

**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



## WAVE® for Defense

### Secure, Real-time Unified Group Communications for Strategic, Tactical, Joint and Coalition Forces



Defense organizations across the world depend heavily on their communications capabilities to successfully complete the mission. Today's battlefield commanders rely on a network of well informed geographically dispersed forces to achieve an information advantage that can then be translated into a competitive warfighting advantage. The success of this net-centric approach to warfare assumes that all participants are able to quickly and securely share the information they have obtained.

*Warfighters lives and the lives of those they serve and protect are put at risk when good information is denied them or their commanders because of an avoidable communications break down.*

Battlefield communications have been dominated by push-to-talk radio technology since the 1940s. Today, state-of-the-art digital radio systems from a multitude of international suppliers provide ruggedized solutions that meet the tactical requirements of military units around the world. Yet push-to-talk radio is a communications technology that offers few capabilities outside of the one it was designed for and the lack of interoperability with other communications systems is a major capabilities issue facing tactical and strategic force commanders.

*WAVE software technology from Twisted Pair Solutions addresses this widespread communications problem by giving Warfighters full interoperable communications over any audio source—including two-way radios, phones, PCs and connected PDAs.*

### Unprecedented Innovation and Command Flexibility

For military commanders seeking greater situational awareness on the battlefield, the ability to create a single, secure and highly scalable unified group communications environment with more real-time participants promotes rapid information dissemination and informed decision-making. With extensive WAVE-enabled communications, leading Warfighter elements can respond quickly and more effectively to a rapidly changing battlefield space.

### Any Network, Every Time

WAVE software addresses a critical need for secure and reliable unified group communications between battlefield networks of differing capability and performance. Network managers can quickly configure WAVE to support any network type, enabling full communications interoperability across multicast, unicast and mixed-mode networks while keeping bandwidth requirements to a minimum.

### WAVE Supports and Bridges all Military Radio Systems, Including:

- AN/PRC-113, AN/PRC-117
- AN/PRC-119 (SINCGARS)
- AN/PRC-148 (THHR)
- AN/PSC-5 or AN/PSC-7 (SATCOM)
- AN/GRC-171,
- AN/ARC-182
- AN/USC-3
- AN/URC-200
- AN/GRT-21 and 22
- AN/GRR-23 and 24
- Tadiran
- Harris, to include FALCON II or III
- Raytheon
- General Dynamics
- CougarNet

### WAVE Interoperates with Multiple Radio and Telephony Gateways, Including:

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

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

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 point-to-point trunk connection.

### Rapid Communications Setup

For frontline Warfighters who must quickly move from one area of operations to another, the establishment of secure communications capability is always a high priority. When conventional line-of-sight radio systems are unable to meet this requirement, WAVE can transport radio voice traffic across beyond-line-of-sight networks, eliminating the need for retransmission sites.

### Highly Cost-Effective

Force commanders must enable their forces in the most cost-effective way. WAVE communications technology leverages software to deliver conferencing, recording and radio bridging functionality at a fraction of the cost of expensive and propriety hardware solutions.

### Interoperability with Civilian Agencies

During heightened threat levels or when incidents occur, base security and appropriate incident management is put at risk when military radio networks can't communicate easily with civilian first responders and law enforcement agencies. WAVE creates a tightly integrated communications environment, eliminating borders, boundaries and limitations by uniting all communications devices regardless of technology, manufacturer, frequency, or operator.

#### WAVE Integrates Directly with:

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

### Find Out More

If you would like to learn more about WAVE software technology and the innovative communications solutions built around it, visit us at [www.twistpair.com](http://www.twistpair.com).

### About Twisted Pair Solutions

*Twisted Pair Solution's award-winning WAVE software technology enables partners and customers to build and operate secure, highly scalable communications solutions in the world's most demanding environments. Recognizing that the best approach to solving the complexities of communications interoperability is to use standards-based software to unify diverse communications technologies, WAVE is trusted when communications is absolutely indispensable. Twisted Pair Solutions is headquartered in Seattle, Washington, USA with offices in the United Kingdom and Australia.*