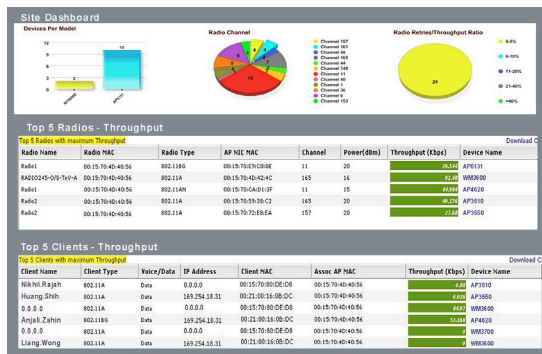


Wireless Management Suite



Extreme Networks® Wireless Management Suite is a scalable, full life cycle management toolset for Summit® WM3000 series wireless LANs.

Deployment Simplicity

- Import site planning data
- Network discovery
- Visual validation of wireless deployment
- Configuration management

Management Simplicity

- Dashboard view of network health
- Alarm and event correlation
- RF visualization with heat maps
- Advanced RF diagnostics
- Predefined and customized reporting

Comprehensive Security Features

- WIPS interface
- Role-based user administration
- SNMPv3, SSH-2 and HTTPS protocol support

Service Extensibility

- Manage 3rd party devices

Extreme Networks Wireless Management Suite (WMS) is an intuitive, browser-based, wireless network management solution for deployment, management, troubleshooting and monitoring of enterprise WLANs. Network administrators can manage hundreds of sites as well as thousands of devices, view the status and location of wireless infrastructure devices and clients, search for specific pieces of equipment, troubleshoot network issues, generate reports and export raw data. Network administrators with little or no RF experience can manage their wireless networks within a few hours of installing WMS.

What can you determine about your network at a glance? What's up and what's down, and how is everything configured? The answers to these questions are essential to delivering the applications and performance that users demand. To compound the challenge, today's wireless networks are subject to:

- Increased access to mission-critical applications
- Constantly changing service offerings
- Unpredictable and rapidly growing network traffic
- Pressing requirements for simplicity and expediency in wireless network deployment
- Security issues that threaten network integrity and network management access

WMS enables a network administrator to respond in a timely manner to such challenges.

WMS delivers the complete life cycle management of your wireless network.



WMS Features

WMS version 3.3 simplifies the deployment and maintenance of scalable multi-controller, multi-site enterprise wireless LANs. A single WMS platform can manage a network of up to 8,000 access points.

Deployment Simplicity

It is a challenge to deploy a wireless network correctly the first time. Sometimes customers have to go through the pain and expense of redeployments to achieve the desired coverage and capacity. With WMS, customers have a rich toolset to enable them to deploy their wireless network correctly the first time. WMS comes bundled with Summit WMScanner, a tool used for network device deployment, building formatting and site surveys. WMS and Summit WMScanner provide a highly integrated toolset for network design, management and survey.

Summit WMScanner allows you to import building floorplans and measure performance using its site survey capabilities. Summit WMScanner enables WMS to define new coverage areas, generate updated floor plans and display device locations, as well as allows layout and measurement of wireless LANs.

The WLAN design process begins by modeling your deployment environment with Summit WMScanner. This can be achieved by manually defining the building layout or by importing existing building information from a variety of sources. Import formats include CAD files, scanned images, and digital pictures. Summit WMScanner is designed to provide advanced network modeling and verification utilities that allow a user to visually display network coverage and performance within a site-specific map of their deployment environment. Customers can create designs separately using a RF simulation tool like Motorola's LANPlanner. The LANPlanner design can be imported into WMS and then validated in an actual deployment situation with Summit WMScanner.

A network view map is automatically generated by WMS based on the devices found with the WMS network discovery process. The network view shows the logical connection of the devices. An RF view defines how devices and coverage area maps display. Additionally, RF view shows wireless clients in a site map with respect to their associated device radios.

WMS does a compliance check on saved configurations for wireless network devices. It checks the running configura-

tion of a device (e.g. a controller) against the saved configuration in WMS and alerts the network administrator to any differences. The network administrators can accept or reject the changes and use the configuration template to change the configuration of the device.

Management Simplicity

WMS provides several dashboard level views on the health of the network. Network administrators can select global (multi-site) level, site level and device level dashboards. In addition one can select a dashboard view of a particular SSID. Dashboard views provide a quick graphical view of the network health status and allow timely decisions to be made to ensure continued wireless service.

