



Unified Endpoint Management in Hazardous Industrial Environments: The Strategic Integration of SafeUEM with i.safe MOBILE Devices

Introduction

The modern industrial landscape requires sophisticated management of mobile and fixed devices to ensure operational integrity and security in increasingly complex environments, including explosion hazardous areas. The strategic integration of SafeUEM's comprehensive end-point management platform with i.safe MOBILE's certified intrinsically safe devices delivers a unified solution specifically engineered to address the challenges of managing technology in hazardous industrial settings.

This white paper explores how this powerful technological partnership provides organisations with a robust management solution for mobile devices, with particular attention to the seamless integration within i.safe MOBILE's App World ecosystem and compatibility with devices used in potentially explosive atmospheres.

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The Integrated Solution The integration of SafeUEM transforms i.safe MOBILE's enterprise device ecosystems into efficiently managed, secure endpoints through a unified approach that combines state-of-the-art endpoint management capabilities with intrinsically secure mobile technology.



Unlike conventional MDM solutions, this integration is purpose-built for industries with Zone 1/21 and Class I, Division 1 requirements.

1. Simplified Management Interfaces Modern industrial operations require solutions that minimise complexity whilst maintaining comprehensive control. The SafeUEM integration with i.safe MOBILE devices delivers an accessible management system designed with operational efficiency in mind:

› Simple agent installation via preloading or sideloading

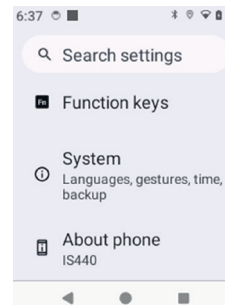
The screenshot shows the 'New Policy' form in the SafeUEM management console. It includes a tip: 'When upload UEM agent for upgrade, please do not select "uninstall the app when the policy is deleted"'. The form fields are: Name (App Deployment), APK File (Click or drag the APK file here), App name for display, File size (MB), Version, Version Code, Package Name, Icon (Android robot icon), and Silent Installation (Yes).

› Support for Android Enterprise and Zero-Touch deployment

- Enterprise Configurations
 - Android Enterprise
 - Zero-Touch Configuration

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- › Compatible with Android 8.0 and above on i.safe MOBILE devices



- › Intuitive web console with role-based access controls

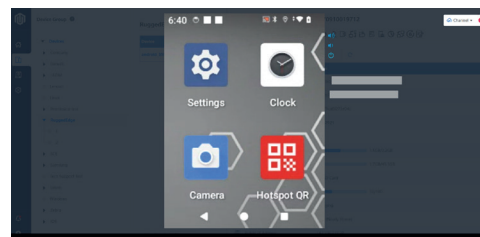
Roles List		+
User Role Name	Description	
Guest	Guest Permissions	
Operator	Operator Manage Permissions	
Supervisor	Supervisor All Permissions	

- › Seamless integration within the i.safe MOBILE App World ecosystem
- › Available through established distribution channels including i.safe MOBILE App World

2. Core Management Capabilities

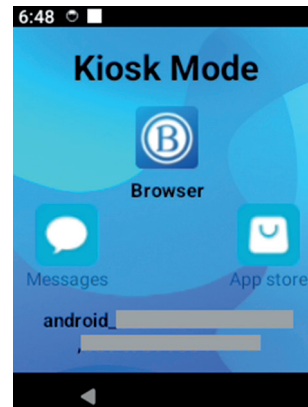
SafeUEM's sophisticated technical foundation, enhanced through the collaboration with i.safe MOBILE, provides comprehensive control over diverse device types. The platform delivers key functionality essential for hazardous industrial environments:

- › Complete mobile device management (MDM) functionality optimised for intrinsically safe devices
- › Asset management capabilities tailored for industrial equipment
- › Support for both GMS and non-GMS Android devices
- › Cloud deployment and on-premises deployment options
- › Support for intranet and internet deployments in restricted environments
- › Remote device support with UI remote control functionality



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- › Geolocation tracking, geofencing and alerts for personnel safety
- › Kiosk Mode for specialised application environments in hazardous areas



3. Security Framework The management of devices in explosion hazardous industry zones requires exceptional security measures. The strategic integration of SafeUEM with i.safe MOBILE devices implements multiple layers of protection that satisfy the most stringent industrial safety and security requirements:

- › ISO27001 certified solution with enhanced security protocols
- › Encrypted communications optimised for industrial networks
- › Multi-factor authentication (MFA) and Single Sign-On (SSO)
- › End-to-end encryption between device agent, server, and web console
- › Role-based access control model to limit management scope in sensitive areas
- › Full compliance with GDPR requirements and industrial data protection standards
- › Certified compatibility with intrinsically safe device requirements

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Industry Applications and Use Cases

The versatility of the SafeUEM and i.safe MOBILE integration becomes evident across various industrial sectors, each benefiting from specific functionality tailored to their unique hazardous environment requirements.

