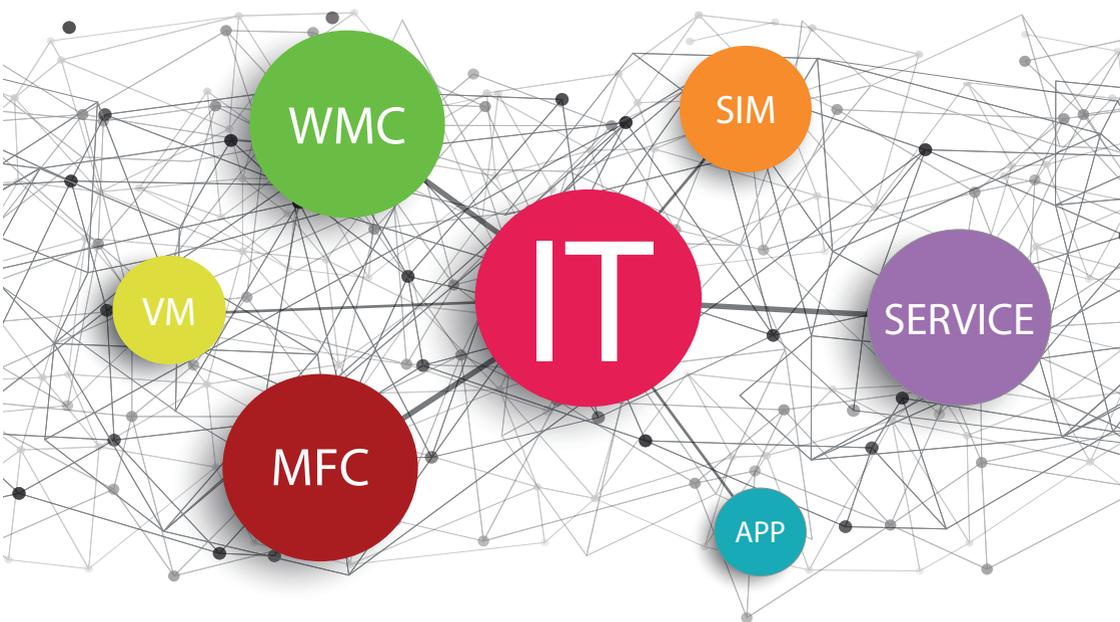




CONTROL AND INFORMATION TECHNOLOGY FOR LOGISTICS



# SITLOG WMC & SITLOG MFC

SOFTWARE FOR INTRALOGISTICS



## ► SITLog WMC – Warehouse Management Control

SITLog WMC - standardized and modularly - controls and manages the entire warehouse workflows, optimizes the logistic operations within the company, creates preconditions for best transparency of internal flows of goods, is applicable in various industries, is customizable to customer specific processes, and thus creates optimal preconditions for implementing market requirements.

# WMC

## Modules and functions:

### Master data

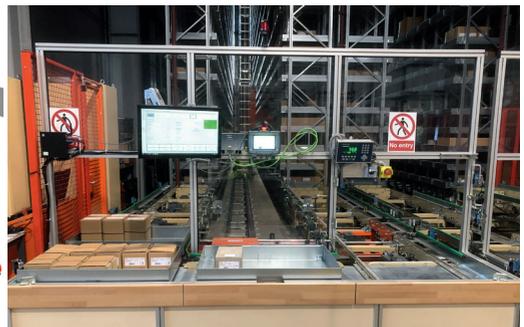
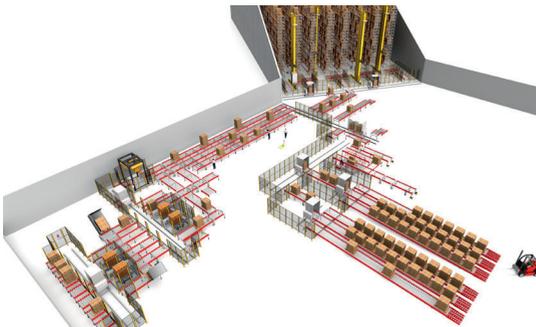
- Clients, loading units and types
- Warehouse sites and areas, storage places and picking areas
- Material master data: Warehouse and fixed place assignment, base quantity units incl. dimensions, rules of replenishment, outer packaging, ABC, article pictures etc.

### Goods receipt

- Import of delivery, order or LU data
- Identification of goods, e.g. by means of bar code, pictures etc.
- Validation at goods receipt, e.g. article, order, batch, production date, best-before date, remaining time, S / N etc.
- Goods receipt and creation of loading units
- Empties management
- QA and blocked stock
- Cross docking

### Control center

- Notifications, data overview, statistics and key performance indices
- Analytic functions including filters, sorting, export and printing
- Control functions: workstation lock, order release, stock lock and reservation, modification of orders' priorities and quantities



## Warehousing and storage policies

- Storage considering ABC, distribution of goods by aisles / levels, fill level, jams and locks, height and width classes, warehouse zoning
  - Displaying storage occupancy as 3D model or in tabular form
  - Reorganization of stock allocation and transfer at defined times or manually
  - Multi-depth storage and compaction of goods
  - Dynamic storage considering widths and lengths
  - Additional features: test runs, locks, manual relocations and outbound transports
- 

