

NMS1000

Intelligent Network Management System



Wireless Broadband anytime & anywhere



NMS1000 Advantages

Graphical Network Management

- Graphical placement of router.
- Overview of network performance and optimization priorities.
- Remote Access – GUI and CLI.

Network Discovery

- Automatic discovery.
- Real-time mapping.
- Ability to block or delete networks or nodes.

Topology Mapping

- Visual maps of topology.
- Real locations of nodes, links, link status and clients.

Fault Management

- Network events.
- Automatic alarms.
- Pre-defined triggers.
- Remote upgrades.

Performance Monitoring

- View real-time statistics and historical data of wired and wireless backhaul and client access activity.
- Analyze traffic throughput and client access information of the routers.

Delivering Network Intelligence to the World of Broadband Wireless

Centralized Wireless Management Solution

NMS1000 is a complete network management system (NMS) that offers comprehensive fault, performance and security management, helping operators maximize network performance. This centralized management system provides an easy-to-use platform with high expandability for remote configuration, software upgrades, real-time monitoring, and performance management. With the NMS1000, network operators can configure and control a complete network built with Azalea Networks products.

Client/Server Architecture

The Azalea NMS is built on traditional client/server design. The server stores and exports network management information, such as network statistics, mesh and node configuration, administrator access privileges, user preferences and fault log records.

Configuration Management

The NMS1000 automatically discovers all routers in the mesh network and downloads their configuration information to the database. The NMS detects and analyzes configuration of a network at any given time while graphically displaying its topology. It rediscovers all nodes in a network at any time and provides real-time topology updates, minimizing network planning, deployment and management costs. The NMS1000 supports batch provisioning and remote configure elements by using Telnet or SSH tools.

Graphical Network Management

The Java-applet based client offers a Graphical User Interface (GUI) for monitoring and managing all mesh-wide and individual node configurations. The GUI provides at-a-glance information about network status (including automatic node detection, link degradation etc.), performance statistics and current or logged faults.

Topology Mapping

Leveraging real-time mapping technology, the NMS1000 generates visual maps of the network topology, displaying real location images of the nodes, connecting links (backhaul and access), link status, link quality and number of clients connected to each node.

Fault Management

The NMS1000 continuously monitors the network for link state and device condition, and generates an alarm in response to pre-determined triggers. The extensive fault management capabilities of the NMS allow network operators to view router properties, and diagnose problems in real time. All nodes can be remotely upgraded from the NMS in batch mode ensuring timely updates.

Applications

Carrier Grade Broadband Wireless Infrastructure

Versatile deployment options — an all-wireless mesh network or a broadband wireless access network with hybrid wired/wireless backhaul.

Video Surveillance

Transmits high-definition video using Active Video Transport™ (AVT) technology for mission-critical video applications, video surveillance cameras and monitors.

Wireless Mobility

Offers high-speed roaming in a Layer-3 implementation, allowing uninterrupted Internet access on the move.

Wiring-free Environments

Wireless broadband network infrastructure can be easily deployed for applications where wiring is unavailable such as oil fields, factories and warehouses.

VoIP communications

Provides cross-IP subnet roaming and maintains a continuous connection for VoIP applications.

About Azalea

Azalea Networks delivers network intelligence to broadband wireless infrastructure through an innovative wireless routing technology that sets new standards in price and performance.

To learn more about Azalea Networks,
Toll Free: 866-939-6374
Phone: 408-582-1301
Fax: 408-719-1247
Email: info@azaleanet.com

www.azaleanet.com

Performance Monitoring

The NMS1000 provides advanced graphical and topological monitoring capabilities to network administrators to filter network performance data for each node. The NMS collects information about Wi-Fi terminals, such as MAC address, IP address, signal intensity, throughput and traffic status and stores the information in its performance database. As the network grows and changes, the Azalea NMS automatically provides real-time updated maps, enhancing the accuracy of the network monitoring process.

Enhanced End-to-End Security

Azalea's NMS supports VLAN implementations and SNMP, allowing operators to monitor the wireless network alongside their wired network. The NMS allows centralized control of user authorization throughout the entire network, including the prevention of rogue association with the wireless network.

Technical Specifications

System Configuration

Processor: Pentium Core 2 Duo 3.0GHz
Operating System: Linux
Memory: 1GB DDR2 667
Hard Drive Configuration: SATA 80G 7200RPM
Network Adaptors: Dual GE LAN

Others

SNMP v1, v2c, v3 support
Client/server mode
Power: 100~240 VAC 50/60Hz

Approvals

Safety: EN 60950-1, IEC60950-1, UL 60950-1, CAN/CSA-C22.2 No.60950-1
EMC: EN55022,EN55024,EN61000, CFR47, FCC Part 15
Certification: FCC, CE, CB, cTUVus

Accessories

A variety of accessories are available for use with the Azalea routers. These include omni-directional antennas (for access), directional antennas (for backhaul), ethernet cables, power cables and console cables. Please see your local Azalea representative for additional details.

Ordering Information

| | |
|----------------|--|
| NMS1000-010-XX | Azalea NMS1000, Azalea NMS platform with 10 router licenses |
| NMS1000-050-XX | Azalea NMS1000, Azalea NMS platform with 50 router licenses |
| NMS1000-100-XX | Azalea NMS1000, Azalea NMS platform with 100 router licenses |
| NMS1000-200-XX | Azalea NMS1000, Azalea NMS platform with 200 router licenses |
| NMS1000-300-XX | Azalea NMS1000, Azalea NMS platform with 300 router licenses |
| NMS1000-400-XX | Azalea NMS1000, Azalea NMS platform with 400 router licenses |
| NMS1000-500-XX | Azalea NMS1000, Azalea NMS platform with 500 router licenses |