OMRON Fleet Simulator

OMRON

Solve problems before they arise.
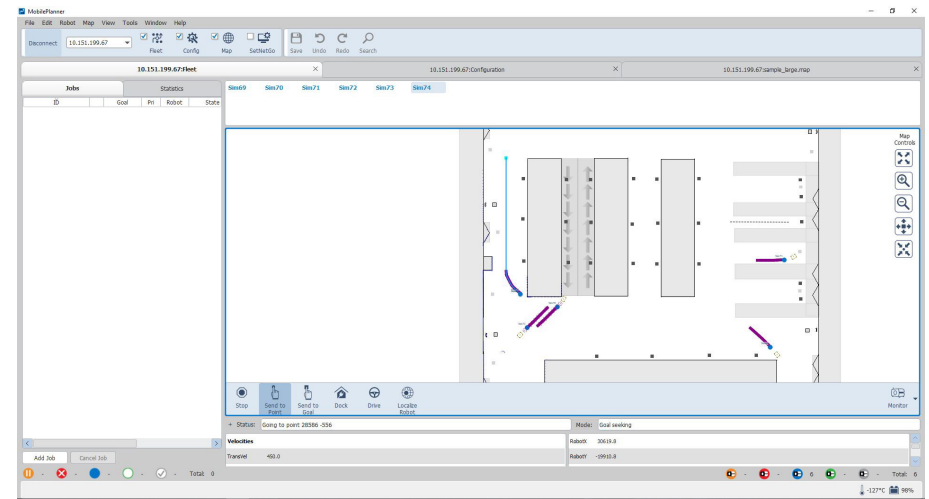## Optimize your fleet before you deploy it.

OMRON's Fleet Simulator offers the industry's first autonomous mobile robot fleet simulator for factory and manufacturing applications. Plan traffic and workflows for fleets of autonomous mobile robots to identify potential bottlenecks and optimize workflows without ever having to deploy a real robot.

Fleet Simulator benefits:
- Assess impact of map changes, scaling, route changes, and new software features
- Simulate up to 10 robots, in up to three separate fleets
- Visualize individual robot path planning and interaction with other robots
- Simulate custom environment based on real-world facilities
- Identify traffic flow bottlenecks
- Validate third-party software

OMRON fleet simulator optimizes traffic and workflows for fleets of autonomous mobile robots.

Collect customized analytics

OMRON's Fleet Simulator emulates robot behaviors including localization, path planning, obstacle avoidance and fleet management to provide valuable insight on performance in the real world. The system can simulate jobs to predict throughput and optimize fleet size in a map of an actual facility.

Easily manage entire mobile ecosystem

The OMRON Fleet Simulator is designed to be compatible with the OMRON Fleet Operations Workspace (FLOW) platform for mobile robotics. The simulator runs on the OMRON EM2100, which can be configured as a Fleet Manager, Backup Fleet Manager, and now a Fleet Simulator. To use an EM2100 as a Fleet Simulator, the device can be configured at the factory or with a software license in the field.

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