DATA SHEET

WaveDeploy Site and Performance Assessment

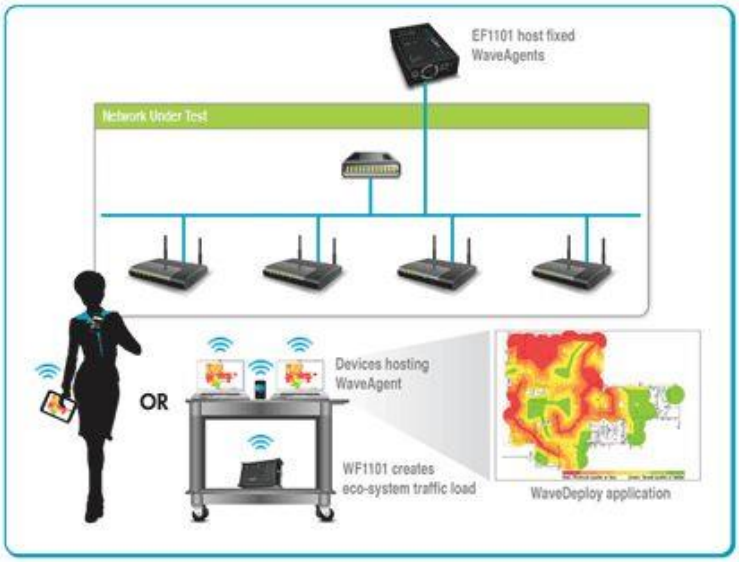
With applications like voice, video, patient monitoring, and retail transactions moving to Wi-Fi, it's never been more important—or more challenging—to predict exactly what mobile users will see, hear, and experience. Ixia's WaveDeploy site and performance assessment solutions deliver the data needed to design, deploy, and maximize the value and performance of Wi-Fi initiatives.

The ultimate solution for assessing and ensuring a network's readiness for mobility, WaveDeploy provides comprehensive site assessment with a single sweep through a facility. Eclipsing traditional site surveys, WaveDeploy assessments help maximize value throughout the Wi-Fi deployment lifecycle including:

- Determining the best placement of access points (APs)
- Refining network configurations
- Verifying vendor claims
- Certifying devices and upgrades
- Assessing end-user quality of experience (QoE)
- Modeling future "what if" scenarios

Highlights

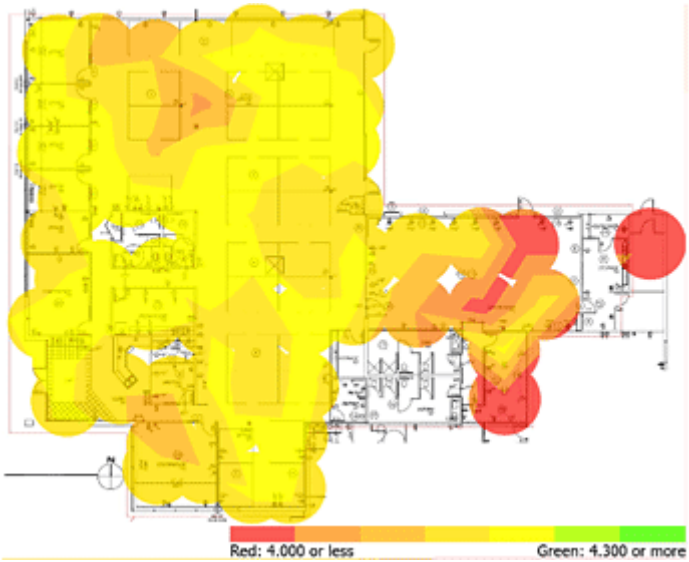
- Fast, "single pass" site surveys collect and present all measurements across all clients for a complete picture of network readiness and vendor performance
- Results help optimize access point (AP) placement, network configuration, infrastructure vendor selection, ongoing network and quality management
- HeatWave™ maps provide insight into RF coverage and application-layer QoE
- Automatically generated reports detail client behavior, network performance and compliance, and end-user QoE
- Readiness surveys include a wide range of mobile devices at the same time: laptops, smart-phones, patient monitors, scanners, etc.
- "What If" tests conducted using Ixia Traffic Generator / Analyzers to assess readiness for expansion of capacity and services.



