

Dispatch Communication Solution

# FOR MINING

**ENSURE WORKER SAFETY  
AND EFFICIENT MANAGEMENT**

HOW TO MAXIMIZE  
WORKER SAFETY?

HOW TO REDUCE  
OUTAGE TIMES?

HOW TO SAVE  
ON LABOR COSTS?



## EMERGENCY MANAGEMENT

Worker safety is the greatest challenge for mine operators. When an incident does occur, dispatchers need to be able to respond in the quickest manner possible. An emergency condition can be initiated by the miner pressing the emergency button, a Man Down option board or using the SmartPTT lone worker alert function. Once the emergency is initiated, SmartPTT can immediately identify to the dispatcher the identity and GPS location of the worker in distress. The voice recordings and event log can be used to investigate the details of an incident.

## COLLISION AVOIDANCE

The Proximity Alerts feature helps prevent injury to employees or collision with smaller vehicles working near haul trucks and other large surface mining vehicles. Dispatchers can create geo-fences around the larger vehicles and when an employee approaches too close to a vehicle, the vehicle driver, the employee, and the dispatcher will be instantly alerted helping to avoid an accident. The alarms used are customizable and sent automatically.

## SMARTPTT CORE CAPABILITIES



VOICE  
DISPATCH



EMERGENCY  
MANAGEMENT



TELEMETRY



RULES  
AND ALERTS



RADIO FLEET  
MANAGEMENT



CUSTOM  
CONSOLE



EVENT  
LOGGING



JOB  
TICKETING



TEXT  
MESSAGES

# WORKER SAFETY

To help prevent accidents mines can use the notifications in SmartPTT for blast alarms, weather notifications and channel markers. Prior to a blasting crew initiating an explosion, the crew contacts dispatch for the SmartPTT dispatcher to transmit a blast notification over the MOTOTRBO radio network. If lightning or other dangerous weather is in the area, the dispatcher can initiate weather notifications to warn workers to seek shelter. During emergencies, SmartPTT dispatchers can have a channel marker transmit repeatedly to alert workers to keep off the radio system.

## SMARTPTT OPTIONAL CAPABILITIES



VOICE  
RECORDING



GPS  
LOCATION



INDOOR  
LOCATION



RADIO NETWORK  
BRIDGING



IP CAMERA  
SUPPORT



WEB  
CLIENT



NETWORK  
MONITORING



DIRECT IP  
CONNECTION



TELEPHONE  
INTERCONNECT

# OPERATIONAL COST EFFICIENCIES

Using the GPS capabilities of the MOTOTRBO radios, SmartPTT dispatchers can create routes for vehicle drivers. If a driver deviates from the assigned route the subscriber/dispatcher can be notified. This can help reduce fuel consumption and vehicle wear-and-tear. Geo-fences can be used to confirm when a driver departs from a load site or arrives into a dump site. If too many trucks are queued at one load or dump site, dispatchers can reassign trucks to another site to maximize productivity by reducing queues and inactive shovels.

# INTEROPERABILITY AND COMMUNICATION EFFICIENCY

SmartPTT provides a seamless transition to a digital system. Due to SmartPTT's ability to connect base stations in analog operating mode to the radioserver, analog and digital radios can work simultaneously in one system. Thus, mines can avoid large capital expenditures by replacing radio equipment over time as their budget allows.

# PERSONNEL SAFETY FEATURES



INDOOR LOCATION



GPS LOCATION



LONE WORKER



GEOFENCING



MAN DOWN



REMOTE LISTENING

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