



interpeak

SECURE NETWORKING SOFTWARE

- > Wireless Devices
- > Enterprise/Edge Routers
- > WiMAX/2G/3G Base Stations
- > Mobile Phones and Devices
- > WiFi Access Points
- > Gateways
- > Safety/Mission Critical Equipment

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IP MOBILITY

Interpeak offers a complete implementation of Mobile IP, including Mobile Node, Foreign Agent and Home Agent components. In addition to standard Mobile IP, Interpeak supports extensions mandated by the standardization bodies for WiMAX (IEEE 802.16e) and 3GPP2 (Third Generation Partnership Project). Interpeak's Mobile IP products also implement the evolving IETF methods for fast handoffs when roaming between wireless networks, an important feature to overcome lag-times in VoIP-telephony.

WIRELESS SECURITY

Interpeak's WPA Supplicant provides both WPA and WPA2 security for embedded wireless devices on a variety of operating systems. WPA (Wi-Fi Protected Access) is the most widely used security technology for WiFi today. Interpeak supports all EAP mechanisms defined by the WiFi Alliance, including EAP-TLS, EAP-TTLS, EAP-PEAP and EAP-SIM.

IPv6

IPv6 will eventually replace the current Internet protocol, IPv4. Experts predict that IPv4 and IPv6 will need to co-exist for some time. Interpeak has become the leader in the embedded IPv6 space by delivering proven IPv6 network solutions for over five years.

Interpeak's TCP/IP stacks, IPNET and IPLITE, support both IPv4 and IPv6. They are dual-mode stacks, simultaneously able to communicate via IPv4 on some interfaces and IPv6 on others. IPNET supports a variety of transition mechanisms between IPv4 and IPv6. It is the first commercial TCP/IP stack to pass the IPv6 Forum's requirements for its IPv6 READY validation as a host and router stack.

ROUTING

Edge routers, both at the Service Provider and Enterprise edges, place demanding requirements on their TCP/IP stacks. Support is required and expected for IPv4 and IPv6 Multicasting, Virtual Routing, scalability and other advanced forwarding technologies (such as MPLS, Quality-of-Service and policy-based routing). Interpeak's IPNET meets these requirements. In addition, it works out-of-the-box with routing protocols from leading routing protocol vendors.

VPN

The two basic types of VPNs are Site-to-Site VPNs and Remote Access VPNs. Interpeak's protocol products support both. In addition, Interpeak's IPsec is designed for both IPv4 and IPv6 operation, and is optimized for deployment in embedded systems. Both versions 1 and 2 of IKE are supported. Interpeak's MPLS Forwarding is an efficient software implementation of the MPLS data plane, which enables building MPLS VPNs (RFC 2547).

SECURE MANAGEMENT

There are several ways to manage networked equipment remotely and securely. Interpeak provides all the following security protocols: SSH, SSL, IPsec, IKEv2 and SNMPv3. All security protocols are integrated with a unified crypto API allowing either software crypto or hardware crypto acceleration.



WIRELESS DEVICES

In response to the growing need for equipment to communicate and operate over WiFi, 2G, 3G and WiMAX networks, Interpeak enables developers to bring their wireless devices to market faster, and with lower development risks. Our expansive product line provides integrated networking, security and mobility solutions for wireless devices, mobile phones and other embedded products that require wireless connection to a network.

WIRELESS INFRASTRUCTURE

Interpeak provides a complete suite of embedded networking, security and mobility products for Wireless Infrastructure equipment, including WiFi access points, WiMAX base stations and 2G/3G cellular base stations. Interpeak supports wireless chipsets from leading vendors.

As a member of the WiMAX Forum™, Interpeak is committed to the open interoperability of broadband wireless access products and to facilitating the deployment of broadband wireless access networks based on the IEEE 802.16 and 802.16e standards.



NETWORK INFRASTRUCTURE

Interpeak's networking, security and mobility software continues to provide drop-in capabilities to vendors of Enterprise and Edge networking equipment. As next-generation products take advantage of technologies such as IPv6, Virtual Routing, Quality-of-Service and Multicasting to satisfy consumer demand and industry mandates, Interpeak's software sets the pace for change. Interpeak's flagship TCP/IP stack, IPNET, meets all such requirements, and more. Furthermore Interpeak's products are tightly integrated with routing protocols from all leading routing vendors.

SAFETY AND MISSION CRITICAL

Commercially available networking software must satisfy COTS requirements while conforming to mission-critical safety, security and reliability demands. Today, Interpeak products are used in several mission- and safety-critical applications demanding certifications such as EAL and DO178B, in combination with INTEGRITY DO178B, a Level A certified operating system.



