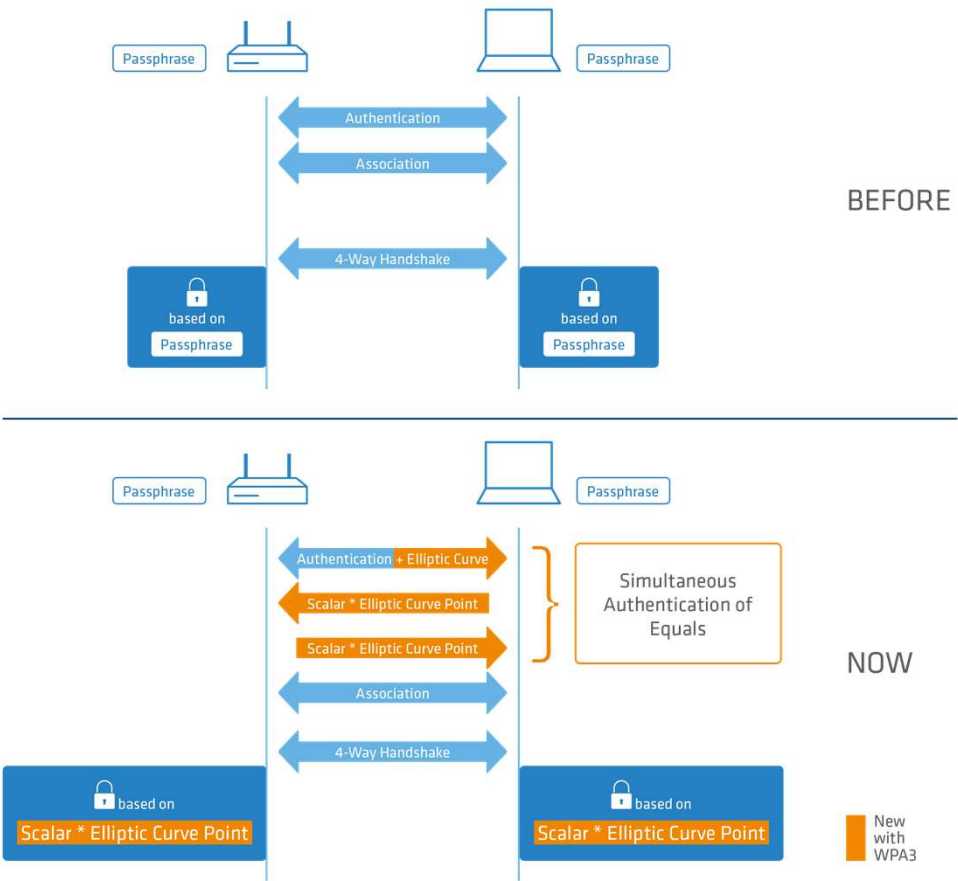




WPA3 ENCRYPTION

MORE WI-FI SECURITY

- Secure negotiation of session keys between access point and client using SAE (Simultaneous Authentication of Equals)
- SAE prevents offline attacks and offers Perfect Forward Secrecy
- Protected Management Frames to protect against attacks by fake WLAN management packages



HIGHLIGHT

LEPS-U / LEPS-MAC

FULL ACCESS CONTROL FOR YOUR WI-FI

Keep control of who is in your Wi-Fi. With LEPS-U (LANCOM Enhanced Passphrase Security – User), individual clients or entire groups each receive a unique Wi-Fi password for an SSID. Using LEPS-MAC, you additionally authenticate the clients by their MAC address—ideal for secure corporate networks.

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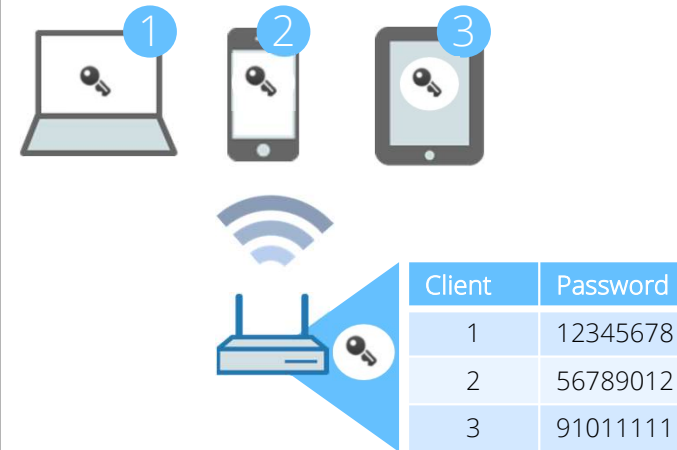
LEPS-U / LEPS-MAC

MORE CONTROL FOR YOUR WI-FI USER MANAGEMENT

- With LEPS-U (LANCOM Enhanced Passphrase Security – User), individual clients or entire groups each receive a unique Wi-Fi password for an SSID → Enables individual management of clients
- Furthermore: LEPS-MAC authenticates the clients by their MAC address

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LEPS-U



LEPS-MAC



HIGHLIGHT

AUTO UPDATER

ALWAYS UP-TO-DATE

If desired, LANCOM devices can search for new software updates, and download and install them without any user interaction. You can choose whether to install only security updates, release updates, or all updates automatically. The feature can also still be used to check for new updates.

