**ImPact Communications Appliance overview**

The ImPact Communication Appliance (ICA) is an integrated hardware and software platform that collects live data from Mine Site Technologies’ voice, tracking and networking systems. This data can be accessed in real time via MineDash, an intuitive browser-based tracking and reporting application, allowing operators and mine controllers to accurately and efficiently monitor, track and allocate personnel and resources. Essentially MineDash provides the control room user with a single application screen to view all of the mines tracking, communications, vehicle data and interactions and network performance.

**Features and Benefits**

- Unified software platform: All software components running on a single server minimising user error and simplifying support and maintenance.
- Web based user interface: Viewable from any authenticated PC with a web browser.
- Manages system traffic: reduces network congestion keeping system reliable.
- Multiple software modules available: Only purchase functionality that you currently need and add other modules as you require them.
- Lite or Full versions available: Scalable solution that will grow as your requirements grow.

**Applications**

- Secure VoIP Communications
- Remote IP Video
- Wireless Data Transfer
- Remote Facilities Management
- Traffic Management Systems
- Tag Reading
- Personnel & Asset Tracking
- Vehicle Diagnostics
- Proximity Detection

**Licensing Options**

- Lite version available for smaller operations.
- Standard version for larger operations.
- Maintenance option minimises initial outlay.
- Full purchase option for peace of mind.

**Vehicle Data Collection Software Module**

- Proprietary database synchronisation protocol.
- Never loses information or drops data packets.
- Self manages multiple uploads to maximise network traffic and increase network reliability.

**VoIP Phone Software**

- Can be integrated to your existing PBX.
- Remote configuration of phone handsets.
- Automatic firmware updates.
- Remote configuration of Push to talk Channels.

**Monitoring Software**

- Viewable from any authenticated PC with a web browser.
- Minimising user error and simplifying support and maintenance.

**Tracking Software Module**

- Web based tracking viewer.
- Easy to use map navigation functions.
- Display details automatically increase with zoom level.
- Differentiates between personnel and asset being tracked.
- Proximity event details and logging.

**Vehicle Intelligence Platform**

- Proximity event details and logging.
- Differentiates between personnel and Asset being tracked.
- Easy to use map navigation functions.
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The ImPact technology suite is designed to lead mining communications and digital network infrastructure into the future. The ImPact Communications Appliance (ICA) has been specifically developed for the mining industry to operate within the harsh environments encountered in all types of mining from underground to surface operations.

The product range, which comprises of network hardware and application software, is the result of deep understanding of mining communication challenges and advanced engineering design, combined with the latest wireless (802.11) technology. The underground network is the heart of a scalable, high-speed data and communications system. It is able to cope with time-sensitive, high-bandwidth applications, enabling functionality of the voice over Internet Protocol (VoIP) communications, Asset / Personnel Tracking, video streaming, remote PLC programming, mobile data acquisition, real-time vehicle diagnostics and Proximity Events. The ImPact system delivers improved capabilities for current and future mine requirements through higher reliability, bandwidth, data quality, system capacity and support for open standards.

The ImPact system provides a quantum leap forward from traditional technologies.

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ImPact equipment settings are handled in the Administration Console. Operators can easily configure personnel, asset and vehicle records and assign tracking tags or equipment to specific people, define map areas and zones, and administer voice and Push-To-Talk functions.
The FUTURE of mining communications

Wireless Network Switches
- Standard and Intrinsically Safe models available
- Dual Radio 802.11 Wi-Fi access points
- 4 way fibre switch
- Simple Plug and Play design
- 4 external PoE Ports (standard model only)

Intrinsically Safe VoIP Phone
- Make and receive voice calls
- 24 Push-to-Talk channels
- Emergency ‘Man Down’ button
- 72 Hour standby time
- Text messaging

Vehicle Intelligence Platform
- View vehicle diagnostics in real time
- View payload and location data in real time
- Integrated with leading manufacturer equipment
- Report productivity information with greater speed and accuracy
- On board non-volatile data storage

Tracking
- Locate and track personnel and asset movement in real time
- Web browser based viewing software
- Manage mine assets more effectively
- Identify bottlenecks and efficiency deficits faster
- View vehicle location data and control area access
- Increase control of personnel / vehicle interactions

Proximity Detection
- Reduce risks in personnel / vehicle interactions
- Minimise communications to control room
- Notify operators instantly in-cab

Mine Site Technologies Pty Ltd.
www.minesite.com.au

SYDNEY
25 - 27 Whiting Street
Artarmon NSW 2064
PO Box 156 Artarmon 1570
Tel: +61 2 9437 4399
Fax: +61 2 9437 5688
mst@minesite.com.au

KALGOORLIE
17 Darcy Lane
West Kalgoorlie WA 6430
PO Box 4200, Kalgoorlie 6430
Tel: +61 8 9022 2300
Fax: +61 8 9022 2311
mstwa@minesite.com.au

Mt. ISA
15 Duke Street
Mt Isa QLD 4825
PO Box 2436 Mt Isa 4825
Tel: +61 7 4749 4922
Fax: +61 7 4749 4933
mstisa@minesite.com.au

MACKAY
Unit 2 Terminus Business Park
Caterpillar Drive
Paget, QLD 4740
Tel: +61 0447 230180
mst@minesite.com.au

MST offices also located in Sudbury Canada, Denver, Pittsburgh and Washington USA

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The FUTURE of mining communications

ImPact Communications Appliance

Tracking viewer software
Remote system monitoring
Vehicle data reporting
IP Telephony

Productivity & Safety through Mine-Spec digital applications