

Powerful tool to assure the highest quality of service and profitability from an AES-IntelliNet® network

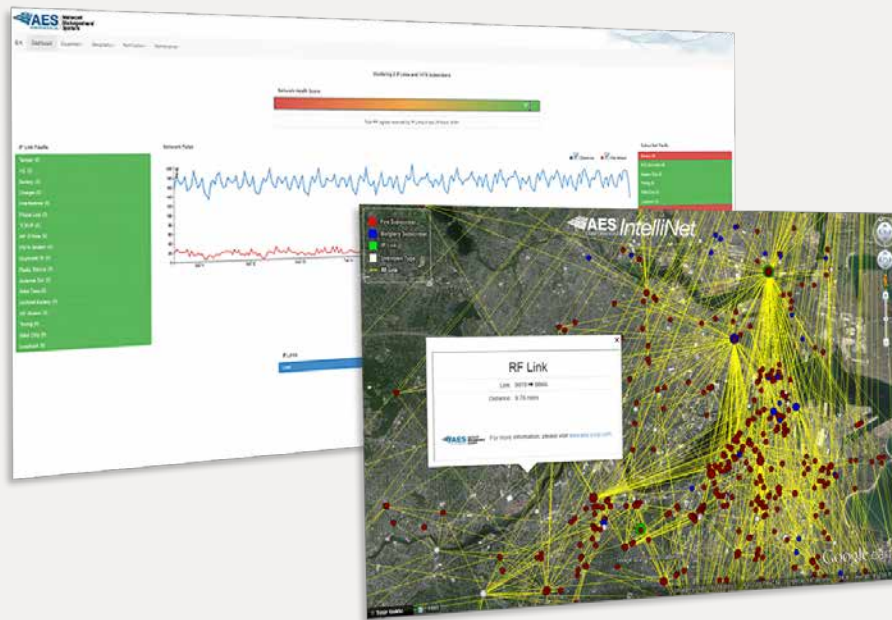
## 7275 AES-Network Management System (NMS)

### Features

- Provides real-time view of an AES-IntelliNet network through Intelligent Dashboards
- Immediate access to vital network performance data
- Interactive Visualization of the network using Google Earth™
- User configurable Notification alerts 24/7 via SMS and email to key personnel of network events
- Self-learning, easy to use, intuitive user interface

### Benefits

- Powerful tool enabling efficient and profitable AES-IntelliNet network expansion
- Assures lowest cost to maintain the highest quality network
- Delivers the fastest and most reliable communication of signals
- Allows for demonstration showing competitive advantages of AES-IntelliNet over cellular



The AES-Network Management System (NMS) is a complete end-to-end AES-IntelliNet mesh radio network monitoring and management platform.

NMS provides a real-time visual presentation of the operation and function of an AES-IntelliNet network. The NMS platform can also drive down overall network management costs while supporting efficient and profitable network growth as additional AES-IntelliNet subscribers are deployed. NMS monitors all network subsystems which includes AES-MultiNet receivers, IP Links, Burglary and Fire Subscribers and delivers real-time notifications of system events.



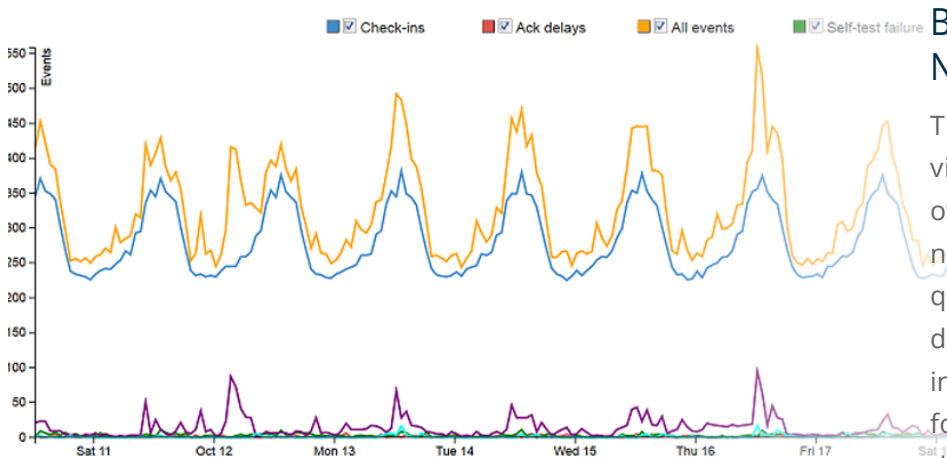
## Versatile Software Design

This release of the NMS software solution supports real-time network monitoring using Intelligent Network Dashboards, comprehensive radio network visualization utilizing Google Earth, and real-time notifications to alert users of network events 24/7. The NMS software platform was designed with expansion in mind, providing the ability to add enhancements and new functionality for future releases.

