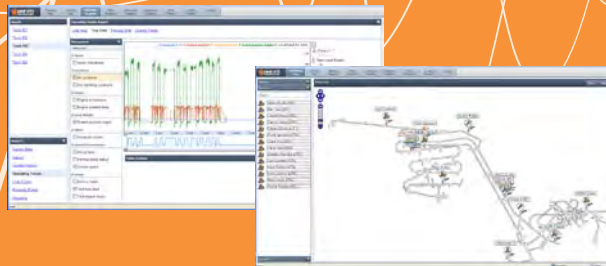
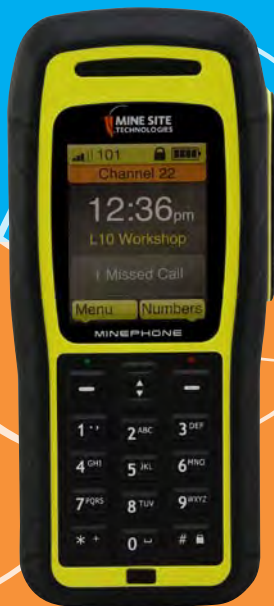




IMPACT

The FUTURE of mining communications

ImPact Communications Appliance



Productivity & Safety through
Mine-Spec digital applications

- Tracking viewer software
- Remote system monitoring
- Vehicle data reporting
- IP Telephony



IMPACT

ImPact Communications Appliance

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.

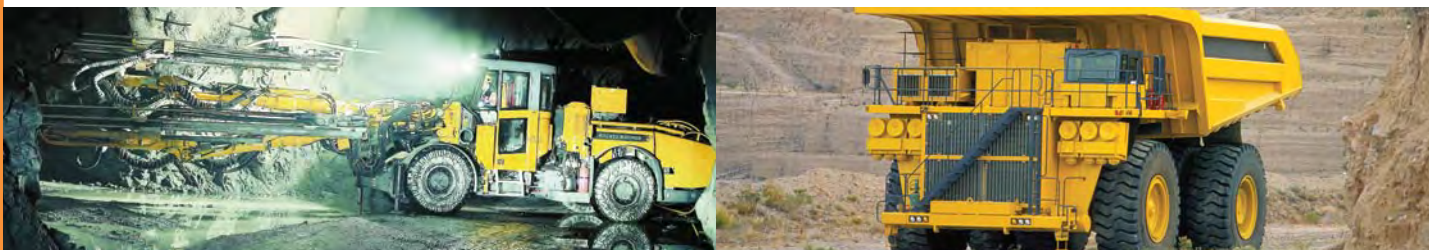
The ImPact system provides a quantum leap forward from traditional technologies.

