Critical Infrastructure and WAVE

Interoperable Communications

BE PREPARED

Modern society relies on an interwoven network of facilities and services. This Critical Infrastructure – telecommunications, energy, finance, transportation, air and sea ports, water systems, hospitals, and other key facilities – must be kept secure and operational. Disasters, both natural and man-made, threaten these vulnerable points of our interconnected world. Though critical infrastructure facilities exist within overlapping local, regional, and national jurisdictions, each has its own communications procedures and equipment.

In a crisis, critical facilities must open lines of communication with their various protectors, regulators, and communities. This is typically done by swapping radio handsets. Pressured plant operators must sometimes learn to use new communications equipment while simultaneously trying to handle an emergency. Instead, what if your everyday communications system was able to instantly scale up and absorb all the different communications devices in play during an emergency?

INTRODUCING WAVE FOR LMR

A comprehensive, flexible, and affordable interoperability solution exists. Twisted Pair Solutions' WAVE for LMR™ works with your current equipment and connects any phone or radio from any manufacturer. WAVE for LMR is a software application that uses data networks to create group communications between organizations. WAVE supports any UHF, VHF, P25, TETRA, iDEN, SELCAL, GSTAR, analog, and digital two-way radios, landline phones, cell phones, soft phones, IP phones, PDAs, and users with PCs. WAVE can bridge communications between different groups, regardless of the type of equipment they each use.

WAVE CONNECTS CRITICAL FACILITIES

In an emergency, critical facilities' dispatchers must quickly integrate their communications systems with first responders. The WAVE Dispatch Communicator™ software console connects different radio systems with a mouse click. You don't need to swap radios – WAVE connects in seconds with your responders' radios. Configurations for multi-agency responses can be pre-tested and stored for instant recall during emergencies, or created on the fly. Patching a new radio system works exactly the same as connecting the radios you use every day.

WAVE adapts to serious incidents, letting phones, cell phones, and PCs join the radio talk group under the control of your dispatchers. In a crisis, WAVE ensures the survivability of your communications infrastructure by allowing radio dispatch to work from a remote location, including a portable PC in a situation van.

WAVE can also perform outbound phone calling for Emergency Notification Alerts, and can simultaneously message staff, security, agencies, and family members via radios, phones, and loudspeakers.

WAVE IS SECURE, RELIABLE, AND MASSIVELY SCALABLE

WAVE was built for secure, reliable, and survivable communications. WAVE Media Servers are fault-tolerant, and can be dispersed among separate facilities and linked together. WAVE is secured against unauthorized access and misuse, supports PIN-based authentication, and can encrypt VoIP and network control traffic. WAVE meets US Department of Homeland Security requirements for interoperability and integration, and is used worldwide by critical facilities, public safety, and defense agencies with the most stringent security.

WAVE scales to support the largest organizations and incidents. There is no real limit to the number of audio endpoints that can join a WAVE conference. A WAVE Media Server can support dozens of audio conversations. Multiple Media Servers can be interconnected, providing coverage for larger talk groups and wider geographic areas while efficiently utilizing network bandwidth. Your organization will never outgrow WAVE.

WAVE™

Twisted Pair Solutions

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WAVE ENHANCES EVERYDAY COMMUNICATIONS

Most WAVE customers take advantage of the system's features in their everyday communications. Recording, instant replay, archiving and playback come built-in with WAVE. WAVE can work as a conference bridge and intercom system as well as an emergency interoperability solution. Active Directory support eases user management tasks. System users welcome WAVE's high-quality audio and simple PC interface.

WAVE's ability to integrate different radios can help solve a problem faced by many facilities. Expensive radios issued to field workers and contract employees are easily damaged and can sometimes "walk off the job". With WAVE, you can issue less expensive radios or even prepaid cell phones to at-risk workers. These inexpensive radios or phones can use different frequencies or service providers from your standard equipment and still be perfectly integrated into your communications architecture.
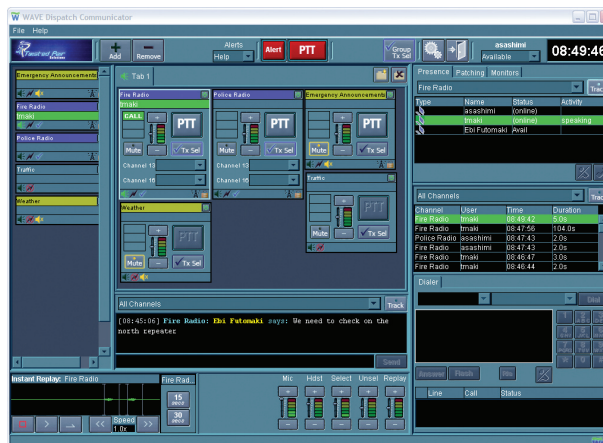
WAVE IS AFFORDABLE

WAVE provides emergency interoperability using your existing radios. WAVE runs over your IP network on standard Windows PCs. WAVE's modest hardware requirements and flexible licensing make it ideal for offsite backup facilities and remote vehicles. WAVE can assume a variety of roles, including conference bridge and intercom system. And in an emergency, when multi-agency communications are crucial and every second counts, WAVE will keep you connected.

FIND OUT MORE

To learn more about how WAVE can enhance the communications of critical infrastructure facilities, please contact your authorized WAVE reseller. Visit Twisted Pair Solutions on the web at www.twistpair.com.

WAVE FOR LMR FEATURES

- Supports any two-way radio system
- Bridges diverse radio systems
- Works with your existing radios with no additional radio spectrum needed
- Supports integration with almost any audio device, including phones, PCs, and two-way radio systems
- Routes audio and radio control signals through your IP network
- WAVE Dispatch Communicator software dispatch console
- Status and Presence
- Built-in recording and replay capabilities
- Active Directory support
- Reliable, survivable, secure, and massively scalable
- Standards-based, not proprietary
- Affordable
- Generates Emergency Notification Alerts

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