

Rail and Metro: Safer, Connected Transportation

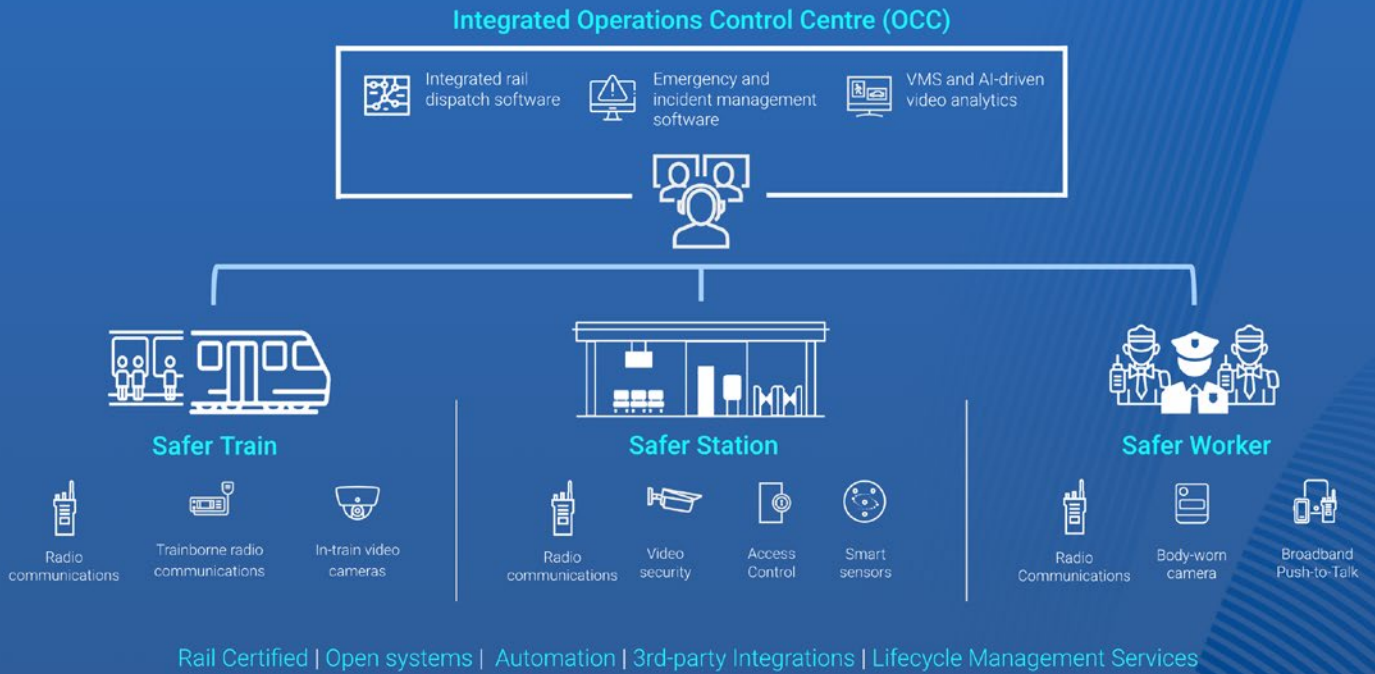
Transporting passengers and goods to their destinations safely and on time is a complex task. Companies face challenges such as the need to integrate multiple systems, manage ageing infrastructure and enhance safety and security.

Together with our key partners, we have a complete, unified technology ecosystem specific to the metro and rail sector. From control centre systems, radio communications, video solutions, sensors and body cameras to software, access control, dispatch (CAD), analytics and alerts,

our trainborne and fixed solutions are designed to help you detect, respond to, and resolve incidents. Moreover, we are committed to continually developing and expanding our portfolio while leveraging the benefits of AI, responsibly and transparently.

