



Case Study

Stelera Wireless Deploys Ceragon IP Solutions to Backhaul Wireless Broadband in Rural America

Ceragon's FibeAir® IP solutions help bring high-speed internet access to eleven towns in Western Colorado

Background

Stelera Wireless is a pure-play (data only) wireless broadband services provider headquartered in Oklahoma City. The company utilizes HSPA (high-speed packet access) technology to bring advanced high-speed internet access services to rural America. Stelera currently holds licenses for the 1700/2100 MHz FCC licensed spectrum in ten states and over 300 cities covering a population of 6 million people.

Launched in March 2008, Stelera already has thousands of users in a number of communities in Southern Texas. During the first quarter of 2009, the company completed a new network to serve eleven towns in West Colorado.

The Challenge: Connect cell sites in rural America to a Central Internet PoP

Stelera offers high speed internet access with service data rates of up to 7.2Mbps on downloads and up to 2Mbps on uploads. As the company set out to build its first commercial network it became apparent that backhauling traffic would be an important issue to tackle. "Everyone understands the cell site to modem technology," said Ed Evans, Chairman & CEO of Stelera Wireless. "The real challenge was getting from that cell site in rural America back to the Internet PoP in a large city."

The solution: A Cost-Efficient Wireless IP Solution

A pioneer in pure-play wireless broadband, Stelera chose to base its backhaul network on high-capacity wireless IP technology. The company selected Ceragon Networks' FibeAir® IP point-to-point microwave solution in order to design a cost-efficient, flat IP network.

Ceragon FibeAir IP solutions offer a reliable, very high over-the-air capacity. These carrier class solutions provide a simple and scalable pay-as-you-grow migration path to serve the ever-increasing demand for data-rich services. Extended QoS capabilities ensure support for real-time multimedia services. Ceragon IP solutions feature optical GbE or electrical 10/100/1000BaseT Ethernet data interfaces and are ideal for multiple network topologies including Ring, Mesh, Chain, Star and Tree.

Implementation

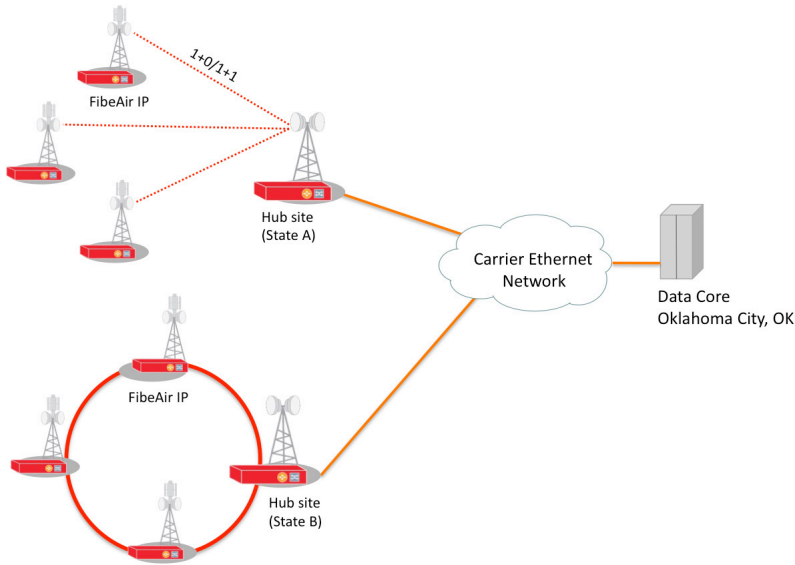
Stelera's network in West Colorado comprises 18 cell sites, a fiber-served hub site and two additional relay towers (microwave only). Ceragon solutions were utilized to connect all network sites and provide throughputs of between 150Mbps and 300Mbps per link, as shown in the following diagram.



"Everyone understands the cell site to modem technology,"
Ed Evans, Chairman & CEO of Stelera Wireless



“Ceragon solutions allow us to cost-efficiently build a wireless network that is optimized for delivering high-speed, value added data services,” said Ed Evans, Chairman & CEO of Stelera Wireless. “Our company is determined to bring broadband connectivity to consumers that, until today, were virtually disconnected. Using Ceragon solutions we can now expand our network reach and serve new markets more quickly.”



Stelera's Flat IP Transport Network with High-capacity Microwave Links (150-300Mbps)



FibeAir IP-MAX²
Carrier Ethernet Wireless Solution

Conclusion

Stelera focuses on bringing data-only wireless broadband services to under-served communities in rural America. The company chose Ceragon's wireless IP solutions in order to build a reliable, high-capacity and highly cost efficient backhaul network. After a successful launch in Southern Texas during 2008, Stelera expanded into Western Colorado and since May 2009, is offering broadband services in eleven new towns.

About Stelera Wireless

Stelera Wireless is a leader in the technology of broadband services for rural markets. It is committed to providing customers with the latest and most robust technology to provide the fastest data speeds available. Stelera Wireless owns 45 licenses to cover approximately 6 million people in 10 states and 300 cities and towns across the United States, and is dedicated to provide superior services to each area. Headquartered in Oklahoma City, Oklahoma, Stelera Wireless is a privately held company. For more information on Stelera Wireless products and services, visit www.stelerawireless.com.

About Ceragon

Ceragon Networks Ltd. (NASDAQ and TASE: CRNT) is a leading provider of high capacity wireless backhaul solutions that enable fiber-like connectivity for SONET/SDH networks, next generation IP-based networks and hybrid networks. Ceragon's FibeAir® family of products support all wired and wireless access technologies and address Service Providers' need to cost-effectively build-out and scale their networks to meet increasing demands for bandwidth and premium services. Ceragon solutions are deployed by more than 150 service providers of all sizes, as well as in hundreds of private networks, in nearly 100 countries. More information is available at www.ceragon.com.

Ceragon North America
Tel: +1-201-845-6955
infoNA@ceragon.com

Ceragon Asia Pacific
Tel: +65 6572 4170
infoAPAC@ceragon.com

Ceragon Europe
Tel: +44-0-1527-591900
infoeuro@ceragon.com

Ceragon MEA
Tel.: 972 3 645 5733
infoMEA@ceragon.com

Ceragon CALA
Tel: +52-55-5663-2914
infoLA@ceragon.com