



## Two-way Digital Wireless Telephony over High Speed Wireless Infrastructure

### Intrinsically Safe System for Hazardous Underground Coal Mines

Mine Site Technologies' MinePhone handsets offer a simple and robust solution for Voice over Internet Protocol (VoIP)

includes mine specific functionality including Push To Talk (PTT), emergency alarms and a battery life designed to last an entire shift.

**from anywhere in the world to a miner in the underground and vice versa.**

Intrinsically Safe MinePhone



communications in mining environments. The handset allows users to make and receive VoIP phone calls from any area of the mine covered by the wireless network and

**Voice Over IP (VoIP)**  
—Next generation wireless telephony for hazardous underground coal mines

• **Digital wireless telephony now installed in a hazardous coal mine in India.**

• **It is now possible to make a phone call**

#### Possible benefits:

1. Reduced downtime of equipment
2. Personnel in underground can now contact management on surface in case of any emergency/advice/report, etc.
4. Eliminating the feeling of alienation of underground miners by remaining in touch with the outside world- Improved moral of underground workers
5. Productivity and efficiency improvement – now you can deploy network based environmental monitoring, automation systems.

## Intrinsically Safe Wireless Infrastructure

The Mine Site Technologies Intrinsically Safe Wireless Network Switch is the heart of a scalable, high-speed, communications system for both underground and surface operations. Designed to cope with time-sensitive, high-bandwidth applications and enabling functionality such as VoIP, IP video streaming, control system management,

mobile data

Intrinsically Safe Wireless Network Switch



acquisition, real-time vehicle diagnostics, and asset / per-

sonnel tracking right to the coal face. The ImPact Wireless Network Switch provides a quantum leap forward from traditional technologies by delivering improvements in reliability, bandwidth, data quality, system capacity and support for open standards. It also addresses the challenge of power distribution in an underground environment.

## AdCept Technologies

### System Highlights

- > It is now possible to make a phone call from anywhere in the world to a miner in the underground and vice versa.
- > Two-way voice with VoIP telephones now installed and operational in India!
- > Our VoIP Mine-Phone allows two-way voice & text messaging throughout the mine via the Im-Pact Digital Wireless Network
- > Tracking via Wi-Fi RFID Tags

**Solution Provided in India by:  
AdCept Technologies Pvt. Ltd.  
in Technical Collaboration with  
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