



JTL VSAT



Product Overview

JTL V-SAT solutions provide low-cost, turnkey solutions for private data networks connecting business enterprises, governments and financial institutions. The platform is ideal for businesses of any size requiring fast downstream and upstream throughput for multimedia applications, large file delivery and extremely rapid access to the Web. The resulting services can support inter-office connectivity, back-office operations, point-of-sale transactions, virtual private networks, LAN/WAN internetworking, and VoIP.

JTL's own platform gives us the ability to launch VSAT-based services more affordably than you might have thought possible. JTL will work with you to tailor a solution that meets the specific needs of your organization. We will provide you with a complete solution proposal — including a requirements study, network design and sizing, optimization of the space segment and hardware recommendations. Then, depending on the configuration you choose, we'll step in to make sure your equipment costs are among the lowest available.



Key Benefits of Satellite Communications:

Ubiquitous Availability

Satellite is the only telephony and data wide-area network technology that is available everywhere - in even the most remote urban and rural areas, rain forests or concrete jungles, anywhere in the world. All that's needed is a clear view of the sky.

By contrast, other telephony and data technologies are strikingly limited in their coverage area. Terrestrial broadband technologies, such as DSL, Frame Relay, ISDN and cable reach only a small percentage of homes and businesses.

Superior Economics

Satellite networks are much less costly to deploy, maintain and operate than terrestrial network technologies. Terrestrial networks require heavy infrastructure, whether they are telephony networks (based on copper wiring, fiber optic cables, radio or microwave towers), or data networks (such as Frame Relay, DSL, ISDN and cable). High overhead costs for these infrastructures are passed on to the customer. In remote areas where such infrastructure does not exist, the expense of building such networks is often prohibitive, in developing and developed countries alike.

The economics of a satellite network are much simpler. The individual VSAT units are relatively inexpensive and can be quickly and easily installed by a field technician. Hub and satellite costs are shared among thousands of customer sites, so the per-site cost of equipment, maintenance and management is low - and gets lower as more sites are added to the network.

And no terrestrial infrastructure development is ever needed. In fact, VSATs - which are built for low power consumption - can even run without electricity, using simple solar panels.

Reliability

Satellite networks provide unmatched reliability, with far fewer potential points of failure than terrestrial solutions and built-in redundancy at almost every level to limit service interruptions when problems do occur.

Terrestrial networks have multiple potential points of failure where outages can occur: construction projects digging up streets; falling trees taking down telephone poles; equipment failures at the local telephone central office, to name a few. And many times, terrestrial network providers may not be able to fix these outages without third-party carriers.

Satellite networks have just three potential points of failure, each with built-in redundancy and backups: the satellite, the hub and the VSAT. Satellite outages are exceedingly rare but, should one occur, it is usually possible to automatically reroute traffic to back-up transponders without impacting service. In the even more remote case of total satellite failure - which has occurred just twice in the 3e-plus years that satellites have been in commercial use - back-up capacity is available on dozens of satellites. At the hub, online redundant equipment is used to provide immediate switching for uninterrupted service in the event of equipment failure. And VSAT equipment has the longest mean between-failure in the industry: about 15 years.



Timely Deployment and Installation

Satellite networks can be rolled out to hundreds or thousands of locations in a fraction of the time required for a comparable terrestrial network.

With a terrestrial network, deployment and installation of new systems or even single locations is complicated, often involving multiple vendors who have no incentive to work with or assist each other. But VSAT technology is almost completely free of terrestrial infrastructure, so there is no need for coordination with any third party. With a satellite network, installation and deployment are quick and simple.

