

PRESS RELEASE 2014-412

## **LANCOM brings gigabit speeds to WLAN networks**

### **Innovative enterprise-class access points with 11ac support**

Aachen, July 9, 2014 - LANCOM Systems, the leading German manufacturer of networking solutions for the commercial and public sectors, present their new L-13xx series of 1,300-Mbps access points. The two IEEE 802.11ac dual-radio access points **LANCOM L-1302acn dual Wireless** (with external antennas) and **LANCOM L-1310acn dual Wireless** (internal antennas) supplement the manufacturer's current WLAN portfolio with high-performance, innovative access points of the enterprise class.

The IEEE 802.11ac standard takes WLAN performance to a new dimension. The data transfer for 11ac-enabled devices with 1x1 MIMO is accelerated up to 433 Mbps, devices with 3x3 MIMO reach up to 1,300 Mbps. Consequently, offices can now be networked completely by wireless with the gigabit speeds of a cabled network, but without the need of laborious and costly cable installation.

Previously, high-bandwidth applications could only be realized via cabled networks, forcing them to remain stationary. The new WLAN standard now gives these applications the flexibility of wireless. For example, HD video transmissions for telepresence applications can be implemented at any location with no loss of quality.

### **802.11ac from LANCOM: Smart. Fast. Innovative.**

These two gigabit access points offer a number of innovative features: They use the intelligent WLAN optimization concept LANCOM Active Radio Control (ARC) to sustainably optimize their radio fields.

ARC provides an array of optimization technologies: With Spectral Scan, WLAN interference to the 11n radio module can be reliably identified and graphically represented for effective network troubleshooting. Adaptive Noise Immunity allows an access point to block out interference and to focus exclusively on WLAN clients with sufficient signal strength. For installations with several access points, Client Steering intelligently distributes individual clients to the best available access point. The Band Steering feature actively directs WLAN clients away from the often overcrowded 2.4-GHz band to the higher-performance 5-GHz frequency band. Automatically controlled by the access point, this redirection of clients to the 5-GHz frequency band can more than double WLAN performance due to the number of channels available for bundling here. With RF Optimization, WLAN clients benefit from improved throughput thanks to reduced channel overlaps.

The two access points each have one 11n and one 11ac radio module. Consequently, 11n-clients in the 2.4-GHz frequency band and also the rising number of modern 11ac-enabled devices in the 5-GHz band can all be provisioned with fast WLAN. The devices remain fully backwards compatible to former WLAN standards such as IEEE 802.11a/b/g/n. LANCOM 802.11ac access points support DFS (Dynamic Frequency Selection), so they can additionally make use of the 5-GHz channels that require the use of DFS.

The **LANCOM L-1302acn dual Wireless** transmits via one internal and five external antennas. The **LANCOM L-1310acn dual Wireless** in its elegant white housing is equipped with six MIMO antennas, which are accommodated within the housing and are outwardly invisible. The LEDs can be deactivated.

The device was developed especially for operation in exclusive and modern buildings. This access point is an ideal solution for enterprises and WLAN providers wanting to offer discreet high-performance WLANs with reliable coverage or user-friendly hotspot solutions (for example in hotels, restaurants, universities, libraries, etc.).

Like all LANCOM access points, the new models optionally operate in stand-alone mode or in combination with a LANCOM WLAN controller. The devices are also equipped with a comprehensive range of security features, including fully functional IEEE 802.11i with WPA2 and AES encryption, and also IEEE 802.1X/EAP (WPA2 Enterprise) for high-security environments. These devices support network virtualization with Multi-SSID and VLAN. The two models can be powered via PoE (IEEE 802.3at).

Both access points are available now.

**LANCOM Systems background:**

LANCOM Systems GmbH is the leading German manufacturer of reliable, innovative network solutions for business customers. LANCOM's two business units, VPN Network Connectivity and Wireless LAN, offer professional users secure, flexible infrastructure solutions for local-area and multi-site networks. The entire core product range is developed and manufactured in Germany. In addition, LANCOM also provides VPN solutions certified by the German Federal Office for Information Security (BSI) for the protection of particularly sensitive networks and critical infrastructures (EPCIP) against cyber attacks. LANCOM Systems has its headquarters in Würselen near Aachen, Germany, and other offices are located throughout Europe. Customers include small and medium-sized enterprises, government agencies, institutions, and major corporations from Germany, Europe and increasingly worldwide. The enterprise is a partner in the Alliance for Cyber Security initiated by the BSI.

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