Oil and Gas Industry

In the challenging environments of the oil and gas industry, where precision and safety in potentially explosive atmospheres are paramount, the integrated solution provides comprehensive device management capabilities:

- › Remote deployment of safety-critical applications to intrinsically safe mobile devices
- › Administrative control ensuring devices remain compliant with explosion protection requirements
- › Real-time device monitoring and management in offshore and onshore hazardous areas
- › Emergency device lockdown capabilities for critical safety situations

Chemical Manufacturing

Chemical production facilities require reliable device management and safety monitoring, and the SafeUEM integration streamlines these critical operations:

- › Centralised management of devices across multiple explosion hazardous zones
- › Remote device support to minimise personnel exposure in dangerous areas
- › Integration with plant-wide safety and alert systems

Pharmaceutical Production

In the highly regulated pharmaceutical industry, where documentation and safety in cleanroom and hazardous environments are essential, the solution ensures reliable device management:

- › Cleanroom-compliant device management without physical intervention
- › Documentation of device compliance with safety procedures
- › Remote monitoring of critical process devices. It allows the remote monitoring of the device itself.
- › Integration with quality control and safety management systems

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Mining and Heavy Industry Mining operations and heavy industry benefit from the solution's robust device management capabilities in extreme environments:

- › Comprehensive device tracking and monitoring in underground operations
- › Remote device management to reduce downtime in hazardous locations
- › Integration with existing safety and emergency response systems
- › Automated device health monitoring and predictive maintenance alerts

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

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

- › Centralised management of all mobile devices across hazardous and non-hazardous areas
- › Automated deployment and updating of safety-critical applications
- › Reduced downtime through proactive device management and remote support
- › Streamlined compliance reporting for regulatory requirements

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

- › Automated compliance monitoring for intrinsic safety requirements
- › Remote device lockdown capabilities for emergency situations
- › Real-time device health monitoring Storage capacity, battery level, network parameter
- › Integration with existing safety management systems
- › Comprehensive audit trails for regulatory compliance

Cost Effectiveness The economic advantages of this strategic partnership extend beyond immediate operational benefits:

- › Reduced need for specialised IT personnel in hazardous areas
- › Lower maintenance costs through remote device management
- › Decreased risk of device-related safety incidents
- › Improved operational efficiency through centralised management
- › Enhanced compliance management reducing regulatory risks

Technical Integration and i.safe MOBILE App World The successful implementation of any industrial solution depends on seamless integration into existing systems and processes. The strategic partnership ensures optimal compatibility and accessibility.

App World Integration SafeUEM is fully integrated within the i.safe MOBILE App World ecosystem, providing:

- › Tested and verified compatibility with all i.safe MOBILE devices that support the App World
- › The App World is pre-installed and free of charge on all compatible devices, providing users with immediate access to download the SafeUEM solution and other validated applications without requiring account registration. Quick and easy deployment through the trusted App World platform
- › Secure distribution hosted in Germany with continuous updates
- › Comprehensive ecosystem integration with other industrial applications
- › Streamlined procurement and licensing through established i.safe MOBILE channels

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System Compatibility The SafeUEM platform offers comprehensive compatibility across industrial environments:

- › Fully compatible with intrinsically safe PTT devices running ISM-OS (based on Android)
- › Supports devices with or without Google Mobile Services (GMS), including Android Enterprise
- › Agent installation via multiple methods including App World distribution
- › Support for both cloud-based and on-premises deployments
- › Integration with existing enterprise systems and safety management platforms

Implementation and Support Getting started with the integrated solution has been streamlined to ensure rapid deployment and minimal disruption to existing operations:

- › Available through the i.safe MOBILE App World for verified compatibility
- › Pre-tested configurations for i.safe MOBILE device families available through the App World
- › Compatible with Android 8.0 and above on certified devices
- › Comprehensive support from both SafeUEM and i.safe MOBILE teams
- › Available trial accounts for evaluation and testing
- › Online training and extensive documentation
- › Professional services support for complex deployments

The solution has been pre-validated for integration and can be rapidly deployed via the i.safe MOBILE App World following activation, ensuring certified compatibility with Zone 1/21 requirements.

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Innovation Roadmap The SafeUEM development team, in collaboration with i.safe MOBILE, maintains a forward-looking approach with planned enhancements specifically designed for hazardous industrial environments.

- › Enhanced integration with i.safe MOBILE's safety ecosystem
- › Advanced device management features for explosion protection compliance
- › Deeper integration with specialised industrial and safety systems
- › Enhanced Single Sign-On (SSO) integration for industrial networks
- › More intelligent deployment options for hazardous area requirements

Data Management and Security Effective data handling and security are crucial in industrial environments, particularly when managing devices in explosion hazardous areas:

- › ISO27001 certified solution with enhanced industrial security protocols
- › End-to-end encryption optimised for industrial network requirements
- › Compliance with global security policies and explosion protection standards
- › Robust technical and procedural safeguards for hazardous environments
- › Multiple layers of protection certified for intrinsically safe operations
- › Full GDPR compliance with industrial data protection considerations

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Summary

The combination of SafeUEM software and i.safe MOBILE devices represents a significant advancement in unified endpoint management solutions for hazardous industrial environments. This integration combines sophisticated device management capabilities with certified intrinsically safe mobile technology, delivering a comprehensive solution through the trusted i.safe MOBILE App World ecosystem.

The collaboration offers industrial organisations a secure, reliable, and comprehensive approach to managing mobile devices in potentially explosive atmospheres. With global coverage, feature-rich management capabilities, and seamless integration with i.safe MOBILE's certified devices, this strategic partnership provides industrial users with a powerful tool that enhances both operational efficiency and safety compliance whilst maintaining the highest security standards within explosion hazardous environments.

Through the i.safe MOBILE App World, organisations can confidently deploy SafeUEM knowing they have access to tested, verified, and continuously updated endpoint management solutions specifically engineered for the demanding requirements of modern industrial operations.