Extreme AirDefense®
Services Platform

Holistic Network Services Management for WLAN

SOLUTIONS FOR EVERY NEED

SECURITY AND COMPLIANCE

Define, monitor, and enforce corporate wireless LAN policies and/or regulatory compliance policies.

NETWORK ASSURANCE

Remotely identify and remediate network problems that impact wireless applications and proactively optimize network performance.

PROXIMITY AWARENESS AND ANALYTICS

Real-time indoor locationing and analytics services use your existing Wi-Fi infrastructure to enhance customer experience and build stronger relationships.

CLOUD DELIVERY OPTION

The Extreme Networks WLAN Cloud Service offers advantages that make it uniquely attractive for fast-changing or limited deployments. There is no expensive dedicated server to buy – Extreme's's secure cloud infrastructure provides all the computing power you need for sophisticated data analysis. There's no software to maintain – we install all patches and updates at the server end, so you can always have access to the latest , most secure version of your ADSP functionality.

Meanwhile, control of your network stays in your hands. Your confidential data stays confidential. Your IT resources stay focused on your business. Upfront investment is minimized and your ongoing expenses are predictable. You pay only for what you use – and you use the most sophisticated, comprehensive suite of WLAN management tools available.

Product Overview

Wireless connectivity provides unique opportunities to communicate in new and powerful ways, but it also brings its own set of vulnerabilities, complexities and management challenges. To get the best out of your wireless network without risking its worst, you need the right set of tools.

The Extreme AirDefense Services Platform (ADSP) simplifies the management, monitoring and protection of your WLAN networks. The platform supports security and compliance, network assurance, and proximity awareness and analytics – within a modular architecture to maximize deployment flexibility and minimize the cost of implementation.

The ADSP combines the information collected from your network of sensors or access points with the analytical power of an intelligent central console to provide 24/7 network monitoring, automate security, and enable regulatory compliance, remote troubleshooting, and location services.

FLEXIBLE

A secure network environment is critical to your business. So is the flexibility to adapt to the changing demands of your customers and employees. The AirDefense Services Platform gives you the control and intelligence you need to rollout new applications and services to empower and engage your users, without risking exposure of sensitive information. Two delivery options are available – premise-based and a cloud-based delivery option which gives you even more flexibility for quick deployment, easy budgeting and minimal upfront cost.

Extreme®
Connect Beyond the Network

CENTRALIZED

You want to focus resources on running your business, not on running your network. So we simplified network administration by creating a single graphical user interface and central management console, for a holistic view and easier control of your wireless network performance.

CUSTOMIZABLE

Your organization is unique and so are your business needs. The Extreme AirDefense Services platform is modular and functionality can be accessed from either a dedicated server on your premises or from Extreme's WLAN Cloud Services infrastructure, and can be tailored to your specific requirements. Security and Compliance, Network Assurance, Infrastructure Management, and Proximity Awareness and Analytics are seamlessly integrated to give you a single powerful tool for maximizing your wireless network productivity.

Security and Compliance

Maximizing the productivity of your wireless assets means maintaining the strongest security posture possible. AirDefense security and compliance suite works seamlessly across your wireless network to detect and neutralize rogue devices, enforce policies, prevent intrusion and ensure regulatory compliance. Automated tools for threat mitigation and policy enforcement give you the confidence of real-time response to risks and a more effective security posture.

WIRELESS INTRUSION PREVENTION SECURITY (WIRELESS IPS) MODULE

By analyzing existing and day-zero threats in real-time against historical data, the AirDefense Wireless IPS module can accurately detect wireless vulnerabilities and unusual network activity. Context-aware detection, correlation and multi-dimensional detection engines mean minimal false positive alarms. An extensive threat library and customizable policy settings let the system respond automatically to more than 200 wireless threats, reducing the chances of damage to your network.

WIRELESS VULNERABILITY ASSESSMENT MODULE

The AirDefense Wireless Vulnerability Assessment module uses an industry-first, patented technology to remotely test wireless security. It allows administrators to automatically log on to an access point and test for vulnerabilities from the perspective of a wireless hacker. Extreme sensors conduct wireless penetration testing, proactively identifying vulnerabilities before they can be exploited, so you can better manage threats and keep your systems secure.

ADVANCED FORENSICS MODULE FOR SECURITY AND COMPLIANCE

Wireless events tend to be transient by nature, making analysis of security and performance issues difficult. The AirDefense Advanced Forensics module captures a complete record of WLAN performance – 325 data points every minute for every identified wireless device – giving administrators the ability to rewind and analyze detailed records of wireless activity in support of forensics investigations or network performance troubleshooting.

CENTRALIZED MANAGEMENT CONSOLE MODULE

The AirDefense Centralized Management Console (CMC) module provides administrators and IT staff a single holistic view into the wireless network. For large scale deployments which require thousands of sensors and/or tens of thousands of managed devices, the CMC provides aggregated views of the data on multiple appliances and a single point for configuration changes. CMC streamlines the monitoring of security events, automates management, and speeds time-to-resolution of network issues, thereby improving productivity.

