

## Omnipliance WiFi

*The Only WLAN Analysis Solution for Distributed Multi-Gigabit 802.11ac Networks*

### The Next Revolution in WiFi: 802.11ac

Higher throughput. Longer reach. WLANs that finally perform as fast as LANs.

There's a lot to like about 802.11ac. Enterprises recognize the benefits. That's why they're projected to buy 1.6 million 802.11ac access points in 2014, a more than sixfold increase over 2013.

But there's a catch. These new ultra-fast networks, delivering speeds up to 5Gbps, are too fast for the 433Mbps USB network adapters that network engineers rely on for capturing local WLAN traffic for analysis.

802.11ac will deliver unprecedentedly high performance to end users. It will also break the model that IT departments have been using for monitoring, managing, and troubleshooting their increasingly critical wireless networks. That's a problem.

*The 802.11ac standard delivers faster network performance and extends the reach of APs connecting to mobile devices. These advances are bound to raise end users' expectations for WLAN performance.*

*IT departments must be able to monitor and troubleshoot 802.11ac to meet these rising expectations and to keep end users productive.*

*WildPackets Omnipliance WiFi is the only WLAN analysis solution that give IT departments the visibility they need to keep 802.11ac networks running optimally.*

### Introducing WildPackets Omnipliance WiFi: Blazing Fast Analysis for Blazing Fast 802.11ac Traffic



**WildPackets Omnipliance WiFi is the only WLAN analysis solution that enables network engineers to monitor, analyze, and troubleshoot multi-Gigabit-speed 802.11ac traffic.**

The Omnipliance WiFi appliance supports 24x7 distributed network analysis, including forensic analysis of recent traffic, and takes advantage of the sensing capabilities of the 802.11ac access points that enterprises are already deploying.

## The Omnipliance WiFi Difference

Omnipliance WiFi marks an important evolutionary step forward in WLAN analysis and network forensics. This powerful appliance delivers:

### Gigabit Speeds

Omnipliance WiFi supports data capture at multi-Gbps rates—nearly 10x the rate achievable with traditional USB-based network adapters. Omnipliance WiFi ensures that network engineers can reliably capture *all* the wireless traffic they need to monitor, analyze, and troubleshoot.

### 24x7 Enterprise Visibility

Omnipliance WiFi provides 24x7 visibility across all WLANs under management. Install Omnipliance WiFi near WLAN controllers and capture traffic from 802.11ac access points installed as part of your WLAN rollout.

Until now, network engineers have needed to travel to any WLAN requiring attention—regardless of whether that WLAN was on the next floor, in the next building, or in the next town. Omnipliance WiFi enables network engineers to monitor WLANs remotely from any networked location.

Real-time remote analysis enables IT departments to respond more quickly to WLAN issues. They can instantly begin capturing and analyzing traffic and reduce Mean Time To Resolution (MTTR) without costly labor expenses.

### Time-saving Analytics

With the most comprehensive analysis capabilities of any WLAN analysis solution available today, Omnipliance WiFi helps IT engineers find the root cause of problems with unprecedented speed and ease. From simple issues like little or no connectivity from an AP, to complex issues like intermittent dropped connections on specific BYOD devices, Omnipliance WiFi can address it all.

Omnipliance WiFi supports forensic analysis of traffic that occurred minutes, hours, or days earlier.

Forensic or “retrospective” analysis is invaluable for troubleshooting intermittent WiFi problems—such as dropped connections and RF-related anomalies.

With access to captured traffic and advanced tools for network analysis, IT engineers can:

- Troubleshoot network performance issues, including hard-to-diagnose issues that occur only intermittently.
- Keep business-critical services like VoFi running smoothly.
- Perform transactional analysis with the “ultimate audit trail” for transactions, such as database transactions.
- Find proof of security attacks, including data breaches, suggested by alerts raised by other security tools.



## Omnipliance WiFi: Key Features

### Capture and Store WLAN Traffic at Multi-Gbps Speeds

Omnipliance WiFi restores the network visibility that IT departments lost once WLAN speeds exceeded the capabilities of WLAN USB adapters. As the only wireless forensics appliance on the market, Omnipliance WiFi provides a complete recording of hours or days of WLAN traffic, enabling engineers to troubleshoot intermittent problems as well as problems that occurred hours or days earlier.

### Capture Data Directly from Deployed Access Points (APs)

Omnipliance WiFi captures traffic from the APs already deployed—either dedicated APs or APs that can be switched to analytical roles as needed. Omnipliance WiFi has been tested and proven with 802.11ac APs from leading vendors such as Cisco and Aruba. The solution works with any supported AP and imposes no limits on spatial streams, optional features, or technologies (a/b/g/n/ac).

### Comprehensive Analysis for Voice-over-Wireless (VoFi)

Building on WildPackets' industry-leading VoIP and VoFi analysis, Omnipliance WiFi provides detailed reporting and powerful analysis tools for monitoring VoFi traffic and solving even the most elusive performance problems.

