

OptiView™ Series III Wireless Suite

As a network manager, it's your task to support new users, new networks, new technologies and new applications, all while still delivering the network reliability and security users and business managers demand. Keeping control of a wireless network, that by design is constantly changing, requires an end-to-end management approach focused on each phase of the wireless lifecycle which involves distinct and interrelated phases such as pre-deployment and expansion planning, installation and verification, troubleshooting and security along with management and optimization.

The OptiView Series III Wireless Suite can help you navigate through each phase of the wireless lifecycle.



InterpretAir™



AnalyzeAir™



The OptiView Wireless Suite includes the WLAN Analyzer option, InterpretAir™ WLAN Survey Software and AnalyzeAir™ Wi-Fi Spectrum Analyzer to bring value to key wireless network tasks such as:

- Determine correct quantity and placement of access points
- Identify and eliminate RF interference
- Discovery of wireless access points and clients
- Detection and location of rogue APs
- Identification of top conversations
- Active client-based connectivity testing
- Channel monitoring
- Packet capture and decode for complete analysis of 802.11 a/b/g WLANs

InterpretAir™ WLAN Site Survey Software and AnalyzeAir™ Wi-Fi Spectrum Analyzer

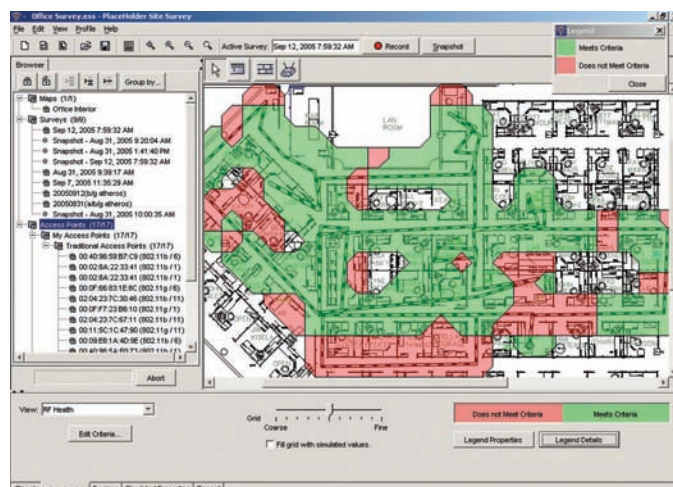
InterpretAir provides network professionals the vision they need to plan, deploy, verify, and document their 802.11a/b/g WLAN networks. InterpretAir is a wireless site survey tool and much more: it runs on the OptiView platform providing visualization of RF health metrics, greatly simplifying WLAN environment analysis and enabling performance tuning. Discover where and why WLAN network performance is sub-optimal and take action; proactively address problems that could affect mobile application performance.

AnalyzeAir Wi-Fi Spectrum Analyzer software runs on the OptiView platform and provides IT network professionals the vision they need into the hidden world of RF, providing them the ability to see the spectrum in a visible and intelligible format. AnalyzeAir lets you see, monitor, analyze, and manage all the RF sources and wireless devices that influence your Wi-Fi network's performance and security, even if those devices are unauthorized or transient. Unlike single-function RF analyzers or expensive tools that provide RF information without device identification and location, AnalyzeAir provides an easy-to-understand, fast-start solution allowing users to quickly resolve RF problems that prevent WLAN connectivity and impact performance.

OptiView Wireless Network Analyzer Option

Network discovery

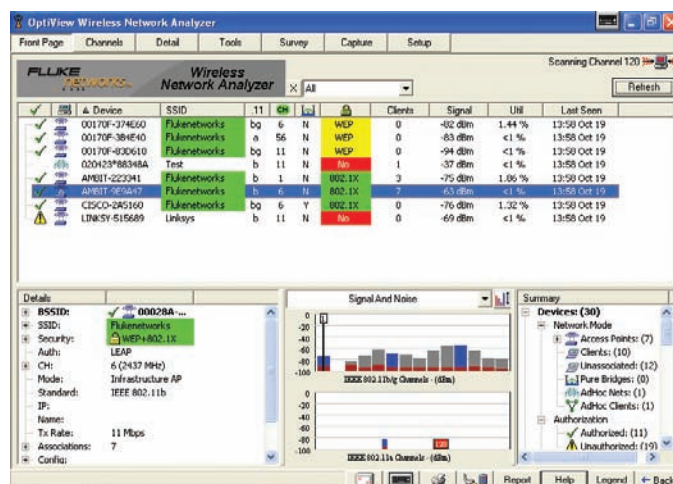
The OptiView wireless option provides several ways to view your wireless networks. Start from the front page to get immediate vision into what's happening on your network. At a glance, you get a summary of 802.11 a/b/g networks; the wireless devices using the network, including rogue access points and unsecured devices that may present a security risk, as well as an overview of active channels and the amount and types of traffic found across each channel. The analyzer continually scans all 802.11a/b/g channels, displays the devices using the network, and reports key information including devices in bridge and ad-hoc modes, together with details on associated and unassociated clients. With a touch of the screen, you get additional information about a device or channel including traffic statistics, signal strength and bandwidth consumption, as well as details on configuration and security settings.



