



# VSAT NETWORKS

*Secure and robust 2 to 20 site private networks for data, voice, audio and video.*



## THE VSAT NETWORK CHALLENGE

The challenges with VSAT network design and implementation...

**Right technology**— choosing the right technology (SCPC, MCPC, DAMA, TDMA etc) for the specific network needs is essential both in terms of operational performance and cost of implementing and operating the service.

**Rapid deployment** - Recognising that VSAT networks are typically for temporary links between sites, VSAT terminals need to be as light as possible and easy to deploy, with the minimal of technical skills required.

**Rugged and robust build** — As VSAT networks are often used across difficult terrain that does not have a suitable infrastructure already in place, VSAT terminals need to be robust and rugged, for transport, deployment and operation, for even the harshest environments.

## THE S3 SATCOM VSAT TECHNICAL SOLUTION

The S3 Satcom VSAT Network technical solution to these challenges...

**2 to 20 site VSAT Networks**—S3 Satcom specialises in the design and deployment of small VSAT networks suitable for computer and voice communication, audio and video contribution and radio broadcast.

**VSAT technical design** - From VSAT networks for internet backbones to ones for broadcast video contribution, S3 Satcom's engineers will help select the appropriate technology and products to suit your specific needs.

**VSAT monitor and control** — S3 Satcom's in-house remote control and monitoring system provides a user friendly interface for the monitoring and control of all the equipment within the VSAT network, with alarms, logging and remote systems control functionality.

## DELIVERING BUSINESS BENEFITS

So why invest in S3 Satcom for your VSAT network solution...

**Reliable technology partner** — investing in an S3 Satcom VSAT network is investing in peace of mind, knowing that you'll have the support of a professional and highly experienced team from design to operational support.

**Fit for purpose solution**— As S3 Satcom are technology and supplier agnostic, you know that you'll receive independent guidance on the right solution to fit the needs of your business, and professional design and delivery.

**Minimised lifetime cost** —By balancing the VSAT hardware cost against the satellite bandwidth cost for your specific traffic type and volume, S3 Satcom ensures that your VSAT lifetime cost is minimised.

### Applications



#### Commercial and government sectors

Use a VSATs to rapidly deploy private and secure data and/or voice networks across geographic and political terrains that otherwise do not have suitable infrastructure available.



#### Broadcast and media organisations

Receive audio and voice contributions from remote locations to their central operations. Send audio or video to remote VSATs for local connection to local distribution services.

### Business Benefits



#### Improved content reception or distribution

With your own VSAT network you have control over the quality and location of your communications, contribution and distribution of data, voice and video.



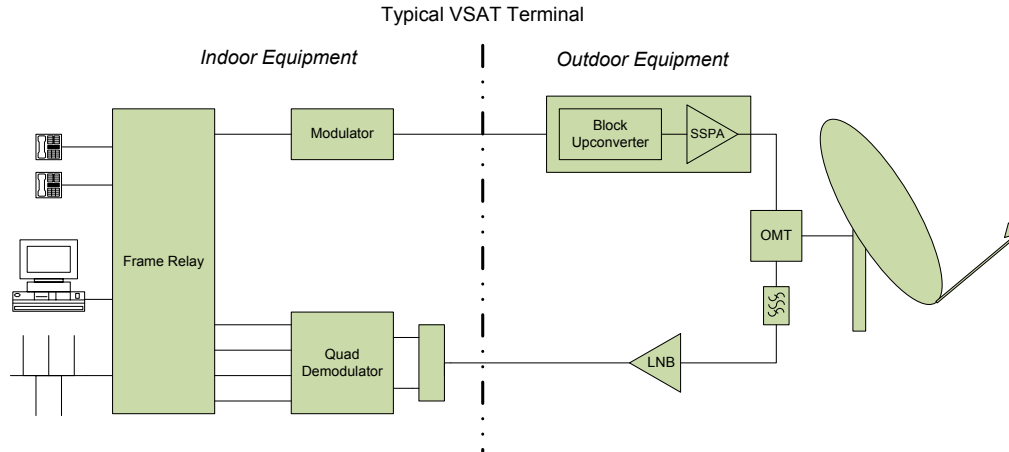
#### Reduced operational costs

A correctly designed VSAT network can deliver significant cost savings for communications, contribution and broadcast compared to using or expanding existing infrastructures.



## VSAT NETWORK DESIGN PHILOSOPHY

The S3 Satcom VSAT networks are professionally designed by a team of experts, each with over 20 years experience in the satellite communications solutions business. From the selection of the appropriate VSAT technology to suit your specific needs to ease of use and deployment of the VSAT terminals, S3 Satcom deliver quality solutions that will provide you with reliable and high performance connections.



### SELECTING THE RIGHT TECHNOLOGY

**Frame relay technology**—The use of Frame Relay technology permits the multiplexing of all outbound traffic types for all destinations for transmission on a single carrier. Small packet size and efficient voice codecs, coupled with the ability to prioritize voice traffic over other, less delay-critical data makes Frame Relay a very powerful solution for a wide range of communication requirements.

**IP Networks**—For networks predominantly carrying data, DVB outbound and SCPC return networks provide economical internet backbone connections via major teleport operators over a choice of many high power satellites.

**Inclined Orbit Operation**—Further substantial on-going savings can be made by the use of inclined orbit space segment. S3 Satcom's 'Satsio' product offers cost effective access to such satellites using small antennas.

**Monitoring and Control**—The S3 Satcom monitor and control software runs on a supervisor computer accessed by single or multiple workstation clients located anywhere with LAN or modem connectivity to the supervisor. It offers powerful equipment monitoring and control with redundancy switching, and comprehensive event logging facilities

### SELECTING THE RIGHT PARTNER

**Quality Design and Build**—Each VSAT system is custom designed by S3 Satcom's professional team of engineers, from system calculations to equipment integration. Components are chosen from the world's leading suppliers for their reliability, maintainability, ease of use and cost effectiveness. Quality is controlled throughout the design and build process ensuring optimum system performance and reliability.

**Professional On-site Configuration and Training**—S3 Satcom offers an on-site or in-factory configuration service, ensuring that the system is configured just the way your operators need. Comprehensive training can be given either in the factory or on-site by our experienced technicians and engineers. All systems are provided complete with extensive handbooks and drawings ensuring hassle-free fault finding and rectification.

**Customer Support and After-Sales Service**—S3 Satcom prides itself on its customer support and after-sales service. A worldwide network of representatives and distributors are trained to provide first line support of your VSAT network. Telephone support is available from S3 Satcom's engineers who can be available for local assistance if required at short notice.

### ABOUT S3 SATCOM

S3 Satcom provides broadcasters, telcos and corporations with specialist satellite communications products and services.

Our products and systems include fixed earth stations, VSAT networks, M&C software and the market-leading Satsio small antenna tracking and pointing system.

S3 Satcom headquarters is in the United Kingdom. The company operates globally through a network of value added resellers.

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