

# MINING

Connectivity Solutions for the Mining Industry

## RELIABLE COMMUNICATIONS IN REMOTE LOCATIONS

### THE CHALLENGE: Reliable Communications for Mining companies in Remote Locations

Operating in remote locations with unreliable or non-existent terrestrial networks, present unique challenges for effective communication to mining companies. They need reliable communications during exploration, mine development, production and closure to minimize the need for headquarters personnel to travel to remote locations, thus improving the decision making process and reducing travel cost and risk. and. Site-to-site and site-to-office communications is a challenge for every land mining operator and the required communications solution must be cost-efficient, easy to deploy and flexible. The most reliable solution for site-to-site and site-to-office communications for mining companies is the use of VSAT satellite networks. Local and internal site communications can be provided by fiber and/or WIFI.

### THE SOLUTION: Customized Cost Effective Solutions

VIZOCOM's satellite solutions overcome the restrictions to communications that remote sites face, while reducing costs and vulnerability. VIZOCOM designs and implements high performance, high availability VSAT networks and specializes in delivering communications solutions to mine operators. We provide robust and reliable network infrastructures for critical mine data, voice connectivity and corporate networking to the harshest and most remote locations. We deliver tailored solutions to all major mining communications requirements, allowing clients to get broadband Internet, Voice over IP, corporate networking and real-time video and data to their remote sites. VIZOCOM's buying power coupled with its strategic partnerships with major satellite providers allow us offer best rates in the market for the highest quality service and support.



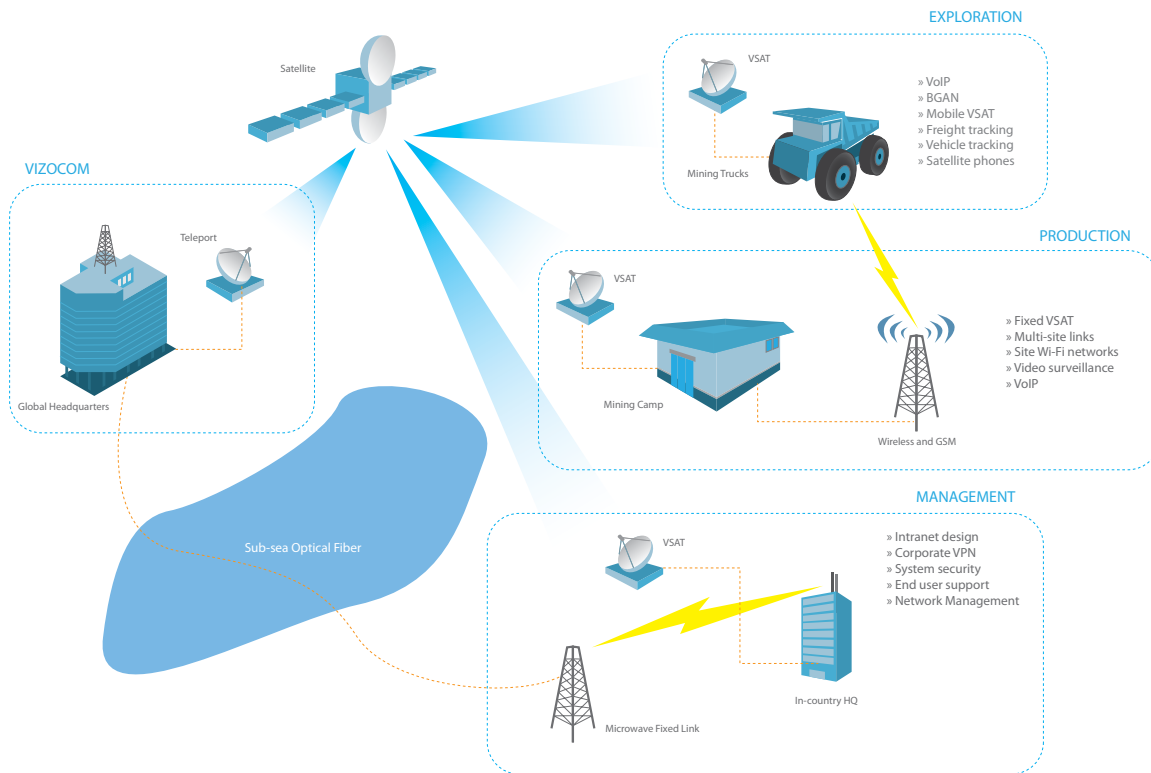
### VIZOCOM SOLUTIONS

- » Managed Internet Services
- » Satellite and Terrestrial Links for Data and Internet
- » MSS: Portable, Tracking, Handheld SAT Phones
- » P2P VSAT and MW Links
- » Emergency Response Rapid Deployment Satellite Solutions
- » IP based Video Solutions
- » GSM Gateway
- » Wireless voice and data systems
- » Wireless Intercom services
- » Two-way radio products

### APPLICATIONS

- » Main Offices - Remote Sites Communications
- » Data Management & Transfer
- » Management Reporting
- » Crew Welfare Services: Email, Chat, Phone, Video, Browsing
- » Mining & Production Data Management
- » Seismic Data Transmission
- » Live Video Monitoring and Surveillance
- » Remote Training & e-learning
- » Remote Equipment Monitoring & Control
- » Off-site Maintenance & Diagnostics
- » SCADA

# FLEXIBLE AND SCALABLE CONNECTIVITY SERVICES



Whether secure site-to-site or high performance site-to-multi-site, a VSAT network infrastructure from Vizocom is highly scalable. It delivers a cost-effective, high performance communications platform whether for only a few sites in a single geographical region or to provide connectivity to hundreds of sites globally.