InterpretAir



AnalyzeAir



Network Discovery

Wireless device location

Use the locate feature, with the directional antenna, to quickly and easily track down rogue and unsecured devices, including ad-hoc networks. Follow audible and visual indicators that lead you to the location of the offending device. You can also use OptiView's wired-side MAC layer discovery to locate unauthorized APs in both local and remote site networks.

Channel information

A view into the 802.11 spectrum provides quick insight into the available capacity of a network and degree of coverage needed for continuous client connectivity and performance. The information provided is valuable for verifying a network has been properly installed and configured.

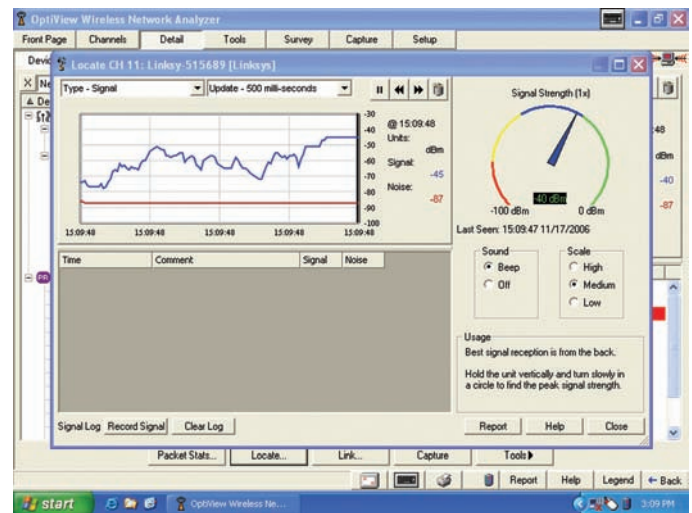
Each wireless channel is analyzed for signal strength, bandwidth utilization, error transmissions, transmit rates, number of devices and security setting – all indicators of the overall health of your wireless network. Given 802.11 is a shared medium, optimal use of channels is essential. Once a channel is selected, you can obtain client and access point details, do a packet capture on that conversation or physically locate any of the devices that are transmitting on the channel.

Identify top talkers

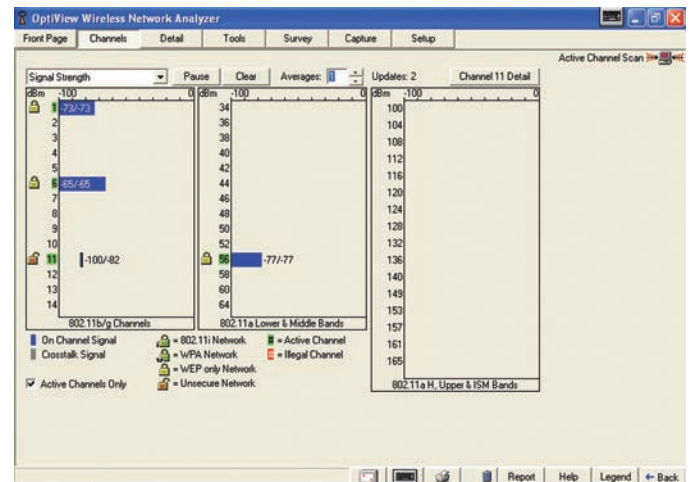
Managing bandwidth usage is particularly important in a shared environment. Excessive or inefficient use of the network impacts client connectivity and performance. The "top talkers" view provides quick visibility into network usage by level and type of network traffic. You can quickly see the key consumers of bandwidth by protocol, by packet destination, and by transmit and receive rate. The analyzer provides ongoing visibility into devices transmitting data at low rates or using applications that consume large amounts of bandwidth. In the conversation view, the interaction between a specific access point and client can be seen. Details like transmit rate, client signal strength, utilization rates and packet statistics are kept on a conversation basis. These are helpful for troubleshooting specific connectivity problems between a client and access point.

