VSAT Overview

Datanet, a subsidiary of US-based parent company BringCom, offers a wide range of VSAT (Very Small Aperture Terminal) services in Uganda and across Africa. VSAT systems provide high-speed, broadband satellite communications for internet or private network communications. VSAT is ideal for mining camps, hotels, oil & gas facilities or any application that requires a broadband Internet connection at a remote location. BringCom and Datanet have over 20 years of experience installing and operating VSAT networks in Africa and around the world. The company has installed and managed over 1,500 VSATs. BringCom also has a network of licensed VSAT installers across the African Continent.

VSAT networks are beneficial when the coverage area is quite large, where quick installation is needed and where terrestrial alternatives are difficuly to implement. Because of their convenient size, VSATs have made satellite communication solutions a very appealing option for a wide range of industrial, commercial, and NGO applications including mobile communications and broadband VSAT.

A VSAT configuration kit features:

- Antenna (majority of VSAT antennas range from 75cm to 1.2m)
- Block Upconverter (BUC)
- Low-Noise Block Downconverter (LNB)
- Orthomode Transducer (OMT)
- Interfacility Link Cable (IFL)
- Indoor Unit (IDU) or Satellite Modem
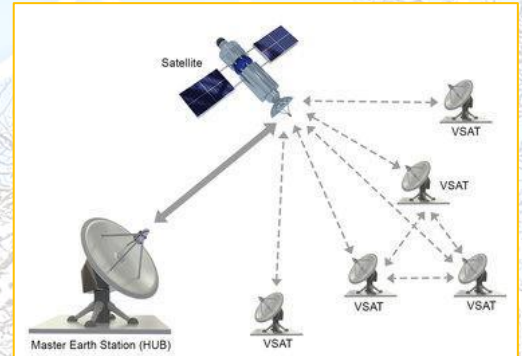
Our VSAT Services

- Shared Bandwidth TDMA VSAT Services (Teleports in Europe, Kenya and Djibouti)
  - Internet Access C-band, Ku-band and Ka-band Shared Bandwidth Services with 1:1, 1:4 and 1:10 contention ratios
  - iDirect, Newtec, and Hughes DVB platforms
- Dedicated Bandwidth SCPC VSAT Services (Comtech, Newtec, UHP Romantis modems)
- Star (VSAT terminal to Hub Earth Station) and Mesh configuration (from VSAT terminal to VSAT terminals)
- Point-to-point or point-to multipoint connectivity
- Power supply options: portable generator and solar panel technology
- Secured private VPNs
- MPLS end-to-end over satellite links
- 24x7 NOC, managed services with trouble ticket reporting
- QoS with guaranteed SLAs for response time and bandwidth offered
- VSAT kit equipment sales
- Installation services
- Full turn-key VSAT services

www.datanet.ug

VSAT Applications:

Some applications for VSAT networks include:

- Broadband Internet Access
- Data, voice, fax, email, VPN (Hotel Internet Cafes)
- Disaster Relief and Emergency Response
- Financial and Banking Feeds (ATM machines)
- Mission Critical Communications and Encrytped Networks
- Distance Learning and Training (tele-education and tele-medicine)
- Remote SCADA Monitoring
- Mobile Offices Video Teleconferencing
- Streaming video
- Broadcasting

Benfits of VSAT Networks:

- Global Mobile Access in Remote Locations
- Cost-Effective and Affordable
- Easy, Rapid Deployment (typically from a few hours to one day of labor)
- High-Quality Broadband Connections
- Scalable
- Secure and Reliable
- Ubiquitous Coverage: Expand Network Reach
- Seamless Integration with Terrestrial Networks
- Back-Up to Terrestrial Networks
- Bandwidth on Demand