

Interoperability as a Service (IaaS)

Extending Radio System Access Using the Best of Cloud Computing and Mission-Critical Voice Systems



Many communications interoperability projects built around proprietary hardware solutions fail to get off the ground because they are limited in scope, take too long to realize and are expensive to fund, even with grant assistance. A technically superior and far less expensive solution is achieved with Interoperability as a Service (IaaS).

IaaS extends to customers a familiar model used for providing telephony and internet access services. Organizations commonly deploy private communication systems for their internal voice communications and similarly operate and control their own local area IP networks. In order to be broadly interoperable with others, however, each of these organizations draws access and interconnection services from a variety of service providers. In this very same way, IaaS is intended to provide the service for organizations to connect their private push-to-talk radio systems, extending their access not only to others within their agency, but also—where appropriate and authorized—to neighboring constituent agencies.

Just as voice and data services have converged to be carried over IP networks, IaaS provides inter-agency interoperability via Radio over IP (RoIP) technologies

IaaS offers a compelling alternative to large capital-funded projects because it presents a low risk approach of achieving a high level of interoperability, while offering an affordable and attractive pay-as-you-need-it managed service. In addition, interoperability can be expanded beyond the bounds of the subscribing agency by having access to other subscribers of the managed service. This service can be utilized by organizations of any size, regardless of the technology used by them for their intra-agency communications.

A Standards-based Approach

A key element of IaaS' relevance to the mission-critical needs of public safety organizations is its adherence to industry standards. The Bridging Systems Interface (BSI), a Department of Homeland Security-sponsored VoIP specification for SIP-based bridging, and co-authored by Twisted Pair Solutions, is a ratified interoperability specification and will help accelerate the deployment of large scale interoperable communications networks using solutions from vendors that show compliance.

Operating as the interface between two bridging or gateway devices that can be used to connect disparate radio systems, the BSI is utilized in IaaS as one of the standardized means of access to the service

In addition to the obvious cost-driven benefits of IaaS for larger projects, there is also a need for smaller organizations to affordably acquire solutions that employ software and networking technologies with which they may not be familiar. Many of these smaller organizations simply do not have the personnel resources necessary to develop and manage an effective interoperability solution and simply put the idea to the bottom of their list of projects.

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



Twisted Pair Solutions and Fpweb.net Partner to Deliver IaaS

Twisted Pair and Fpweb.net, a managed hosting services pioneer, have formed a partnership to provide IaaS solutions powered by WAVE software technology. This hosted WAVE solution offers clients the opportunity to quickly and cost-effectively achieve their inter-agency communications goals using the best of cloud computing and mission-critical voice systems.

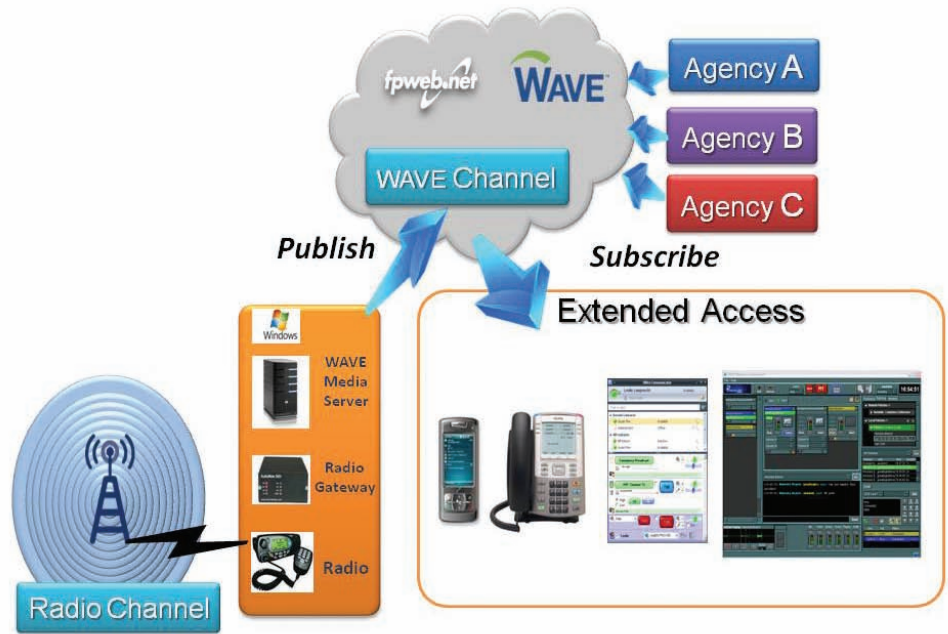
Hosted WAVE benefits include:

- Trusted Industry Partners for Technology and Hosting
- Rapid System Deployment
- Mission-Critical 24/7 365 Reliability
- Enhanced Security
- Reduced Deployment & Operational Costs.

If you are interested in our FREE 90-day trial program visit us on the web at www.twistpair.com/WAVE90.

About Fbweb.net

Fpweb.net is the SharePoint® Hosting Pioneer™ with a decade of experience and 1,000,000 users. What sets Fpweb.net apart? They know SharePoint—and they don't just support the hardware, they support the application. Increase profitability with their custom MOSS server farms at 60% less cost than on-premise builds. Go to market faster with Fpweb.net rapid deployment of SharePoint, Exchange and Project Server. Get back to business and forget about the complexities of MOSS with their SharePoint Lifecycle Management. Fpweb.net has earned the trust of US Air Force, NY Yankees and Dow Chemical.



IaaS is a hosted communications service that enables inter-agency communications interoperability, primarily for public sector customers. A single agency can benefit from the service by extending their existing communication assets and unify radios, PCs and telephones in a simple and seamless manner. Agencies and organizations can also use the service to 'share' radio frequencies in a secure and managed way. Any agency can 'publish' radio frequencies into the cloud and choose if they want to make the channel available to all, provide it as an 'unpublished number' or only allow members of that organization to access it.

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.

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Corporate Headquarters
3131 Elliott Avenue, Suite 200
Seattle, WA 98121 USA
(T) +1.206.442.2101
(F) +1.206.812.0737
(E) sales@twistpair.com

EMEA
Davidson House
Forbury Square
Reading, RG1 3EU
(T) +44.118.900.1110
(F) +44.118.900.1111
(E) sales.emea@twistpair.com

APAC
2 St Peters St
Glenelg East, Adelaide
South Australia, 5045
(T) +61.(08).8376.5905
(F) +61.(08).8125.6570
(E) sales.apac@twistpair.com