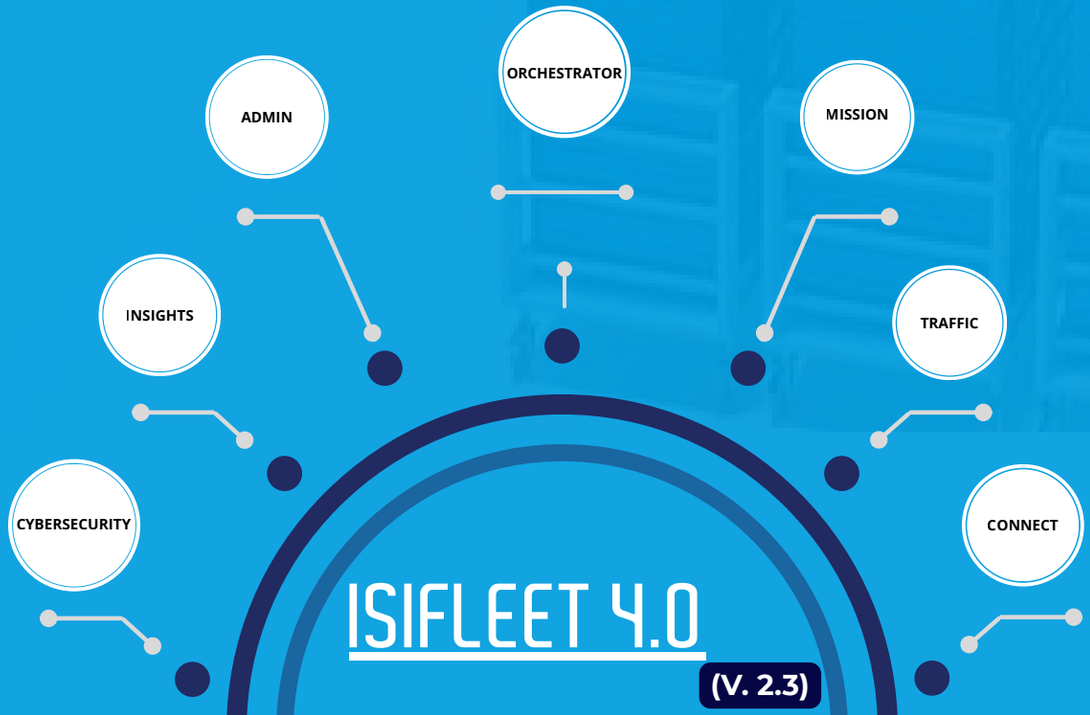
ISIFLEET 4.0 (Ver. 2.3)

The universal & intelligent FMS for all intralogistics and industrial mobile robots



Isitec International

ISIFLEET is the **Fleet Management System (FMS)** software suite developed by ISITEC International to manage, **orchestrate, and optimize** fleets of intralogistics mobile robots (**AMRs, AGVs, multi-technology platforms)**, drawing on over 20 years of experience in intralogistics. It is a **universal, intelligent, modular, and sovereign FMS capable of connecting and managing**:

- multi-brand robots,
- native VDA5050 robots,
- older/non-native robots via ISITEC drivers,
- industrial peripherals (PLCs, BPs, tablets…).

It forms the nerve center of a modern, scalable and evolving robotic installation.

Founding principles

Unified Robotics	A single software for all robots, brands and technologies.
Full interoperability	Natively compatible with VDA5050 + ISITEC drivers for non-robotic robots native. Complete IT integrations: ERP, WMS, MES, PLC, ISIPICK / ISIBATCH / ISISLOT solutions.
Safety & reliability	• Advanced traffic management • Zero-collision • Compliance with HSE standards • Enhanced cybersecurity (see dedicated module)
Installation / IHM	• Flexible, configurable and scalable installation • Layout • Mapping
Optimisation continue (AI + Operations Research)	• Mission scheduling • Robot selection • Traffic flow • Minimizing waiting times and congestion
Sovereignty and cybersecurity	• 100% European (FR) Development Data and communication protection against internal/external cyberattacks • Enhanced compliance with European standards

General operation

ISIFLEET acts like a **robotic conductor**:

1. **Receiving assignments from ERP/WMS/MES/ PLC/BP**
2. **Analysis of constraints, speeds, distances, robot-mission compatibility**
3. **Intelligent dispatch to the most relevant robots**
4. **Traffic management, zones sensitive and cross-pollinated**
5. **Real-time monitoring**
6. **Continuous adjustments thanks to AI**

Unified modular architecture

ORCHESTRATOR – Assignment & Scheduling (AI)

Features:

- Robot-brand-mission compatibility
- Robot performance & condition
- Analysis; Consideration of layout and bottlenecks strangulation
- Optimal scheduling

Benefits:

- Optimal allocation
- Smoother traffic flow
- Fewer wait times
- Optimal battery level maintenance

MISSION – Evolving Mission Management

Structure, plan, trigger and record all missions

Features:

- Automatic/manual creation
- Dynamic prioritization
- Batching intelligent
- SFC (Sequential Function Chart)

Benefits:

- Reduced human intervention
- Fluid flow
- Consistency with traffic

TRAFFIC – Advanced traffic management

Automated traffic management: safety and fluidity

Features:

