

Omnipliance WiFi

Maintaining WLAN Performance for Even the Fastest 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 over a quarter of the access points they're buying support 802.11ac—and that percentage is only increasing.

But there's a catch. These new ultra-fast networks, delivering speeds up to 7 Gbps, are too fast for the 433 Mbps USB network adapters that network engineers rely on for capturing local WLAN traffic for analysis.

802.11ac, while delivering very high performance to end users, breaks the model that IT departments have been using for monitoring, managing, and troubleshooting their increasingly critical wireless networks. That's a problem.

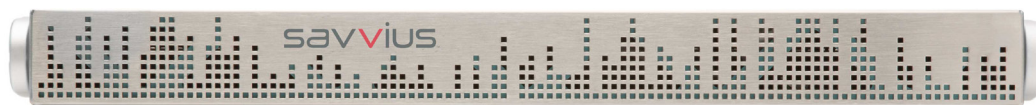
Savvius has the solution.

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.

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

Introducing Savvius Omnipliance WiFi: Analysis at the Speed of 802.11ac



Savvius 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 currently 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 Savvius's 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

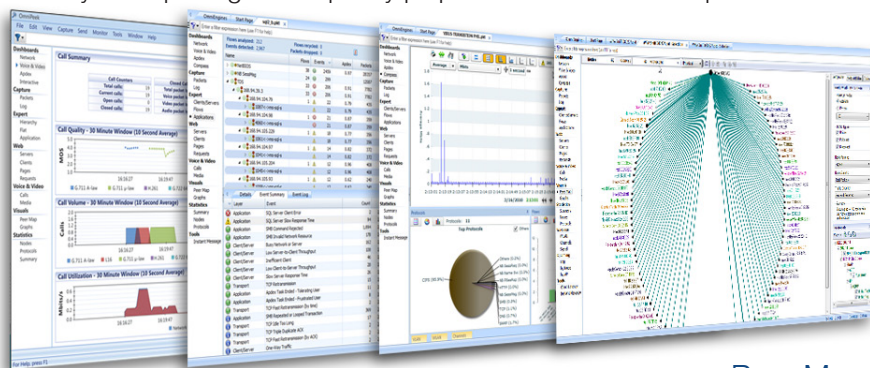
Wireless clients move automatically from AP to AP and from channel to channel. Busy APs sometimes drop clients, causing them to connect to other channels on other APs. To help engineers troubleshoot these elusive events, Omnipliance WiFi simultaneously collects data on all channels in use, providing 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 Savvius 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

Savvius 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.



VoFi Analysis

Expert Analysis

Continuous Monitoring

Peer Map

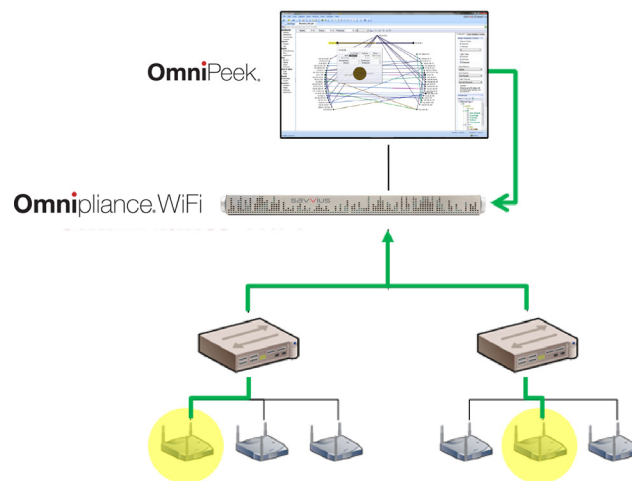
Comprehensive 24x7 Analysis of Distributed WiFi Networks

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 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 APs already deployed in WLANs throughout the enterprise. Traffic can be analyzed locally with OmniPeek, Savvius's award-winning network analysis software.

About Savvius

Savvius, Inc., a leader in packet-level network analytics and security forensics, enables network and security professionals to identify, understand, and respond to challenges in network performance and security. Savvius, formerly WildPackets, has sold products in more than 60 countries and all industrial sectors. Customers include Apple, Boeing, Cisco, Deutsche Telecom, Fidelity, Microsoft, Nationwide, and a high percentage of the Fortune 1000. Savvius is a Cisco Solution Partner. For more information, please visit www.savvius.com.

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