

CONNECTING THE CITY FOR RAPID GROWTH



"We understand wireless communications, and had a Non- Line of Sight challenge that we thought could not be done. The Cambium PTP solution connected right away and has been working flawlessly since. It connects over water, through trees and comes close to penetrating dirt."

Kim Hansen, Network Administrator, City of Sioux Falls South Dakota

SITUATION

The city of Sioux Falls had two growth challenges to address. A city operated health care clinic needed to share patient health care records and data across multiple facilities. Also, the city water department needed to monitor SCADA information, provide Voice over Internet Protocol (VoIP), and bolster security with remote video surveillance from three remote water reservoirs. Like any municipality, Sioux Falls is facing spending restrictions and needed these solutions in place rapidly. For assistance in developing a solution, they called Calhoun Communications.

SOLUTION

"The IT team in Sioux Falls knows how to enhance and optimize their network," says Tony Carpenter, Vice President, Calhoun Communications. Because of significant wireless activity in the unlicensed 5 GHz spectrum, they selected Point-to-Point links using the 4.9 GHz public safety spectrum. Using the Link Planner tool, Calhoun Communications and the city IT Network Administrators developed the network architecture. For

the health clinic, one Cambium Networks PTP 600 link was deployed to transfer patient records and provide data connectivity. For the three reservoirs, three PTP 600 links provide Line of Sight and Non-Line of Sight connectivity to the camera locations miles away.

RESULT

The network was installed almost a year ago and has worked as predicted through the summer and winter months. The clinics are able to share information reliably and meet HIPAA information privacy security requirements. The city now has simultaneous SCADA and voice access to the remote reservoirs, along with pan/tilt/zoom video surveillance for security. The network was installed in a fraction of the time and cost of wire or fiber based technologies and fits within the constraints of the city's budget.

CUSTOMER PROFILE

The city of Sioux Falls South Dakota has a long history dating from Native American cultures thousands of years ago. Recently, the city saw significant growth in the 1980's and is experiencing steady growth since, with the financial industry and higher education universities leading the way. This growth has fostered a progressive personality that enables IT leaders to plan several years ahead. Accordingly, Sioux Falls has extensive experience with wireless communications. As the city continues to grow, the IT technology team continues to leverage the latest technology to meet demands for broadband connectivity.

"The city of Sioux Falls has been in partnership with us on many wireless communications projects since 2004. We have been able to provide technology solutions that work reliably and they are confident in the design, installation and management services that we provide."

Tony Carpenter, Vice President,
Calhoun Communications