- Anti-collision
- Anti-congestion
- Critical Zone Management
- Speed & Priorities

Benefits:

- Zero blockages
- Optimal flow





CONNECT / COMMUNICATION – Total Connectivity

Communication hub between robots, IT and peripherals

Features:

- VDA5050 native and non-native
- Drivers ISITEC
- Communication PLC, MES, ERP, WMS
- API REST, MQTT, Modbus, TCP
- Cloud and server integration

Benefits:

- Linking all flows
- Full traceability
- Unified communication
- Automatic call management (via BP) or manual

INSIGHTS – KPI & analyse Structure, KPI

Real-time and historical KPIs

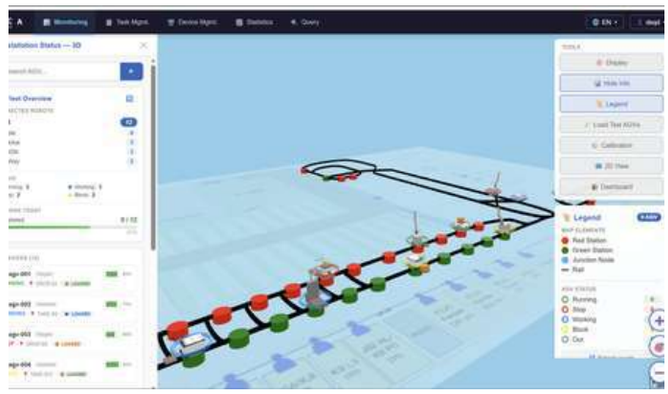
Features:

- Dashboards
- Automatic reports
- Data Export & Heatmaps
- Big data et Data Science

Benefits:

- Preventive maintenance
- Continuous improvement





CYBERSECURITY

Features:

- Segmented network: Isolation of robots/client IT
- Encrypted communications: Secure protocols and strong authentication
- Access management: Defined roles, complete traceability
- Secure updates: Controlled patches and firmware
- Logging & detection: Centralized logs and intrusion alerts

Benefits:

- Data and flow protection
- Cyber risk reduction
- Secure integration into existing IT/OT systems

ADMIN – Governance

Features:

- Centralized user management
- Complete action traceability
- Operating rule configuration
- Multi-site and multi-fleet monitoring
- Reporting and decision-making dashboards

Benefits:

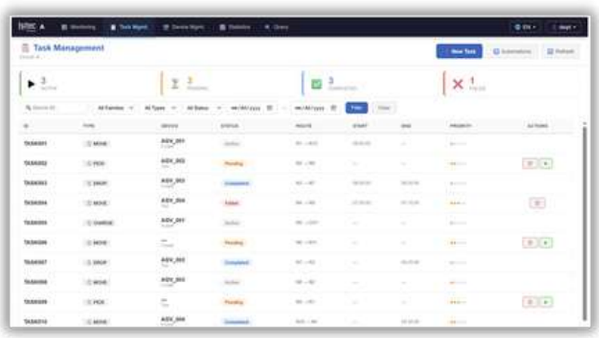
- Complete control of operations and responsibilities
- Structured, traceable management compliant with internal requirements
- Decision support based on reliable and consolidated data

Measurable Gains & ROI

+20 to +40% robotic productivity	**-30% waiting time**	**–50% collision potential**	**-25% congestion**	**Typical ROI 6 to 12 months**

FLEXIBILITY of our solution

- Quick and easy installation
- Intuitive mission setup
- User-friendly HMI interface
- native scalability
- Scalable configuration



ISITEC International is much more than a mobile robot integrator. We develop our own Fleet Management System and design the software intelligence that controls and optimizes all your automated workflows. Our expertise is based on dozens of projects completed in Europe, in demanding, multi-constraint, and multi-technology industrial environments.

We integrate all navigation technologies—QR code, SLAM, magnetic guidance, wired or hybrid—selecting the solution best suited to your processes. **This technological independence guarantees robust, scalable and long-lasting architectures.**

Our added value lies in **our complete mastery of the integration chain**: mobile robotics, industrial automation, electricity, electronics, and software development. Our teams ensure seamless interconnection with your existing systems (WMS, MES, ERP, or custom solutions), within a controlled and secure IT/OT integration framework.

Our Fleet Management System is developed by **our teams based in France and Europe**, **guaranteeing a sovereign approach to data**. We **integrate cybersecurity and GDPR compliance requirements from the design stage.**

We design and **deploy turnkey projects**, from flow analysis to production launch, with a strong commitment to reliability, operational performance and business continuity.
Choosing ISITEC International means choosing a European industrial partner, capable of orchestrating mobile robotics as a sustainable strategic lever to enhance your competitiveness and technological sovereignty.

References already in place

YAMAHA — **Fleet of AGVs and their height-controlled lifting tables for a motorcycle assembly line for the manufacturer YAMAHA**



MASSEY FERGUSON — **Fleet of AGVs and their lifting tables for retrieving tractor tanks at a height of 2 meters, then transferring them to the assembly line.**



Valeo — **Fleet of AGVs for hauling trolleys in an automotive assembly line configuration (radiators)**



HUTCHINSON — **Fleet of AGVs for hauling trains of logistics trolleys**



Autoliv — **Fleet of AGVs and their trolley trains to supply workstations with parts for assembling seat belts**



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