SECURE. NETWORKS.





AUTO UPDATER

ALWAYS UP-TO-DATE

- LANCOM devices can search for new software updates, and download and install them without any user interaction

SECURE. NETWORKS.

Your choices:

- Install only security updates automatically
- Install only security updates and release updates automatically
- Install security updates, release updates, and release versions automatically

WAN POLICY-BASED NAT

EASY USE OF NAT IN FIREWALL RULES

WAN Policy-Based NAT allows an easy assignment of static WAN IPv4 addresses to desired services. Due to a NAT action in the firewall rules internal addresses are masked behind a WAN address from the Internet access provider. Ideal for scenarios e.g. for the operation of mail servers and web servers with different WAN addresses.

SECURE. NETWORKS.

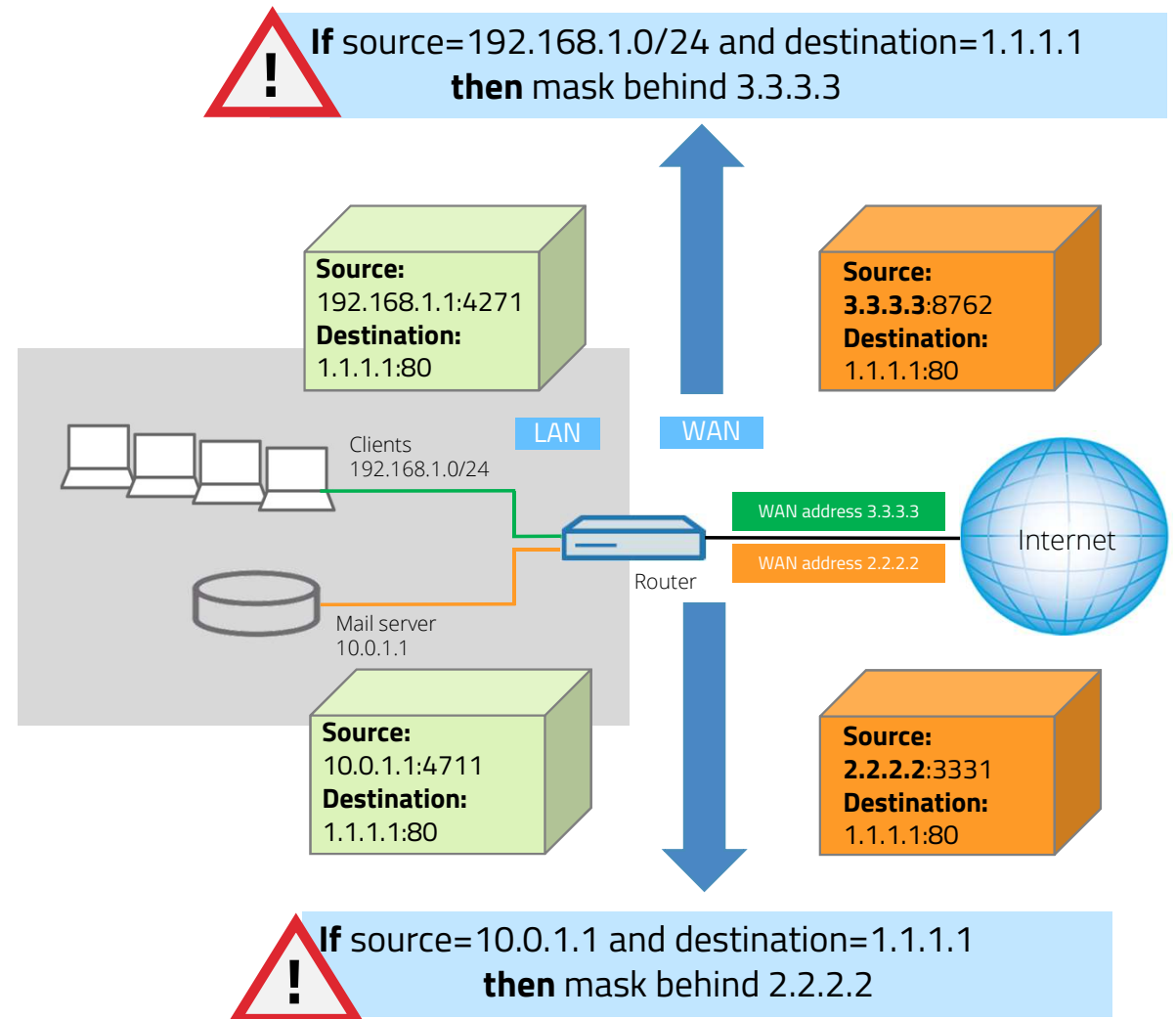


HIGHLIGHT

WAN POLICY-BASED NAT

MORE FLEXIBILITY IN NAT

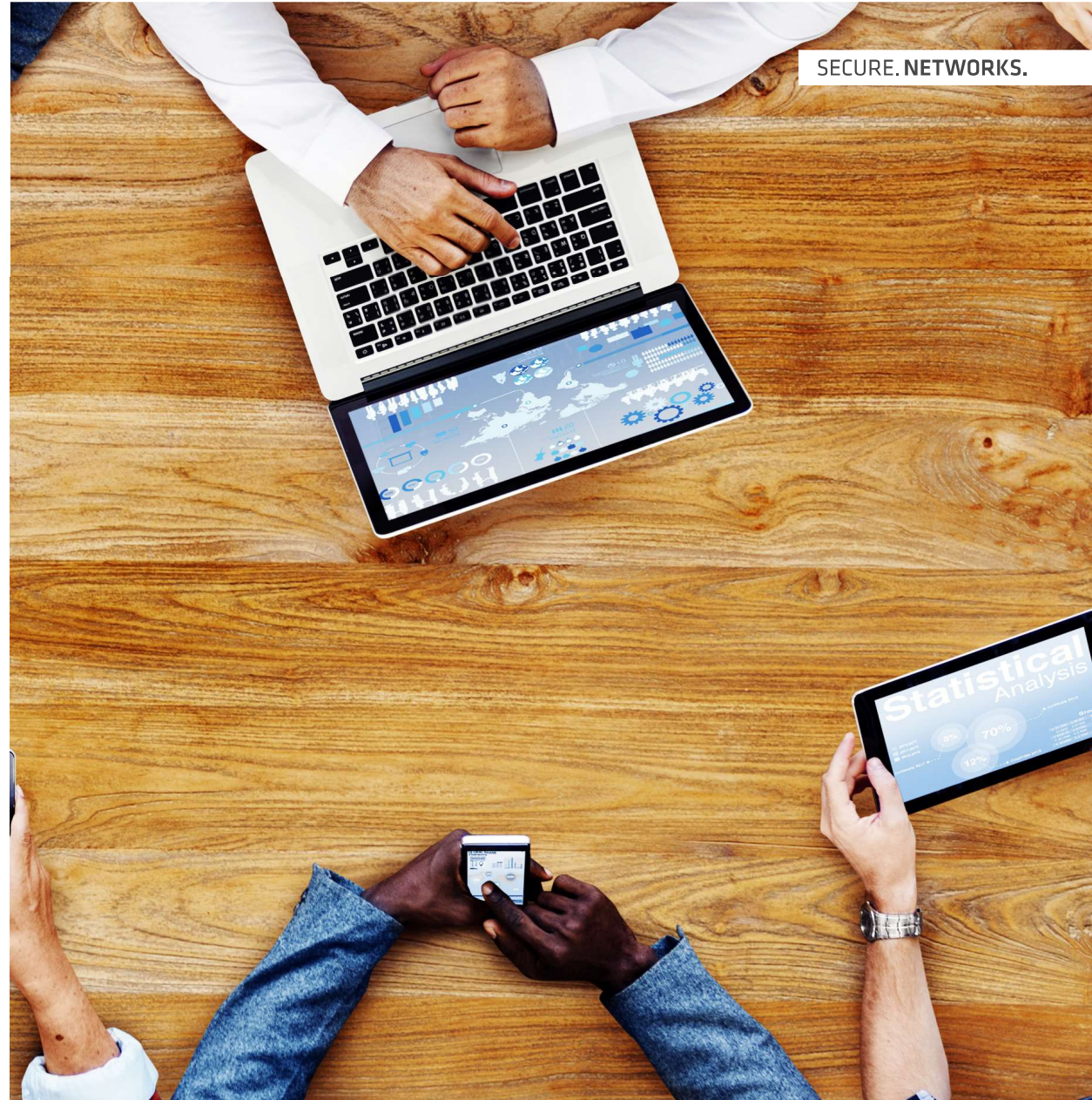
- Due to a NAT action in the firewall rules internal addresses are masked behind a WAN address from the Internet access provider
- Ideal for scenarios e.g. for the operation of mail servers and web servers with different WAN addresses



