Advantages of a VSAT network

Extensive Reach & Rapid Deployment

VSAT (very small aperture terminal) is one of the only broadband data communications services that is available almost anywhere and everywhere. Even in the most remote areas, on land or sea, no matter what your situation, VSAT is capable of meeting your voice and data communication needs.

VSAT terminals can be quickly deployed to geographically dispersed sites in a mere fraction of the time it takes for traditional terrestrial based communications infrastructure. Depending on the size of the dish, the installation of the VSAT terminal at a site can be completed in a matter of hours.

Uniform Service Quality & Competitive Costs

All sites within the VSAT network receive the same high quality service, regardless of whether these sites are located in urban or rural areas.

Unlike traditional terrestrial services, the monthly charge for an end-point 1,000km or 10,000km away, will be a fixed and competitive price. Well designed, multi-node VSAT networks can be deployed at a significantly lower total cost of ownership – no more annual budget overruns or costing based on distance and location.

Flexible Network Expansion & Configuration

Additional VSAT terminals can easily be added to or removed from the network depending on your operational needs, with centralised end-to-end control. Bandwidth at any site can be resized and traffic reconfigured or reprioritised from the Network Management Centre at the touch of a button.

High Reliability & Availability

VSAT networks offer high reliability as the points of failure are limited to just two locations in a communications link. This ensures minimal downtime as the service availability for VSAT networks averages out at 99.85%. This is increased by the size of your antenna and the strength of the satellite spot beam over your area. VSAT is considerably more reliable than terrestrial network technology.

Centralised Network Management

Umoya's VSAT networks are fully managed and monitored by a centralized Network Management Centre (NMC). The NMC keeps track of the status of all network elements, and is the single point of contact for all network issues. Outages are detected as they occur, with faults proactively and promptly rectified.

Some applications of Satellite and VSAT Technology

GSM network backhaul

VSAT is a cost-effective and well-established solution used extensively in GSM networks throughout Africa for "carrier grade" backhaul.

Converged infrastructure

Government services (such as Air Traffic Control, Ministry of Foreign Affairs, Disaster Management, etc) and Enterprises (Oil & Gas, Logistics, etc) need voice and data routers to create digitally converged networks across diverse geographic areas. They need to reduce operational and infrastructure costs and alleviate bandwidth constraints without sacrificing quality of service, reliability or performance, specifically when it comes to networks using satellite transmission links.

Mission critical applications

Civil Aviation Authorities (CAAs) are responsible for delivering reliable communication services to airlines for supporting their mission critical applications. Dedicated VSAT networks provide virtually error-free, carrier-grade (99.85% network reliability) digital voice and data communications services.

Umoya Network Contact details:

Phone: +27-21-702-4848 email: sales@umoya.net

web: www.umoya.net twitter: @umoyanetworks