



Integrated Solution for MOTOTRBO™

SmartPTT

Dispatch Communication Solution **FOR MINING**

SmartPTT is a voice dispatching software and data application designed to provide users with control over their MOTOTRBO radio system's voice and data capabilities thereby maximizing safety and efficiency while minimizing operational costs.



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 functionality. 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



FLEET
ADMINISTRATION



CUSTOM
CONSOLE



EVENT
LOGGING



JOB
TICKETING



TEXT
MESSAGES

ALARM NOTIFICATIONS

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
TRACKING



INDOOR
TRACKING



SCADA



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. Geofences 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 TRACKING



GPS TRACKING



LONE WORKER



GEOFENCING



MAN DOWN



REMOTE LISTENING



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radio application partner