FLEETWARE

Management Suite for Mobile Robots

Fleetware is a control and management suite for Autonomous Mobile Robots (AMRs) that can be easily implemented into logistics and production processes.

THE ROLE OF FLEETWARE

Multiple AMRs in advanced logistics and production environments require a set of tools over and above the standard AMR suites.

Fleetware provides this layer, coordinating up to 100 robots simultaneously to enable large-scale deployments, for example Just-in-Time sequenced manufacturing of complex parts with variable production requirements.

Fleetware's internal logic engine enables multi-mission and dynamic routes to be undertaken. This allows for **simple, modular robot missions,** with Fleetware assigning mission stages with parameterised destinations.

The software **integrates with WMS/ERP systems** to receive and supply order data and then manages the missions by logistic priority.

FEATURES

Dynamic assignment of missions by logistic priority

Integration with WMS/ERP systems

Simple, modular robot missions

Robot monitoring and analytics via EMA for Fleetware

BENEFITS

Central configuration and monitoring of the fleet of robots

Product traceability whilst being carried by robot

Identification of process bottlenecks via performance data

APPLICATIONS

Warehouse logistics

Part kitting / Order fulfilment

Transport of goods throughout production stages

Just in time manufacturing

FLEETWARE CORE

MANAGEMENT APPLICATION

The core management applications allow for the central configuration of robots, missions and locations.

Fleetware performs the **automated routing of robots** based on robot state changes.

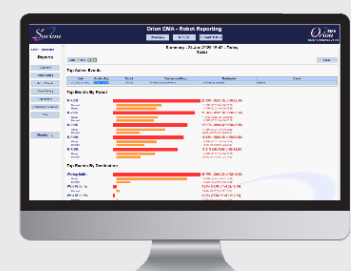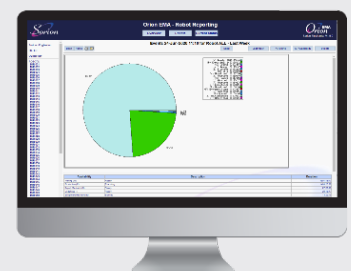It also enables real time status monitoring, diagnostics, logging and operational maintenance functions.

ROBOT MONITORING AND ANALYTICS

EMA for Fleetware is a web interface that tracks status events from the robot fleet:

- Waiting and charge times
- Stoppage time classification
- Overview of fleet utilisation and performance with failure and cause statistics

EMA for Fleetware can be used to trace bottlenecks and problematic robots/positions.
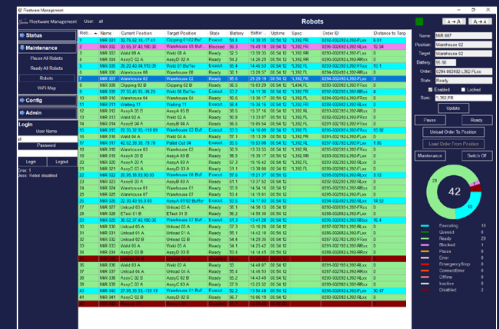
GUIDED ASSEMBLY

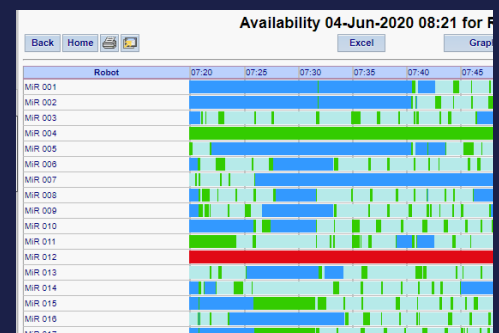Fleetware can be utilised with Sextans to provide a complete **guided assembly process solution**

FLEETWARE SIMULATION

The **Simulation Tool** allows you to test and validate the environment prior to the installation of physical robots and any changes to layout and capacity.

This helps reduce lead times and costs.

LICENSING

	Fleetware Core	**Fleetware Simulation**
Application	Production license for real system	Demo, validation or logic
Number of robots	Up to 100	Unlimited
EMA for Fleetware	Included	-

ABOUT SORION

Founded in 1990 and with equipment installed and operated by major OEMs and Tier 1 suppliers around the globe, Sorion Electronics has an established reputation for innovation, quality and reliability.

Your Partner for:

- Guided Assembly Process Control
- End of Line Test Systems
- Management and Analytics System for Autonomous Mobile Robots (AMRs)
- Ruggedised Electrical Connectors & Harnesses
- Quality and Traceability Reporting
- Electronic Product Design and Development

THE SORION SOLUTION

Central configuration of a fleet of robots

Robot maintenance

Event timeline - can be used to identify bottlenecks

Colour coded robot status information

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