Features and Benefits

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

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

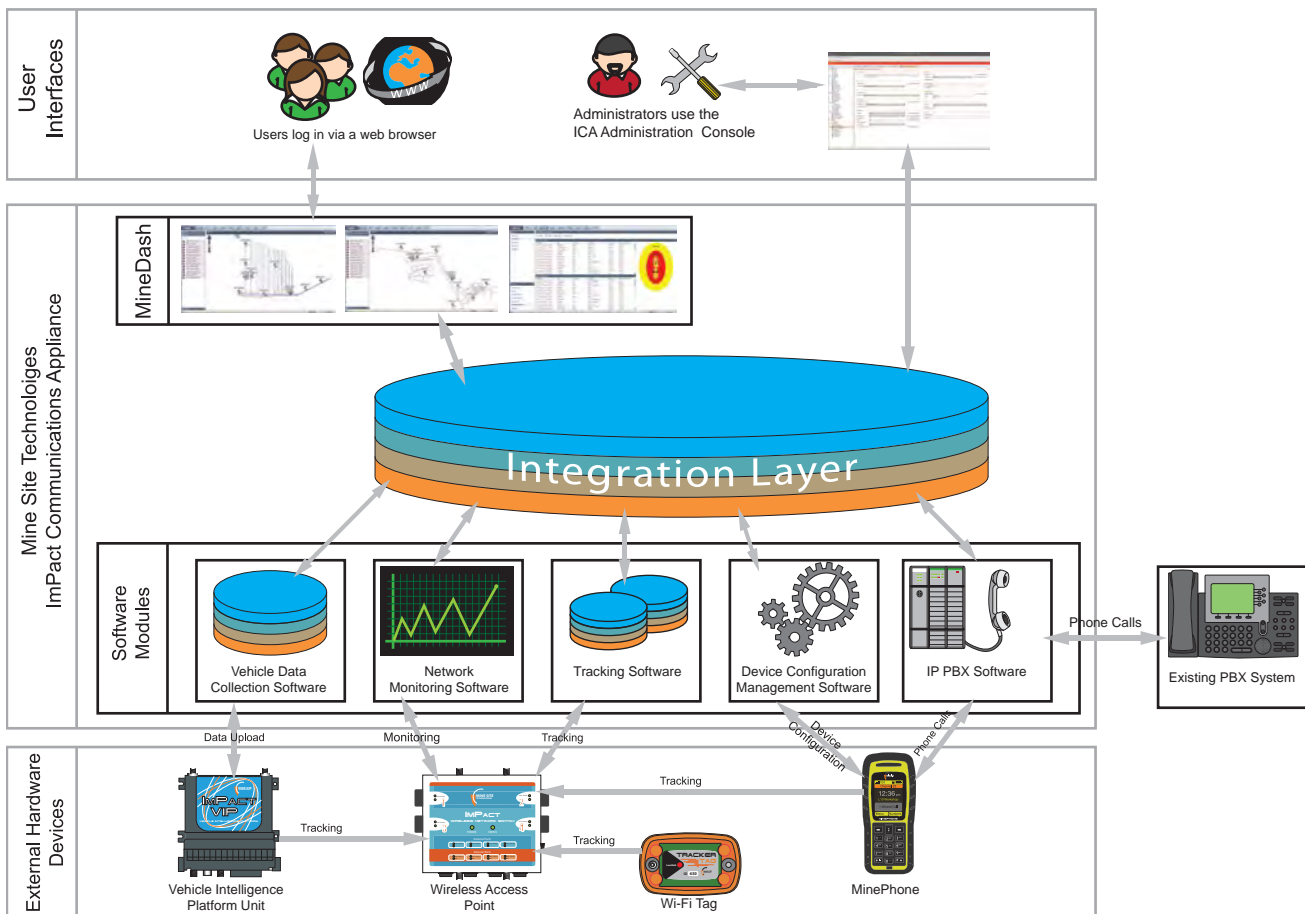


ImPact Communications Appliance overview

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.

Contained on a single rack-mountable server running the ultra-stable Ubuntu operating system, the ICA interfaces seamlessly with Mine Site Technologies' Vehicle Intelligence Platform, Personnel and Asset Tracking products, Network Infrastructure hardware and MinePhone communications system. The ICA is an all-in-one solution for tracking, voice comms, reporting, and safety/alarm monitoring in your mine.

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.

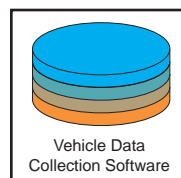


ICA system architecture



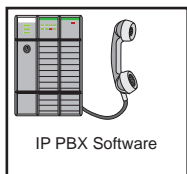
Tracking Software Module

- 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 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 in to your existing PBX
- Remote configuration of phone handsets
- SMS functionality
- Automatic firmware updates
- Remote configuration of Push to talk Channels



Licensing Options

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

IMPACT

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 Hours standby time
 - Text messaging



Vehicle Intelligence Platform

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



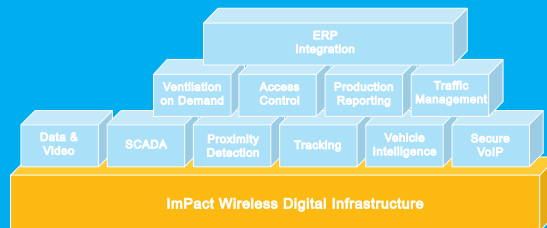
Tracking

- 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



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Mine Site Technologies Pty Limited reserves the right to make changes to the specifications and information contained in this brochure at any time and without notice. MST-ICA0411-AU

