

# BEYOND WIRELESS

Trends Interesting Deployments Business Impact



## *How Motorola's Canopy™ broadband wireless solution helps increase traffic safety in Nevada.*

**The Problem:** *The Nevada DOT needed a cost-effective way to monitor road conditions of a wide highway expanse to ensure safety and provide the public with travel condition information.*

**The Solution:** *A wireless broadband data system supporting a network of video cameras. Seven mountaintop installations of Canopy backhaul units, access points and subscriber modules support video cameras at remote mountain pass weather stations. [www.connectivityinc.com](http://www.connectivityinc.com) [www.nevadadot.com](http://www.nevadadot.com) [www.motorola.com/canopy](http://www.motorola.com/canopy) [www.connectwithcanopy.com](http://www.connectwithcanopy.com)*

**The Result:** *In addition to weather station data for general traffic safety, real-time view of road conditions allows rapid dispatch of sand and salt vehicles to service icy mountain roads.*

### **Background**

The Nevada Department of Transportation (DOT) needed a cost-effective way to monitor road conditions at the crossroads of Interstate 80 and State Highway 93, an area the size of New Jersey. Connectivity, Inc., a wholly owned subsidiary of CNE Group and a system integrator of Motorola's Canopy™ platform, installed a wireless broadband data system to support a network of video cameras along a 200-mile stretch of I-80. The video network consists of seven mountaintop installations of Canopy backhaul units, access points and subscriber modules that support five video cameras positioned at remote weather stations at mountain passes. In addition to remote weather station data, the DOT Traffic Management Center now has real-time view of road conditions, allowing quick dispatch of sand and salt vehicles for icy road conditions. Such dispatches used to take three to four hours. "Now, with real-time video, we can react quickly and have trucks out in as little as half an hour," says Richard Sheldrew, Nevada DOT Information Systems Manager. Tom Sullivan, Connectivity's vice president of engineering, explains that the Canopy platform enables the video network and provides continuous single point-to-point shots moving over 42 miles. This platform provides the wireless broadband capacity needed to monitor this wide expanse of highway. "There are drastic differences in weather conditions from summit to valley along I-80, and it's important for us to be able to ensure safe travel and to provide information to the public about travel conditions," says Sheldrew. With the successful implementation of the new video network, the Nevada DOT sees great potential for extending the power of the Canopy platform throughout the Nevada highway system to support a multitude of Intelligent Transportation System (ITS) applications. "We've finally found the solution with the bandwidth to go the distance," Sheldrew adds.

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**Beyond Wireless** is a mini case study that is intended to illustrate a unique deployment of Motorola's Canopy wireless broadband technology. Our goal is to highlight applications depicting the evolution of wireless broadband technology that connects people to people and people to devices.



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