



# City of Midland, Texas

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## Growing City Turns to Presidio Networked Solutions and Cisco to drive automated traffic management system

### Customer Profile

The City of Midland, Texas, is located mid-way between Dallas/Fort Worth and El Paso and has a growing population of more than 103,000 residents.

### Situation

Experiencing annual population growth of approximately 10 percent, traffic volume on Midland's main arteries and city streets has grown dramatically. (In 2007 alone, 50,000 more vehicles traveled the main arterial routes each day compared to 2006.) However, the City's traffic signals and traffic management equipment – installed in the early 1990s – couldn't support the growth. Implemented as two separate systems, traffic in the downtown area was controlled by a grid system, and arterial streets were managed using fixed-time intervals for peak inbound and outbound periods.

"The systems were approaching end of life and operations and maintenance costs were increasing," explains Eric Johnson, assistant transportation manager, City of Midland, Texas. "In addition, communication between our traffic management center and the two signaling systems was limited, and resolving issues often required several hours, multiple staff members and significant drive time. Additionally, the systems ran on copper wires, which had deteriorated over time and were often mistakenly cut during construction projects. We needed an automated, economical, unified means of managing intersections throughout our municipality."

In late 2007, Midland called on Presidio Networked Solutions to implement a robust Cisco wireless network to support the Naztec, Inc., automated traffic management system it had recently purchased.

The Cisco Gold Certified Partner was named Cisco's 2009 U.S. and Canada Solution Innovation Partner of the Year and holds several Cisco specializations, including Authorized Technology Partner (ATP) status for both Outdoor Wireless Mesh and WiMAX.

### Solution

Presidio began the implementation in early 2008, installing a Cisco Unified Wireless Network to create a powerful wireless network that supports the City's automated traffic management system. The unified wired and wireless network solution cost effectively combines the best elements of wireless and wired networking to deliver secure, scalable wireless networks with a low total cost of ownership.

To that, Presidio added 180 Cisco Aironet® 1500 Series Lightweight Outdoor Mesh Access Points. Designed for municipal Wi-Fi deployments, the APs enable cost-effective, scalable deployment of secure, metropolitan-scale wireless LANs.

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### Results

"We now have a cost-effective, reliable and simple solution to control intersections throughout the city," says Johnson. "By centralizing traffic management, we've greatly limited manual intervention and reduced IT troubleshooting and problem resolution. We've connected nearly 120 intersections, 100 school flashers and five traffic cameras to the traffic management center. The system recognizes how traffic is flowing and makes real-time adjustments on the fly.

"Beyond saving the City money and making our department more efficient, the system has had a positive effect on citizens as well as the environment. By reducing manual intervention and related delays, motorists spend less time in traffic, which reduces emissions and improves gas mileage.

"Now that we have the foundation in place, the possibilities are endless. We can sync rapid transit, school bus systems and emergency sirens, and our police department is exploring the system's advantages relating to 911 dispatch and wireless cameras in cruisers. We've barely scratched the surface of the system's capabilities.

"Presidio and Cisco have been amazing to work with and went above and beyond expectations. They added invaluable intelligence and insight to the project and we'll continue partnering with them as opportunities arise."

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