WAMAS Emulation Center - Emulation for Automated Warehouses

The WAMAS Emulation Center is an advanced software solution that digitally maps complex, automated warehouses. Once installed in a test server environment, it enables realistic operation of the WAMAS software, emulates the PLC control of the warehouse and reproduces actual system behavior with the maximum possible accuracy.

Unlike traditional simulation, which is restricted to model-based behavior of the system, the WAMAS Emulation Center replicates all the relevant hardware and software components, creating an accurate test environment. This produces test scenarios that authentically reflect how automation, system logic and control interact. The WAMAS Emulation Center can be used for comprehensive testing of software updates and new releases in a virtual environment – before they are transferred to the live system. This helps you ensure that all changes will be integrated smoothly, without interrupting ongoing operations. You can train your staff directly within the WAMAS Emulation Center – in a secure test environment with realistic system behavior. Practical training not only boosts your employees' expertise but also their motivation and confidence in using the logistics system.

Benefits at a glance:

- **Holistic test scenario:** Enables true end-to-end testing of all warehouse processes – from goods-in to goods-out.

- **Safety and quality:** Comprehensive performance and stability tests that ensure reliable and authentic results across all systems.

- **Reduced risks and costs:** Downtimes are reduced, processes are optimized and ongoing operation remains unaffected. This enables the company to increase its ROI in a sustainable way.

- **Full functionality:** All of the functions of the live system – including the manual interactions with the installation – are available in a secure virtual test environment.

- **Maximum transparency:** Loading units can be located in real time via their barcodes – for full transparency across all goods movement and transport processes.

- **Higher system availability through proactive testing:** Thorough testing before use in the production environment makes operation more stable and significantly improves system availability.

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Risk-Free Warehouse Optimization with WAMAS Emulation Center

The warehouse emulation makes it possible to analyze a wide variety of operating conditions in a risk-free way, as well as test and optimize warehouse behavior in various events. And you can do this at any time, as often as you like, without having any impact on ongoing operation.

Events:

- Varying order structures and scaling of operations
- Changing item master data
- Identification and elimination of bottlenecks and disruptions in material flow
- Adjusted warehouse parameter settings in WAMAS
- Tests with high order and peak volumes, including the 'Black Friday scenario'

True end-to-end testing of all warehouse processes – from goods-in to goods-out.

WAMAS®