



Joint Vision Protects Vital Assets Using the Power of Wireless Broadband

Keeping communities and vital economic resources safe and secure remain top public safety imperatives worldwide. Technology plays a critical role in meeting that ongoing requirement, with many communities, enterprises and government agencies joining forces to build and maintain fully integrated and interoperable communications networks. Wireless Broadband solutions offer an increasingly attractive option for municipalities and enterprises looking to leverage network investments, reduce costs and improve operational efficiencies.

Complex Security Requirements

Supplying two-thirds of the United States' energy usage, the oil and gas industry depends upon a vast and highly decentralized infrastructure, consisting of roughly 150 refineries, 200,000 miles of oil pipelines, and 2 million miles of gas pipelines. The long production chain begins with exploration and drilling and ends with delivery to consumers – Pipeline & Gas Journal, 2006

Threat Mitigation

The threat of terrorism is real and daunting. Attacks on oil and gas installations have become the weapon of choice for international terrorism, irrespective of the political system and social-financial boundary conditions of the society under attack. Enterprises and public safety agencies have a joint goal in protecting these vital economic assets. Having a solid, interoperable network infrastructure is a key capability to realizing that goal.

One rural community in the Southwest U.S. invested in Motorola Wireless Broadband solutions to build a robust, interoperable communications platform to enhance the safety and security of local refineries, as well as to serve neighboring communities in the long term. The need for high speed data and enhanced video capabilities were key drivers in making the wireless broadband investment.

An Advanced Wireless Backbone

The new network components include Motorola mesh AP7300 wireless routers featuring 4.9 GHz with Mobility Enabled Access (MEA) for public safety and a 2.4 GHz radio for public access and special event use. The city also deployed Motorola Mesh cameras at strategic points to provide real-time surveillance of public spaces and critical economic assets. In addition, Point-to-Multi-point links were installed to provide connectivity to the new mesh network as well as the existing city network. The technology was also used to replace existing T1 lines, reducing ongoing operational costs, and enhance connectivity between several municipal buildings including its fire station and city hall.

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SOLUTIONS BRIEF

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The municipality leveraged Motorola Point-to-Point technology to connect existing tower sites, support its deployed mesh cameras and provide backhaul access to its fiber network. Plans are currently underway to expand its wireless network investment to provide connectivity to the city's public works operations, including water treatment and lift stations.



Real-Time Fire Protection

The fire and rescue authority in France – The Service Départemental d'Incendie et Secours (SDIS) – invested in a Motorola Wireless Broadband solution to support a high-speed broadband video surveillance system in the Landes region that detects images of potential fires and transmits them to the SDIS control center in real-time. The system, which consists of Point-to-Point links and mesh wireless cameras, captures and transmits 400 panoramic images each minute. The system has improved safety and security in the Landes region, reduced the cost of fires by catching them early and protected the revenue stream from this vital economic asset.

Extending and Enhancing Coverage

Interoperable communications remains the first line of defense for public safety agencies charged with not only keeping their communities safe, but also protecting public property and natural assets. With the intention of leveraging its investment and increasing the scope of network coverage in the future, the city has plans to expand and share its network footprint with surrounding counties and municipalities. Shared, real-time video capabilities accessed via an expanded, reliable wireless network will not only allow all jurisdictions the opportunity to decrease network costs and better monitor and protect vital economic assets, but also guard against another significant local threat: wild fires. By catching fires early, public safety agencies in the area can minimize property damage and costs associated with these fires.

About Motorola Wireless Broadband

Motorola's comprehensive portfolio of reliable and cost-effective wireless broadband solutions together with our WLAN solutions provide and extend coverage both indoors and outdoors. The Motorola Wireless Broadband portfolio offers high-speed Point-to-Point, Point-to-Multipoint, Mesh, Wi-Fi and WiMAX networks that support data, voice and video communications, enabling a broad range of fixed and mobile applications for public and private systems. With Motorola's innovative software solutions, customers can design, deploy and manage a broadband network, maximizing uptime and reliability while lowering installation costs.



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