CLIENT MANAGEMENT

FOR BEST-EVER WI-FI

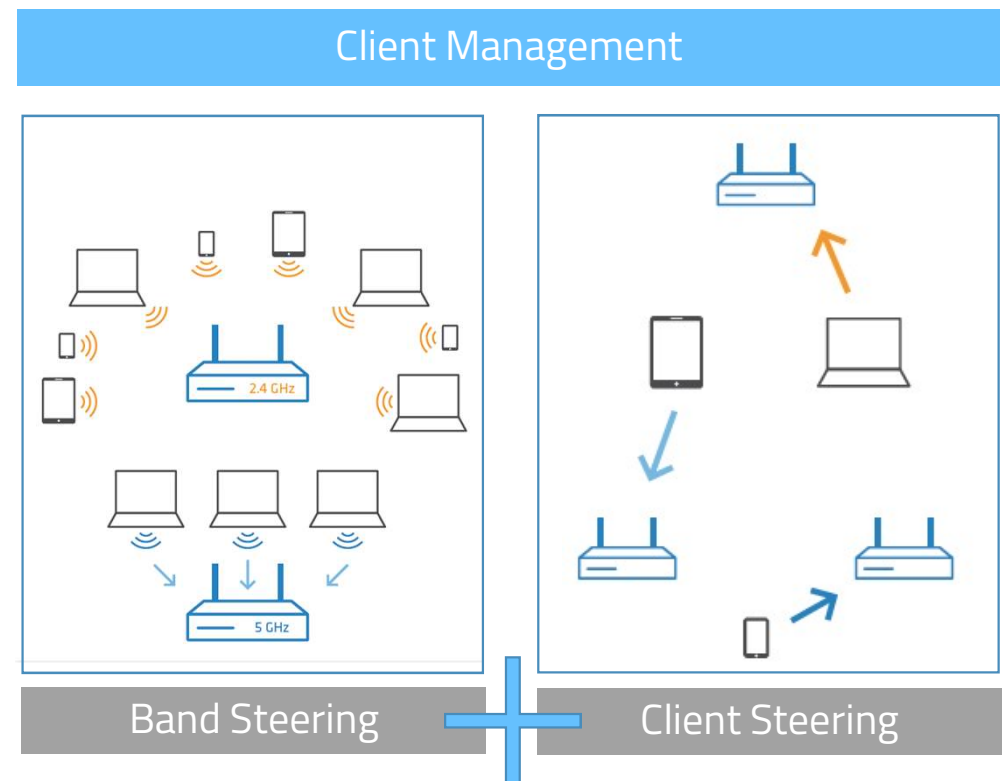
Client Management steers Wi-Fi clients to the best available access point and frequency band. This feature improves the quality of wireless networks of all sizes—whether they operate stand-alone or orchestrated by the LANCOM Management Cloud.



HIGHLIGHT

CLIENT MANAGEMENT FOR BEST-EVER WI-FI

- Steers Wi-Fi clients to the best available access point and frequency band
- Combines Client Steering and Band Steering
- Works completely independently – without a separate WLAN controller
- Ideal for use with the LANCOM Management Cloud
- Based on the standards IEEE 802.11k and 802.11v



DSL BRIDGE MODE

MORE FLEXIBILITY FOR WAN CONNECTIONS



- VDSL routers now operate optionally in DSL bridge mode → This allows a device to work purely as a DSL modem.
- Suitable for scenarios where multiple DSL connections are operated on one router
- Ideal in combination with the LANCOM 730VA



LANCOM vROUTER

EXTENDED FEATURE SET

- As of now: support of the hypervisor-based virtualization technology **Hyper-V** from Microsoft
- Management more easier: Firmware updates can be imported as a UPX file



ENHANCED OPEN

SECURE SURFING IN OPEN WI-FI NETWORKS

- Easy to use: WLAN encryption without entering a password
- Transitional mode to support clients that are not yet Enhanced Open-enabled



OCSP RESPONDER

MORE POWER FOR SMART CERTIFICATE

- Smart Certificate is the easy way to create digital certificates with your LANCOM device
- **New:** OCSP Server (Online Certificate Status Protocol) enables clients to automatically and efficiently query the integrated CA for the status of X.509 certificates



SUPPORT OF LISP

REALIZING HIGHLY SCALABLE OVERLAY NETWORKS

- LISP (Locator/ID Separation Protocol)
- Highly efficient overlay tunnel with routing function for service providers and enterprise

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PUBLIC SPOT CSV IMPORT

PUBLIC SPOT MANAGEMENT IS
NOW EVEN EASIER

- Hotspot users are easily imported and exported by text file (CSV)

SECURE. NETWORKS.



THANK YOU!