Installation of NMS is a simple and fast out-of-the-box implementation

## Easy to Deploy and Use

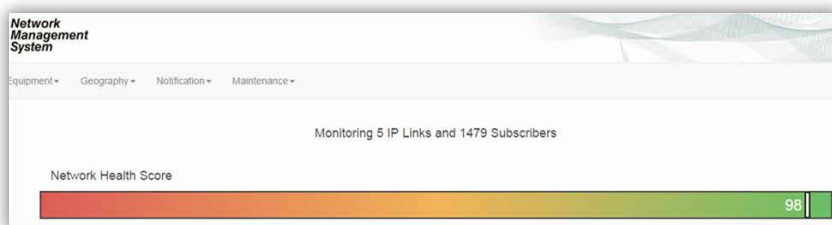
Installation of NMS is a simple and fast out-of-the-box implementation. An optimized NMS server is pre-configured with the NMS software solution and installs on the same IP network as the AES-*MultiNet* receiver. The NMS server is rack mounted and well suited for central station deployments. The NMS web application is accessed from any PC on the same IP network as the AES-*MultiNet* receiver, enabling easy server configuration and overall system operation.



*Network Pulse* dynamically tracks key network performance indicators

## Browser Based Intelligent Network Dashboards

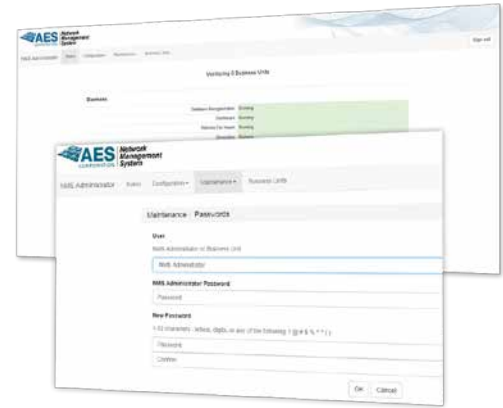
The *NMS Operator Dashboard* provides visibility into radio signal traffic and overall operation of any AES-*IntelliNet* network Business Unit to assure a high quality of service on a real-time basis. This dashboard displays critical Business Unit information in a dynamic and intuitive format to enable a quick assessment of the network's performance and to quickly identify faults that could affect network operation and growth. The *Network Pulse* dynamically tracks key performance indicators including subscriber Check-ins and Acknowledgment delays over the most recent ten day period. The *Network Health Score* quantifies overall network operational quality on a scale between 0 - 100. Each AES-*MultiNet* Business Unit has its own *Operator Dashboard*.



*Network Health Score* provides a quick indicator of network performance

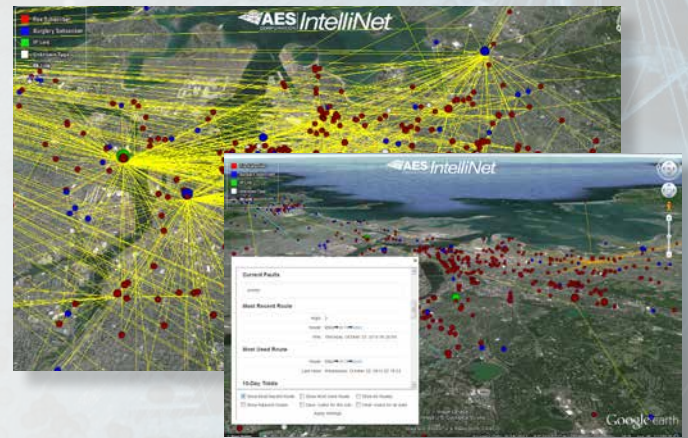
The *Administrator Dashboard* provides status of the AES-MultiNet receiver and the NMS server. The *Administrator Dashboard* is also used for setting user login credentials and to implement remote software updates and upgrades.