Interpeak's advanced networking protocols and security features enable us to deliver reliable, cost-competitive chipset solutions supporting the newest generation of Internet protocol routing and security standards.

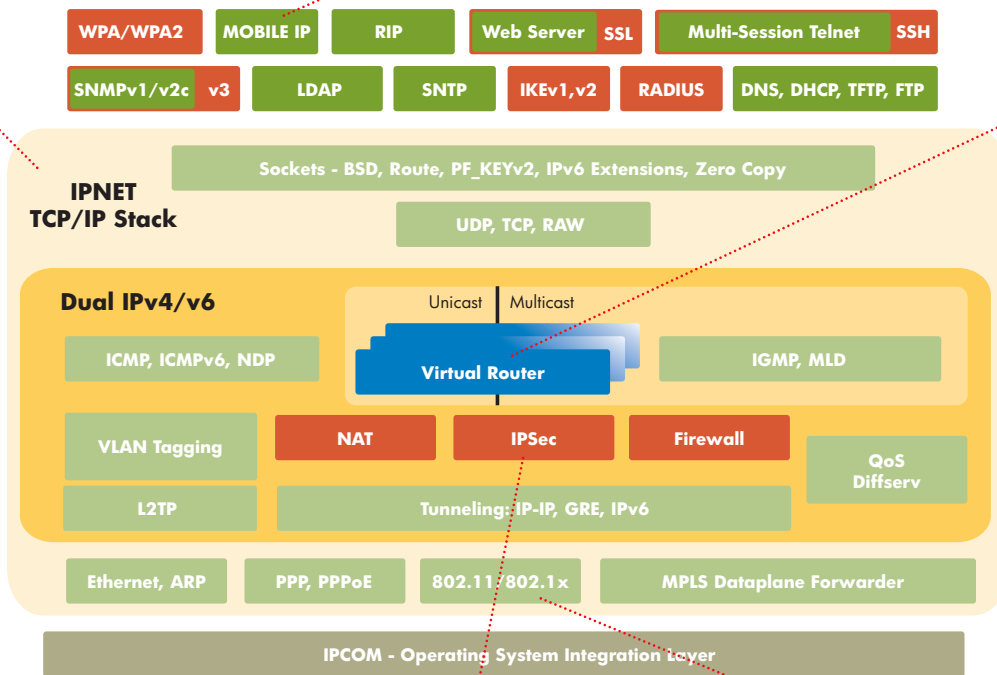
Zeev Collin, VP of Broadband Access Product Development, Conexant Systems, Inc.

Working together has enabled us to create an industry leading, complete broadband wireless package for carriers seeking to implement a mobile WiMAX/WiBro network.

Vern Fotheringham CEO, ADAPTIX

We needed a high-performance, dual-mode IPv4/IPv6 TCP/IP router stack to operate in our next-generation Session Controllers. IPNET's powerful support for Virtual Routing, in combination with Interpeak's expertise in IPv6, offered the ideal combination of benefits for Newport Networks' customers.

**Jayesh Shah
Director of Software Engineering
Newport Networks**



- Applications Protocol
- Networking Protocol
- Security Protocol
- Virtual Router

Interpeak's products run on all major embedded operating systems including:

- > INTEGRITY
- > ITRON
- > Linux
- > MontaVista
- > MQX
- > Nucleus
- > OSE/OSEck
- > Thread X
- > velOSity
- > VxWorks

Interpeak works with many leading software and hardware vendors to ensure interoperability and compatibility.

Interpeak's partners include: **Broadcom, Certicom, Conexant, Data Connections Ltd., Freescale Semiconductor, IP Infusion, LVL7, NextHop, Objective Interface Systems, RadVision, Real-Time Innovations, SNMP Research Inc., Sofffront and more...**

Our customers depend on us to provide reliable, secure and high-performance CMTS edge equipment. When we needed additional support for security protocols, Interpeak was a natural choice because of its expertise in embedded systems and broad support for all popular operating systems.

**Bruce McClelland
VP of Engineering, ARRIS**

ARtem GmbH selected Interpeak's networking solution for our next generation of Wireless LAN access equipment, requiring high performance and a broad range of networking features.

**Michael Marsanu
President and CEO, ARtem GmbH**

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Interpeak's networking, security and mobility products help developers add functionality and improve devices and equipment across a wide range of embedded markets.

The company's expertise in IPv6, routing, wireless and mobility enables device and equipment manufacturers to ensure that their products get to market quickly and offer the latest networking and security technologies.



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