



**S I** | N T H E S I S <sup>TM</sup>  
Software Suite

## Order Routing Modules

*See new possibilities in order fulfillment emerge.<sup>TM</sup>*



Optimum routing is planned and managed with the **SINTHESIS<sup>TM</sup>** Order Routing Modules, aligning orders with the most appropriate conveyance and fulfillment paths to facilitate uninterrupted flow. Proprietary algorithms select the next order to inject into the fulfillment process. Each order is tracked and supervised along its route through picking, sorting, quality control, packing, manifesting, and shipping. Integrated with a full line of extendible modules, **SINTHESIS** creates dynamic order fulfillment processes, from order receipt through order shipment, for distribution centers that provide full-case and split-case, item-oriented fulfillment. And each of these modules can be further customized to deliver even greater productivity in your particular application.

### *Order Routing Modules*

- Order Initiator
- Order Tracker
- Sortation Director

**SINTHESIS is the software component of total system solutions for order fulfillment and distribution from SI Systems. With over two dozen innovative, extendible software modules, SINTHESIS software complements enterprise planning systems to accurately facilitate and optimize planning, warehousing, inventory, routing, order fulfillment, and distribution processes for sophisticated, high-volume distribution centers performing full- or split-case picking operations.**

## Order Initiator

Unique, proven software algorithms select and initiate next orders. Initiator software determines most efficient fulfillment process steps. Orders are released for fulfillment and “married” to selected totes or conveyor belt domains. All **SINTHESIS** software modules servicing orders are synchronized.

- Ensures that order sequence priorities are maintained
- Pre-determines fulfillment events
- Time-stamps order initiation
- Holds orders, pending replenishment of forward picking area stock
- Allocates orders to one or more totes based on “cubing” algorithms
- Prints documents that accompany an order

## Order Tracker

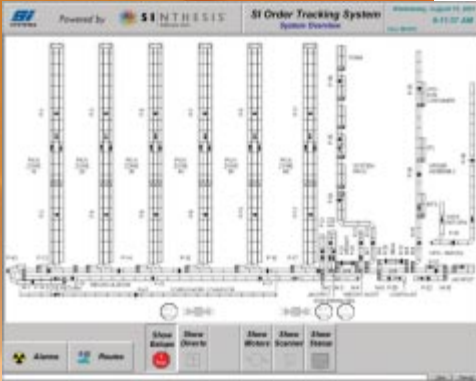
Tracks and routes each order throughout the fulfillment process. Every event is captured, time-stamped, and stored in the order database. Performance statistics are calculated. Complete order event histories are maintained and archived.

- Maintains a single interface for all order tracking and routing functions
- Ensures that orders progress to picking areas in proper sequence
- Directs incomplete orders to error correction stations
- Manages the queuing and release of empty totes or cartons

## Sortation Director

Assures accurate sortation of items, cartons, parcels, or totes on all types of automated sorter systems. Supports automatic or manual induction of product to be sorted and ensures delivery to the correct sort destination.

- Matches product identity, via barcode or RF tags, to the order destination provided by host computer
- Tracks the movement of each item and dispatches sort instructions
- Re-circulates or re-routes packages when sort location volumes reach maximum capacity
- Provides operators with performance and fault statistics and alerts



### SINTHESIS SERVICE AND SUPPORT

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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