

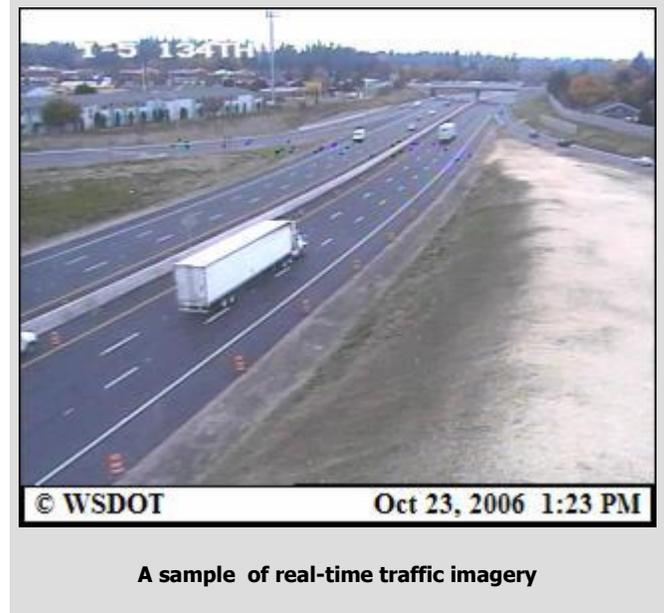
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

Introduction

Washington State Department of Transportation (WSDOT) wanted to utilize the Internet to allow real-time information on road conditions available for: (a) commuters, so that they can determine the best routes (b) law enforcement and emergency responders, so they can assess accident situations before arriving at the scene. (please check for live demos at <http://www.wsdot.wa.gov/traffic/>)

Often, the camera locations are remote and difficult to reach by cable. Wireless backhaul became an obvious choice in those circumstances.

Solectek worked with Tessco Technologies, a major distributor which markets Solectek products under the AirStream™ brand.



A sample of real-time traffic imagery

“We are especially pleased with quality, ease of use, and sturdiness we found in Solectek equipment.”

Dick Varney,
WS DOT, ITS Wireless Department

Application

Traffic Camera video images are backhauled for the WA DOT traffic information webpage (see pictures). The DOT page includes live video feeds and still shots uploaded every 2 minutes via FTP. The camera and wireless systems are integrated with IndigoVision's video encoding and monitoring systems to carry 1.5 Mbps of throughput using MPEG-4 technology. The Washington State D.O.T. uses Solectek products in both 4.9 GHz and 5.8 GHz Frequency bands for maximum flexibility.

Why Solectek?

The Washington State D.O.T. has tried many wireless vendors. They were told by other vendors that what they were trying to do could not be accomplished. They were pleased when Solectek, not only was able to help, but also showed them how to get it done. Solectek assisted with network integration and was able to solve tricky interface issues.



A typical installation view of one SkyWay radio supporting multiple cameras

Why Solectek? (cont.)

The Washington State D.O.T. staff all found that the Solectek equipment is extremely easy to configure and use. They also found that Solectek's price/performance mix was superior. Another factor leading to the decision to go with Solectek was the availability of radios operating in 4.9 GHz which allowed them to move out of congested 5.8 GHz unlicensed frequency band.

Results

The WS DOT can now monitor the road conditions in real-time to alert commuters on traffic via web links and prepare and make informed decisions for first responses and emergency reroutes. The video feed also helps in seeing the weather conditions and is part of the States' Road Weather Information System (RWIS).



Solectek Corporation, headquartered in San Diego, California, designs, manufactures and markets a full line of wireless interconnectivity products. Through technical innovation and steady revenue growth, Solectek has become a recognized leader in the wireless LAN/WAN connectivity market and the industry market leader in wireless bridges. Founded in 1989, Solectek has over 50,000 installations worldwide since 1999. The Solectek product line of wireless bridges and routers is the most flexible, reliable and secure in the industry. For more information visit www.solectek.com.



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