Case Study

Banking on Wireless

Bank Application

CUSTOMER

Banco Del Pichincha is the largest bank in Ecuador with more than 200 branch offices disseminated in all regions of the country. Their last mile access has been designed by Trasmidatos who is a leading integrator in Ecuador with more than 20 years of experience in the design of wireless communication systems using different technologies such as satellite, spread spectrum, and microwave.

CHALLENGES

As the largest bank in Ecuador with more than 207 offices in 76 cities, Banco Del Pichincha must maintain its reputation for quality, and demands from its suppliers' reliabilities above 99.96 % for its entire network and an availability of 24 hours per day during 365 days of the year. All of these factors, added to the bandwidth needs for the different services and excellent response times, led Trasmidatos to choose EION's VIP 110-24 as the appropriate equipment for this network design.

Bancho required a network consisting of a high-speed backbone that will cross through the main cities of Ecuador. From each of these cities, there will be a link to the main offices located in provincial capital cities. Banco Del Pichincha needed to deliver a comprehensive range of services, such as VoIP, IP ATM's, email and secure Internet access to all of its branch offices in both urban and rural areas at the same time of overcoming line of sight limitation between branches. Therefore, being able to provide last mile access in a NLOS environment was crucial to Banco Del Pichincha's business objectives of improving internal communication and enhancing services to its customers.

SOLUTION

The last mile access consists of high-speed wireless IP links using spread spectrum technology from EION's VIP 110-24. The VIP 110-24 unique any point -to-multipoint capability using VINE topology is ideal for overcoming NLOS obstacles. With the mountainous regions, the VIP established a wireless connection between all Banco's main and branch offices despite not always having a line of sight between them.

Banco has been able to avoid the use of repeater stations in higher levation sites, thereby greatly improving the reliability and security of the network because all equipments have been installed in the banks branch offices.

RESULTS

The VIP 110-24 has facilitated the design of the wireless network and has supplied a reliable, economic and high-speed solution to each of the bank branch offices with the range of services demanded by Banco. These services are now extended to over 100 branch offices and have exceeded the banks reliability targets. By using the VINE technology, Trasmidatos has been able to include branch offices that are located 80 km away from the main provincial office and do not have clear line of sight.

"The VIP 110-24 is an excellent bridge that provides many additional characteristics, such as the management of bandwidth allocated to each equipment, speed and power transmission control for each equipment and others at a low cost."
Jorge Glas, General Manager of Trasmidatos.

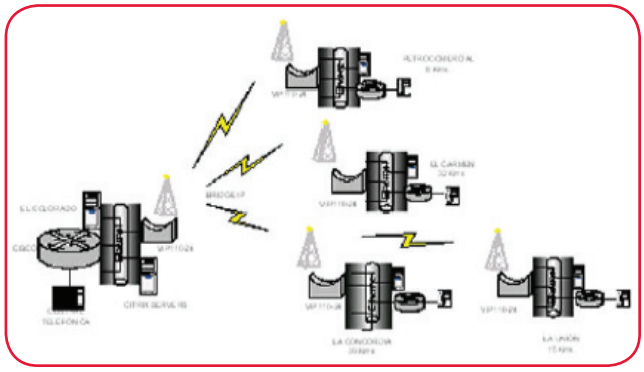

Figure 1: Enlace Santo Domingo Agencias VIP 110-24

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EION Wireless, a division of EION Inc., is a global provider of Broadband Wireless Access products that enable effective, economic and secure wireless high-speed communications solutions. EION is a Principal Member of the WiMAX Forum and was named one of the fastest fifty growing wireless companies in North America by Deloitte and Touche. With over ten thousand broadband wireless installations worldwide, the company's licensed and unlicensed frequency products are used by wireless ISPs, private network operators, and remote rural networks and in voice and data backhaul applications to solve last mile challenges. EION Wireless works with more than 165 worldwide channel partners to support its diverse global customer base.

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