



Press Release for Pakedge WAP-W5N and CTL-W5N

**For Immediate Release**

Date: January 14, 2011

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**Pakedge Introduces Its WAP-W5N Wireless Access Point and Controller With Virtual Cell Technology for Reliable, Seamless Wi Fi Roaming In Larger Networks**

Foster City, CA – [Pakedge Device & Software](#) today announced the introduction of its WAP-W5N Wireless Access Point and Controller, which incorporates Virtual Cell Technology to enable multiple wireless access points in a large installation to function as a single “virtual” wireless access point (WAP) and enable seamless Wi Fi roaming.

Wireless networks that cover a large area, such as those installed in larger homes or businesses, require multiple wireless access points to achieve adequate coverage. However, when a person moves from the coverage area of one wireless access point to another, there is typically an interruption in service as one WAP "hands off" to another. The result is an interrupted video stream, phone call or data stream.

In addition, the touch panels used for controlling devices in a home network need to send out a steady stream of commands, without delays - or the devices will not respond as intended.

The Pakedge WAP-W5N and its companion CTL-W5N Wireless Virtualization Management Controller offer an elegant solution. The WAP-W5N and CTL-W5N use Virtual Cell Technology to tie the operation of all the wireless access points in a network together so that they all appear as a single wireless access point to a device (client) such as a laptop, iPad<sup>®</sup>, touch panel or a WiFi phone using VoIP. The result is glitch-free roaming over the entire network, because the client device always "sees" a single WAP and never has to initiate a handoff as in other Wi Fi systems.

A single dedicated Virtual WAP is created for each client on the network. This dedicated WAP can be personalized to the client around speed and bandwidth, to optimize the performance of the applications the device needs to run. Similar to a wired Ethernet port, this "virtual port" eliminates latency, jitter and competition for bandwidth, since there is always only one client on each "wireless" port.

Like all Pakedge products, the WAP-W5N is designed for ease of installation and total reliability in custom installation audio/video systems, home networks, security systems and enterprise-class networks. It features six simultaneous dual-band radios with omnidirectional antennas, for reliable operation over a wide coverage area. The WAP-W5N is preconfigured to work with Pakedge routers and VLAN (virtual local area network) switch solutions, and provides centralized configuration and management for ease of deployment, multilayer security and scalability, while eliminating co-channel interference and the need for channel planning. If additional WAPs are plugged into the network, they will automatically configure.

The WAP-W5N offers sophisticated monitoring capabilities including self-monitoring, and real-time and cumulative performance metrics for individual wireless devices, access points and the network as a whole from a single interface.

The WAP-W5N is powered by a standard 802.3af Power-over Ethernet (PoE) power source. It supports all 802.11a/b/g/n devices, with 802.11n support in the 2.4GHz and 5GHz frequency bands using 40MHz channel bonding.

The Pakedge WAP-W5N Wireless Access Point and CTL-W5N Wireless Virtualization Management Controller are available now. Please contact [sales@pakedge.com](mailto:sales@pakedge.com) for pricing.

## **COMPANY PROFILE:**

Pakedge Device & Software creates innovative networking products for people who demand performance, features, and reliability. Our products use the most advanced wireless and networking technology. They are designed for professionals to install and consumers to enjoy. For more information and system specifications, visit [www.pakedge.com](http://www.pakedge.com).

### **Pakedge CTL-W5N wireless virtualization management controller**

## **WAP-W5N ADDITIONAL KEY FEATURES AND SPECIFICATIONS:**

- Wireless Standards: IEEE 802.11 a/b/g/n, IEEE 802.11i support (AES, WEP, WPA, WPA2), IEEE 802.11e, WMM
- IEEE802.11N: Frequency Band, 2.402 to 2.485 GHz, 5.15 to 5.25 GHz, 5.725 to 5.825 GHz; Data Rates (Mbps): 20 MHz: 130, 117, 104, 78, 65, 58.5, 54, 52, 48, 39, 36, 26, 24, 19.5, 18, 13, 12, 11, 9, 6.5, 5.5, 2, 1 Mbps; 40 MHz: 300, 270, 243, 216, 162, 135, 121.5, 108, 81.5, 81, 54, 48, 40.5, 36, 27.5, 27, 24, 18, 13.5, 12, 11, 9, 6, 5.5, 2, 1 Mbps with automatic rate adaptation
- IEEE802.11a: Frequency Band, 5.180 – 5.240 GHz; 8 Channels (34, 36, 38, 40, 42, 44, 46, 48), 5.280 5.320 GHz; 4 Channels (52, 56, 60 and 64), 5.745 -5.825 GHz; 5 Channels (149, 153, 157, 161, and 165), 5500-5700: 11 channels (100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140); Data Rates: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps with automatic rate adaptation
- IEEE802.11b/g: Frequency Band: Hardware supports 2.40-2.50 GHz: 2.4 GHz – 2.4835 GHz (US, Europe), 2.4 GHz – 2.497 GHz (Japan only); 802.11b Data Rates: 11, 5.5, 2 and 1 Mbps with automatic rate adaptation
- Configurable dynamic QoS rules with Over-the-air resource reservation
- Full complement of advanced security features
- Infrastructure-controlled zero-loss handoff mechanism for standard Wi-Fi clients
- Full selection of advanced management features
- Dimensions: 9 7/8" W x 6 7/8" H x 1 1/16" D
- Weight: 3 lbs

## **CTL-W5N ADDITIONAL KEY FEATURES AND SPECIFICATIONS:**

- Wireless Compliance: IEEE 802.11 a/b/g/n, IEEE 802.11i support (AES, WEP, WPA, WPA2), IEEE 802.11e, WMM

- Automatic Discovery & Configuration: All Access Points
- Wired/Switching: IEEE 802.1Q VLAN tagging, GRE tunneling and IEEE 802.1D Spanning Tree Protocol
- Full complement of advanced security features
- Infrastructure-controlled zero-loss handoff mechanism for standard Wi-Fi clients
- Virtual Cell provides load balancing coordination for improved performance and WLAN resiliency upon AP failure
- Full selection of advanced management features
- Dimensions: 17" W x 1 3/4" H x 11" D
- Weight: 8.6 lbs

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iPad is a trademark of Apple Inc., registered in the U.S. and other countries.