

Wireless Client Test Bench

The **Wireless Client Test Bench** is an integrated solution ideally suited for state-of-the-art testing of 802.11 clients. This highly integrated hardware and software solution allows clients to be tested and optimized for “real-world” wireless environments and other “what-if” scenarios in a controlled environment.



Features and Benefits

- Provides wireless client (DUT) RF isolation for accurate measurements of DUT behavior with varying degrees of controlled interference
- Creates path and distance emulation between DUT and one or multiple AP's to measure rate adaptation and roaming capabilities
- Wireless Client Test Bench Contains:
 - Client isolation enclosure
 - RF Management Unit
 - Patch panels (for 8 AP and 12 AP systems)
- The Wireless Client Test Bench is part of a complete integrated solution which also contains WaveAgent, WaveClient and WaveDynamix
- The RF Management Unit offers a centralized wiring hub for connectivity between DUT and all AP's and VeriWave Traffic Generation and monitoring system; it houses all RF connection components, including splitters, combiners and path and distance emulation circuitry

WaveAgent™

WaveAgent is a test utility loaded onto a networking device. It provides device-specific measurements of forwarding rate, throughput, loss, round-trip latency and jitter when enabled by VeriWave's WaveDynamix and WaveClient applications.

- **Features**
 - Measures and reports end-user experience on the DUT (forwarding rate, loss, latency, etc.)
 - Very small footprint (<64kbytes) does not interfere with normal operation of DUT
 - Supported OS's: Windows Mobile 6, Windows XP, Windows Vista, Linux
- **Benefits**
 - Enables performance testing of the client's 802.11 subsystem (device driver and integration) independently of the application
 - Enables performance testing during silicon qualification (on eval boards), post driver integration on client hardware, and on integrated client during troubleshooting
 - Allows testing to occur earlier in the development cycle

WaveClient™

WaveClient allows clients to be tested and optimized for "real-world wireless environments" & other "what-if" scenarios in a controlled environment.

- **Features**
 - Dashboard to run tests
 - Controls Client Test Bench for path and distance emulation
 - Creates eco-system traffic
 - Produces complete and easy-to-understand test reports
 - Measures the performance of DUT with eco-system traffic and how eco-system affects DUT
- **Benefits**
 - Quantifies and Qualifies Client device's real-world performance
 - Uncovers client's real-world operational issues before deployment
 - Ensures Quality of Experience for all users including client devices
 - Improves test efficiency through easy setup and execution of tests
 - Obtain repeatable scenarios and reliable results

Specifications

- Available in various configurations:
 - Test with up to 4 AP's – desktop
 - Test with up to 8 AP's – rack mountable
 - Test with up to 12 AP's – rack mountable
- Minimum of 2 - 6 GHz coverage
- Insertion loss less than 7 dB
- VSWR 2.2:1 or less
- Switching time less than 20 microseconds
- Double shielded cables
- AC powered, worldwide voltages – connector on back panel

