



Integrated Solution for MOTOTRBO™

- ✓ Networks of any size and topology
- ✓ System infrastructure monitoring and control
- ✓ Bridging for different radio networks



SmartPTT Mining

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.



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.

Efficient Use of Resources

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.

Migration

As mines migrate their radio systems from analog to MOTOTRBO, interoperability needs to be maintained between the old and the new systems. SmartPTT enables dispatchers to create a cross-patch to provide communications between talkgroups on different radio systems.

