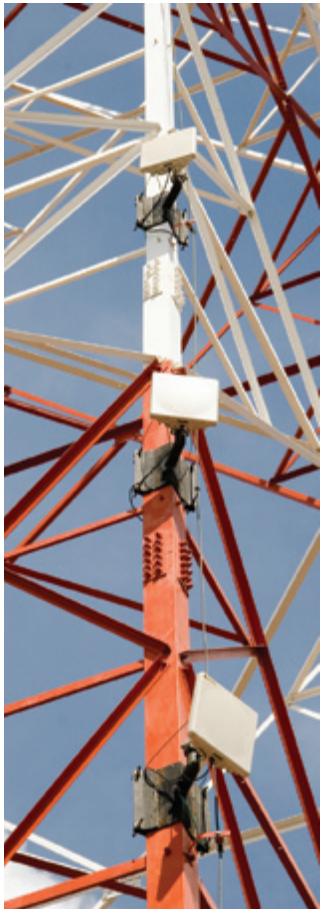




The 24-Hour Organization: High-Speed Wireless Network Connects Health Centers in Venezuela



“Wireless broadband technology is now allowing doctors from three of our clinics to collaborate on patient diagnoses with real-time, 24/7 connectivity. This is Venezuela’s first venture into high-speed wireless tele-medicine.”

– Edson Daza, Systems Director, The 24-Hour Organization

Situation: Doctors from three clinics needed high-speed image and data communications for more collaborative diagnoses and care

Since its establishment, the 24-Hour Organization has experienced significant growth consistently adding to its network of clinics in Venezuela. As more and more locations have been added, the amount of patient information and medical data shared by physicians and specialists at various locations has grown substantially. Recognizing this need, the 24-Hour Organization decided to streamline data and image exchange among the doctors of three specific clinics. To obtain the most effective results and provide enhanced patient care, the company needed a technology to facilitate the real-time transmission of large medical data and image files to help doctors deliver better care and improved outcomes.

The organization initially decided to use the emergent Internet to share patients’ clinical histories and other information. Because of the need to transmit bandwidth-intensive video and images, however, the 24-Hour Organization soon realized that the Internet did not offer sufficient performance to provide satisfactory results.

Solution: Motorola high-speed Point-to-Point wireless network

The company knew they needed a stable, secure and effective platform that would allow them to exchange high definition diagnostic information between the clinics at the highest speed and at the lowest cost possible. The company evaluated a number of solutions, including frame relay technology. Although concluding that this technology was capable of providing a stable platform and sufficient transmission capabilities, the company was dissatisfied with the fact that frame relay proved to be extremely costly in relation to the amount of bandwidth provided.

The 24-Hour Organization eventually decided to create its own platform for data exchange; the solution is based on a Motorola Point-to-Point (PTP) wireless broadband network. The system is providing reliable high-speed links between

CUSTOMER PROFILE

Enterprise

The 24-Hour Organization,
Valencia, Venezuela

Industry

Healthcare

Motorola solution

- Motorola 60 Mbps Point-to-Point Link
- Motorola *i*-OFDM technology
- Integrated Motorola antennas

Solution features

- IP-based wireless connectivity
- Broadband speeds up to 300 Mbps
- Distances of up to 200 km

Benefits

- High-speed transmission of medical images and data
- More efficient administrative applications
- Faster, more accurate diagnoses
- Enhanced collaborative patient care
- Substantial cost savings

“We are very happy with the results. The new wireless broadband network by Motorola has exceeded our expectations of high-speed connectivity and reliability, and it is giving us—and most importantly our patients—excellent results.”

Edson Daza,
Systems Director,
The 24-Hour Organization



the three locations at a reasonable price that is well within the project’s budget parameters. As implemented, the network consists of 60 Mbps *i*-OFDM PTP links with integrated antennas. The system offers the ability to travel distances up to 200 km and provide broadband speeds up to 300 Mbps.

Result: Faster, more accurate patient diagnostics and care

The Motorola PTP wireless network is keeping the doctors and staff at the three clinics interconnected around the clock. Physicians and other professionals are now using the system to transmit and exchange state-of-the-art diagnostic technologies such as magnetic resonance imaging, X-Rays and tomography in real-time 24 hours a day. Results have been

superb including improved patient outcomes through faster, more accurate diagnoses. In addition, the system allows more collaborative treatment and care, leveraging the knowledge and experience of the doctors and other medical professionals in all three health centers.

Bandwidth to Spare

Even though transmission of medical images and data is exceptionally bandwidth-intensive, the Motorola PTP network also provides the 24-Hour Organization with sufficient capability to allow them to simultaneously run a variety of administrative applications. The company is also considering the use of a VoIP telephony solution running on top of the current network, enabling less costly voice communications between the three clinics.



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