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WaveTest

802.11 Traffic Generator / Performance Analyzer

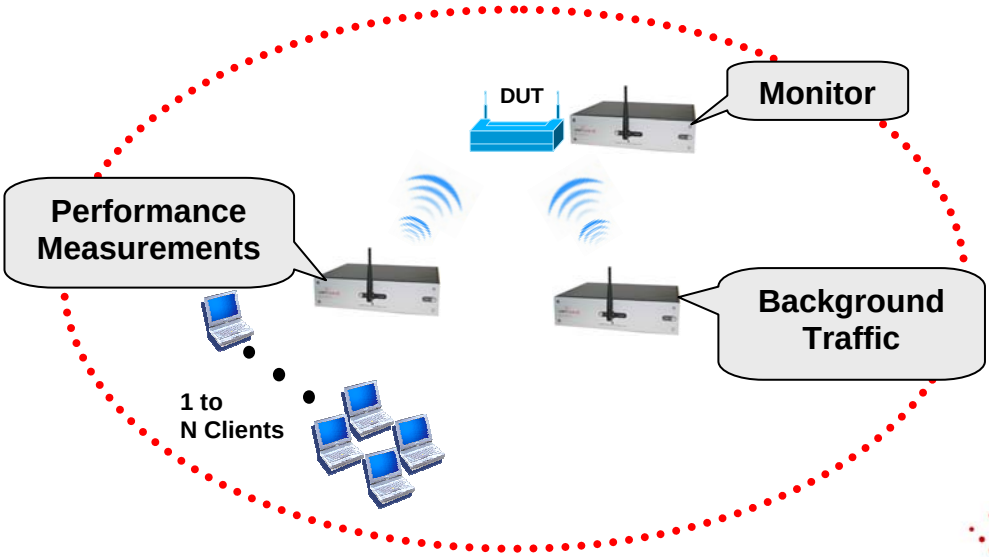


Features and Applications

- Powerful, flexible 802.11 traffic generator
  - Support for 802.11 a/b/g
  - Comprehensive control of wireless signal including data-rate, channel, transmit power and receive threshold
  - Create any type of WLAN traffic down to the frame level
  - Simulate hundreds of WLAN clients or Access Points
- Detailed, accurate capture and analysis
  - Full air-rate capture of all events, including frames with errors
  - Log file export in PCAP format for post-capture analysis using industry standard tools
  - Record the details from the customer site and re-create the issue in your development lab
  - 10nsec timestamp resolution
- Comprehensive, test control providing crucial metrics
  - Throughput, Loss, Latency, Roaming, Management Performance, Power Save and Rate adaptation performance metrics
  - Detailed Command and Control user interface or automated, ready-to-use test suites for AP and client testing
- Expandable from one to multi-point tests fro evaluation of complex scenarios such as Hidden Node, Multiple BSS, and Interference, while maintaining microsecond synchronization
- Automation and Repeatability
  - Create, edit, and save test scenarios for future use
  - Automation support libraries enable Tcl programming of test sequences

Precise and repeatable performance measurements for wireless LAN developers

VeriWave's WaveTest system is the industry's first product devoted to testing the unique features of WLAN devices. It is free of restrictions imposed by PC based test systems such as NICs, drivers, and operating systems. With suites of comprehensive, automated tests that focus directly on device performance at the WLAN layers, the WaveTest system allows users to analyze why their devices perform as they do, instead of merely how they perform.



Typical Test Configuration

VeriWave Inc.
9600 SW Oak Street
Portland, OR 97223
www.veriwave.com
Corporate / Sales:
503-473-8350

