MiR Fleet Enterprise: Powerful, Cyber-Secured Fleet Management for Optimized Control and Productivity

MiR Fleet Enterprise (MFE), is a powerful, intuitive, browser-based command center for orchestrating an entire autonomous mobile robot ecosystem. MiR Fleet Enterprise unifies the coordination of diverse MiR robots, whether equipped with top modules, MiR Hooks, or other accessories, into a single, easy-to-use interface. The software boosts productivity through centralized mission control, maximizes fleet uptime with real-time insights, and scales effortlessly as your operations grow. Once configured, the fleet system prioritizes tasks and assigns them to the most suitable AMR based on location and real-time availability.

This smart, automated approach to robot fleet management ensures smoother workflows, reduces idle time, and supports more responsive industrial fleet management, making it easier to adapt to dynamic production needs and internal logistics challenges.

Feature	Advantage
Scalable	Fast and central configuration of large robot fleets
Efficient	Prioritization and selection of the robot best suited for a job
Easy to Integrate	Purpose-built REST-API for ERP/MES/WMS implementation
Cybersecurity	Enhanced cybersecurity according to IEC62443 standard

Scalable Fleet Management with MiR Fleet Enterprise

Empowers You

With a scalable, secure, and seamlessly integrated software solution tailored for advanced robot fleet management.

Efficient Scalability

Optimized for large-scale industrial fleet management with event-driven architecture reducing network load.

Enhanced Cybersecurity

Robust features including single sign-on, audit, logging, and granular user permissions aligned with IEC 62443 Part 4-2 (SL-C 3).

Enterprise Ready

Runs on Windows Servers, supports virtualization and cloud strategies for future-ready deployment.

Ease of Use and Centralized Control

The user-friendly web interface simplifies fleet management, enabling operators to manage the entire fleet with minimal training. Integration with ERP, WMS, and MES systems ensures smarter planning and responsive operations.

MiR Fleet automates task assignments and robot selection based on availability and location, keeping operators informed of obstacles or route disruptions.

Whether managing a few AMRs or a large industrial fleet, MiR Fleet provides centralized oversight and reliable performance as automation applications needs evolve.

Watch this video to learn more:
MiR Fleet Video

Comprehensive Cybersecurity

Aligning with the IEC 62443 Part 4-2 (SL-C3) MFE provides robutst protection against evolving cyber threats.

Key security features include:

- Single Sign-on
- Audit logging
- Flexible Database Security
- Improved User Permission Control
- Mutual Trust Certificates between robot and fleet
- Compatibility with Malware Protection
- DoS Attack Protection
- Signed Installation File
- Password Attack Protection

Efficient Scalability & Performance

With an event-driven architecture, MiR Fleet Enterprise optimizes data flow, reducing bandwidth and computational load, enabling real-time updates and seamless scaling for fleets over 100 units.

- **Completely new event-driven APIs** for setting up communications between your MiR system and external devices and for your MiR system and top modules for seamless integration and scalability
- **Redesigned, faster and more reliable data synchronization** between fleet and robots with event-based gRPC communication reducing computational load and improving performance

Enterprise Ready

Enterprise ensures robust security, easy installation, optional redundancy, and flexible deployment.

- **Installation wizard** to guide you through the entire installation and set up process.
- **Digitally signed Windows installer** prevents tampering and ensures compliance and security
- **Flexible Deployment:** integrates with cloud and virtual environments within your IT infrastructure
- **MSSQL database** with EF Core for secure and efficient data handling according to your own site policies

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