Network Assurance

The AirDefense Network Assurance suite gives you a real-time view of all WLAN traffic, enabling IT administrators to quickly identify and respond to issues and misconfigurations, proactively monitor the network's availability, and remotely troubleshoot RF problems. With both real-time and historical tools, appropriate diagnosis and correction is faster and less costly and the need to travel onsite to troubleshoot wireless network issues is practically eliminated.

CLIENT TROUBLESHOOTING MODULE

The AirDefense Client Troubleshooting module lets tier one help desk personnel with limited wireless networking expertise easily identify the exact connectivity problem, so they can resolve it or escalate it as appropriate. The module's sophisticated analysis engine will quickly identify device level problems, wireless network health and availability, wireless network or client configuration and wired network connectivity issues.

ACCESS POINT (AP) TESTING MODULE

The AirDefense Access Point Testing module lets you proactively identify problems with wireless applications by periodically performing end-to-end network testing. Our unique technology uses Extreme access points to emulate wireless clients. Connection testing can then be run automatically to proactively detect network problems or on-demand for real-time troubleshooting. Designated team members are automatically alerted to ensure appropriate escalation and timely remediation.

SPECTRUM ANALYSIS MODULE

The AirDefense Spectrum Analysis module uses your Extreme WLAN infrastructure (dedicated sensors or access points) to troubleshoot interference problems without dispatching a technician to the physical location. The AirDefense Spectrum Analysis module is a software-only solution that allows you to view the physical layer of your wireless network – without specialized hardware – so you can cost-effectively identify, classify and resolve interference issues that limit the productivity of your WLAN.

ADVANCED FORENSICS MODULE

The AirDefense Advanced Forensics module provides administrators the ability to rewind and review detailed records of wireless activity. It allows organizations to view events months later to improve network security posture, assist in forensic investigations and ensure policy compliance.

LiveRF MODULE

The AirDefense LiveRF module performs sophisticated RF propagation analysis – taking into account the radio characteristics of your real environment such as objects, walls, floors and ceilings – to let you identify coverage and capacity issues within your network. With our unique side-by-side comparative analysis and rewindable RF visualization, you can look "back in time" at past conditions to identify intermittent sources of interference and changing usage patterns.

Proximity Awareness and Analytics

Today's consumers already rely on smartphones and other wireless devices to stay in touch everywhere they go. Now AirDefense Proximity Awareness and Analytics make it possible to use those devices to reach out and engage consumers within your environment. By adding presence sensing and locationing to AirDefense's powerful data collection and analytic tools, you can create a truly unique experience for customers. The result is more involvement, more loyalty and more tailored revenue-building opportunities.

AirDefense Proximity Awareness and Analytics suite supports a number of key functions:

Presence Services

- Detect customers on premises
- Support rules-based push – welcome, coupons, specials

Locationing (RTLS) Services

- Define zones to detect customers in specific areas
- Drive promotions and increase per-customer revenue

Historic Location Analysis

- Track single/multiple device location and path over time
  - Quantify value of shelf space based on location in store
  - Identify customer flow and congestion

Wi-Fi Analytics

- Track detailed statistics about customer activity (per-store visit time, repeat customers, total customers in store, demographic profiles)
- Enable manager to better understand customers

Defend and Extend Your Wireless Network's Value

The AirDefense Services Platform provides you with a complete suite of WLAN security and management solutions, delivered on a dedicated server at your site or through Extreme's secure cloud network. With AirDefense, you can engage customers, build loyalty, satisfy regulatory requirements, provide 24/7 monitoring, simplify network management and remotely troubleshoot network performance.

Use our Security and Compliance function to prevent costly security breaches and lost productivity, while you meet regulatory security audit requirements. The Infrastructure Management function, with its centralized console, eliminates the need for multiple management systems and allows your organization to monitor WLAN infrastructure across multiple device types and multiple vendors. The Network Assurance function includes analysis tools that allow organizations to proactively optimize wireless LAN performance as well as remotely troubleshoot RF problems. Finally, combine your powerful AirDefense analytic and data collection tools with Proximity Awareness and Analytics to tailor a more interesting and engaging experience for your customers – and reap the revenue benefits you can create.

With the AirDefense Services Platform, customers have a holistic network service management solution for their WLAN with a feature set and functionality that will maximize value and efficiency, improve operations, and enhance customer relationships, mitigate risk, and assure compliance.

AIRDEFENSE SERVICES PLATFORM		
SECURITY AND COMPLIANCE	NETWORK ASSURANCE	PROXIMITY AWARENESS AND ANALYTICS
Wireless IPS	Client Troubleshooting	Presence Locationing
Wireless Vulnerability Assessment	AP Testing	Historic Location Analysis
Advanced Forensics	Spectrum Analysis	Wi-Fi Analytics
Centralized Management Console	Advanced Forensics	
	LiveRF	

System Requirements For Premise-Based Solutions

A server appliance is required to run the AirDefense Services Platform and all AirDefense modules. (Cloud solution does not require a server.)

Contact your Extreme Networks representative for more information on server options.