Software for Material Handling Operations
PLCs — WCS — Enhanced WCS — WMS

WE OFFER ROBUST SOFTWARE FOR NEW & UPGRADED FACILITIES:
- Highly stable – Designed for complex operations
- Customized communications
  - ERP/MRP/Host Systems (e.g., SAP, RedPrairie, Legacy
  - Automated material handling systems (ASRS/cranes, unit load/case conveyor, palletizers, etc.)
- Graphical User Interface (GUI)
  - Created for specific operation
  - Common look/feel between PLC and PC programs
  - Real-time inventory tracking and equipment diagnostics
  - Alarm-based prompts
  - Dashboards for performance & reliability reporting

OUR VALUED EXPERIENCE:
- More than 30 years in the Automated Material Handling Industry
- Modernizations of over 500 systems
- More than 25,000 software users worldwide
- Experienced with all major OEMs in the marketplace
- Integration with host or business management systems
- Implementations in LIVE environments to minimize equipment downtime

Standard and customized software for distribution facilities.

Based on more than 30 years experience, Retrotech has developed an extensive software library to augment or fully replace proprietary OEM WCS applications. We take a layered approach to providing solutions that are tailored to manage existing systems and fit your specific business needs. At project completion we provide the source code for all software written specifically for your business, eliminating the risk of losing support for your automated systems in the future.

In addition, we also create custom solutions for new and upgraded facilities to provide sub-system control and management for a wide variety of material handling systems, including: complex conveyors and high-speed case sortation, AGVs, SR machines (of all manufacturers), end-of-aisle controllers for ASRS, palletizers, de-palletizers, stretch wrappers and robotic systems.
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Software Functionality Overview

**Planning**
- Slotting
- Cross Docking
- SKU Allocation
- Workload Balancing
- Route Planning
- Graphical User Interface
- Security Control

**Managing**
- Receiving
- Put-Away
- Product Transfer
- Replenishments
- Host Interface
- Location Control
- Directed Picking via PTV, PTL, RF, etc.

**Traceability**
- Cycle Counting
- Physical Inventory
- Quantity Adjustments
- Audit Trail
- Divert Confirmation
- Carton Tracking
- Scanner Log
- Diagnostic Tools

**Monitoring**
- SKU Metrics
- Scanner Statistics
- Sort Statistics
- Dashboards
- Error and Fault Statistics
- Fulfillment % and Status

**ARCHITECTURE**
- Server based
- Operating Systems
  - Red Hat Linux
  - SUSE Linux
  - HP-UX
- Client Side
  - Windows 7
- Database
  - Oracle
  - PostgreSQL
  - MS SQL Server

**EQUIPMENT CONTROLS**
- ASRS
- ACTIV®
- High-speed case sortation
- Complex conveyors
- Robotic systems
- AGVs
- Palletizers and de-palletizers
- Stretch wrappers
- Transfer cars

**INTEGRATION WITH EQUIPMENT OEMs:**
- Dematic
- HK
- Swisslog
- Daifuku
- Harnischfeger
- Eaton-Kenway
- Clark
- Litton
  ... and many others

**INTEGRATION WITH SOFTWARE OEMs:**
- SAP
- Oracle
- JDA/RedPrairie
- Manhattan Associates
  ... and other Commercial/Legacy Systems

**ABOUT RETROTECH**

With a global presence spanning 22+ countries, Retrotech is a leader in automating warehouse and distribution center order fulfillment and storage systems to become more productive, flexible and reliable.

Retrotech, which is celebrating its 30th anniversary in 2015, provides exceptional engineering, project management and technical product and software expertise combined with unparalleled design, implementation and installation of material handling and order fulfillment/e-commerce systems. Retrotech project experience includes: green field systems and modernizations of existing automated material handling systems. Specific experience includes pallet and unit load ASRS, as well as case, tote and tray handling ASRS, WMS/WCS software, goods-to-person systems, cross-dock/consolidation processes, buffering systems, pallet and case conveying and sortation equipment, simulation/emulation capabilities, and 24/7 customer service availability.

Retrotech Inc. is a wholly owned subsidiary of Savoye and a member of Legris Industries Group.

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