



Case Study

Codetel of the Dominican Republic Deploys Ceragon's FibeAir® 3200T for Point-to-Point Backbone

Overview

Codetel is the leading fixed/wireless operator in the Dominican Republic and a subsidiary of America Movil. In early 2008 Codetel began deploying Ceragon's FibeAir 3200T® high-capacity, all-indoor wireless trunk solution to support its telecom network expansion and coverage.

The Dominican Republic is an advanced telecommunications market, boasting more than five million mobile subscribers on a population of about ten million. An island-wide microwave radio relay network and fiber optic lines cover many of the main cities and deliver services such as DSL, fixed and mobile telephony.

Codetel, a fully owned subsidiary of America Movil, is the largest of five telecommunication service providers operating in the Dominican Republic. The company provides local, long-distance and wireless voice services together with advanced data services to approximately one million customers.

The Challenge

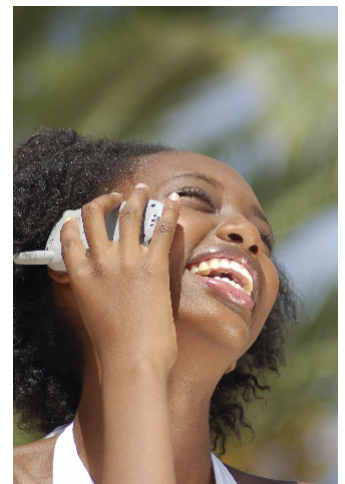
To meet the growing demand for broadband and mobile services, Codetel began planning an expansion of its high-speed backbone. The operator defined strict criteria according to which it would select its backhaul equipment provider. These included:

- Support for ultra high capacities in order to carry a variety of value added voice and data services
- Provide a high performance and cost efficient solution with fast time to market
- Enable full coverage of Codetel's serviced areas
- Provide full protection and redundancy for uninterrupted transmission of voice and data services
- Ability to operate under extreme weather conditions (the country is a tropical, maritime nation experiencing periodic hurricanes during the wet season between June and November)

In addition, Codetel required that any vendor selected would also be able to provide full installation services.

The Solution

After evaluating the available backhaul technologies, Codetel opted for microwave as a high-quality and cost efficient alternative to fiber. The operator went on to select Ceragon's FibeAir® 3200T – a point-to-point microwave backbone transmission solution. Installation and project management for this advanced all-indoor solution were handled by Ceragon's local partner Telenetworks. www.telenetworkspr.com



“Ceragon's high-capacity wireless solutions allow us to put our network in operation quickly, while the modular architecture of their systems will enable highly cost-efficient upgrades in the future”

(Eng. Juan Mota, Network Planning Director at Codetel)





Ceragon's FibeAir 3200T provides Codetel with high capacity connectivity using multiple STM-1's to enable the provisioning of voice and data services over its rapidly growing network. Codetel deployed the FibeAir 3200T in a number of N+1 configurations including 3+1, 4+1, 5+1 and 8+1. Currently the operator is considering to increase the number of carriers even further.

On top of N+1 switching protection, FibeAir 3200T also features embedded space diversity and ultra high power, enabling Codetel to greatly improve hop length, system performance, and availability. FibeAir 3200T's ultra high power transmitter also reduces system cost due to the usage of smaller antennas. The solution allows for quick and easy deployment and can be used to bridge over mountains, jungles and water where wired solutions cannot - or are too expensive to be deployed.

With FibeAir 3200T, high quality communication is achieved, at a lower price making the solution an ideal and economical alternative to fiber optic lines. Other unique features of the FibeAir 3200T include:

- High capacity of up to 10 x 155 Mbps
- Space Diversity for improved link length
- Long-haul connectivity Using 6-11 GHz frequency range
- Ultra high transmit power of up to Up to 32 dBm
- Compact & modular for quick and easy deployment



FibeAir 3200T, N+N High Capacity Wireless Ethernet System

Conclusion

Codetel, a leading provider of fixed and mobile voice and data services, selected Ceragon's FibeAir 3200T microwave solution for the expansion of its high capacity backbone network. Ceragon's advanced system enabled Codetel to quickly scale up its broadband offering guaranteeing continues, fast and reliable communication.

"Codetel set a goal to rapidly expand its network coverage while increasing its capacity support in order to meet the demand for additional fixed and wireless broadband services," said Eng. Juan Mota, Network Planning Director at Codetel. "Ceragon's high-capacity wireless solutions allow us to put our network in operation quickly, while the modular architecture of their systems will enable highly cost-efficient upgrades in the future," he concludes.

About Codetel

The Dominican Telephony Company is the leading provider in the Dominican Republic of telecommunication services including wireline, wireless, long distance, internet and data with their recognized brands Codetel and Claro. Based in Santo Domingo and in service since 1930, Codetel is the only provider in the Dominican Republic that offers a complete telecommunications portfolio, which allows to segment their customer preferences. It is an America Movil Group subsidiary, which is the leading provider of wireless services in Latin America with operations in several countries of the American Continent.

About TeleNetworks Broadband Solutions, Inc.

TeleNetworks Broadband Solutions, Inc. is a San Juan, Puerto Rico based reseller and systems integrator with over 20 years of experience in providing telecommunications networking solutions to carriers, utilities, service providers, MSOs and enterprises in Puerto Rico, Dominican Republic, and the rest of the Caribbean. Visit www.telenetworkspr.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.