## Stock management

- Stock management by client, warehouse site and module, article, order reference, batch, best-before date, production date, S / N, nested and subdivided LUs etc.
  - Replenishment strategies considering minimum stocks and order volumes
  - Stock allocation considering order quantity, tolerances, status of goods, fragmented LUs, FIFO data (such as batch, production date etc.), uniform distribution of orders, clearing of channels, prevention of relocation, demand of ERP (e.g. batch, LU) etc.
- 

## Picking

- Parameterizable workstations: multi-order picking, sequential and parallel picking
  - Integration of pick-to-light, pick-by-point etc.
  - Picking by portable data terminal (MDC) and pick-by-voice
  - Route guidance in manual warehouses
  - Creation of shipping units by volume, sequence, weight etc.
  - Packaging, negative picking and value added services (VAS)
- 

## Unloading and dispatch

- Order management and acknowledgement
  - Automatic and manual release of output
  - Packaging and consolidation of orders
  - Provisioning and delivery by destination, priority, appointment, customer, sequences etc.
  - Stacker guidance system
  - Supply of production
- 

## Inventory

- Permanent inventory, key date and zero-crossing inventory, near-zero inventory
- Creation of inventory reports
- Difference reports

## ► SITLog MFC – Material Flow Control

SITLog MFC manages and controls transport units in consideration of capacities, resources and plant status. It minimizes downtime and risks and always ensures maximal workload of your system.

SITLog MFC is the connecting link between SITLog WMC and PLC.

# MFC

### Modules and functions:

#### General

- Reception and management of transport instructions
- Communication with subordinate controls
- Execution and acknowledgement of transports

#### Conveying technology

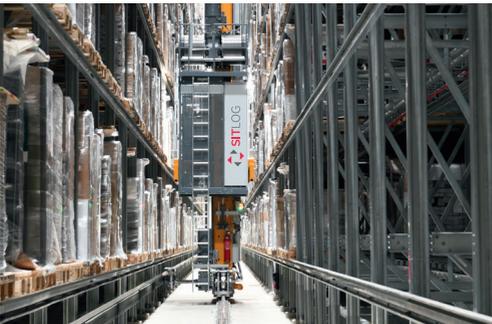
- Routing and pathfinding
- Bypass and failure strategies
- Load balancing and zoning

#### Destinations

- Control of priorities and load
- Adherence with sequences
- Configurable workstation functions

#### Vehicles

- Route optimization
- Multiple vehicles on a single track incl. failure strategies
- Various vehicle types: transfer cars, ASRS, EMS, IFS, lifts, shuttles etc.
- Different load handling devices with various capacities
- Aisle and level change



## Emulation

- Visualizing motion on conveyor systems and stacker cranes
- Use of the most modern emulation and simulation applications
- Virtual tests of workflows during implementation phase
- Requirement tests prior to commissioning
- Identification of optimization potential
- Modelling a test system based on the live system

SIM

VM

## Virtualisation

- Future-proof and resource-saving
- IT server infrastructure and required system software (e.g. VMware)
- High availability and data safety due to redundant components

## SITLog-Mobile-App

- Push notifications on occurring faults, messages or notes
- Direct access to installed cameras (e.g. on stacker cranes)
- Identification of and information on any storage or transport unit by integrated barcode scanner
- Manuals / documentation
- PhotoDoc
- Available for Android and iOS

APP

## Service-Center

- Available 365 days a year, 24 hours a day
- Well-defined response times
- Support by experienced and highly qualified technicians
- Centralized ticket system
- Notification, statistics and evaluation functions
- Efficient management of spare parts

SERVICE

### ► SITLog focuses on these technology platforms

- + Java as platform independent programming language
- + MS SQL Server or Oracle database
- + Microsoft Windows operating system
- + Virtualization of systems using VMware
- + Redundant solutions from market leaders for IT server hardware



Since its founding in 2000 SITLog GmbH has been implementing new construction and modernization projects in intralogistics acting as system integrator of individual systems and components up to complete solutions as general contractor. SITLog is an owner-managed family business with decades of experience in this business. Experienced project managers able to make decisions and highly qualified employees ensure smooth and efficient conception, execution and realization of projects. A flat hierarchy allows SITLog to quickly and individually implement customer specific requests.

## ▶ Excerpt of references



## Connectivity

For SITLog as vendor of the SITLog WMC / MFC intralogistics software, a simple and standardized connectivity to superordinate ERP and WMS systems is one of the most important aspects. We have coupled our software, inter alia, to the following ERP systems in a variety of projects: SAP, Microsoft D365, Navision and Axapta, Infor, and various branch-specific systems (Boxsoft, Intex, RELAG etc.).

We use the following interfaces to couple to superordinate systems: IDoc and RFC, web services, database, file, TCP / IP.

## SITLog GmbH - Control and information technology for logistics

- 📍 Zum Nachtbühl 1 · D-92665 Altenstadt an der Waldnaab
- ☎ +49 9602 944 90 - 0
- ✉ info@sitlog.de



www.sitlog.de