

CASE STUDY



BATS Works With Large Seismic Exploration Company To Deliver High Speed Ship-to-Ship Communications

Situation

A worldwide marine seismic exploration leader has experienced success in the marine seismic acquisitions industry through its cutting edge development of dual imaging acquisition. Instead of traditional 2D and 3D seismic acquisition where raypaths are aligned in one direction, the company's dual imaging method generates a more accurate view of the ocean floor by shooting unique, overlapping patterns with multiple vessels. As the vessels run their scans, they must transmit data within the fleet; even while being located as much as 14 km apart.

The seismic company pioneered the most cutting-edge seismic imaging technology in the industry; but was impaired by ineffective wireless technology. Crews between the two vessels were attempting to transmit data and communicate from one vessel to another through Cisco Aironet wireless access points and satellite. However, the increased distance between the two vessels resulted in an "insufficient range for the data links" in the fleet. What they needed was an alternative broadband solution with a high data rate and long-range capability to efficiently transmit data findings between vessels. Additionally, they were challenged with finding a solution that would serve their increased capacity and distance requirements while remaining cost effective.

Solution

Recognizing the connectivity gap left by their current, ineffective Cisco Aironet and satellite systems, the seismic company immediately looked to BATS; developers of high-speed, broadband ship-to-ship and ship-to-shore communications. After reviewing the deployment case, BATS determined that the BTS 50 Marine would be the most effective system for the environment. They proceeded with the initial, broadband installation of the BATS units on their seismic fleet, which ensured these vessels were able to exchange critical data and communications with BATS-enabled point-to-point (PTP) systems. As the organization continued to perform more frequent dual pattern seismic scans, they began to integrate more BTS-50 systems across their fleet. BATS systems have exceeded expectations and consistently provided critical communications and production data for this leader of seismic exploration in the oil and gas community.