Mass notification
Integrated IP-based network solutions
ALERiTY
Integrated mass notification solutions by Eaton; designed to protect, alert and inform your most critical asset—your people

WAVES over IP (WoIP)
Provides unmatched reliability, interoperability and ease of use for organizations seeking the utmost in emergency communications technology

From catastrophic natural disasters to the threats college students face, there has been a heightened demand for integrated, multi-layered Mass Notification Systems (MNS) to protect, alert and inform people in an emergency. That’s why our Internet Protocol (IP) based Mass Notification Systems (MNS) are the perfect solution for delivering critical alerts when it matters most.

Whether informing an entire campus of a natural disaster or evacuating a single building due to a HAZMAT accident, the ALERiTY MNS platform integrates wide-area, in-building and distributed recipient MNS for one networked solution. Distributed over a Local Area Network (LAN), Eaton’s IP-based MNS solutions allow organizations to leverage existing infrastructure without adding unnecessary costs. Supporting the highest standards of network security, WAVES over IP (WoIP), part of the ALERiTY platform, features both wired and wireless IP solutions so that the delivery method to all indoor, outdoor and personal notification devices can be agnostic.

Key differences
• End-to-end IP communications network for site-wide and multi-site mass notification
• Easy-to-use, one-click solution
• Remote access from anywhere to activate messages and monitor the system
• Unified interoperable MNS platform that integrates with other life safety systems
• Fully redundant client-server architecture with multiple points of command and control
• Highest level of security standards and encryption
• Meets stringent Life Safety requirements, including seamless system recovery and system supervision

From the battlefield to college campuses, Eaton’s ALERiTY solutions provide critical audible and visual messages that are specific to the emergency, specific to the area affected, and in real time.

ALERiTY
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n.
1. the quality of alerting with clarity—clear, intelligible and reliable emergency communications
2. unified interoperability platform that seamlessly manages the three layers of Mass Notification—Indoor, Outdoor and Distributed Recipient
3. situational awareness, integration with life safety, security and notification systems
4. the state of meeting stringent life safety requirements
Interoperable communications

The only company to provide you with fully integrated, IP-based mass notification solutions

The key to effectively responding to emergencies is an integrated System of Systems solution. From an outdoor Giant Voice system to text messaging, multiple channels of communications ensure that information will successfully reach the affected audience. With limited staff and multiple systems to activate, you need Eaton’s integrated MNS with a simplified, single interface to launch all of the different applications on a common IP network. It allows facility managers and emergency response personnel to focus on the emergency at hand without being slowed down trying to activate numerous systems.

When immediate notification is essential, Eaton’s reliable and integrated MNS solutions allow emergency officials to send alerts and potentially life-saving instructions to unlimited communication devices—all from one Graphical User Interface (GUI).

- In-building MNS
  - Central control systems
  - Autonomous control units
  - Notification appliances & LED display signs

- Wide-area MNS
  - Central control systems
  - High power speaker arrays & horn loudspeakers
  - Mobile and portable systems
  - Strobes and LED display signs

- Distributed recipient MNS
  - SMS/text messages, pagers
  - Automated voice calls, faxes
  - E-mail alerts, web postings, social networking sites
  - Desktop notifications

Situational awareness

Knowledge is critical in effectively responding to an emergency situation. The more knowledge one has about a situation, the better he or she can manage the crisis. Situational awareness is the state of knowledge of the event, what is happening around that event, and the anticipated risks. Decisions made from this knowledge define the present and future state of the emergency. Greatly improving situational awareness enables operators to make more informed decisions when time is of the essence.

Life safety & security system integration

Through IP-based technology and advanced programming interfaces, the ALERiTY solution integrates disparate communication and life safety systems for complete, accurate and up-to-the-minute situational awareness, including:

- Fire alarm control panels
- Paging systems
- LED display signs
- Sensors/detection systems

Secure information sharing network

In addition, ALERiTY enables multiple sites and facilities located anywhere in the world to be tied together for global notification and monitoring. Through a secure, real-time information sharing framework, a facility can communicate with other facilities as well as fire, police and health departments for a better understanding of the emergency situation. External data sources like the National Weather Service and Center for Disease Control and Prevention (CDC) can also be integrated with MNS so alerts can be automatically sent when a threat is detected, allowing facilities to get the essential information out quickly then follow up with additional information as needed.