Assessing the live network ecosystem: *Comprehensive WaveDeploy site assessments measure the performance of multiple client devices and quantify the end-user experience in real-world network environments. IxVeriWave traffic generation enables modeling of large-scale traffic loads and future "what if" scenarios.*

WaveDeploy delivers unprecedented insight into site readiness and performance while reducing the time typically spent on rudimentary site surveys. The solution brings powerful IxVeriWave capabilities relied upon by leading WLAN developers onsite for the first time:

- Measurement of the wireless experience from the user or "client" perspective
- Recreation of a live network ecosystem to assess how devices and applications perform and coexist in real-world environments
- Modeling "what if" scenarios as new users, devices, applications, and technology updates are added to the network over time



HeatWave™ maps provide detailed insight into RF coverage as well as data and application layer QoE

The WaveDeploy Solution

WaveDeploy Pro combines the power of “single-pass site surveys” with simultaneous multi-client site readiness and performance measurement. Automatically generates compliance reports, detailed application reports (including web, email, voice, data, and video HeatWaves), and provides in-depth drill-down capabilities to identify offending clients that degrade overall network quality. Enabling as many as 10 devices to participate in each test, WaveDeploy Pro represents an ideal solution for assessing the performance of mobile client devices.

WaveDeploy Expert adds the power of the WF1101 Traffic Generator / Performance Analyzer to create large-scale network environments and conduct valuable “what if” tests assessing the impact of future upgrades and deployments. Ideal for assessing complex network ecosystems and isolating network issues from client issues, WaveDeploy Expert enables as many as 266 clients to be included in a single assessment.

A wide range of vertical market profiles are built into the WF1101 including healthcare, education, and corporate. Automatically generated reports deliver critical insight into client behavior, network compliance, and application performance.

NOTE: WaveDeploy Basic is no longer supported

Key Features

- Fast, “single pass” site surveys collect and present all measurements across all clients for a complete picture of network readiness and vendor performance
- Results help optimize access point (AP) placement, network configuration, infrastructure vendor selection, ongoing network and quality management
- HeatWave™ maps provide insight into RF coverage and application-layer QoE
- Automatically generated reports detail client behavior, network performance and compliance, and end-user QoE
- Readiness surveys include a wide range of mobile devices at the same time: laptops, smart-phones, patient monitors, scanners, etc.
- “What If” tests conducted using Ixia Traffic Generator / Analyzers to assess readiness for expansion of capacity and services
- Supports up to 10 participating real client devices and up to 256 user-defined generated clients
- Clear delineation between network and client issues
- True voice quality measured without requiring actual VoIP handsets
- Uses actual stateful traffic for measurements (not just PHY Rate & Ping)
- Leverages IxVeriWave gold standard Wi-Fi performance testing technology

What Gets Assessed?

- Multi-client TCP upstream / downstream goodput
- Single client UDP upstream / downstream maximum forwarding rate
- Single client TCP upstream / downstream maximum goodput
- Voice MOS upstream / downstream
- Voice loss upstream / downstream
- Video MDI
- Video jitter
- Video loss
- RF-signal strength
- Co-channel interference
- Client roaming time

Dynamic Network Testing Using WaveAgent

WaveDeploy testing incorporates WaveAgent, a small but powerful traffic generation/data collection utility that fits onto handheld devices and collects data on device-specific behavior such as when to roam, how to rate adjust, and impact on overall network performance. At less than 200Kbyte, WaveAgent can be easily enabled on a wide variety of client devices including those constrained by memory and CPU resources without compromising device performance.

Supported Operating Systems

- Windows 7 Professional
- Windows Vista Business / Ultimate (SP1)
- Windows XP Professional (SP3) with .Net framework V3.5
- Windows Mobile 6 or Higher
- Linux Kernel 2.6 or Higher (x86 or ARM)
- MAC OS X 10.6
- iPhone 3GS, iPhone 4, iPad, iPod touch (download from the app store or iTunes
- Support is limited to 32 bit operating systems
- Contact Ixia for other operating systems

Ordering Info

980-7001

IxVeriWave WaveDeploy Pro software site assessment and readiness application creating HeatWave maps for RSSI, co-channel interference, forwarding rate, goodput, jitter, loss, voice MOS, and video MDI; automatically creates test reports; includes WaveDeploy Application and 4 WaveAgent licenses; supports up to 10 WaveAgent licenses. Additional WaveAgent licenses sold separately on a per host basis

980-6101

IxVeriWave WaveDeploy Expert hardware/software system site assessment and readiness application creating HeatWave maps for RSSI, co-channel interference, forwarding rate, goodput, jitter, loss, voice MOS, and video MDI; automatically creates test reports; includes 1 x WF1101 Wi-Fi portable Traffic Generator / Analyzer (TGA) capable of generating up to 64 clients, 1x EF1101 Ethernet portable TGA, 1 WaveDeploy Pro (includes 4 WaveAgent licenses); supports up to 10 WaveAgent licenses. Additional WaveAgent licenses sold separately; up to 4 WF1101s supported (up to 256 clients)

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