### Multi-channel Analysis

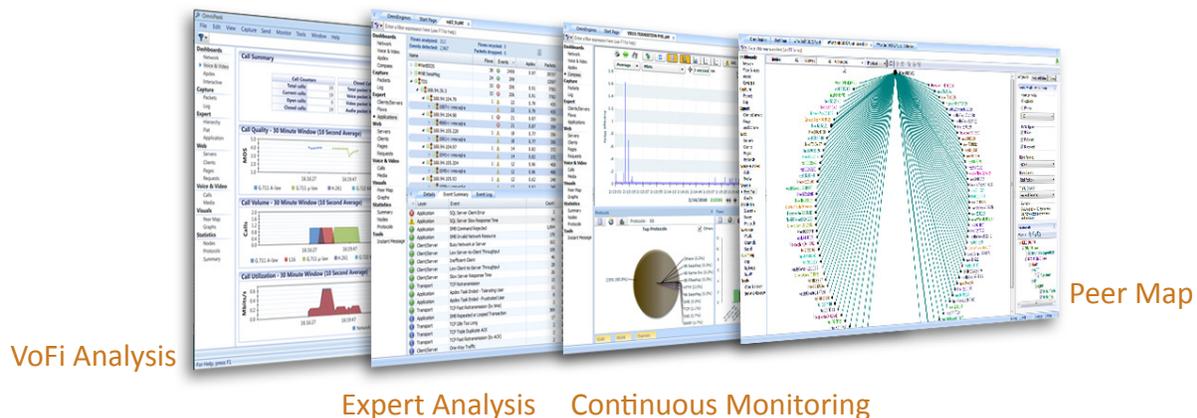
Wireless clients move automatically from AP to AP and from channel to channel. Busy APs sometimes drop clients, causing them to connect to other channels on other APs. To help engineers troubleshoot these elusive events, Omnipliance WiFi simultaneously collects data on all channels in use, providing a 100% complete and accurate view of the WLAN.

### Real-time Roaming Analysis

Other network analysis products track the roaming of mobile devices, but only WildPackets performs this analysis automatically and summarizes the results in a concise report. Omnipliance WiFi makes it easy for engineers to monitor overall roaming performance and to quickly isolate problems.

### Expert Analysis

WildPackets Expert analysis provides comprehensive, real-time intelligence about performance and security issues. It also helps engineers track wireless conversations, authentications, rogue access points, and other events of interest. By providing the context and severity ranking for sometimes cryptic network events, Expert Analysis helps engineers quickly pinpoint the root cause of problems.



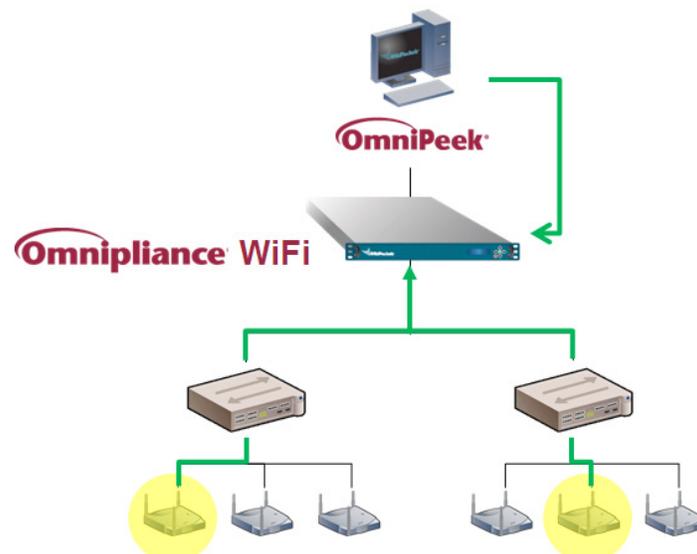
## Comprehensive 24x7 Analysis of Distributed WiFi Network

### Distributed WLAN Analysis

Distributed WLAN analysis uses deployed APs to capture data. The Omnipliance is deployed at the WLAN controller to analyze and store data. The Wi-Fi analysis is performed locally at the Omnipliance and provides ongoing 24x7 analysis. This integrated approach is well suited for environments with high Wi-Fi data volumes like financial trading, hospitals, enterprises, universities, and school districts.

### Remote Analysis

As enterprises broaden their deployment of WLANs, NOC engineers and other IT administrators find themselves responsible for managing WLANs that are across a campus or even across the country. Remote analysis eliminates the need to travel to a hotspot for troubleshooting. Omnipliance WiFi uses already deployed APs to capture data locally, presenting it for analysis that can be performed from any networked location. Remote Analysis can also forward the data over the wired network to an engineer's desktop for immediate analysis.



*Omnipliance WiFi captures data from 802.11ac already deployed in WLANs through the enterprise. Traffic can be analyzed locally with OmniPeek WildPackets' award-winning network analyzer.*

## About WildPackets

WildPackets, Inc., founded in 1990, develops network and application analysis solutions that enable organizations of all sizes to analyze, troubleshoot, optimize, and secure their wired and wireless networks. WildPackets has more than 6,000 customers, and its products are sold in over 60 countries in all industrial sectors. Customers include Houston Methodist Hospital, Apple Computer, Cisco, Google, Vocera Communications, and over 80% of the Fortune 1000. For more information, please visit [www.wildpackets.com](http://www.wildpackets.com).



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