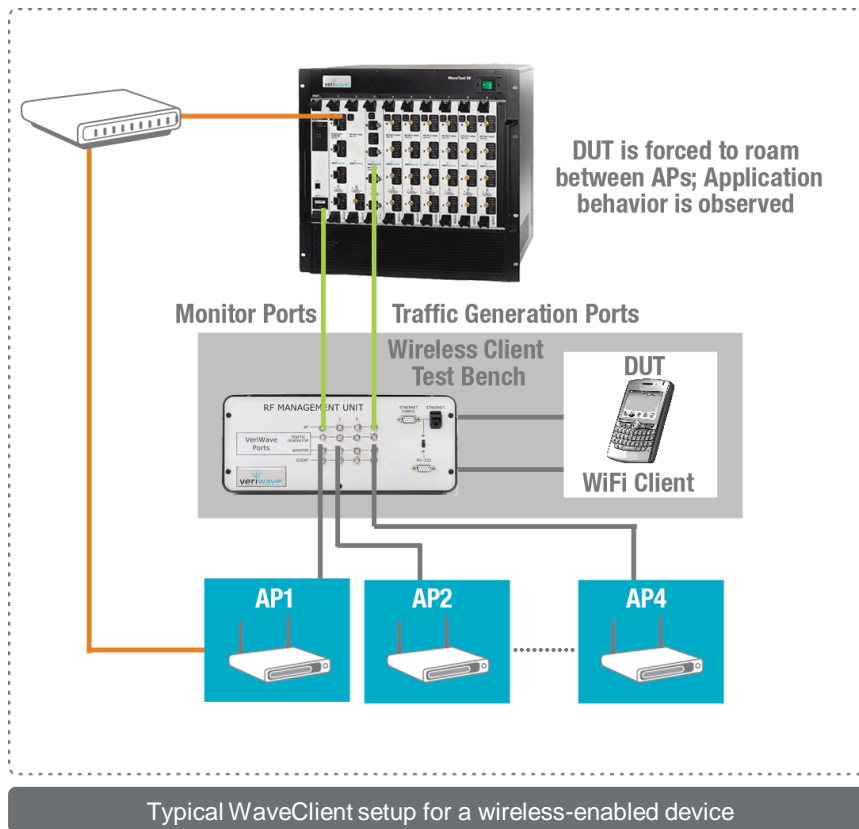


WaveClient™ - Handset, Wireless Enabled Medical, Industrial & Retail Device Test Suite

WaveClient - Allows clients to be tested and optimized for “real-world wireless environments” & other “what-if” scenarios in a controlled environment. WaveClient generates an entire deployment specific environment consisting of WLAN clients such as laptops, phones, scanners and patient monitors with diverse traffic such as HTTP, SIP calls, unicast and multicast MPEG-2 video, FTP and bar code transactions. The wireless enabled device is put to test in each of the desired network conditions and its behavior is observed. The effects of the DUT on the network are also measured. WaveClient reports include: Data Forwarding Rate, latency, jitter, Voice quality (MOS and R-Value), Video quality (MDI score), roaming (hand-off) delay and quality. Utilizing WaveAgent, the device behavior and performance is measured from the exact point of view of the end-user.



Benefits

- Quantifies and Qualifies Client device’s real-world performance
 - Find out how well the wireless client connects, roams and transfers data under ideal, typical and peak network conditions
 - Identify design issues with applications running on these clients that prevent proper operation even though the device may be functional
- Ensures quality of experience for all users including client devices
 - Avoid other users getting kicked off the network
 - Improve application response time for all users on network
- Obtain repeatable scenarios and reliable results
 - Highly reproducible test conditions
 - Run long-term tests without test setup failures
- Improves test efficiency through easy setup and execution of tests
 - Automated tests eliminate the need for frequent manual interventions
 - Complete testing in minutes rather than days
 - WaveAgent facilitates client performance testing for transmit and receive, stateful and stateless, and QoS-enabled functionality

Capabilities

- **Generate and analyze traffic using WaveAgent loaded onto the client device**
 - Enables simplified testing with clients inside chambers
 - Small footprint facilitates work with embedded devices
 - Supports Windows XP, Vista, Linux, and Windows Mobile
- **Offers appropriate tests and relevant results**
 - Verifies association and authentication capabilities under various network load, security and operating conditions
 - Measures data forwarding performance when using different application, transport and security protocols, under normal network conditions
 - Ensures low latency, jitter and high throughput for higher priority traffic, while still maintaining fairness when operating with other clients on the network
 - Validates low latency roam times without packet loss in the presence of other clients
- **Creates various network conditions**
 - Protected-mode, near and far clients, bad clients, interference, traffic types
- **Provides air-rate and wire-rate packet capture capabilities**
 - Required to analyze and troubleshoot issues and failures
- **Produces complete and easy-to-understand test reports**
 - Highlight “good” performance as well as “bad” performance through important MAC-layer to application-layer metrics
 - An effective communication tool across inter-related groups as well as between customers and vendors

Parametric Control of Eco-system Network

- Control individual users of network or groups of users surrounding DUT
 - Type of users (phones, scanners, laptops, etc.)
 - Number of users
 - Offered load by individual users, groups of users, or entire eco-system
- Control of DUT roaming*
 - Speed of roam
 - Time of roam
 - Frequency of roam

*All roaming controlled through variable attenuators

Minimum Requirements

VeriWave Test System	<ul style="list-style-type: none"> • 1 x VeriWave WaveTest 90 or WaveTest 20 system • 1 x VeriWave single port Ethernet WaveBlade (WBE1101) • 1 x VeriWave WLAN WaveBlade (WBW1104 or WBW1104N)) • 1 x VeriWave Client Test Bench
VeriWave Software	<ul style="list-style-type: none"> • VeriWave L4 - L7 Stateful client generation • WaveAgent
Host Computer	<ul style="list-style-type: none"> • X86-based PC with 1GHz processor and 256MB RAM • Windows XP SP2, or Linux (2.6 or higher kernel level)