Alarms and events are graphically displayed by both severity and category. Severity and category information can be displayed in pie chart, column chart and grid formats. Move the cursor over the graphic to display alarms and events based on percentage of total (pie chart) or number out of total (column chart). This is an enhancement over previous releases, as administrators can now visually assess the severity of alarms and events with respect to the total number of other existing events of both greater or lesser severity. Network administrators can refine how alarms and events are filtered for display and manipulation. Alarms and events can be filtered (displayed) daily, over the last three days, over the last seven days. This helps refine how data is trended with respect to any or all events or alarms. The network administrators can be notified by email when a new event or alarm is generated. In addition, an SNMP trap is generated.

In RF view, wireless coverage (heat) maps can be displayed by RSSI (Received Signal Strength Indicator) value and by frequency channels used. The 20MHz and 40MHz channels can be displayed for 802.11n operation. In addition, the particular type of radio (2.4/5GHz) can be displayed as well as walls and the type of walls in the site and RF views.

A network administrator can initiate diagnostics on a controller, access point or client device. Parameters include SSID details, number of clients associated to a

SSID or AP, SNR (Signal to Noise Ratio), RF utilization of an AP radio, and bit rates. These comprehensive diagnostic tools enable the network administrators to quickly troubleshoot the problems and restore service. The data collected by WMS can be reported in raw-data and graphical formats. The data collected within a WMS report is periodically polled by the MIB structures supporting WMS device monitoring and data collection activities.

Comprehensive Security

WIPS (Wireless Intrusion Protection Software) helps protect your wireless network, mobile devices and traffic from attacks and unauthorized access. WIPS provides tools for standards compliance and around-the-clock 802.11a/b/g wireless network security in a distributed environment. WMS permits the optional deployment of the Motorola AirDefense WIPS as an application launched from within WMS. WIPS is not bundled with WMS. It is separately installed and launched as an independently licensed application within the WMS interface.

WMS has the ability to launch Motorola AirDefense WIPS and receive SNMP traps generated by the WIPS server. Therefore a WMS maintained site can be secured by the device detection capabilities resident to the WIPS application. WMS also has the ability to define and deploy sensors used by WIPS as detecting radios to locate the position of a potentially hostile device or devices with excessive association/authentication requests. WMS can launch the AirDefense WIPS server from its console.

For the highest level of security, WMS supports SNMP v3 protocol. WMS has the ability to associate a user to a particular site. In such cases, it's possible a user has access to a particular site and some devices at the site. For example, the user can access APs but not the controllers at that site.

Service Extensibility

WMS provides the ability to discover and manage 3rd party infrastructure devices – both wired and wireless. These include FAT APs. Multi-vendor management includes discovery of 3rd party devices, asset management and status. WMS has the ability to process MIB-II traps from 3rd party infrastructure devices.

Technical Specifications

System Requirements

- Processor: Dual Processor- 3.20GHz
- RAM: Min 4GB
- Hard Disk: Min 80GB
- Operating System: Microsoft 2003 Server Edition SP1
- Web Browsers: Firefox 2.0, Internet Explorer versions 6.0 and 7.0

Management Capacity

- Up to 8,000 Access Points

Warranty

- 90 Day Software

Ordering Information

Part Number	Name	Description
15741	Wireless Management Suite Base Software	Wireless Management Suite (WMS) base server software. Includes Summit WMScanner application and support for 50 APs.
15742	Wireless Management Suite 25 AP License	Wireless Management Suite (WMS) 25 AP capacity upgrade license.
15743	Wireless Management Suite 50 AP License	Wireless Management Suite (WMS) 50 AP capacity upgrade license.
15744	Wireless Management Suite 100 AP License	Wireless Management Suite (WMS) 100 AP capacity upgrade license.
15745	Wireless Management Suite 250 AP License	Wireless Management Suite (WMS) 250 AP capacity upgrade license.
15746	Wireless Management Suite 500 AP License	Wireless Management Suite (WMS) 500 AP capacity upgrade license.
15747	Wireless Management Suite 2000 AP License	Wireless Management Suite (WMS) 2000 AP capacity upgrade license.
15748	Wireless Management Suite 5000 AP License	Wireless Management Suite (WMS) 5000 AP capacity upgrade license.



www.extremenetworks.com

Corporate and North America
 Extreme Networks, Inc.
 3585 Monroe Street
 Santa Clara, CA 95051 USA
 Phone +1 408 579 2800

Europe, Middle East, Africa and South America
 Phone +31 30 800 5100

Asia Pacific
 Phone +852 2517 1123

Japan
 Phone +81 3 5842 4011