

BelView Network Management System (NMS)

The BelView Network Management System (BelView NMS) is a comprehensive software package that allows network operators to easily monitor and manage a complete network built with any combination of BelAir Networks wireless mesh products. BelView NMS makes you rethink how NMS solutions should work, by using the latest GIS-based mapping software and GPS information to set-up and help in managing your network – maximizing utility while minimizing cost to both end users and network administrators.

Wide-area wireless broadband networks – including Wi-Fi, WiMAX, 4.9 GHz Public Safety, 5.9 GHz ITS and 4.4 GHz military bands -- built with BelAir Networks industry-leading portfolio of wireless networking products for voice, video and data applications are easier to design and maintain with the BelView NMS. The comprehensive set of management features includes GPS-aware street map based presentation, real-time fault and performance monitoring, inventory and security management, providing ease of installation, capacity planning, and proactive planning for smooth network operations.

3-Tier Architecture

BelView NMS is built on a scalable client/server/data collector design with each server currently supporting up to ten clients for multi-user, multi-site management capabilities. The server utilizes a database to store and export network management information. The users can be given different access depending on their role in network operations. Each client provides an intuitive Graphical User Interface (GUI) for the various management tools that are provided within BelView NMS.



Configuration Management

BelView NMS is a scalable multi-dimensional platform that provides Auto-discovery and placement on a GPS-aware street map with full zooming and panning, Topology Views and RSTP configuration with support for up to 20,000 wireless mesh nodes in a single network. Leveraging GPS, network administrators can launch the

Features

- BelView NMS is built on a scalable client/server/data collector architecture
- Standard GPS map-based presentation with zooming and panning
- Import of GPS coordinates from CSV files
- Powerful network wide view of nodes, links, clients, alarms, channel planning and link quality
- Live view of node summary and Wi-Fi client details including auto-identification of client Wi-Fi card manufacturer
- Integrated access to any node's CLI or Web GUI interface
- Performance data extractable in standard CSV format for post processing
- Audit tools for software revision, sysUpTime and L2TP tunnels
- Network wide administrative tools for software upgrade, configuration back up and restore

Auto-discovery feature which automatically locates BelAir Networks wireless nodes and places them in the appropriate location on the map. Once discovered and placed, the nodes are displayed in a topology view which also shows the connecting links (backhaul and access), link status and the number of clients that are connected to each node with Per Client information and Client and AP “find me” functions and client history. Nodes can then be intelligently grouped using criteria based dynamic information that evolves with the network.

Functionality includes:

- Centralized software upgrade, backup and restore of node configurations for individual or multiple nodes
- Capability to filter display to particular nodes using concept of groups eg. IP addresses, system name, system location, software load, node type and custom fields
- Intelligent dynamic grouping of nodes
- Inventory management capabilities with individual node information, including node configuration and current software version

Fault Management

BelView NMS provides extensive fault management capabilities by delivering real-time monitoring of the wireless network that allows for both proactive and reactive management.

- Display network map in alarm severity view to quickly home in on problem areas
- Advanced alarm and event browser tools with extensive filtering capabilities for in-depth current and historical alarm analysis
- Direct access to filtered alarm view from the alarm summary banner
- Categorize by severity, node location, time of day, fault type and status of the alarm (open, acknowledged or closed)

Performance Management

The BelView NMS provides network administrators with the ability to analyze, filter and aggregate network performance data.

- Nodal performance statistics
- Analysis, filtering and aggregation of network data and real time graphical displays of multiple statistics
- Per Client information and Client and AP “find me” functions and client history (what nodes a client has been connected to)
- Intuitive graphical performance management reports

Security Management

The BelView NMS supports extensive security management features including multiple user groups allowing the administrator to control access while allowing multiple users to view the network with associated privileges. BelView supports secure SNMP access to the BelAir nodes and access points.

Minimum System Requirements

The BelView NMS host meets the following minimum requirements to operate the BelView NMS client, server, and data collector applications and handle up to 500 nodes:

- Intel dual-core processor running at 2.4GHz
- One 300 gigabyte hard drive
- Two gigabytes of RAM
- One network interface card operating at 100 Mbits/s
- Windows XP with service pack 2, Windows 2003, 2008, Vista, or Sun Solaris Sparc platforms

The host must have internet connectivity for map access.

Ordering Information

BelView NMS has a two part process for ordering. The first part is a fixed one time server cost, and the second part is per node charge that is dependent on the type and number of nodes you have in your network.



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