

Metropolitan Bank Connects Branch Office in Challenging Environment

Karachi, Pakistan



Customer

Metropolitan Bank is one of the leading private commercial banks in Pakistan. It was incorporated in August 1992 and commenced banking operations in October 1992. It is listed on all three stock exchanges and operates in all major cities in Pakistan, with a primary focus on retail banking and trade finance.

Solution Provider

iLogic (Pvt) Ltd., is a unified communications company based in Pakistan with its main focus on data communications using wireless as the primary transmission medium, including long-range connectivity, non-line-of-sight (NLoS) solutions, video surveillance systems, broadband access, Wi-Fi hotspots, vehicle access control systems, wireless PBXs and consultancy. iLogic has more than seven years of experience in wireless data networks.

The Situation and Challenge

Metropolitan Bank was connecting its head office to a branch office in Karachi using a 256-Kbps line from a telecommunications provider. With more data being transferred and more bandwidth-intensive applications being used on the network, the line was extremely slow and an insufficient connection for the bank's needs

Bandwidth in Karachi is expensive, and obtaining a bigger connection from the telecom provider was not practical. Broadband wireless seemed like a viable option, but the path between the two sites

was obstructed with large buildings. Further, the urban location created high noise and interference levels. Line-of-sight, single-carrier wireless broadband systems could not operate reliably at higher speeds.

Technical Requirements

- In excess of 1 Mbps duplex throughput
- Carrier-grade reliability
- Features to combat heavy interference
- Ease-of-operation
- High security

Deployment Detail and Interoperability

Motorola Point-to-Point Wireless Ethernet Bridges – 400 Series were deployed from the rooftops of the Metropolitan Bank's head office and its remote office, a distance of 4 miles (6.5 km). At higher data rates, the PTP 400 Series link did experience some packet loss, but when fine-tuned, the platforms passed data at a 3-Mbps throughput rate.

The Results

iLogic delivered a solution that provided Metropolitan Bank with a 3-Mbps link – more than 10 times the bandwidth at approximately the same cost as one year of the telecom connection. The Motorola PTP technology enabled it to negotiate obstacles and avoid interference where other wireless platforms could not operate in a stable manner.

"Once again, the Motorola PTP 400 Series bridge has proven to be superior in NLoS environments and when faced with excessive interference."

~ M. Ahmad Ijaz, iLogic Technical Manager

Why Motorola?

- The PTP 400 Series solution delivered a highly reliable, high-bandwidth connection in an extreme NLoS environment with heavy interference
- Cost-effective
- Easy-to-operate; self-managing

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 \$36.8 billion in 2005. For more information about our point-to-point products and services, visit our website at www.motorola.com/ptp.



At the time of this installation, the products deployed were the Orthogon Systems OS-Gemini point-to-point wireless Ethernet bridges. With Motorola's acquisition of Orthogon Systems, the OS-Gemini products were renamed as the PTP 400 Series bridges. They are now 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.

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