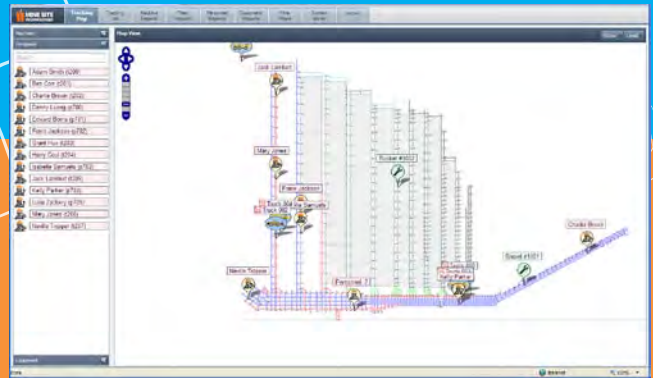




IMPACT

The FUTURE of mining communications

Vehicle Intelligence Platform



Productivity & Safety through
Mine-Spec digital applications

- Time-stamped vehicle diagnostics & payload data
- Integrated proximity detection
- Location awareness
- Mine management data



IMPACT

Vehicle Intelligence Platform

The ImPact technology suite is designed to lead mining communications and digital infrastructure into the future. The ImPact Vehicle Intelligence Platform (VIP) has been specifically designed for the mining industry to acquire and report critical operational information, vehicle data and enable proximity detection. The system has been design to withstand the harsh environments encountered in all types of mining from underground to surface operations.

The ImPact Vehicle Intelligence Platform (VIP) is a cost-effective step towards improved vehicle management and productivity gains, by monitoring vehicle location, payload and other required parameters. The vehicle data is combined with mine location, enabling the generation of accurate reports based on real time position and movement trend data. This increases the accuracy and relevance of reports, leading to efficient identification of bottlenecks and advanced planning of vehicle maintenance. All the elements increase productivity through reduced down time and lower maintenance costs.

monitors specified parameters such as payload, engine data, diagnostics and location details. This information is then transmitted wirelessly to a central server as the vehicle moves throughout the mine. If a vehicle moves outside the coverage of the wireless network the VIP unit will buffer the data for up to seven days, then upload the data as it returns within range. The information is viewable on easily customisable screens, where trending and alarms can be quickly and simply set up. The data collection and reporting software can be installed at the mine or hosted and operated by Mine Site Technologies (MST) or integrated into well known mine reporting systems.

The VIP unit connects to the vehicle's electronic sensors and

Features and Benefits

Applications

- Real time vehicle tracking
- Traffic management
- Remote payload monitoring
- Proximity detection
- Vehicle diagnostics
- In Cab VoIP communications
- Tire pressure monitoring

Automated data collection	Removes operator intervention and improves accuracy.
Asset tracking	Quickly identify inefficiencies. Real time tracking of vehicle movements. Reduce down time through reliable knowledge of where your assets are.
Location-aware real time payload data	Increased accuracy in load to surface tallies. Correlation of load and dump data with location information. Early identification of vehicle defects and maintenance planning, reducing downtime.
Plugs into a vehicle's existing wiring harness	Faster deployment with lower maintenance cost Improved system up time. Compatible with major vehicle manufacturers.
Smart functionality for data logging	Able to log data when out of network coverage and upload upon return, creating greater data accuracy.
Wi-Fi Bridge	Allows any Wi-Fi enabled device in the cab to be connected to the wireless network (e.g.VoIP, Tablet PCs, mobile video etc). Unified single system removing the need and associated costs for multiple systems.
Machine vendor independent	Data from different heavy equipment vendors is reported in a common format with a consistent interface.
Availability of data integration API's	Data can be easily transferred into existing core systems.



IMPACT

The FUTURE of mining communications

Network Infrastructure

- Takes your LAN underground cost effectively
- Forms the foundation of the ImPact portfolio
- Enables remote monitoring and control of equipment
- Allows easy and modular design of underground networks
 - Facilitates wireless data communications and VoIP
 - Reads Wi-Fi tags to support location aware application
- Rugged IP66 housing designed for the mine environment



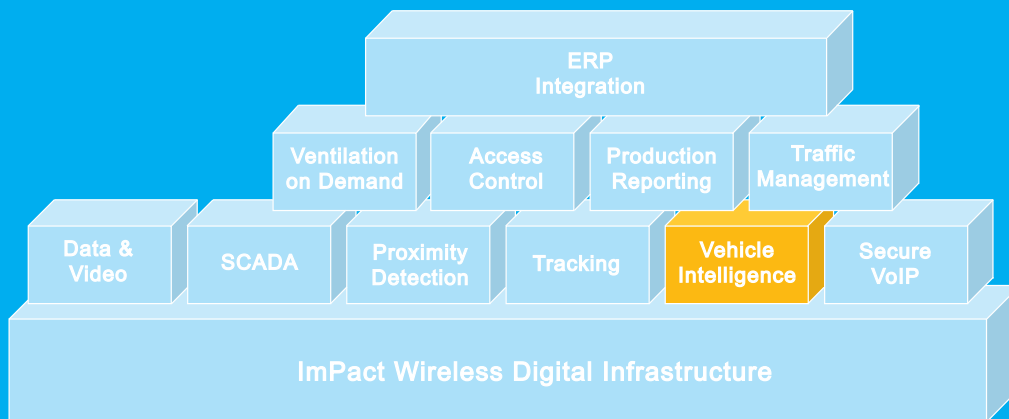
Asset Tracking

- Locate and track personnel and asset movement in real time
- Quickly identify and locate all personnel in crisis situations
 - Manage mine assets more effectively
 - Identify bottlenecks and efficiency deficits faster
 - Control area access
- View vehicle location data
- 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-PED2306-AU

