

SOHware NMS (SNMS)

Network Management for AeroGuard™ MIMO Solutions



SOHware NMS is a powerful appliance based management solution for remotely monitoring multiple deployment sites where AeroGuard™ MIMO Access Points are installed. Utilizing a client server architecture, IT VARs who deploy AeroGuard™ solutions can easily integrate advanced management services into their solution portfolio, offering their customers more advanced services while cost effectively managing deployments throughout their territory.

SNMS is deployed in a VAR or end user's operations center, and includes the rack mount server appliance and a Client application for a desktop Windows environment.

Features and Benefits

Network planning, configuration and deployment - automatically scan deployed networks and conduct AeroGuard™ AP discovery. The resulting network topology map presents a powerful representation of channel usage and communication links. SNMS enables the automatic distribution of configurations and firmware upgrades to deployed APs throughout a specific network.

Security Management - SNMS provides secure verification of AP identity, which restricts network enrollment to known AP's only, and allowing network managers to set up security parameters for user access to the wireless network. SNMS detects rogue APs and external attacks and intrusions, pinpoints the problem and alerts the system operator to the exact nature of the security attack.

Performance Monitoring and Management - provides real-time information about network health and assists in identifying potential network problems before they move into a lost or alarm state. Detailed plots provide visual assessment and performance trend identification. SNMS automatically diagnoses, troubleshoots and repairs a wide array of error conditions before the WLAN can be affected.

Centralized Multi-Site Scalability - Provides centralized management for AeroGuard™ deployments of any size, including single subnet office deployments as well as multi-site distributed deployments. Applicable to Enterprise network administrators and IT Resellers offering management services.

Specifications

Software Features

Management Portal Aggregation

Leverages the capabilities embedded in AeroGuard™ APs assigned as Management Portals, which are distributed throughout a network or in multiple networks. Management Portals aggregate and filter fault reporting and monitoring data and assist in the distribution of policy updates and firmware upgrades.

JAVA-based client-server architecture

SNMS server functions are accessed via a Client utility designed for a Windows 2000 or XP station. Configuration management functions, such as AP enrollment, user management, policy management, and software downloads, are implemented using secure HTTP (HTTPS). Device management functions such as node discovery, the Access Point Explorer, and performance monitoring are implemented using SNMP versions 2 or 3.

Automatic discovery of network topology

Automatically scans specified networks or individual nodes, discovers the AeroGuard™ APs in the network, and presents the network topology. SNMS constantly monitors the network to identify, classify, and isolate rogue APs.

Fault Management

Comprehensive fault management capabilities help the network manager to predict, analyze, and repair wireless network faults.

- Alarm management: provides a real-time view of any real or potential issues, and classifies, analyzes, correlates, and predicts critical events.
- Event management: tracks noteworthy occurrences, such as configuration changes to Access Points.

Configuration Management

Provides the network manager with the ability to save and restore Access Point configurations, reboot Access Points, and reset configurations using the Access Point Explorer Web interface.

Performance Management

Provides real-time information about network health including detailed plots that provide visual assessment and performance trend identification. Assists in identifying potential network problems before they move into a lost or alarm state.

Server Appliance Performance

CPU	Intel 1GHz or better
BIOS	512KB Flash
Memory	1G byte DDR DIMM
Enhanced IDE	80G byte hard disk storage
Ports	Ethernet - one, 10/100Base-T (802.3u) Serial - two, DB-9 USB - two, version 1.0
O.S.	Windows 2000 Professional or Windows XP Professional

Server Appliance Physical

Dimensions	IPC - 1U Rack Mount - 426 x 254 x 44mm
Operating Temperature	0 to 50 degrees C
System Monitoring	System temp, Fan, Voltage
Peripherals	Keyboard and Mouse (USB 1.0 compatible) - included
Installation	Requires VGA monitor - not included Rack mount hardware - included

Client Utility

CD-Rom - Requires PC station running Windows 2000 or XP Professional

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