Software for internal logistics automation

Automated guided vehicle systems
Material flow control
Warehouse administration
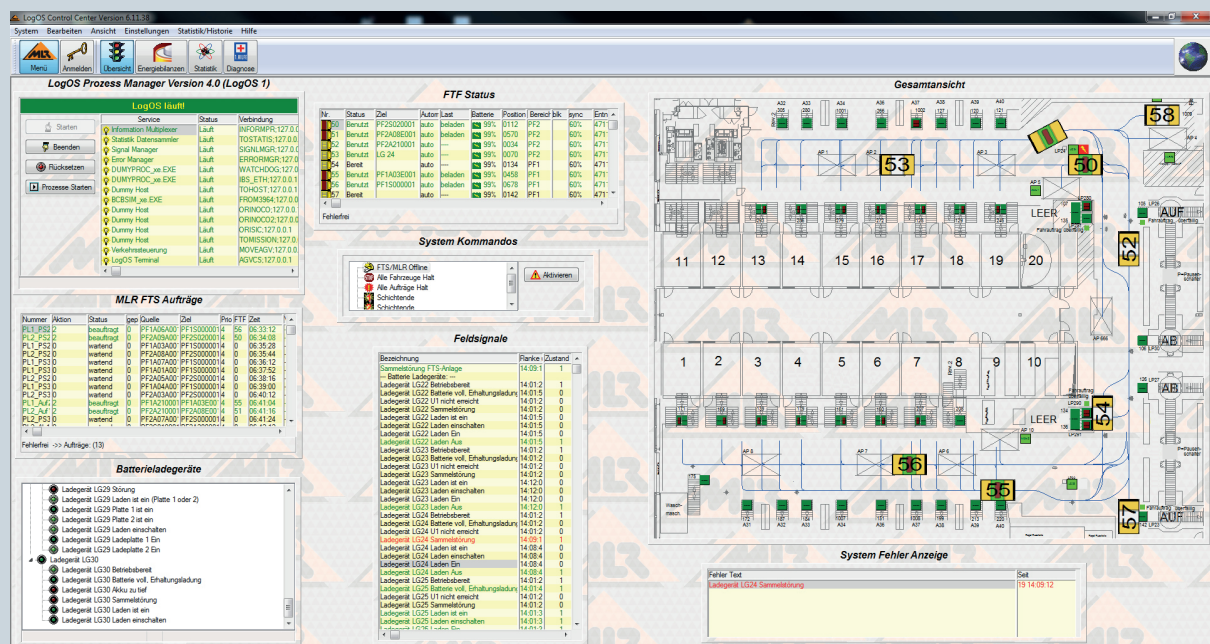
LogOS
Management and controll software

LogOS	**LogOS**	**LogOS**	**LogOS**	**LogOS**
Control system for AGVS	Stacker control system	Material flow control	Warehouse management system	Communication manager
FTS	SLS	MFS	LVS	CM

MLR

Powerful management and controll software

The multifunctional Logistic Operating System LogOS has been developed by MLR as a dedicated management and control software platform that controls internal transport systems, monitors machines, coordinates material and product flows, and thereby organizes and manages all common types of warehouses.

External vehicles, such as forklifts and cranes, and materials handling systems and high-rack storage systems can also be integrated in the overall system, as well as elevators, fire protection doors, and safety devices. LogOS has standard interfaces for typical ERP and MRP systems, allowing fast and economical integration in existing IT structures. Continuous development of LogOS guarantees the customer a future-proof investment.

LogOS base system

The LogOS base system has a large number of standard modules available. The self-explanatory graphic user interface can be dynamically expanded and can be adapted by the customer. A comprehensive graphic interface allows products to be tracked through the entire transport route.


Overview LogOS

LogOS modules

The basic LogOS system can be expanded quickly and easily using the following modules in order to meet the specific requirements of your company and your industry.

LogOS FTS

The powerful master computer software for automated guided vehicle systems (AGVS) contains all of the essential standard components for controlling automated guided vehicles. The control system administers all of the vehicles and workstations. It dispatches, controls, and monitors vehicles and order execution, production data and peripheral transport technologies.

