VIRGIN TECHNOLOGIES INC.

High Speed Internet
Anytime. Anywhere.

Case Study

automated portable solutions

Automated portable Internet connectivity for service vehicles and movable work platforms

CN freight train near Henry House, Alberta. #EF-2845-5 (photo by CN)

Virgin Technologies

Virgin Technologies Inc. is a leading provider of mobile and fixed satellite Internet services for companies working in remote or rural locations. Virgin provides cost-effective communication solutions that enable business to extend its network to all offices and locations regardless of geographical boundaries.

www.virgintechnologies.com

Customer Profile

CN manages over 19,000 route-miles of railroad track in Canada and the United States. An engineering test car travels the railroad track on a continuous basis monitoring and collecting important data that must be sent back to the CN engineering network operations office. This information is time sensitive and must reach the office as soon as possible.

The Business Issue

CN staff members would collect the daily data, copy the associated files to a computer compact disk (CD) and mail the contents to the data centre via the local mail service. This procedure proved to be inefficient and troublesome. Due to the time lag in the mail system, and some of the logistical challenges associated with locating and mailing the CD, it was very difficult for the data to be sent in a timely manner. A more efficient and timely way of transferring the data to the office was needed.

The Solution

After several consultations to learn more about the challenges faced by CN, Virgin Technologies proposed its automated Satellite High Speed Internet system. With its simple one touch deployment an externally mounted satellite dish on the roof of the CN engineering rail car is deployed and self aligned to a satellite giving the engineering staff an instant secure high speed connection to transmit data. The current equipment can expand to CN's growing bandwidth needs offering speeds of up to 3Mbps down x 512Kbps up.

Call Today to Order 1-866-788-VSAT

CN

Implementation Details

1.2M MotoSAT D2 mobile satellite system
HNS DiRECWAY DW6000 modem
VSR-30 Encore Satellite VPN router

High Speed Internet

Telephone

Fax

VPN

Case Study Automated Portable Solutions

1.2M MotoSAT D2 Mobile Satellite System

The DataStorm Mobile Internet Satellite System is the first two-way system approved by the FCC. Designed to automatically acquire the Internet satellite in the sky, the DataStorm uses motors, gears, and a GPS system to adapt to the mobile environment. Its unique fold-down design [12" when stowed] lets most vehicles become a stable platform for installation. The D2 and D2 DVB controllers give the DataStorm true plug-and-play capabilities with any computer or network platform.

- **1.2M dish**
- **True two-way send/receive mobile satellite Internet**
- **12" stowed height**
- **175lbs. total weight**
- **DVB controller capable**

HNS DiRECWAY Entry Level Satellite Modem

The DW6000 is an entry level satellite communication modem. The DW6000 combines the receive and transmit modems as well as the stand alone gateway all in one form factor. The DW6000 works with many IP aware operating systems such as Windows, UNIX, Linux and Mac.

iDIRECT NetModem True IP Broadband Modem

The iDIRECT is an Enterprise class modem, integrating all the hardware and software needed to deliver bi-directional broadband easily and efficiently. The iDIRECT solution provides the networking power you need to support all your user applications, and meet any communication challenge via satellite.

VSR-30 Encore Satellite VPN Router

The VSR-30 with its built-in support of Selective Layer Encryption VPN capability, delivers high performance VPN services over satellite to medium and large enterprise customers by interoperating with standards and proprietary based methods of TCP acceleration used to overcome the performance issues associated with satellite connections.

- **Proven ELIOS operating system**
- **High performance VPN solutions**
- **Built-in stateful packet inspection firewall**
- **Advanced Quality of Service settings**
- **Support of DHCP, NAT and PrAT**

VIRGIN TECHNOLOGIES INC.

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