

WAVE is VoIP Software that Connects Any IP Accessible Device:

- Two-way Radios
- PCs & PDAs
- Mobile Phones
- Telephones
- Paging Systems
- Intercoms

WAVE is:

- 100% Software
- Built to Open Standards
- Independent of Proprietary Hardware
- Customizable

WAVE Benefits:

- Increases the Value of Investments in Radio, IP and Telephony
- Increases Productivity Through Interoperability & Collaboration
- Increases Flexibility and Modularity Through Open Standards
- Extends Unified Communications to Include Radios
- Enhances Communications Reliability
- Lowers Communications TCO



An effective chain of command with joint member collaboration requires real-time communications interoperability.



WAVE® for Federal Government

Cost Effective Collaboration for Agencies and Employees

In a very real sense, the federal government is largely dependent on the smooth flow of data and information. The hundreds of entities that make up the U.S. federal government must fluidly interact with government leadership, internal groups, fellow agencies or NGOs, not to mention the public at large. The faster an agency can absorb, share and react to information, the more efficiently it operates.

This guiding principle requires that every party in an agency's chain of operations communicate and collaborate in real time. Yet almost every aspect of the federal landscape is littered with a vast array of incompatible, and often outdated, equipment and devices—from radios and intercoms to telephones and PCs of all different vintage and capability. The cost and complexity of upgrading these disparate systems can appear daunting, and the harsh reality is publicly witnessed every time a federal agency converges on the scene of a disaster and can't adequately communicate.

Poor communications system interoperability can result in critical decisions being made slowly and without complete information. This puts federal employees—along with the civilians and property they are responsible for protecting—at greater risk.

The lack of interoperability at the federal level is due to agencies treating internal and external communications as separate initiatives. In a fully interoperable deployment, they must be combined into one initiative and tackled simultaneously. This unified approach ensures the greatest number of communications devices, applications and networks will be supported across all internal and external fronts. To achieve this level of fully interoperable communications, organizations are turning to WAVE software from Twisted Pair Solutions.

Deployed for mission critical communication by the U.S. military and public and private organizations across the globe, WAVE software eliminates communication barriers while integrating legacy equipment with the latest cutting edge devices. Through the power of IP networks, WAVE software allows organizations to seamlessly connect a broad range of communication technology, from two-way radios, cell phones, pagers, satellite phones and related mobile devices, to in-office technology such as email, intercoms, instant messaging and of course traditional telephones.

Connecting Groups Within and Agencies Without

Communication is about connectivity, and incompatible devices prevent this connectivity by creating isolated silos—and hence barriers to collaboration—within any government organization. And for agencies that operate in the field, these barriers can be magnified tenfold as they fail to connect across the boundaries of a myriad of federal, state, local and private entities.

WAVE Supports and Bridges all Types of Military and Commercial Radio System, Including:

- Bendix
- CougarNet
- Daniels
- EF Johnson
- General Dynamics
- HarrisRaytheon
- iCOM
- Kenwood
- M/A-COM
- Midland
- Motorola
- Relm
- Sprint Nextel
- Tadiran
- Tait
- Vertex Standard

WAVE Interoperates with Multiple Radio and Telephony Gateways, Including:

- C4i RIU
- Cisco 2811 Router E&M
- Daniels UIC
- ETC DS-1800
- Harris 6010
- Raytheon JPS ACU-1000
- Raytheon NXU-2
- Telex IP-223 and NI 223
- TOCNET
- Voice Interop AM360

WAVE supports all radio communications frequencies, including HF, UHF, VHF, SATCOM and operates independent of COMSEC, KEYMAT, and frequency hopsets.

WAVE works with TACLANE, ANDVT, and other Type 1 encryptors. When working with Type 1 encryptors, WAVE can be configured to route secure traffic over a

Federal agencies with a role in national security and disaster response are particularly vulnerable, with mounting pressure to ensure a high level of interoperability (and avoid another Katrina). What's required, but lacking, is the secure flow of critical information through every helping hand—military, law enforcement, first responder groups, aid organizations and beyond. That information flow is delivered by unified communications.

WAVE ensures this interoperability and connectivity across virtually every device, every agency and any geography. It delivers all the functionality that federal agencies need to collaborate, whether arriving fresh on the scene of an emergency or communicating daily between radios in the field and telephones at the office. And best of all, it links legacy equipment with the latest devices, saving budget now while accommodating growth tomorrow.

Saving Budget and Improving Communication

WAVE eliminates the need to adopt proprietary hardware to achieve interoperability. It saves tight federal funds by integrating existing equipment, regardless of brand (no more rip and replace), and its broad support for industry standards and leading UC platforms—including those from Microsoft, IBM, Avaya, Nortel and others—means that whatever technology you choose to adopt now or in the future, you're covered. And because this interoperability is achieved through software, the cost is dramatically lower than comparable hardware-only systems.

Software That Extends Communication Hardware

Moreover, as demonstrated in the world's harshest and most demanding communication deployments, WAVE software allows organizations to embrace and extend any hardware communication system. This can allow federal agencies to reduce hardware operating and maintenance costs, repurpose existing equipment and even connect previously incompatible equipment and groups. WAVE can deliver conferencing, recording and bridging at a fraction of the cost of proprietary hardware systems.

Flexible, Reliable and Secure

WAVE's ability to help communicate and disseminate information in real-time makes it ideal for federal installations, enabling better and faster response to both day-to-day activities and large-scale events. WAVE ensures robust and scalable communication, regardless of organizational, technological or geographical boundaries. In fact with WAVE, federal teams can even quickly set up and tear down secure networks that bridge users from various public and private organizations, regardless of technology, manufacturer, frequency or operator.

WAVE Integrates Directly with:

Microsoft® Office Communications Server 2007 R2
IBM® Lotus® Sametime™
Nortel IP Telephony