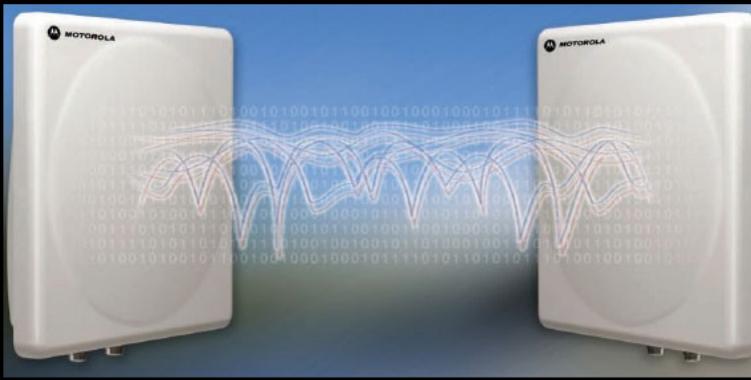
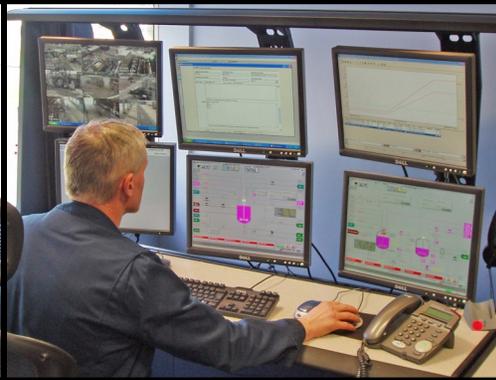


## Point to Point Connectivity For Digital Automation



**Challenge:** Provide chemical processing facility with connectivity for digital automation of fresh water well located across a major river.

*Digital automation is a process where many routine control and monitoring tasks are automated for remote management and operations, aiding in force reduction.*

*Many times wireless is an alternative to traditional methods of connectivity. What should be a very simple step in adding new capabilities can quickly become a complicated and costly project.*

*In this case, bore drilling under a river would have exceeded \$1 Million Dollars. Further, there were no records of power and phone lines that had been laid on the river bottom 50 years earlier, thus drilling could have severed power to the facility amounting to millions of dollars in profit loss.*

*Wireless solutions are very cost effective ways of deploying a Digital Automation Solution for whatever your need is.*

**Solution:** High availability redundant Motorola point to point links provided the customer with an efficient cost effective means to pass digital automation telemetry from the main facility to the well head.

The Motorola PTP600 Series are best in class unlicensed point to point radios operating in the 5.4GHz or 5.8GHz Unlicensed bands.

Using adaptive modulation techniques as part of its intelligent Orthogonal Frequency Division Multiplexing (iOFDM) technology, the PTP600 is capable of real 100MB full duplex operation in high multi-path environments.

Intelligent Dynamic Frequency Selection (iDFS) allows the radio to automatically analyze and shift frequencies when Interference or other radio propagation issues arise.

AES encryption is available, single DES encryption is standard.

The PTP600 also comes with additional options, such as GPS time synchronization, wayside T1, and fiber interface.

The PTP600's narrow radio frequency signature allows multiple radios to be co-located, whether for redundancy or additional tasks.

Coming in both an Integrated Radio/Antenna and External Connector form factors give it the flexibility of ranges from 0-20+ miles.

This best in class radio has proven itself time after time in harsh environments where others fail.



**Benefits:** The Motorola PTP600 Series allowed the customer to deploy a very cost effective alternative to bore drilling under the river. The capabilities of this radio far exceeded the demands of the project needs in the area of security, redundancy, and its resiliency in harsh environments.

Simply the PTP600 gives the customer a dependable means of conducting their remote digital automation, streamlining company operations, reducing overall production costs, and protecting corporate profits.

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## ERS Data Solutions Group

ERS Data Solutions Group is an Indianapolis, Indiana based division of Emergency Radio Service, Inc which has been a leader in Wireless Communications since 1948. ERS Data Solutions Group focuses on Mobile and Fixed Wireless, Enterprise Mobility, and Interoperable Network Communications for Commercial, Enterprise, Education, Health Care, and Public Safety customers. With certified professionals and relationships with the industry's top developers/manufacturers you can count on ERS Data Solutions Group for system design and support.

ERS Data Solutions Group offers a comprehensive portfolio of wired and wireless data, voice and video solutions. As Authorized Channel Partners for Motorola, Cisco, Microsoft, Bridgewater Communications, and Dragonwave to name a few, ERS Data Solutions Group can help you design, install and maintain a broad variety of data solutions such as Wireless Point-to-Point/Point-to-Multipoint, Wireless MESH Networking, WLAN, WWAN, Mobile Data, Broadband over Powerline, IPICS, VoIP, Bar Coding, RFID, and VPN solutions.

ERS Data Solutions Group serves the Great Lakes Region with offices in Fort Wayne, Indianapolis and South Bend in Indiana; and Itasca, Illinois.

## Motorola, Inc.

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 \$42.8 billion in 2006.



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