



Mission-critical communication in hazardous industrial environments: The integration of Team on mission on i.safe MOBILE devices

Introduction

In hazardous industrial environments, secure and reliable communication is fundamental to maintaining operational safety and productivity. The integration of Streamwide's Team on mission platform with i.safe MOBILE's certified intrinsically safe devices presents a comprehensive solution for industrial professionals working in potentially explosive atmospheres.

This white paper explores how this powerful technological collaboration ensures global connectivity and real-time communication whilst adhering to the strictest safety standards required in high-risk industrial environments.



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The Integrated Solution Team on mission transforms i.safe MOBILE devices into comprehensive communication stations, offering several key advantages:

1. User friendliness In today's fast-paced industrial environments, user-friendliness is paramount. The integration of Team on mission with i.safe MOBILE devices delivers powerful functionality whilst maintaining intuitive operation:

- › Functions across all network types, including cellular (2G, 3G, 4G, 5G), Wi-Fi, and satellite connections
- › Global coverage with seamless network switching
- › Straightforward installation via Google Play or i.safe MOBILE App World
- › Intuitive user interface designed for industrial use

2. Software capabilities of Team on mission At the heart of this solution lies Team on mission's sophisticated software architecture. Developed to meet diverse industrial requirements, it offers a comprehensive suite of features that enable seamless communication:

- › Instant Push-to-Talk voice communication for individuals and groups
- › Push-to-Video functionality for real-time visual communication
- › Image and file sharing capabilities
- › Direct messaging between team members
- › Lone worker protection features including man-down alerts
- › Geofencing and location tracking for workforce monitoring
- › SOS emergency alerts for critical situations
- › Comprehensive workforce management tools
- › Patented recording platform for communication archiving
- › Multi-session dispatch console for command and control

3. Safety Working in hazardous industrial environments demands unwavering adherence to safety protocols. The Team on mission solution meets and exceeds industry safety standards, providing robust protection and security features:

- › End-to-end encryption of voice, messages, and recordings
- › Multiple layers of protection following best-practice methodologies
- › GDPR compliance requirements
- › Emergency communication protocols
- › Location tracking and SOS emergency alerts
- › Man-down and keep-alive functions for lone worker protection

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Industry Applications and Use Cases The versatility of Team on mission on i.safe MOBILE devices becomes evident across various industrial sectors, each benefiting from specific functionality tailored to their unique hazardous environment requirements.

Oil and Gas Industry In the demanding environments of the oil and gas industry, where precision and safety in potentially explosive atmospheres are of primary importance, the integrated solution provides comprehensive communication and monitoring capabilities:

- › Instant group communication between offshore and onshore teams
- › Emergency alarm systems for rapid response
- › Real-time location tracking of personnel in hazardous areas
- › Video sharing for remote expert consultation
- › Man-down detection and automated alerts
- › Integration with existing radio systems

Chemical Industry Chemical production facilities require reliable communication and safety monitoring, and the Team on mission solution optimises these critical operations:

- › Clear communication in noisy environments
- › Emergency protocols for chemical spills or hazards
- › Location monitoring of personnel in restricted areas
- › Remote expert support via video
- › Integration with plant-wide alarm systems
- › Documentation of safety procedure compliance

Pharmaceutical Industry In the highly regulated pharmaceutical industry, where documentation and safety in cleanroom and hazardous environments are essential, the solution ensures reliable communication and monitoring:

- › Cleanroom communication without physical contact
- › Documentation of safety procedures
- › Remote monitoring of critical processes
- › Emergency protocols for contamination events
- › Integration with quality control systems
- › Workforce management for complex shifts

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First Responders and Emergency Services Safety procedures and emergency response teams rely heavily on rapid communication and coordination:

- › Instant group communication during incidents
- › Real-time location tracking of personnel
- › Video sharing for situation assessment
- › Incident capture and documentation
- › SOS alerts for immediate support
- › Integration with existing emergency systems
- › Post-incident communication review

Key Benefits The integration of Team on mission with i.safe MOBILE devices delivers substantial advantages across multiple operational dimensions, creating value through enhanced communication, safety, and operational efficiency in hazardous environments.

Operational Efficiency In today's competitive industrial landscape, streamlined communication is crucial for maintaining productivity whilst ensuring safety compliance. The combined solution offers significant improvements in operational efficiency:

- › High reliability in critical situations with mission-critical communication standards
- › 3GPP standards for mission-critical communications (MCPTT, MCVideo, MCDATA) ensuring communication resiliency and voice intelligibility
- › Ability to communicate with up to 10,000 individuals (Channels)
- › Scalable group management: Supports hundreds of groups and thousands of users per group. Seamless switching between network types (cellular, Wi-Fi, satellite)
- › Consistent performance regardless of group size

Safety Enhancement Beyond operational benefits, the integrated solution provides a comprehensive approach to workplace safety, particularly critical in hazardous environments:

- › Instant emergency alerts and communication
- › Real-time location tracking for rapid assistance
- › Man-down alerts for incapacitated workers
- › Keep-alive and device inactivity monitoring
- › Geofencing for monitoring restricted areas
- › Comprehensive audit trails for regulatory compliance

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Cost Effectiveness The economic advantages of this integrated solution extend beyond immediate operational benefits:

- › No costs for conventional radio infrastructure
- › Reduced maintenance requirements for equipment
- › Lower training costs due to intuitive user interface
- › Decreased risk of communication failures
- › Improved operational efficiency
- › Enhanced workforce management capabilities

Technical Integration The successful implementation of any industrial solution depends on seamless integration into existing systems and processes. Team on mission's PTX seamlessly integrates with enterprise systems such as dispatch consoles and management software for smooth operations. It also works with existing communication systems, including mobile data, video streaming services, and traditional radio systems via gateways. This compatibility creates a unified communication system that enables seamless communication and connects previously separate technologies

Implementation Implementation has been optimised to ensure rapid deployment and minimal disruption to existing operations:

- › Available via Google Play and i.safe MOBILE App World
- › Compatible with Android and iOS operating systems
- › Dispatcher compatible with Windows
- › Currently supported on i.safe MOBILE IS440.1 and IS540.1 devices
- › 24/7 professional service support
- › Comprehensive partner onboarding and training
- › Sales and marketing support

Data Management and Security Effective data handling and security are crucial in industrial environments:

- › ISO27001 certified solution
- › End-to-end encryption for all communication types
- › Compliance with global security policies
- › Robust technical and procedural security safeguards
- › Multiple layers of protection
- › GDPR compliance

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Summary

The combination of Team on mission software and i.safe MOBILE devices represents a significant advancement in industrial communication solutions. This integration offers a secure, reliable, and comprehensive approach to Push-to-Talk communication in explosive hazardous environments.

The global coverage and feature-rich platform, coupled with i.safe MOBILE devices, provide industrial users with powerful capabilities to enhance safety and productivity whilst maintaining the highest safety standards in explosive hazardous environments.

Team on mission offers a complete, secure, and scalable platform for mission-critical communication and workforce management. It enhances safety, efficiency, and operational oversight in high-risk environments, ensuring compliance with industry regulations whilst improving emergency response and field coordination.

