CASE STUDY

Video Surveillance

Proxim Wireless Connects Video Surveillance Network to Enhance Public Safety in Venezuela

The state of Bolivar, Venezuela was in need of a large-scale wireless network to connect both state and local police, the National Guard, state transportation and public safety agencies. As a result, the state deployed Proxim's point-to-point wireless technology as part of a large, integrated public safety network in Bolivar City. The network utilizes Proxim's Tsunami QuickBridge.11 radios to create a large wireless video surveillance network.

In addition to Proxim's wireless backhaul technology, the "Emergency Bolivar 1-7-1" network also incorporates closed circuit television (CCTV), digital telephony via Voice over IP (VoIP), fleet management, call management, video conferencing, emergency call management, and fire detection and access control systems. The end result is a fully-integrated public safety network that enables all connected organizations to monitor streaming video surveillance footage throughout Bolivar City, manage all incoming emergency calls, and automatically deploy emergency vehicles and services.

"When it comes to video surveillance networks, the performance demanded of the wireless network is considerably higher than in most network scenarios. In most networks, you have periods of usage where traffic demands spike – but in video surveillance networks, there is a constant demand to ensure the quality transmission of the video streams," said Christian Cooper, Project Coordinator for CorpData, the integrator that deployed the Emergency Bolivar 1-7-1 network. "We have had a great deal of experience with Proxim, and no other wireless vendor can provide the high-performance, QoS and VLAN capabilities that Proxim delivers."

Phase One of this deployment has been up and running successfully since May 2009, and is currently backhauling 18 Pelco video surveillance cameras streaming video from six different locations. The deployment is currently being expanded to cover 10 additional sites with 30 more cameras throughout the city.

"The Emergency Bolivar 1-7-1 network has been a huge success, and is a critical component in our ongoing efforts to serve and protect the people of Bolivar," said Carlos Arias Delgado, Director of Servicio Autónomo de Emergencias del Estado Bolívar 1-7-1. "The scope of this state-of-the-art security and surveillance network demands that we utilize the best technologies on the market today, and we have been very pleased with CorpData's selection of Proxim as our wireless network provider."

When evaluating technologies for this deployment, both CorpData and officials from the State of Bolivar emphasized the importance of achieving the necessary network performance and bandwidth while also finding a cost-effective solution. They determined that Proxim's wireless network could not only provide similar performance as wired technologies, but at a fraction of the cost of deploying fiber or utilizing leased lines. And due to the flexibility of Proxim's products, the ability to utilize the 5 and 10 Mhz channels enabled more efficient use of available wireless spectrum.

Challenge:

- The state of Bolivar, Venezuela was in need of a large-scale wireless video surveillance and public safety network
- The network needed to connect multiple agencies including the state and local police, the National Guard, state transportation and public safety agencies
- The network needed to enable all agencies to monitor streaming video surveillance footage throughout Bolivar City, manage all incoming emergency calls, and automatically deploy emergency vehicles and services

Proxim solutions:

- Proxim Tsunami™ QuickBridge – Quick, easy-to-install point-to-point wireless backhaul that provides a complete hop in a box

Results:

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ABOUT PROXIM

Proxim Wireless Corporation (OTCQX: PRXM) provides Wi-Fi®, WiMAX, Point-to-Multipoint and Point-to-Point Backhaul technologies for a complete indoor and outdoor wireless broadband ecosystem. Our systems enable service providers, governments and enterprises to deploy fixed and mobile security and video surveillance, indoor and outdoor Wi-Fi, business and residential internet access and cell tower backhaul. Proxim has shipped more than 2 million wireless devices to more than 250,000 customers in over 65 countries worldwide. Proxim is ISO 9001-2008 certified. For more information, visit http://www.proxim.com.

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