## OUR SERVICES

### EXPLORATION SOLUTIONS

Exploration requires fast, reliable, and secure communications for data uploads. Vizocom offers the latest satellite phones that can link to laptops or BGAN systems for higher data transfer suitable for exploration activities.

For better data and voice services, a self-pointing mobile VSAT is the best long term solution. Vizocom can supply solutions

for personal, vehicle, or freight tracking that allow the monitoring of personnel, vehicles, or freight in real time anywhere in the world.

### PRODUCTION SOLUTIONS

Production facilities in remote locations require hybrid and multifaceted solutions such as user security, corporate VPNs and desktop management for multiple users. Vizocom ensures that all the network connectivity requirements of the remote facility such as video surveillance, local or international personalized Intranets as well as internet connectivity is addressed through the use of a high speed, reliable and cost effective VSAT links coupled with state of the art local network solutions.

### CONSTRUCTION SOLUTIONS

The load on a network will normally be high during the construction phase, and a fixed VSAT link may be the best solution to address the communications requirements for construction.

VSAT can support high bandwidths and provide services such as VoIP and remote applications. Vizocom can provide VSAT connectivity to a central location and connect all areas of a site via a Wi-Fi network, as well as allocate resources specifically to contractors and remotely manage servers and user access. Dedicated VSAT can be provided for mission critical higher management needs, while shared bandwidth can be used for construction teams and subcontractors requiring less critical MWR communications.

# VIZOCOM PROVIDES

## CRITICAL INFRASTRUCTURE

There is a great need to receive and relay real time information from main offices to the field in order to lessen miscommunication, avoid delays and backlogs in operations, and to minimize costs. All these factors must be met by a fast and reliable turn-key communication solution to improve daily business operations.

Vizocom provides the perfect solution to meet our customer's requirements. In each setting, we combine fixed and mobile VSAT in a variety of schemes and build a robust and reliable communications infrastructure ensure we meet our client's requirement and expectations and of course budget constraints. Our services go well beyond building an infrastructure with an internet connection. Vizocom builds complex capabilities such as VPN, Video Collaboration Systems, IP TV, as well as Video Surveillance, SCADA and Tracking on this solid infrastructure offering maximum visibility and security to important assets. We provide the right solution for the terrain and based on resources available in each country.

## RAPID DEPLOYMENT

Mining operations in remote locations where terrestrial and cellular infrastructure may be unavailable, need an efficient emergency response solution for an efficient and quick method to connect back to central offices. It is of utmost importance to have reliable communications especially with disasters on a large scale.

A mission critical operation always needs more than one option to communicate. Vizocom provides critical communications to enterprises when existing terrestrial communications are unavailable or unreliable. Vizocom's vast collection of VSAT equipment in a variety of combinations enables responders in the field to quickly establish a high speed data connection delivering vital information to save lives and property in disaster hit areas.

## LOW OVERHEAD ICT SOLUTIONS

Mining companies are always looking for a cost-effective but highly efficient communications suite that can meet and fulfill specific demands for mining

operators or temporary camps. They come to Vizocom because of our lowoverhead packaged and managed solution in order to effectively coordinate, perform, and accomplish tasks from the mining pits or temporary fly camps to the base camp, engineering office and headquarters.

Vizocom provides highly effective yet cost-efficient ICT solutions to cover your ICT communication needs while operating in temporary remote locations. These are tailored fit to your requirements, giving you premium quality performance to aid mining operators' operations 24x7x365.

## 365 X 24 X 7 SUPPORT

It is critical for the Mining industry to have a seamless 365 X 24 X7 local support that can rush to remedy any problem that may arise in the field.

Vizocom prides itself for its 3-layered after-sales services and has established the proper measures to achieve this.



# Case Study: Optimized Connectivity



Mining companies require reliable remote communications to connect multiple sites seamlessly and effortlessly. This initiative can boost overall operational efficiency and increase potential revenue for the company. Due to the nature of mining operations, reliable satellite communications is a must have for an uninterrupted and hassle-free communication for remote sites.

With this in mind, Vizocom recently provided satellite communications solutions to a large Canadian mining company in Western Africa. The company had three key requirements for its remote communication infrastructure: It has to be stable and available at all times, it has to be functional within a short time frame, and it needs a WAN optimization hosting that will help their network access. Vizocom's solution to the requirement addressed the 3 requirements in full.

The satellite service provided by Vizocom is a C-band satellite network with VSAT terminals on the mining site remotely managed from Vizocom's Network Operations Center. The deployment of Riverbed WAN Optimizer technology allowed the company to maximize their use of bandwidth, providing them very reliable delivery of voice, data and video applications at a very high uptime.

The service installation was achieved within two weeks of placement of the order, including the shipping and handling, installation, relocation of the equipment to its permanent position, and testing. The VSAT equipment, accompanied by the company's current bandwidth connection, delivered a high speed, highly available platform for the company's voice and data services.

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