



Solution Brief

# Solving for safer mining

Protecting people, property and places.

Digital transformation in the mining industry is not an option anymore, it's absolutely necessary. Today, mining companies are focusing their investments on areas that can help them improve operating efficiencies, increase productivity and maintain a safe working environment while struggling to meet increasing regulatory requirements.

As your teams push into more remote frontiers, you need to ensure that you can navigate this transformation with a technology partner that can provide a security ecosystem that is built on a foundation of safety and efficiency.



**MOTOROLA SOLUTIONS**





# Fuel intelligence-driven communications with connected technologies

## Extract the benefits of a hyperconnected mine

Our safety and security ecosystem works together to help your teams respond to and recognise patterns, anticipate actions, and prevent situations before they escalate into emergencies. Drive the performance of your entire mining operation by connecting your critical communications, video security, access control, data and analytics.

If you need help with	Our ecosystem provides
Physical site security	Unified communications and integrated technology at every facility, ensuring all sites are secure and monitored for potentially disruptive incidents
Staffing shortages & worker safety	Stronger, more intelligent site coverage to help protect workers conducting activities in groups or alone
Interoperability & consistent connection	Flexibility to connect between radios and networks
Operational efficiency	Integrated voice, video, data, analytics, and command center operations into a streamlined and easily actionable workflow
Future-proof operations	Integrated devices and data sources to streamline decision making and ensure your strategic investment is realised now and in the future



# Discover the technology that helps you tackle each challenge and turn it into a positive outcome:

## **Intelligent site coverage:**

- Two-way radios for rapid, reliable communications that work with fixed video and access control for alerting, full facility coverage and seamless situational awareness
- Number plate readers and video analytics to alert of trespassers, unwanted individuals or loitering, enhancing security coverage
- Texting and polling features to get shift coverage

## **Situational intelligence:**

- Incident management software for proven incident and records management to enhance response and reduce risk
- Situational awareness software to remotely assist security and public safety officers when they reach the site to locate, track and map incidents
- Access control to unlock specific doors and entry points when authorities arrive on the scene

## **Reliable and efficient alerting:**

- Mass notifications to instantly notify employees, contractors and visitors of incidents, outage status, important announcements, or other relevant information
- Flexibility to respond quickly and notify about the uncertainties of extreme weather and natural disasters
- Ability to notify through voice, text, or email

## **Operational efficiency and site awareness:**

- Video cameras and analytics to conduct regular inspections on-site and optimise maintenance schedules
- Tactical incident management and process automation to ensure key stakeholders follow all necessary response steps
- Targeted mass notifications to inform pre-segmented groups for upkeep, facility support, or repairs
- Body cameras to capture and share live video evidence and location of an incident on-site

## **Safer shifts, and properties:**

- Panic buttons to empower staff to get help instantly from the push of a button
- Body cameras to provide transparency and an unbiased witness during a safety or security incident
- Video security to provide visibility across vast areas, identify anomalies and enable 24/7 situational awareness
- Access control to secure entry points and automatically alert when a door is propped open or breached
- AI-powered video analytics to detect banned individuals, number plates, weapons or unusual activity
- Mass notifications via text, email and voice to notify the right people with the right information at the right time
- Gas, temperature and chemical sensors that immediately alert upon detection





## Key ecosystem components for safer mines:



### Critical Communications

Combine the best audio  
Combine the devices and networks that perform exceptionally in the harshest conditions, so you can stay connected and communicate clearly.

- Extreme temperature, freezing cold or searing heat: our devices can handle it
- Outdoor or in gritty work environment, our devices keep out dust and keep you connected
- Rugged device construction means that dropping your device won't leave you disconnected
- Water, firehose spray, rain or a spilled drink: our devices can get wet and keep working



### Video Security & Access Control

Strengthen safety and help ensure visibility across your sites, regardless of lighting challenges, harsh weather, or other environmental conditions with integrated video security and access control systems built to secure vulnerable areas and streamline operations.

- Complete situational awareness
- Cloud versatility
- Driven by AI
- Specialty cameras including explosion-protection



### WAVE PTX™ Carrier Independent Broadband MCPTT

Connect your team with greater speed and efficiency with a push to talk over cellular service without boundaries. With heavy-duty traditional and lightweight, wearable communications options that work together, your employees can have a device to meet their needs.

- Instant PTT communication
- Multimedia messaging
- Nationwide service



### Body Cameras

Having an objective, unbiased witness matters. Employees equipped with a body camera can capture evidence-grade video of any situation that unfolds whether it is a personal security concern, worker down situation, or repairing equipment.

- Rugged and intuitive design
- Maintain evidential integrity
- Pre and post-recording
- Immediate footage offload

## Take safety & security to the next level

It's time to rethink what safety can do—driving efficiencies, bolstering performance and helping you deliver a secure space. Motorola Solutions' safety and security ecosystem brings together the technologies and solutions you need to detect, analyse, communicate and manage, solving for safer utilities and powering your community.

Learn how Motorola Solutions can help power physical safety and critical communication with our safety and security ecosystem. [https://www.motorolasolutions.com/en\\_xp/solutions/mining.html](https://www.motorolasolutions.com/en_xp/solutions/mining.html)



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**Automate with Orchestrate**

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