



Application Note Radio over IP

Sea Rescue connects Repeater Sites over the Internet along Pacific Coast of Canada

Customer Profile

- Private Sea Rescue Provider

Application

- Radio over the Internet

Business Benefits

- Centralized Control of Multiple Repeater Sites
- Highly Reliable
- No need for VPN
- Cost Effective
- Easily Expandable

Products Used

- IPRdispatch
- IPR110+ RoIP Gateways

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Overview

A private Sea Rescue service required a cost effective means of connecting their remote repeater sites and franchisee locations along the Pacific Coast of British Columbia and Vancouver Island in Canada.

The Challenge

The challenge was to connect 15 operator locations across a long coast line to a centralized control room without the use of a Virtual Private Network (VPN) as this was very costly to setup and maintain. Connecting over the internet was the preferred option.

Unfortunately connecting to the internet via today's modems/router can be difficult. Static IP Addresses help but with the routers firewall setting it can be nearly impossible. You must also have the radio located in an area where an internet connection is present which is difficult in remote locations.

The Solution

By using internet via cellular, each ICOM mobile radio was connected using an IPR110+ Radio over IP (RoIP) gateway. Most cellular companies can provide a hub device with a static IP address for a very low monthly cost. And with only digitized voice data going through the hub, data costs are also low.

The unique design of the IPR110+ compensates for network problems like internet delayed packets and package loss meaning a more reliable service.

By using this method, the radios connected back to a centralized control center with IPRdispatch consoles.

The included Channel Change feature also enabled them to monitor weather channels, 16 distress channels and tow channels all from one central location.

Conclusion

Omnitronics' range of Radio over IP (RoIP) solutions has given another Sea Rescue organization the ability to efficiently monitor large areas of coastline. This flexible infrastructure will also allow for easy future expansion.

Thanks to Argosy Communications for providing this solution.