Safer and Connected Transportation

Operating as one unified ecosystem



Solutions and outcomes:



Safer Trains

- Trainborne radio communications
- Human-Machine Interface (HMI)
- Train Communication Interface Unit (TCIU)
- In-train cameras
- Occupant Analytics

Make informed decisions and effective communications (driver - control centre - passengers)



Safer Stations

- Radio communications
- Fixed cameras
- Automated alerts
- Body cameras
- Smart sensors
- AI-based identification
- Access Control alerts

Boost situational awareness and security with failsafe communications and automated alerts



Safer Workers

- Rugged multi-bearer portable radios
- AI noise suppression
- Data applications
- Peer-assisted body camera recording
- Evidence management

Equip your mobile teams with accurate, real time information and high-quality video evidence



Integrated OCC

- Searchable video
- Incident management
- Integrated control centre software
- Secure storage
- Locate a specific person
- Spot unusual activity

Centralise monitoring, reporting and response with solutions compliant to rail industry standards





Solving with AI

We leverage AI to enhance public safety and enterprise security by creating an assisted experience that helps users prioritise actions and understand complex situations. Our AI solutions are designed to augment human capabilities, not replace them, focusing on aiding decision-making and improving efficiency and safety. They emphasise a human-in-the-loop approach, ensuring systems remain advisory and that your teams retain control over consequential actions. We believe AI as a force for good means transparency and trust.

AI-trained noise suppression

We use AI in our radios to enhance communication clarity in noisy and challenging environments, such as station platforms and train depots. The technology filters out background noise, ensuring your teams can hear and be heard.

AI-powered video analytics software

Our video analytics software uses AI to help detect anomalies, automate investigations and boost operational efficiency, transforming information into intelligent and actionable insights.

AI labels for safety and security technologies

From radios, to cameras, smart sensors and more, these labels explain the type of AI used and how it is used, detailing its purpose, data use and ownership, human controls and the purpose behind the product's specific application of AI. This means you can have greater confidence in what you are using, how it works and why it's built to help protect people and property, responsibly.

Safer and connected transport in action

Keep your stations and trains safe, and teams connected during security incidents:

→ **DETECT**

The video camera identifies an incident such as a track intrusion, unattended baggage or overcrowding on a platform. AI analytics classifies it as a risk and triggers alerts for immediate action.

→ **RESPOND**

Automated alerts are sent to the operations centre, the train operator and the nearest security officers' radio, who use their radios to coordinate accordingly to avert issues and accidents.

→ **RESOLVE**

Security officers can examine the incident and take remedial action for the present and the future. Local police may also be informed with video evidence for investigation. The incident is recorded and logged.





Side-by-side with our customers



Experience and support

We are a global leader in mission-critical communications, software and managed services. Founded on customer-centred research and development, and reinforced with nearly 100 years of mission-critical expertise, our ecosystem unifies technologies for maximum effectiveness. We actively serve a large number of rail and metro customers with infrastructure, devices, software and support services.



Open platform and partnerships

Our open platform and strategic partnerships enable seamless integration with other leading technologies, including signalling, train management systems, PA, PIS, sensors, and more. This flexibility and future-proofing allow your transport network to evolve in line with customer needs.



On track to keep people safe

We understand that the transport industry is committed to keeping its people and work environment as safe as possible. We have invested more than \$12 billion in R&D and acquisitions over the past decade, have a growing number of manufacturing facilities worldwide, and are committed to developing our platforms to promote safety and efficiency for metro and rail.



The comprehensive metro and rail ecosystem

Connected, rail-certified solutions

We have rail standards compliant trainborne radios, video security systems and train dispatch software that integrate with public address systems, emergency intercoms and passenger information systems, so our systems can be an integral part of your total passenger, freight and train management system.

Video security and AI-analytics

Our rail certified cameras, open video platform and AI-analytics leverage existing investments and expands capabilities through 3rd-party integrations.

Body cameras

Our body cameras integrate with Motorola Solutions' radios, allowing you to trigger automatic recording of events when the emergency button on the radio is activated or when the radio is on fall alert

Mission-critical communications

We build infrastructure and devices that enable seamless, clear communications, data transfer, GPS tracking and other functionality. Whether your teams are on board, in a tunnel or trackside, their lifeline is always in reach.

Control centre software

Our rail safety compliant CAD and incident management software is customisable and integrates with all communication, video, and access control sources for improved situational awareness and faster incident response

Lifecycle Management services

We deliver support services and ongoing security patching that ensure the systems you depend on are ready and secure whenever you need them, for everyday routines or in times of a major disaster.



The Motorola Solutions Connected Rail and Metro Transport System improves passenger experience whilst improving safety, reliability and efficiency





We are committed to being your partner, every step of the way.

For more information about our connected metro and rail solutions, please contact your Motorola Solutions representative.

Contact us



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