



VeriWave Accelerates 802.11n Adoption with World's First Functional and Performance Tester

Traffic Generator / Analyzer Furthers Development of Infrastructure Equipment as IEEE Completes Standard

PORTLAND, OR, January 17, 2007 –VeriWave, Inc., leader in Wireless LAN performance and analysis test systems, is introducing the first traffic generator / analyzer to test network equipment operating according to the proposed IEEE 802.11n standard. The 802.11n standard promises unprecedented speeds, security, and reliability in enterprise Wi-Fi deployments. The new 802.11n WaveBlade leverages VeriWave's innovative stateful client generation technology, enabling developers of communications chips, Access Points, and WLAN controllers, to bring solutions to market faster and at a lower cost, while increasing product quality through higher test coverage.

The 802.11n standard is expected to offer transfer speeds which are up to 8 times faster than existing WLAN networks, without performance degradation. VeriWave is the first to incorporate testing of the proposed IEEE 802.11n standard into a system that is capable of testing an entire enterprise network installation, including the wired LAN segments, as well as existing 802.11 a/b/g WLAN components.

"802.11n is perhaps the most important development in the history of wireless LANs, and will lead to WLANs becoming the default connectivity for essentially all mobile users across all applications," said Craig Mathias, a Principal with the wireless and mobile advisory firm Farpoint Group. "But with this dramatic increase in performance also comes an increase in complexity. It's critical that system vendors have the ability to perform the functional and performance testing of 802.11n devices in a precise, repeatable, and automated fashion, and test equipment such as VeriWave's 802.11n traffic generator / analyzer is the best means to this end"

"Despite the important impact IEEE 802.11n will have on wireless networks, it has yet to be finalized as a standard, making flexible testing and evaluation products a critical part of the development process" said Partha Narasimhan, wireless architect for Aruba Networks, a provider of wireless and mobility solutions. "VeriWave's products have been important in validating our previous products, and they will continue to be for our 802.11n solutions."

Channel emulation and performance testing in a single platform

In 802.11n networks, multiple signals transmitted into the wireless medium and multiple signals received from the wireless medium are used to improve performance. Using multiple antennas, the MIMO (Multiple Input and Multiple Output) technology, at the

heart of 802.11n, offers the ability to coherently resolve information from multiple signal paths. The multi-path signals take advantage of the indoor settings causing multiple signals to arrive at the receiver after being reflected from walls, furniture, ceilings, etc. To properly test 802.11n devices during development, various channel conditions need to be created in a controllable and repeatable manner.

VeriWave addresses this challenge, by incorporating a channel emulator into the new 802.11n WaveBlade, forming the only solution capable of measuring performance in a wide variety of scenarios and the impact of MIMO interactions on Access Points (APs) and controllers. VeriWave's integrated channel emulator supports all defined IEEE channel models and can present a device being tested with a composite signal identical to those traversing any indoor installation.

As the IEEE 802.11n standard evolves, the 802.11n WaveBlade has been architected to be future-proof with key components such as baseband, MAC and protocol engines able to accommodate any changes in the current draft.

"We've designed the 802.11n WaveBlade to ensure quality at every stage in the product chain from 802.11n chips, through Access Points and controllers," says Eran Karoly, VP Marketing at VeriWave. "The 802.11n WaveBlade offers developers and QA engineers the ability to test functionality and performance of their designs, without requiring the use of not-yet-available standards-compliant 802.11n clients. Not only does this solution offer scalable test conditions, it also addresses the complete test scenario, by incorporating a standards-defined channel emulator that models all of the channel models defined by the IEEE. Since the 802.11n standard is still in draft form and remains quite fluid, we've engineered this solution to be extremely flexible in supporting evolving features, and making it compatible with the evolution of 802.11n."

Availability

The 802.11n WaveBlade is available in 2x2, 3x3, and 4x4 MIMO configurations, with first shipments in the second quarter of 2007.

About VeriWave

VeriWave is the leading provider of test systems for performance analysis of wireless local area network (WLAN) products. VeriWave's products are used by equipment manufacturers to accurately analyze the performance of their products, as well as by carriers and enterprise users to make the right choice when selecting WLAN equipment for deployment in their networks. For more information about VeriWave, call (503) 473-8350, or go to www.veriwave.com

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