Connect as a client

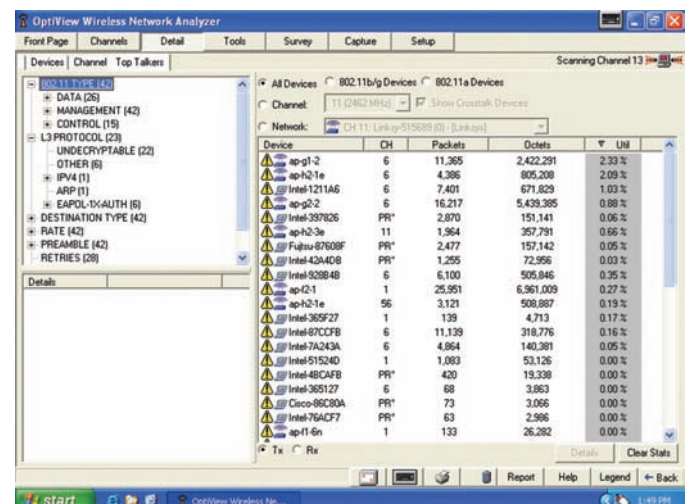
Unlike most wireless network troubleshooting tools, the OptiView wireless option provides both passive and active testing. The link tool facilitates the configuration of the analyzer for security protocols deployed on the network and is used to establish a connection to an access point. As a client of the network, active troubleshooting tools such as ping, throughput and active discovery become available,



Device location



Channel information



Top Talkers

enabling more visibility and quicker problem resolution. The OptiView wireless option includes a super ping utility. In addition to executing normal ping functionality, the user can configure for key devices, vary the rate, data size and count increment. Both absolute and average statistics are reported in real-time. Also included is a true throughput test, utilizing FTP transfer which displays envelope data and a running average which is useful for verifying a deployment or troubleshooting a client performance problem.

Verify authentication and encryption

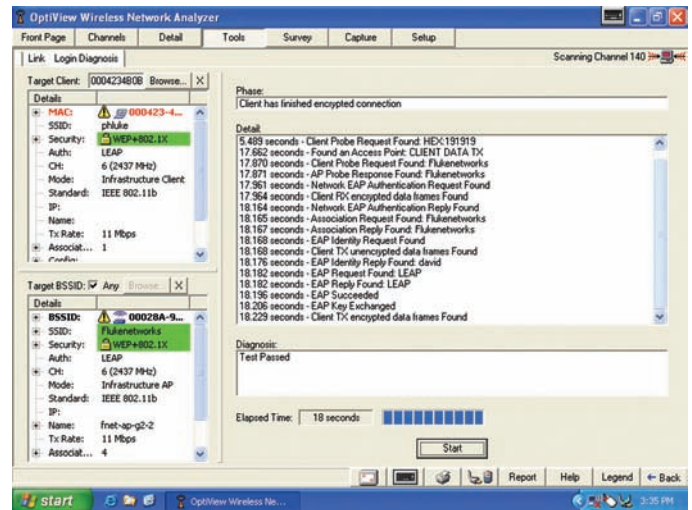
Discover whether infrastructure and client devices are employing the appropriate authentication mechanism. EAP (Extensible Authentication Protocol) authentication is tested and monitored using OptiView's login diagnosis tool. Using OptiView, force a wireless client to disassociate from an access point, then monitor the client and access point EAP exchange as the client re-authenticates on the network to determine if, where, and when the EAP authentication process breaks down. All major EAP types supported, see specifications for detailed list.

