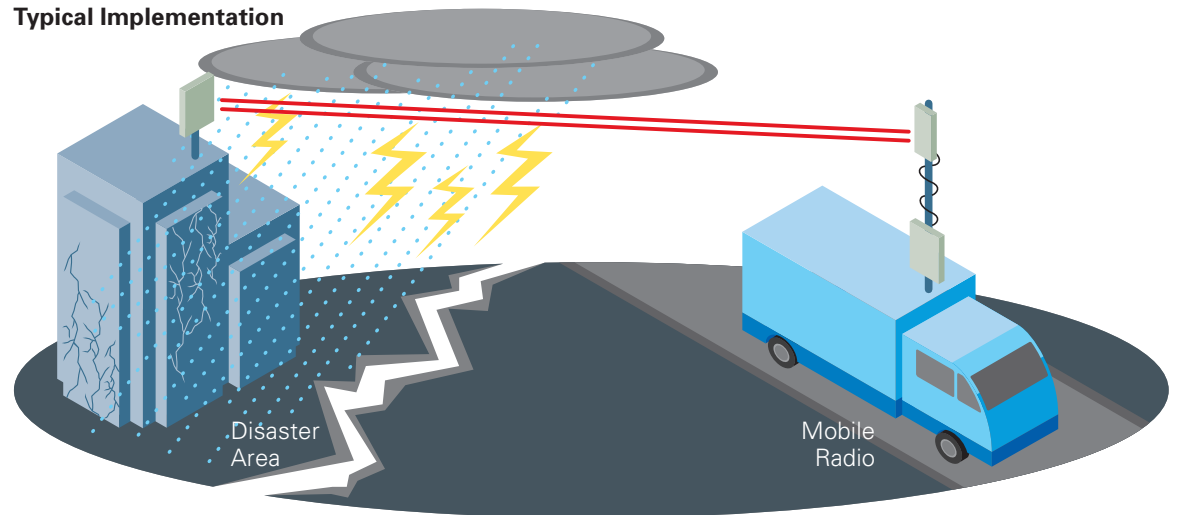




Rapid Deployment of a Point-to-Point Broadband Wireless Solution

Typical Implementation



Situation: Establishing Fast, Short-Term Connectivity

When the need for temporary connectivity is immediate – even urgent – point-to-point broadband wireless can be the answer. Tactical military operations, television broadcasts, entertainment and sporting events, scientific webcasts, utility company repairs, emergency response communications and crime-fighting efforts...all are examples of applications that typically must be deployed in a very short period of time and operate flawlessly. Traditionally, such rapid-deployment connectivity has depended on cellular-based systems or satellite uplinks.

Challenge: Deployment That's Fast, Easy and Reliable

Distance and bandwidth limitations make cellular-based systems unsuitable for applications such as streaming video, high-speed data transmission and long-distance connectivity. Satellite uplinks are also less-than-perfect, especially when rapid deployment is needed in obstructed, high-interference areas, through severe weather conditions, across long distances and over water. Bandwidth, time and equipment typically come at a high price, and performance is frequently marked by high latency and low data rates. In addition, satellite equipment is bulky, so it can't always get close to the scene of activity. Now, broadband wireless can complement or replace the use of expensive satellite communications and overcome the limitations of the cellular systems. However, not every broadband wireless system can meet such demanding requirements.

Solution: Rapid-Deployment Broadband Wireless with Highest Reliability

Motorola's 5.4 and 5.8 GHz wi4 Fixed Point-To-Point Wireless Ethernet Bridges – PTP 400 and PTP 600 Series – offer cost-effective, fully digital communications at carrier-class reliability – up to 99.999%. The small form factor allows the radios to fit into virtually any location, and the onboard software makes deployment quick and fine-tuning easy (including remote adjustments from the LAN). Just as important, the radios have fast throughput and more-than-enough bandwidth to deliver the most demanding applications, including streaming video. The ease of use and remote management mean that on-the-road staff do not have to be radio frequency (RF) experts to install and manage the systems. In addition, Motorola has built-in security features – a unique scrambling mechanism and optional FIPS 197 compliant, 128- and 256-bit AES encryption – to protect high-risk ventures.

In fact, Motorola solutions outperform the competition, regardless of your requirements:

- Backhaul traffic from video cameras and computer terminals
- Backbone communications for impromptu cellular or two-way radio networks
- Long-distance connectivity – traversing large expanses of open terrain and water without signal loss
- Non-line-of-sight (NLoS) or near-line-of-sight (nLoS) environments – making connections regardless of path obstructions
- Crowded hub sites – small spectral footprint for clustering more radios without increasing interference
- Backhaul traffic from satellite dishes if satellite equipment is already installed

Unique Technology, Unparalleled Performance

With solutions that provide throughput rates up to 300 Mbps, and latency rates as low as 0.6 ms, Motorola is the only manufacturer to combine these innovative technologies that are proven to minimize interference and maximize throughput:

- Multiple-Input Multiple-Output
- *Intelligent* Orthogonal Frequency Division Multiplexing
- Advanced Spectrum Management with *Intelligent* Dynamic Frequency Selection
- Adaptive Modulation, including MIMO dual 256 QAM
- Inherent Spatial Diversity
- Best-in-Class Radios



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The Bottom Line

Organizations can see a fast return on investment – typically less than one year – due to:

- Significantly less cost to purchase and deploy equipment
- No additional cost for time or bandwidth usage
- No special RF training for operators
- Instant backhaul or backbone communications
- Indoor power unit for power-over-Ethernet efficiency
- Ability to handle all-IP voice, video and data communications

MOTOwi4™

The Motorola wi4 Fixed Point-to-Point Wireless Ethernet Bridges – PTP 400 and PTP 600 Series – are part of Motorola's MOTOwi4 portfolio of innovative wireless broadband solutions that create, complement and complete IP networks. Delivering IP coverage to virtually all spaces, the MOTOwi4 portfolio includes Fixed Broadband, WiMAX, Mesh and Broadband-over-Powerline solutions for private and public networks.

About Motorola

Motorola is known around the world for innovation and leadership in wireless and broadband communications. Inspired by our vision of seamless mobility, the people of Motorola are committed to helping you connect simply and seamlessly to the people, information, and entertainment that you want and need. We do this by designing and delivering “must have” products, “must do” experiences and powerful networks – along with a full complement of support services. A Fortune 100 company with global presence and impact, Motorola had sales of US \$42.9 billion in 2006. For more information about our company, our people and our innovations, please visit <http://www.motorola.com>.

Note: The Federal Communications Commission (FCC) and Industry Canada (IC) have authorized the Motorola 5.4 GHz PTP 400 Series Point-To-Point Wireless Ethernet Bridges, Integrated models, for sale in the U.S. and in Canada. IC has also authorized the 5.4 GHz Motorola PTP 600 Series, Integrated models, for sale in Canada. Otherwise, the 5.4 GHz versions of these devices have not been authorized as required by the rules of the FCC and the IC, and those devices are not, and may not be, offered for sale or lease, or sold or leased in the United States or Canada, until authorization is obtained.