Cutting through the noise and doing business smarter for

Mining

Itec provides outlying locations with high-speed internet connectivity that enables them to connect with their head office or cloud-based systems. We also provide sophisticated surveillance tools for some of the most hostile environments in the world.

CONNECTIVITY

RELIABLE REMOTE CONNECTIVITY

The mining industry often faces connectivity challenges as the facilities are based in outlying areas. They require fast connection speed to link up to their Head Office or cloud-based solution such as SAP, Pastel or Office 365. Traditionally, these locations would connect via open spectrum access or satellite, but neither of these options offer the required bandwidth.

Itec customises a solution per location from a range of options from our connectivity service providers. We provide high-speed connectivity even in very remote regions. A number of our existing customers have given excellent feedback on the solution, compared to what they had before.

Itec provides high-speed, dedicated access backed by a SLA which ensures uptime and availability on the link. This successfully addresses one of the main concerns of customers in this industry, who have traditionally had unreliable connectivity.

WESIZWE MINING

3 site MPLS that branch from Rivonia to 2 remote sites in Bakubang and Boshoek. Dedicated Access mediums to run their SAP environment and Office 365, also providing internet to the remote sites.

- Voice and Data Connectivity (fibre, microwave, LTE)
- IP65-rated Equipment: Robust, -25 deg operating, moisture and dust proof
- Wireless Infrastructure: Robust WiFi, DECT, GSM and leaky-feeder-systems
- Cloud Storage and Management: centralised infrastructure, always available – secure, compliant, business continuity, resilient, redundant and disaster recoverable
- Integration and Automation: Integration into back-end systems (CRM or ERP) to automate and enhance efficient business processes
- Cost Management and Reduction: Avoid 'double data' and reduce business expenditure (voice, data, travel)
- Connected workforce with simplified (ease-of-use) electronic communications (voice, video, content, instant messaging, conferencing)

- 'Future-proof' Investments: OPX vs CPX, defined TCO & ROI (SaaS, UCaaS)
- Maintenance and Support: National footprint, centralised CSOC (centralised service operations centre) – one contact, one invoice

SOFTWARE AND SOLUTIONS

PRINT DIRECTOR
PD tracks printing per user, providing them with print-release authentication, ensuring sensitive information is printed securely.

SUPPLIER PAYMENT WORKFLOW
Customers can keep track of supplier payments and ensure accountability within users, from receiving a supplier quote, up until payment.

CURRENT & PROPOSED CUSTOMERS

Petra Diamonds
Assmang Black Rock
Hatch
Beatrix mine
TAU Mining
BHP Billitin

MINING SOLUTIONS
CONNECTIVITY AND SURVEILLANCE

In the mining sector, there is a consistent, need for reliable internet connectivity that matches the bandwidth requirements of the systems they are running. They also require effective surveillance systems to monitor extremely hostile environments.

ITEC
MANAGED
BUSINESS
SERVICES

CCTV

RELIABLE SECURITY IN HOSTILE ENVIRONMENTS

Itec's Management Solution and Software Suite provides an extensive range of sophisticated surveillance options, tools and functionality to satisfy all security and infrastructure management requirements.

With the requirements of coal, diamond, copper and platinum mines, Itec has built a solid foundation and product set for exceptional integration capability, real-time monitoring, and the ability to operate reliably in some of the world's most hostile environments.

- Multi-Tier System Management
- High resolution camera support
- Smart Video Analytics
- Unlimited Scalability
- Access Control Integration
- Remote and Multiple Site Management Capability
- Centralised Alarm Management

MEETING MINING SECURITY REQUIREMENTS

- Power with Flexibility
- Full Functionality in Hostile Environments
- Integration Capability
- Real-Time Monitoring and Optimal Uptime

BEYOND SURVEILLANCE

With seamless flexibility and scalability, Itec provides the most ideal product solution, combined with all the necessary expertise and experience for mining security requirements. Itec goes beyond surveillance to offer a sophisticated management tool that enables operators and managers to function in a multi-tiered control environment.

MULTI-TIERED EVENT MANAGEMENT

Based on the understanding that any one site may have multiple CCTV cameras installed, Itec offers a "black-screen" approach to video and event management through the alarm management gateway. This system receives events, which are matched with actions. It allows for the escalation of events to second and third tiers of management. The system can also manage several sites form a central command centre.

INTERACTIVE GRAPHICAL INTERFACE

The interactive user interface provides a visual representation of a site or multiple sites. Operators can navigate through multiple layers of maps to selected sites, drag-and-drop cameras to selected monitors, control outputs, and move PTZ cameras. Users can also navigate multiple sites throughout the enterprise with the map facility.

VIDEO ANALYTICS

Itec offers a range of video analytics to improve the effectiveness of the system, including:

- Smart Video Motion Detection
- Abandoned Object Analysis
- Post Object Search
- Loitering
- Line Crossing
- Area Transgression
- Speed

The system also integrates with several specialised analytics devices. The analytics software provides triggers to the system, which enables it to take user defined actions depending on the specific trigger received.

INTEGRATION

One of the major differentiating features, is the capability to integrate various third-party systems. Integration is enhanced by predetermined actions upon information received from various systems and the association of specific actions for events. Third-party systems include:

- Access Control
- Alarm Panels
- Fire Panels
- Plant Management Systems
- X-Ray Systems