Improving situational awareness and system management helps save lives and reduce chaos in an emergency.
Integrated wired & wireless IP-based solutions for site-wide emergency communications

Local Area Network (LAN) wired solution

- Integrated Base Station (IBS)
- IP Communicator (IPC)
- Autonomous Control Unit – ACU-8411, includes SP40S and IPC-8000
- High Power Speaker Array – HPSA-8100-R Series, includes IPC
- Master Radio – IPC-8000 and RADIO-900M
- Fire Alarm Control Panel

On-site & off-site notification

Wireless IP communications

- Parking garage, not part of the LAN
- Tailgating and stadium parking — 2 miles away from LAN
- Remote campus — 3 miles away from LAN

Wireless IP communications

- Remote campus — 3 miles away from LAN

Autonomous Control Unit – ACU-8411, includes SP40S and IPC-8000

Master Radio – IPC-8000 and RADIO-900M

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Communications
agnostic

Wired & wireless IP communications

Communications networks

The WAVES over IP Mass Notification System is comprised of a collection of secure, robust and reliable Ethernet communication devices, IP Communicators (IPC). Wired directly to a LAN or through its own private network, the IPC sends audible, visual and data messages via an RTP multicast stream. For wireless communications, IP radios (RADIO-900M) can be added to the system. These wireless Ethernet devices communicate via a 900 MHz ISM band to avoid interference with a site’s WiFi infrastructure. WAVES over IP can also be added to expand indoor and outdoor coverage in an existing 2.4 GHz WAVES system. The IPC-8000 and RADIO-900M feature the highest standards in network security.

Wide-area MNS

The High Power Speaker Arrays (HPSA-8100-R Series) broadcast intelligible voice messages, tones and sirens, covering large geographic areas. This outdoor Wide-area MNS features industry-leading intelligibility using advanced amplification system design. HPSA components include 2 to 8 horn and driver configurations, and an electronics cabinet, which includes the IP Communicator and 65AH batteries. The RADIO-900M can be added for wireless IP communications.

Leading intelligibility
- HPSAs vertical line arrays focus sound at audiences
- Equalized intelligibility—broadcast messages as clearly at 1000’ as at 2000’

Higher efficiency
- Class D amplification technology and better power management
- HPSA amplifier is more than 90% efficient with lower current draw, improved battery stand by time and increased battery life

In-building voice evacuation

Autonomous Control Unit (ACU-8411) provides supervised emergency voice communications with multi-use capabilities, including paging, background music, and voice messaging. It can be integrated with FACPs and telephone systems. Components of the ACU-8411 include the SAFEPATH SPA40 and IPC-8000. The RADIO-900M can be added for wireless IP communications.

- Mute music & announcements during emergency
- Prioritize messages for predetermined needs; custom messages available
- Monitor the system operation 24/7/365
- 24 VDC battery backup

“Relying on just one method of communications in an emergency could result in a relatively large portion of the targeted population not receiving the message.”

NFPA 72 National Fire Alarm and Signaling Code, 2010 Edition
Eaton

Technological leadership
Providing a century of experience and innovation, Eaton is the industry’s foremost developer in advanced technological solutions for the rapidly growing mass notification market, where intelligible, reliable and redundant communications are paramount for responding to threats.

Multi-use applications
From Afghanistan to the National Capitol Region, Eaton has helped emergency managers and security professionals in more than 500 MNS installations worldwide deliver critical alerts when it matters most. Eaton’s MNS are successfully providing emergency communications for all types of threats and disasters in various types of occupancies. The systems can also be used for general announcements, crowd control and special events.

- Healthcare facilities
- Industrial facilities
- Municipalities
- Public venues
- Energy, oil and gas markets

Proven reputation
As a premier provider to the federal government, Eaton’s advanced MNS solutions are battle-tested and battle-proven every day by protecting our armed forces in the most demanding environments and circumstances. The WAVES over IP solution is available today to instantly inform people of exactly what to do and where to go with clear, intelligible and timely communications.

When public safety is at risk, why would you rely on anything less?

Advanced architecture
Send an alert in seconds versus minutes

Personal alerting/distributed recipient MNS
U.S. patented and award-winning Roam Secure Alert Network (RSAN) is a web-based communications system that allows you to send hundreds of thousands of messages simultaneously to unlimited communication channels, including SMS text messaging, voice calls, pagers, and email notification. RSAN’s two-way communications allows for delivery confirmation and user response.

- Direct connectivity with major wireless carriers improves SMS delivery
- Launch alerts from web browser or mobile device, including mobile applications; Pre-scripted QuickAlerts for speed, reliability and accuracy
- Optimized high volume delivery to carriers, networks and devices
- Alert multiple groups, networks, devices and other systems from one web page; create unique messages for each delivery method
- Rapid Enrollment, register directly from cell phone
- Zero single-point-of-failure system through multiple, redundant servers; real-time data mirroring

Desktop notification
Send real time messages to computer desktops across enterprise network environments. To all personnel logged onto the network, this intrusive alert takes precedence over all other open windows and programs and can activate sound upon delivery. It also features two-way communications.

Flexible and scalable system design
In addition to integrating with existing equipment and systems, ALERTiTY’s modular and scalable system architecture allows you to expand your MNS, adding new buildings, outdoor areas and geographically separated sites as your organization grows or changes.

EATON ALERTiTY

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