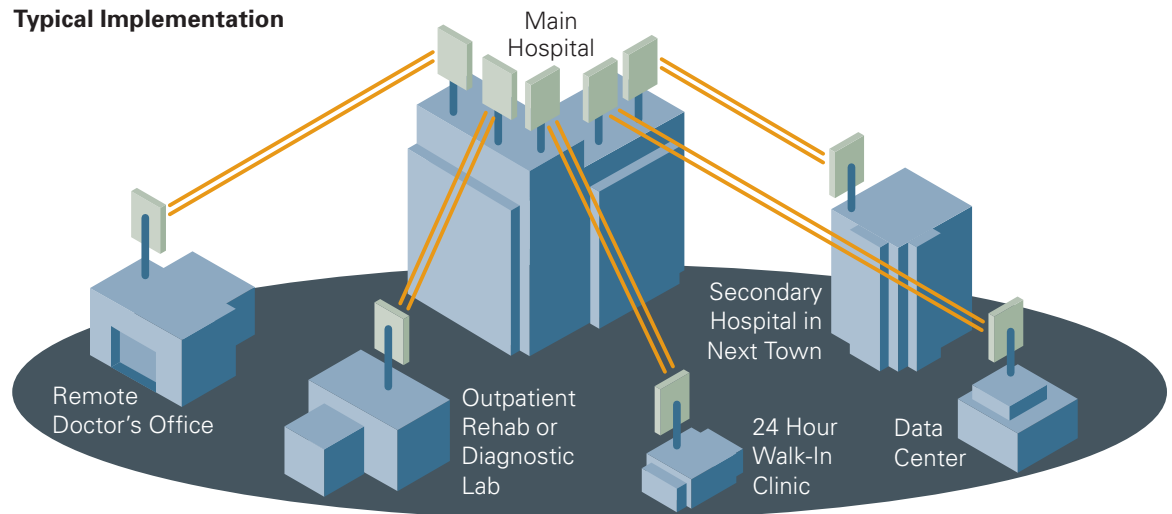




Broadband Wireless In a Point-to-Point Healthcare Solution

Typical Implementation



Situation: Replacing Couriers with Connectivity

When a medical center has to reach out to its clinics, data centers, laboratories and doctors' offices, extending the wired network can become problematic. Fiber-optic hardwiring is expensive and static, and leased lines incur monthly costs. Neither option works in hard-to-wire situations, nor grows economically as the facility expands. Frequently, healthcare providers turn to couriers to get information from one building to the next. Then records have to be re-entered at each building – which consumes time and increases the risk of error. Wireless technology can connect those networks efficiently and cost-effectively.

Challenge: Containing Costs without Limiting Network Access

A good wireless solution immediately adds flexibility to the healthcare network, allowing it to reach each facility regardless of the distance or path challenges. Should a facility's location change, the wireless network should be able to quickly and economically set up operations at the new site. In addition, a wireless network should carry the bandwidth and availability to ensure reliable transmission of bandwidth-intensive, sensitive communications such as patient records, insurance billings, medical images (e.g., X-rays, MRIs, CAT scans, etc.), staff schedules and other information.

Solution: High-Performance Broadband Wireless for Medical Applications

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%. Just as important, they have fast throughput and more-than-enough bandwidth to deliver the most demanding applications. Even in environments with considerable interference – in crowded metro areas and across long distances – Motorola PTP solutions achieve far more reliable connections, more often, at higher data rates. In addition, Motorola has built-in security features that help healthcare organizations comply with HIPAA requirements.

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

- Long-distance – traverse geography without signal loss
- Over water – without signal fading and attenuation
- Non-line-of-sight (NLoS) or near-line-of-sight (nLoS) environments – make connections regardless of path obstructions
- Security and encryption features – helping meet HIPAA rules
- Crowded hub sites – cluster more radios without increasing interference
- Remote management – for ease-of-use from the LAN
- Small form factor – for fitting in tight quarters

Unique Technology, Unparalleled Performance

With solutions that provide throughput rates from 3 Mbps 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 (MIMO)
- Best-in-Class Radio
- *Intelligent* Orthogonal Frequency Division Multiplexing
- Advanced Spectrum Management with *Intelligent* Dynamic Frequency Selection
- Adaptive Modulation
- Inherent Spatial Diversity

The Bottom Line

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

- Reliable access to medical records, staff scheduling and electronic insurance billing
- Disaster recovery from a remote data center or backup facility
- Remote viewing of medical images by doctors at home or in off-site offices
- Connecting clinics and remote facilities to a main hospital
- Ability to handle all-IP voice, video and data communications
- Bandwidth scalability with an extremely easy upgrade path

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 get and stay connected 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 point-to-point products and services, visit our website at www.motorola.com/ptp.

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.



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