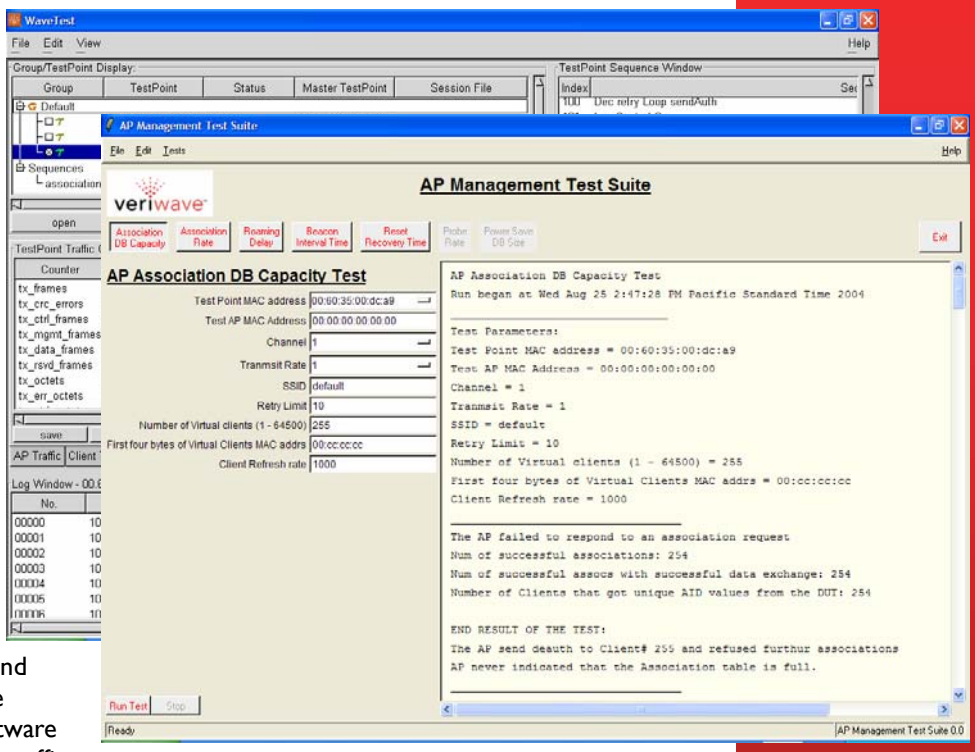
veriwave™

WaveTest Traffic Generator / Performance Analyzer

WaveTest Applications

AP Management Performance and Network Reliability

Use the WaveTest system to simulate hundreds of WLAN clients communicating with the AP under test. Authenticate and associate hundreds of clients with the AP to stress the management capabilities of the DUT. WaveTest allows each simulated client to have its own unique characteristics, such as data rate, channel, and WEP, and provides precise measures of the important network parameters of capacity, roaming performance, and timing accuracy.



WaveTest Command and Control Interface & WaveSuites Console

PC and Embedded Client Driver Testing

Precisely evaluate and debug performance, conformance, and functionality of a variety of mobile devices, including PDAs, mobile phones, and laptop computers utilizing the visibility into MAC, IP and UDP/TCP layers provided by the VeriWave WaveAgent software. The WaveAgent software runs on the client and provides controlled traffic generation, traffic loopback, and logging.

VoIP Performance and Handoff Testing

Utilize the WaveTest's comprehensive control of each simulated client's transmission and error generation capabilities to test the stringent timing and roaming handoff requirements necessary for VoIP WLAN networks. Complete the test by measuring latency and jitter of hand-sets using the precise WaveTest monitoring capabilities.

Conformance Validation

Utilizing the WaveTest's complete control of the MAC layer, the VeriWave Conformance Test Suite enables comprehensive testing of device conformance to the IEEE 802.11 standards. The adherence to the protocol is tested for each specification statement, augmented by negative tests that validate the behavior of the tested device in response to illegal inputs.

Wireless Realities: Out in the Open

Unlike their wired predecessors, wireless devices cannot rely on a static LAN environment shielded from errors and interference. A real RF environment is variable and unpredictable, and can greatly affect device performance. The challenge for manufacturers is to ensure that their products function properly in both controlled environments (isolated to provide the repeatability necessary for automated measurements), as well as in the realities of the open-air medium seen by the end-user. The WaveTest product line provides the bridge between these two situations, giving its users the ability to create network traffic environments anywhere. Engineers can configure the WaveTest system to fit every type of testing need, cabled on desktops, placed inside shielded RF chambers, or in a real-world open-air environment, without sacrificing traffic generation and analysis capabilities. VeriWave's WaveTest product line provides the ultimate in wireless test flexibility.

Ordering Information

- WT1110 WaveTest 802.11b Traffic Generator / Performance Analyzer
- WT1210 WaveTest 802.11a/b/g Traffic Generator / Performance Analyzer

veriwave™

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