Functions

- Dynamic route selection
- Dynamic route selection
- Flexible changes to travel routes
- Two-stage disposition

- Material flow and transport optimization
- Hot standby systems
- Assistance with fault analysis
- Extensive statistical modules
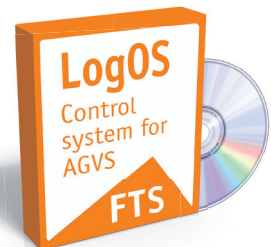
LogOS SLS

The stacker control system is designed for use with human-operated transporters, such as forklifts. The module organizes all order and transport dispatches and integrates them into the material flow system.

Functions

- Minimize waiting times and empty trips
- Administer various types of loads
- Assign stacker classes
- Lock out and enable load transfer points
- Variable order capture

- Combination orders
- Optimized route planning
- Statistical evaluations
- Transporter administration
- Transport order administration
- Order processing according to priorities

LogOS MFS

The LogOS material flow system controls and coordinates the entire internal material flow. The module administers vehicles and workstations, monitors order execution and production data, and controls peripheral transport technologies.

LogOS LVS

The LogOS warehouse management system is a powerful software package with all of the functions that a modern, powerful system for administering and controlling complex warehouse structures. LogOS LVS can manage any type of storage and simultaneously controls the cost-oriented use of transport equipment. It also controls material flow in production, spare parts supply, and shipping.

Functions

- Warehouse management
- Order administration
- Check-in and check-out
- Inventory level management
- Storage space management
- Commissioning
- Master data administration
- Creation of lists
- Statistics and evaluations
- Inventory

LogOS CM

The LogOS Communication Manager forwards status and faults to technicians on standby via in-house telephone interfaces, or by email and cellular communications. This eliminates the need for continuous monitoring. The responsible employees are informed only in case of an incident. Highly secure data lines allow fast, low-cost remote maintenance. Web app optional for smartphones and tablets.
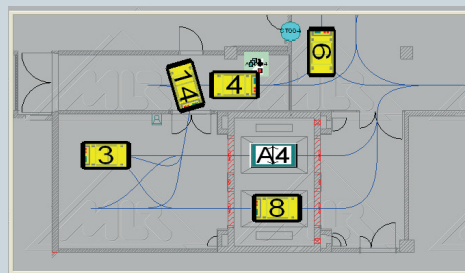
References

Automotive | BMW, Daimler, Ford, Porsche, Volkswagen, Bilstein, Continental-Teves, Deutz, Dräxelmeier, Notox, ZF | **Pharma |** Bayer, Novartis, Pfizer, Jenapharm, Rose, Sanofi-Aventis, Salutas | **Paper, Printing, Packaging |** Gruner & Jahr, Ball Packaging, Glatfelter, Küster Druck, Leopold Verpackungen, Mitsubishi Paper, Weidenhammer | **Production |** 3B (Owens Corning), AC Folien, Aero Pump, Baumgartner, Bellheimer Metall-werke, Braun, Dieffenbacher, Taller, Walter Hartmetall | **Food |** Berglandmilch, Bosch Tiernahrung, Haya, Heinecken, Käserebellen, Merba, Milcafea, Obersteirische Molkerei, Podrávka, Rila Feinkost, Teekanne, Unilever Bestfoods, Wernsing | **Hospitals |** Sidra Medical Center, Karolinska University Hospital, Akershus Universitetssykehus, Ostfold Hospital, Fiona Stanley Hospital, Tan Tock Seng Hospital, Khoo Teck Puat Hospital, Robert-Bosch-Krankenhaus Stuttgart, Klinikum Offenbach, Klinikum Bremen-Mitte, Leopoldina-Krankenhaus Schweinfurt, Universitätskliniken Jena, Gießen, Marburg, Magdeburg, Düsseldorf
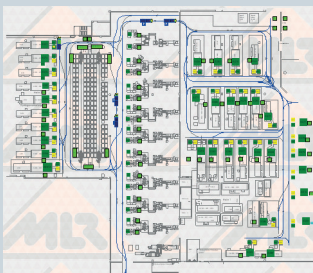
Visualization

Detailed image of graphic interface

Status and order overview in tabular form

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