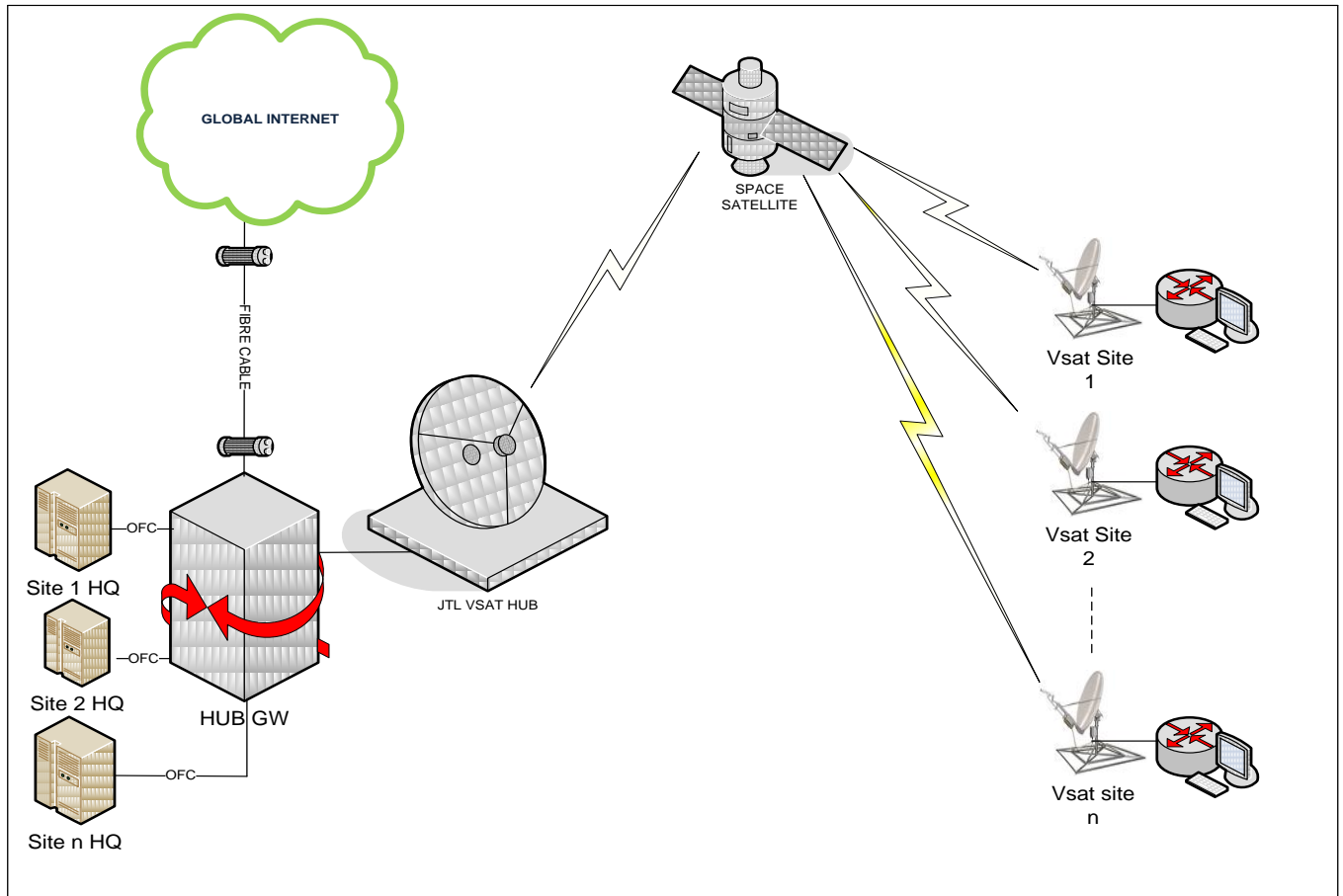
An installation team can usually complete a site install in a matter of hours, no matter where the site is located, meaning that complete network deployment to hundreds of sites can be accomplished in a matter of months.

Product Applications

- Web browsing / E-mail services
- VoIP services
- VPN through the internet



Solution Design



Features and Benefits:

- quick to deploy – short mean time to deliver
- Ability to target small-dish audiences and meet specialized service requirements
- High powered, fully steerable Ku-band (C-Band) spot beams
- Support for applications including POS, VoIP, VPN's LAN/WAN networking, Internet/intranet, video conferencing, remote site networking
- Large in-orbit capacity makes VSAT platforms cost-effective
- Star, multi-star, mesh wideband and remote solutions
- Solutions using all the most widely used VSAT equipment
- Nairobi based NOC

EQUIPMENT

Installed at locations that require broadband wireless access, the end user devices provide operators with the ultimate flexibility to serve a diverse range of business and residential customers cost effectively. There are three primary types of end user devices: mobile, self-install indoor, and for longer ranges an outdoor end user device.

Indoor Device self-install- Just open the box and plug it in. It is deployed typically near the end user's PC. It is designed for plug and play operation, enabled by using a user-friendly application provided on a CD with the unit.

Outdoor Device- placed in places where there is little coverage.

Availability

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For More Information

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