



CANTV – Multi Service USO Solution

Executive Summary**Challenge**

CANTV required a reliable and flexible network to provide Cellular Backhaul services, and also to provide Schools, Hospitals, and Government Entities with Internet access and dedicated data links.

The Solution

Spacebridge provided a VSAT system that combines DVB-RCS and SCPC HUBs in a multi-band (Ku and C) design. The project included installation of an integrated DVB-RCS HUB with 6,000 remote sites terminals, and a second DVB-SCPC HUB with 150 remote sites.

Benefits of Spacebridge

Quick and easy integration of VSAT network with CANTV services/systems (VoIP, Internet, 2G & 3G IP mobile networks). Highly flexible platform able to support the diverse service requirements of CANTV customers in a single platform. DVB-RCS and SCPC satellite services in single, space segment-efficient VSAT platform.

**Introduction**

CANTV, the biggest Telecommunications service provider in Venezuela, required a reliable and cost-effective wide area network to provide Internet and IP services to areas where terrestrial connectivity was not available. Spacebridge's multi-platform, multi-band VSAT network solution allows CANTV to provide reliable Internet and data access to government facilities in remote communities, and to efficiently backhaul cellular traffic. Thanks to the SpaceBridge solution, CANTV was able to expand its nationwide network coverage.

The Challenge

CANTV needed a backbone network solution that could quickly deploy in virtually any geographic location nationwide. The network also needed to be able to support end-user telecommunications services for a diverse range of customer requirements from a broad range of sectors, including Education, Health, Military, Oil Industry and Cellular/Mobile.

The Solution

Spacebridge designed and built a multi-band (C and Ku), multi-platform (RCS and SCPC) platform solution that provides nationwide service using VSATs. Two fully (N+1) redundant Hubs were installed in the CANTV central Teleport in El Sombrero, Venezuela. The network employs 6,000 remote terminals using with MF-TDMA (RCS) for Internet services. 150 remote stations use SCPC channels on satellite, for Cellular Backhaul, and to provision dedicated links for critical Oil sector and Government customers.

Results: Benefits of Spacebridge

The fully redundant platform SpaceBridge deployed for CANTV gives the telecoms carrier a resilient solution that can flexibly deliver a wide variety of services, according to specific remote site customer requirements. For example, services ranging from simple Web browsing to more demanding services such as Cellular Backhaul, and private data networks can all be delivered through SpaceBridge VSATs, based on specific customer demands, and easily integrated with the carrier's existing MPLS ground network.