



SI | N T H E S I S TM

Software Suite

SOFTWARE PLATFORM

NETWORK

- Scalable – single to large PC networks
- Ethernet 10/100 base T-network

OPERATING SYSTEM

- Microsoft Windows 2000
- Microsoft Windows XP or higher

DEVELOPMENT ENVIRONMENT

- Microsoft Visual Studio.net
- Microsoft Visual C/C++

DATABASE

- ODBC compliant with the following databases
 - IBM DB2 UDB v.8.1 or higher
 - Microsoft SQL Server 2000 and higher

LEGACY SYSTEM COMPATIBILITY

- Interface to all WMS and ERP Systems
- File transfers via FTP or Sockets

APPLICATIONS SUPPORT

- Comprehensive support programs
- 24/7/365 hotline
- Dial-up remote diagnostics

SYNTHESIS SERVICE AND SUPPORT 24/7/365

SI understands that the success of your business depends on the continuing performance of the systems we build. Therefore, we are committed to providing the highest level of support possible. As part of that commitment, we ensure that the most qualified people are available to answer your questions and assist you during emergencies—whenever and wherever the need arises. Our U.S. base means less travel time—which translates into less downtime for you!

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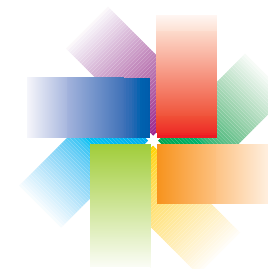


The Order Fulfillment Systems Expert™

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*See new possibilities in
order fulfillment emerge.™*

New possibilities

New possibilities are emerging through **SINTHESIS™**, the intelligent, order fulfillment software suite from SI Systems. Imagine, picking accuracy up to 99.95%. Throughput increases up to 70%. Return volumes cut by 80%. It's not just possible. It's happening—with new order fulfillment solutions designed to complement enterprise resource planning systems. These solutions embrace lean processes and just-in-time performance to optimize supply-chain efficiencies.

Comprised of eight software groups with 26 extendible software modules, **SINTHESIS** continuously assesses real-time needs and deploys solutions to accurately facilitate and optimize planning, warehousing, inventory, routing, order fulfillment, and distribution processes.

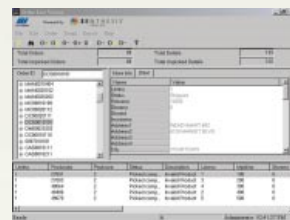
In installations worldwide, **SINTHESIS** integrates intelligent software programming with innovative conveyance technology, to perform high-volume, full-case or split-case, item-oriented distribution smarter, faster, leaner. It's fulfillment beyond your every expectation, made possible through **SINTHESIS** from SI Systems, the order fulfillment experts.

emerge™

Information Administration Modules

Effectively manage distribution center information for better decision-making.

- WMS/Legacy System Interface
- Information Manager
- Information Access Director



This core group of data collection and analysis modules provides cohesive, centralized management of order, inventory, performance, and status data through smooth, simply administered interfaces to the distribution center's Legacy or Warehouse Management System (WMS). A single common file server with SQL or DB2 databases assures that all applications work compatibly. A reports menu offers statistics-rich information—monitoring inventory levels, product volume history, order fulfillment outcomes, personnel productivity, shortfall conditions, and other information to effectively manage and optimize order fulfillment and distribution flow.

Resource Planning Modules

Align and balance human and physical resources with processes.

- Distribution System Optimizer
- Distribution System Wizard
- Manpower Planner
- Diagnostics and Alerts Director



Comprehensive reporting, advisories, and alerts guide and prompt operations supervisors to plan, align, assign, and adjust resources. Maximize item picking efficiency and minimize labor costs by using advance order data and real-time information. Improve operations by storing SKUs in the most effective locations. Use historical personnel data to assign best-suited tasks to individual performance capabilities. Key metrics highlight activities while diagnostic software assesses and alerts operations to potential compromises to order fulfillment productivity and throughput.

Product and Inventory Maintenance Modules

Continuously manage product and inventory to optimize order throughput.

- Product Analyzer
- Receiving and Putaway Director
- Proactive Replenishment Director

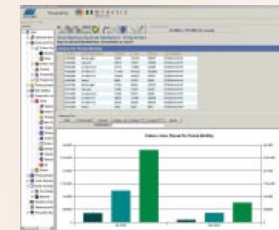


Product parameters and movement histories are examined and matched to inventory storage capacities. Proprietary software applications identify and assign optimum locations for items in reserve inventory, forward picking zones, and automated dispensers to optimize system throughput. Proactive replenishment of fast-moving products virtually eliminates order shortfalls due to stockouts.

Order Planning Modules

Sequence order flow to optimize throughput.

- Order Analyzer
- Order Scheduler
- Order Balancer

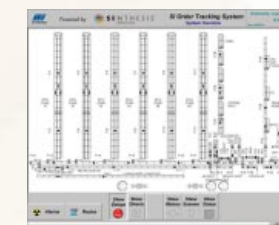


Order content is analyzed, fulfillment sequence is balanced and scheduled, and optimum routes are selected to produce ideal flow from receipt through shipping. The order planning process is coordinated to maximize productivity and ensure on-time delivery while minimizing manpower and shortages. High-priority and rush orders are expedited without disrupting the smooth flow of scheduled orders.

Order Routing Modules

Launch orders to ensure ideal routes and schedules. Track orders in real-time.

- Order Initiator
- Order Tracker
- Sortation Director

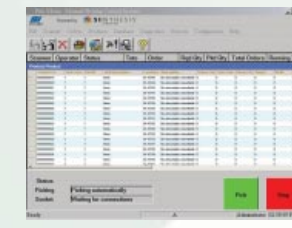


Proprietary algorithms select the next order to inject into the fulfillment process. Each order is tracked along the conveyance and fulfillment paths, and movement is maintained at the proper pace to facilitate uninterrupted flow. Order routing is supervised through picking, sorting, quality control, packing, manifesting, and shipping.

Manual Order Fulfillment Modules

Coordinate manual picking tasks to maximize worker productivity.

- Manual Pick List Director
- Pick-to-Light Director
- Computer-Managed Picking Director



Direct manual picking tasks for pick-to-paper, pick-to-light, RF-directed picking, and other computer-directed picking paths. Sequencing of items to be picked is pre-determined to assure maximum picker productivity. Confirmation of correct picks or variances is established and corrective actions are directed as warranted.

Automated Order Fulfillment Modules

Direct automated picking strategies to maximize productivity and throughput.

- Dispen-SI-Matic Picking Director
- ASRS Director/Gantry Picking Director
- Carousel Picking Director

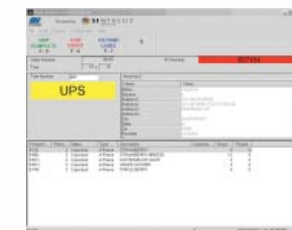


Direct high-speed, high-volume, automated picking from Dispen-SI-Matic, automated storage and retrieval systems, horizontal and vertical carousels, and gantry robots. Inventories and product locations in each machine influence the optimum picking strategy to maximize order fulfillment rates. Correct picks are verified and shortages are reported and rectified at error-correction stations.

Order Completion Modules

Assure order accuracy and compliance with quality control measures.

- Quality Assurance Director
- Pack Station Director
- Shipping and Manifesting Director
- Returns Director



Software directs each step of quality assurance, packing, manifesting, and shipping to assure order accuracy and that all customer requirements are met. Returns are processed promptly and efficiently to ensure rapid restocking and timely customer credit.