

Press Release for Pakedge W5N<sup>2</sup>

**For Immediate Release**

Date: November 15, 2012

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**Pakedge Introduces Its W5N<sup>2</sup> Wireless Access Point With Dual-Band Radio for Seamless Wi-Fi Roaming In Larger Wireless Networks**

Foster City, CA – [Pakedge Device & Software](#) today announced the introduction of its **W5N<sup>2</sup> Wireless Access Point With Dual-Band Radio**, which incorporates the company's exclusive Residential Virtual Cell Technology to enable multiple wireless access points in a large network to function as a single "virtual" wireless access point (WAP). This enables seamless Wi-Fi roaming without handoffs for any Wi-Fi device, whether a laptop, touch panel, iPad<sup>®</sup>, touch VoIP Wi-Fi phone or other portable device.

Here's how non-virtualized or traditional Wi-Fi works: wireless networks that cover a large area require multiple WAPs to achieve adequate coverage. However, when a person moves from the coverage area of one WAP 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, or lost commands from a touch panel.

In contrast to traditional Wi-Fi, the Pakedge W5N<sup>2</sup> and its companion CTL-W5N Wireless Virtualization Management Controller provide an extremely reliable Wi-Fi roaming solution. The W5N<sup>2</sup> and CTL-W5N use Residential Virtual Cell Technology to link 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), even though many wireless access points are installed.

The result is uninterrupted roaming over the entire home network, because with Residential Virtual Cell Technology the device always "sees" a single WAP and never has to initiate a handoff (as would happen with conventional Wi-Fi systems).

A single dedicated "virtual WAP" is created for each device on the network. This dedicated WAP can be customized 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. This results in "fair airtime" for each device, preventing slower clients from taking more than their fair share of airtime and slowing down the performance of other devices.

The W5N<sup>2</sup> is compact and easy to install. It's pre-configured for use with the CTL-W5N and Pakedge routers and VLAN (virtual local area network) switch solutions. If additional W5N<sup>2</sup>s

are plugged into the network, they will automatically be preconfigured. The unit has simultaneous dual-band radios with omnidirectional antennas, supports 802.11a/b/g/n, has and offers comprehensive security and encryption features.

The W5N<sup>2</sup> offers a host of additional advanced capabilities such as self-monitoring, rogue device detection and suppression, automatic power and channel setting, co-channel interference management and other features. It is powered by a standard 802.3af Power-over Ethernet (PoE) power source.



### **Pakedge W5N<sup>2</sup> wireless access point with dual-band radio**

#### **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).

#### **W5N<sup>2</sup> ADDITIONAL KEY FEATURES AND SPECIFICATIONS:**

- W5N<sup>2</sup>- 802.11 a/b/g/n Wireless Access Point with Dual-Band Radio

- Extensive built-in security features
- All radios capable of scanning 802.11n, 802.11a and 802.11b/g for rogue devices
- Infrastructure-controlled zero-loss handoff mechanism for standard Wi-Fi clients  
Preemptive roaming and load balancing with band steering is built-in by design
- Zero configuration: automatically selects power and channel settings, automatically discovers controllers and downloads configuration settings
- Centralized and remote management and software upgrades via Pakedge System Director web-based GUI; centralized security policy for WLAN and multiple ESSIDs
- Intelligent RF management
- Wireless Standards: IEEE 802.11 a/b/g/n, IEEE 802.11i support (AES, WEP, WPA, WPA2), IEEE 802.11e, WMM
- Internal, MIMO, dual-band omnidirectional antennas
- Ability to disable unused radios to lower power consumption
- Dimensions: 6-1/2" W x 4 1/2" D x 3-1/2" H
- Weight: 18.1 oz.

#### **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.