



VSAT.

Infrastructure that really does fall from the sky.

Overview

In the age of optic fibre, satellite communications is mistakenly seen as obsolete. Far from it. No infrastructure can be deployed as rapidly. No other telecoms infrastructure has the geographic reach that VSAT has. Few other solutions make it possible to reconfigure or redeploy bandwidth across sites at short notice. Few other technologies have the resilience and robustness of satellite. Concerns about the latency inherent in satellite communications adversely impacting on VoIP have proved unfounded. Most importantly, however, VSAT can be more cost effective than other terrestrial solutions when you have multiple sites. Might it be that you have overlooked a robust, flexible, cost effective option for extending your national backbone? Or providing a local loop into under-served areas when it comes to your voice and data offerings?

Your Needs

Whether you need a point-to-point link between Durban and Dar es Salaam, a reliable last mile solution to sites scattered across the country or backup links for your national terrestrial network, VSAT may be your best option. Umoya have deployed VSAT solutions for Disaster Management, with interlinked IP PBXs and application servers for call centres. We've implemented mobile voice and data solutions for sporting events such as the Cape Argus as well as end-to-end managed LAN and VSAT networks and services for all the vehicle weigh-bridges in the Western Cape. Umoya has rolled out Internet connectivity to thousands of Gauteng schools over the past few years using a mix of VSAT and wireless technologies.

We are in the process of providing IP Video streaming over VSAT for international media organisations, allowing vast improvements on bandwidth efficiency on TV broadcasts. We have been tasked with extending the Emergency Services TETRA network using VSAT.

Technology

Umoya VSAT networks are based on iDirect equipment using DVBS or DVBS2. We purchase directly from iDirect with whom we have a solid working relationship.

Typical VSAT applications

Multiple distributed sites.

Umoya is currently involved in rolling out the connectivity, via satellite, between 1000's of schools across the country, enabling access to the internet, shared educational resources and electronic textbooks for many previously disadvantaged learners within the Gauteng Province. VSAT is the perfect medium for deploying such infrastructure.

Reliable, resilient voice and data communications.

Umoya has assisted in the infrastructure design, implementation and support of all the Disaster Management centers within the Western Cape. Umoya currently offers satellite, radio and backbone (voice ready switches and routers) connectivity.

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Scalable, mobile voice and data anywhere

Umoya provides mobile VSAT units to Disaster Management as well as both the Argus and Cape Epic Cycle tours, voice and data communications, anywhere there is clear line of sight to the satellite. Scaling up capacity at short notice to cater for peak demand is easy to achieve.

Multiple sites with variable data needs

Savings of up to 50% compared to dedicated terrestrial leased line networks are possible. Depending on the voice and data needs at each site, when you have more than 5 to 10 sites, it is possible, through efficient allocation of bandwidth to provide VSAT networks at lower cost than terrestrial leased line networks.

Benefits

Umoya VSAT networks are:

- Carefully designed
- Robust
- Cost effective (*TCO can be less than traditional terrestrial networks*)
- Flexible
- Rapidly deployed
- Reliable

Service

- We listen to your needs and try to probe for some you may not have seen yet.
- We assess your situation and the options open to us and balance quality with budget.
- We design the network with care.
- We can provide you with a project plan to sign off.
- We take care of liaison with all suppliers and service providers on your behalf.
- We implement the design, taking pride in our work.
- We only hand the network over to you when we're sure it is working as intended.
- A Service Level Agreement ensures peace of mind.
- We support you as promised.
- ISO 9001:2008 accreditation pending.

Why Umoya

The Umoya team believe that success is a journey not just a destination. We are competent professionals; passionate people, people of integrity whose word is our bond and who are always up for new challenges in finding appropriate technological solutions to our customers' needs.

Umoya Networks have a well established track record in the VSAT space. We run an Earth Station in Gauteng with a second planned for Cape Town. We have deployed VSAT terminals in locations across the country and manage a number of VSAT networks on behalf of corporates and government departments. With the likes of Disaster Management and Emergency Services entrusting Umoya with their voice and data networks, we like to believe that we have earned the trust placed in us.

About Umoya

Umoya is a licensed ECNS (Electronic Communications Network Service) Provider, a member of ISPA (the Internet Service Providers Association) and Unashamedly Ethical. Umoya is proud to list the likes of Cape Town Metro Police, PCT (Process Control Technology), Emergency Services, Department of Agriculture, Cape Argus Cycle Tour, Cape EPIC Mountain Bike Race, Department of Health, Disaster Management, Department of Public Works and Transport and the City of Johannesburg as customers.

Other Products

Umoya also provides the following products and services:

- **Connectivity**
 - LAN design, installation and maintenance using a mix of Ethernet and wireless based technologies.
 - WAN design, installation and maintenance using a mix of VSAT, optic fibre, leased line, Metro Ethernet, ATM and MPLS VPN technologies.
 - Voice, from IPPBXs to VoIP services.
- **Consulting**
 - Tender Preparation
 - Process design and optimisation
 - Change management
 - Network troubleshooting
- **Software**
 - **staffroom** (education admin system)
 - **uniti** (integrated collaboration system)
 - Custom software

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