*Administrator Dashboard* provides status of AES-MultiNet receiver and NMS server

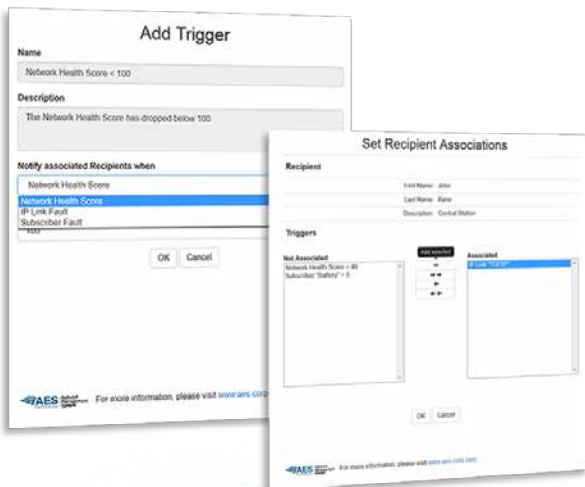


## VISUALIZATION

Through the *NMS Operator Dashboard*, a user can launch a geographical layout or map of their AES-IntelliNet network using Google Earth. The NMS platform provides a real-time interactive visual presentation of the AES mesh network. The intelligence built into the NMS system provides proactive network monitoring. The map shows the location, status, and attributes of all IP Links and Subscribers illustrating the multiple routes for signals across the network from each Subscriber. By providing a comprehensive visualization of the network and its subsystems, the network map helps with planning for network expansion.



With *Visualization* function, user can launch a geographical layout of the AES-IntelliNet network showing the location and status of all IP Links and Subscribers



Using event triggers, the *Notification* function enables users to monitor network events 24/7 via SMS and email

## Notification

The *Notification* function enables users to monitor their AES-IntelliNet network from anywhere at any time. The NMS platform is active even when not monitored by the user and sends out notification alerts via SMS and email for critical events if they exceed the user configurable thresholds. Through the *Operator Dashboard*, users can configure automatic alerts based on the system-wide *Network Health Score* to send alerts by both SMS and email to key personnel. Triggers can also be set up for alerts due to many types of subsystem faults with any Subscriber or IP Links. Separate drop down menus enable the user to easily create the list of personnel to be notified, define the faults criteria to be reported, and create associations between the alerts and personnel to optimize responses.

## Technical Specifications

### Server Operational Requirements

- 115V 60Hz line voltage (1500 KVA UPS recommended)
- Active AES-*MultiNet* receiver (uses primary receiver only)
- 10/100 Ethernet connection (to same network as AES-*MultiNet* receiver(s))
- NMS appliance comes with a VPN client that may require port configuration to enable access to the AES Maintenance Servers
- 16GB or greater thumb drive (not included) required for nightly backup of critical data

### Server Appliance Hardware Specifications

The NMS is a rack mountable 1U network appliance that runs on an Intel Atom D2550 processor. It features an Intel NM10 chipset and board based on HB131. This security appliance also includes 2x GbE Ethernet, 2x SATA 3 Gb/s, 1x mSata option, DDR3 So-DIMM, up to 4GB system memory, 240GB of Solid State Storage.

### Server Appliance Software Specifications

Dashboard, Visualization, and Notification applications are implemented over an industry standard Linux environment.

### About AES Corporation

Established in 1974, AES Corporation empowers companies to grow profitable alarm monitoring businesses, and government agencies to enhance security anywhere in the world. By providing the industry's only patented operator-owned and controlled private wireless mesh networks, AES ensures superior reliability, low TCO and optimal RMR while reducing dependence on service provider infrastructures. The company's flagship AES-*IntelliNet* systems are deployed in over a half million locations worldwide.

### Requirements for Client accessing NMS Dashboards and Visualization using Google Earth

- Google Earth application
- Internet access for Google Earth
- Network access for NMS Dashboard Internet Browser such as Internet Explorer 10 or newer, Firefox, Chrome, etc.

## How to Order

### Model

- 7275: Network Management System
- 7275-ASF: Network Management System Annual Support Fee

### Description

AES-*Network Management System* (NMS) – Includes NMS server appliance provisioned with NMS software solution, AC power cord, Ethernet cable, rack mounting hardware.

## Support

Annual Support includes one (1) year warranty on all hardware and software, one (1) year of technical support and one (1) year of software updates. The first year of support is included with the initial purchase of the 7275 AES-*Network Management System*. Subsequent years should be purchased at the time of renewal to ensure uninterrupted hardware and software warranty coverage, technical support, and software upgrades.

For more information, go to [www.aes-corp.com](http://www.aes-corp.com) or call (800) 237-6387 or contact us at [sales@aes-corp.com](mailto:sales@aes-corp.com)

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