

# AeroMesh™ WMS80-NMS

## NMS Mesh Network Appliance

The AeroMesh Network Management System is a client/server-based software that provides centralized, real-time management and monitoring of AeroMesh network deployments in various infrastructure scenarios. The Java-applet based client includes an intuitive graphical user interface (GUI) for managing AeroMesh routers in a single network, including configuration of backhaul links, access radios, routing, internetworking, and more. The Real-time mapping feature provides a graphical, birds-eye view of the network topology, highlighting both layer-2 and layer-3 connections. The map supports background customization to merge physical site and logical node features into one unified network view including link status and access coverage. The fault management module contains a log of all faults and events for the network, and is adjustable to display information collectively or filtered for a single device.

The NMS server is available on a Celeron based IPC appliance for Network Operations Center integration.



### *Features and Benefits*

**Client/Server Architecture** - Client/server design, with server-side persistent database that stores mesh router configurations, network statistics, event logs, and NMS user accounts. A Java applet client offers an intuitive GUI to conduct various management functions of the Mesh network.

**Automatic Mesh Discovery** - NMS automatically discovers AeroMesh routers in a specific Mesh network, imports their configurations, and analyzes their configurations for display of the topology on the network map. The topology is periodically verified to maintain current view accuracy.

**Site Specific Topology Mapping** - Accepts import files of aerial photos, site plans, or street maps for customized backgrounds on a site by site basis. Router device locations and their link topologies are overlaid to present a geographically relevant portrayal along with active performance data.

**Fault Management** - NMS continuously monitors the state of the Mesh network for link and device condition, and responds to events by automatically updating the topology map and generating an alarm in response to a pre-determined trigger. Event logs may be viewed collectively or per device.

**Performance Monitoring** - Performance data on radio signal strength, packet and data throughput, and other statistics are logged and available in table or graphical form, collectively or per device.

**Centralized Device Configuration** - Supports configuration file creation and distribution to the AeroMesh routers, including RF and interface settings, routing conditions, and the allocation of unified SSID and Policy profiles.

**Client Identification and Tracking** - NMS displays information about the associated Clients on the network allowing the dynamic tracking of individual Clients at the Router level.

**Centralized Firmware Control** - Supports centralized distribution of device firmware images on a device or batch basis from one administrative location.

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