Wireless packet capture and decode

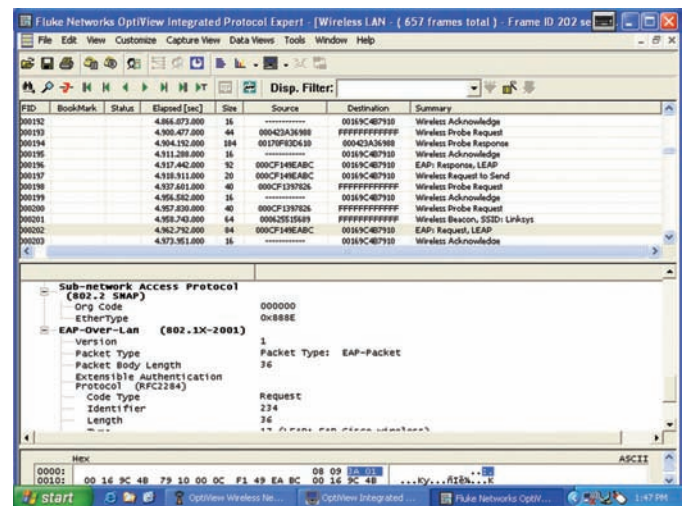
The OptiView wireless option allows for 802.11 packets to be captured, filtered and displayed. Filter by sender, receiver, traffic type and error type. By cleverly integrating packet capture into relevant screens, much of the capture setup is automatically configured.

Reporting

Reporting is integrated throughout the product to facilitate the task of documenting your wireless LAN. Whether documenting network devices, site surveys or network traffic and statistics, the OptiView wireless option automates the process and provides professional HTML management reports.



Login Diagnosis



Packet capture and decode

Our Network SuperVision Gold Support plans give you exclusive services and 24/7 technical assistance.

Sign up for our Gold Support plan and you'll enjoy outstanding privileges to protect and add value to your investment in Fluke Networks equipment. They include unlimited technical assistance seven days a week, 24 hours a day via phone or at our web site support center. Repairs on covered items and "next day" dispatched loaner units for uninterrupted service. Free software upgrades. Scheduled annual performance verification service. Web based training. Access to our extensive Knowledge Base library of operation and application related technical articles. And Gold "Members Only" special prices and promotions. Some benefits are not available in all countries.



Fluke Networks Wireless LAN Adapter Card specifications

Specification compliance	IEEE 802.11a, .11b, .11g
Host interface	Cardbus form factor with 32-bit interface
Interoperability	WECA compliant
Certifications	FCC part 15 (USA), Pre IC RSS210 certified, Telec (Japan), ETSI, EN301893, EN60950 (Europe)
Operating mode	Infrastructure and ad-hoc mode
Output power	18 dBm peak power
Operating distance	802.11a outdoor up to 310 m (1017 ft), indoor up to 40 m (131 ft) 802.11b outdoor up to 515 m (1670 ft), indoor up to 85 m (279 ft) 802.11g outdoor up to 300 m (984 ft), indoor up to 35 m (115 ft)
Security	40/64-bit, 128-bit WEP Encryption (open/shared) 802.1x, WPA, WPA PSK, WPA2/802.11i, WPA2/802.11i PSK Authentication AES-CCM & TKIP Encryption
EAP types	EAP TLS, LEAP, EAP FAST, PEAP GTC, PEAP MD5, PEAP MSCHAP-V2, PEAP TLS, TTLS PAP, TTLS CHAP, TTLS MSCHAP, TTLS MSCHAP-V2, TTLS EAP-MD5, TTLS EAP-GTC, TTLS EAP-MSCHAP-V2, TTLS EAP-TLS
Data rates	802.11a (normal mode) up to 54 Mbps 802.11a (turbo mode) up to 108 Mbps 802.11b up to 11 Mbps 802.11g (normal mode) up to 54 Mbps 802.11g (super mode) up to 108 Mbps
Operating temperature	0° C to 70° C (32° F to 158° F)
Storage temperature	-20° C to 70° C (-4° F to 176° F)
Internal antenna	Embedded dual band antenna
External antenna	VSWR 2.0, Gain 2.4 GHz - 2.485 GHz: 2 dBi. 4.9 GHz - 5.875 GHz: 3.5 dBi Cable Length 120cm

Models, options and accessories

Models	Description
OPVS3-WLESS	Wireless Suite includes: OptiView Wireless Option 802.11 a/b/g, InterpretAir WLAN Site Survey Software and AnalyzeAir Wi-Fi Spectrum Analyzer
OPV-WNA3	OptiView Wireless Option 802.11 a/b/g
IA-AA	Wireless Software Suite includes: InterpretAir WLAN Site Survey software and AnalyzeAir Wi-Fi Spectrum Analyzer
INTAIR-LAP	InterpretAir WLAN Site Survey Software
ANALYZEAIR	AnalyzeAir Wi-Fi Spectrum Analyzer



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