Real-time visibility for mining operations

ORBCOMM’s solutions give you total visibility and insight over your mining operations above and below ground. By combining real-time location systems (RTLS), condition monitoring sensors, mobile devices and analytics software, ORBCOMM’s turnkey platform helps you achieve return on investment by improving operational efficiency, worker safety, energy management, asset utilization, fleet management and inter-site visibility.

**Improved operational efficiency**
ORBCOMM® helps you track and manage mine vehicles, equipment, workers and operations above and below ground. Real-time location system (RTLS) technologies, sensors and mobile devices give today’s mining companies instant access to unprecedented levels of information. ORBCOMM’s single-source solution provides complete visibility and insight into your mining operations to allow for better decision making and emergency response.

**People and production tracking**
Track electronically tagged workers and visitors. Monitor entrances and exits, receive automated alerts and reports of personnel location and movements. Track vehicles and equipment to improve utilization. Monitor draw and dump locations, record routes and lap times for optimization and compliance. Generate reports and analytics for vehicles, personnel and production historically or in real time.

**Increased worker safety**
Track worker movements in the event of an emergency or evacuation. Monitor refuge stations and muster point locations, receive automated reports and alerts when workers enter restricted or blast areas. Dispatch first responders to location of personnel, validate brass boards, reduce drill times and account for all workers in the mine.

**Optimized vehicle utilization**
Monitor vehicle sensors and telematics to maximize work hours and ore production; view business status, location and readiness; receive alerts to prevent theft and loss or to see vehicles in blast zones or congested areas; create inventory and utilization reports.

**Ventilation on demand (VOD)**
Enjoy significant cost savings while maintaining a high standard of worker health and safety. With full visibility of
equipment and workers in an underground mine, ventilation systems can be provided with location information to optimize energy usages.

**Better energy and environment management**
Monitor voltage, temperature, humidity and gas levels with advanced sensors that help increase energy efficiency and allow for better control over the mine environment. Generate condition reports and get alerts when conditions levels go outside the designated range.

**Flexible and turnkey**
ORBCOMM solutions allow you to leverage your existing edge devices including Wi-Fi tags in your Cisco MSE/CMX network environment, leaky feeder proximity systems, Bluetooth, passive RFID or GPS and wireless vehicle telemetry devices. This makes the ORBCOMM solution technology agnostic. You get a single-source solution with application development built in so you’ll never need additional third party software, plus financial flexibility with SaaS, PaaS or licensed purchase models.

**Services, support and upgrades**
ORBCOMM’s professional services team helps get you up and running from planning and deployment to migration and training. Our trained service staff provide ongoing support to reduce your risk of production loss by resolving your issues quickly. Continuous software development further ensures ORBCOMM’s mining solutions remain future proof.

**The connected mine**

Contact a mining solutions expert today to learn more about connecting your assets: visit [www2.orbcomm.com/rtls-mining](http://www2.orbcomm.com/rtls-mining), call +1 918.504.9523 or e-mail sales@orbcomm.com.

ORBCOMM (Nasdaq: ORBC) is a global leader and innovator in the industrial Internet of Things, providing solutions that connect businesses to their assets to deliver increased visibility and operational efficiency. The company offers a broad set of asset monitoring and control solutions, including seamless satellite and cellular connectivity, unique hardware and powerful applications, all backed by end-to-end customer support, from installation to deployment to customer care. ORBCOMM has a diverse customer base including premier OEMs, solutions customers and channel partners spanning transportation, supply chain, warehousing and inventory, heavy equipment, maritime, natural resources, and government. For more information, visit [www.orbcomm.com](http://www.orbcomm.com).

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