



Warehouse Execution System

Softeon WES

- Real-Time Visibility to Throughput and Bottlenecks
- Automated Order Release Based on Priorities and Service Commitments
- Wave, Waveless or Duel Order Release Processing
- Optimized, Configurable Optimization by Picking Area/Technology
- Advanced Labor Planning Using Simulation
- Direct Management of Picking Sub-Systems

Benefits

- **Improved Labor Productivity by 15-30%**
- **Reduction in Human Decision-Making, Freeing Up Resources**
- **Reduction in Overtime**
- **Improved Material Handling System Throughput and Level Loading**
- **Improved Overall Facility Throughput and Service Levels**

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Softeon WES customer experience shows the benefits are very real and that the system can deliver significant value in highly automated, manual, or hybrid environments.

Taking Order Fulfillment to New Levels of Performance and Cost Management.

Softeon's Warehouse Execution System (WES) is a powerful tool to enable companies to meet customer demand and service level commitments at the least possible cost in distribution. After two decades of incremental improvements in Warehouse Management System capabilities, Softeon's WES delivers a step-change in the market, with a solution that works seamlessly with Softeon's own WMS, with any existing or legacy WMS, or as a standalone solution. Softeon WES addresses many common problems that affect distribution center cost, throughput and service performance.

Those challenges include:

- Lack of Visibility to Real-time Throughput and Order Execution
- Labor Planning Challenges
- Right Resources Not in the Right Place When Needed
- Time/Cost/Approach of Adding Technologies (e.g., Picking Sub-Systems)
- Sub-Optimal Picking Execution
- Difficulty Meeting Carrier Cut-Off Times/Ensuring SLAs
- Inconsistent Materials Handling Equipment Utilization
- WMS Reliance on Human Decision-Making

Softeon's breakthrough WES solves all of these and many other distribution challenges through a powerful set of integrated capabilities that can be flexibly deployed in almost any combination.

Those capabilities include:

- A real-time activity and condition monitor, which constantly scans the DC to track events and status across processing areas
- Intelligent automated order release engine that considers capacities and work requirements by DC processing areas, including dependent activities (i.e., one stage is dependent on feeds from another stage)
- Waveless and wave-based picking, working independently or in tandem, such as waveless picking for ecommerce orders and wave-based processing for B2B/store replenishment orders
- Automated order release based on order priority and carrier cut-off times and/or dock door appointment schedules without the need for a wave planner
- Advanced labor resource planning using simulation techniques that use actual orders and forecasted order patterns to recommend resources allocation and identify areas with too much or too little labor capacity
- Dynamic resource allocation that suggests or automatically directs labor to the required processing areas as a shift proceeds
- Optimized, configurable execution of picking work across picking types and technologies
- Direct, optimized control of a variety of picking sub-systems, from Voice to mobile robots and much more (see back page)

All these capabilities allow shippers to significantly reduce costs, consistently meet service level commitments, and substantially reduce the gap between theoretic facility and process throughput and the actual throughput.

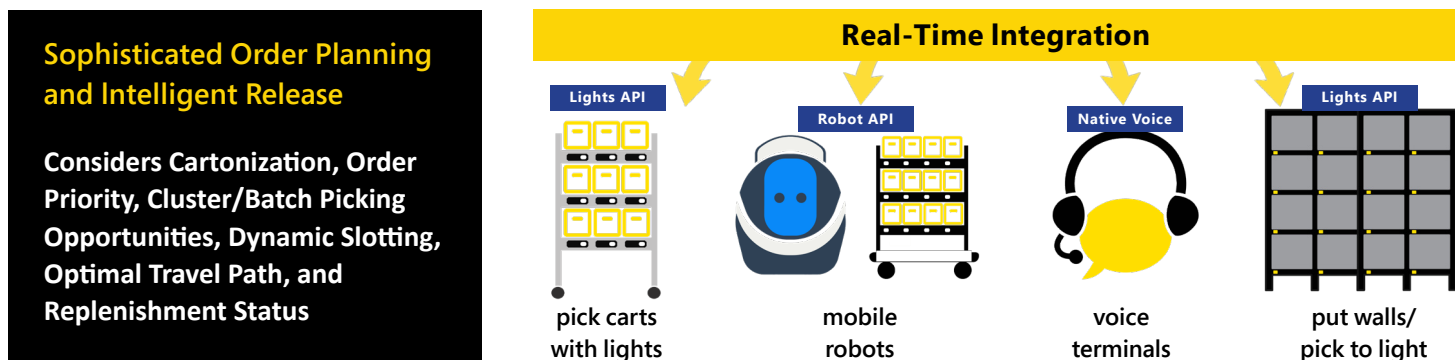
A New Era of the Warehouse Management and Execution System

Softeon’s powerful WES is built on the same service Oriented Architecture (SOA) technology platform that powers our WMS and full supply chain software suite. This means that the Softeon WES can include not only WES-specific capabilities, such as automation load-leveling, automated order release and advance labor scheduling, but also more WMS-based functionality such as cartonization, slotting optimization, order packing, parcel shipping, and much more.

Direct Management and Optimization of Picking Sub-Systems

To combat rising fulfillment costs and enhance throughput, many companies are considering implementation of a variety of picking systems, from sophisticated automation to mid-range technologies such as Voice, smart carts, put walls, pick-to-light, mobile robots and more.

Each of these picking technologies has its own advantages and applications/use cases. With Softeon WES (*see graphic below*), you can easily and quickly add these technologies where appropriate with out-of-the-box software support. You can also mix and match technologies, such as Voice and smart carts, or lights and mobile robots, in almost any combination.



Implementation times for these systems usually go from months (with other WMS vendors) to just weeks - or even days. What is even more beneficial is the ability to test each technology to see the results and benefits before fully committing, such as with robots, Voice, or a single put wall to start.

Softeon’s WES extends our existing picking optimization capabilities with additional smarts specific to each type of sub-system. For example, some orders are better suited to go through put walls than others in the pool. Softeon WES determines how to optimally direct orders to put wall units or any other picking method to maximize efficiencies. Or consider a mobile robot that helps to manage order exceptions, such as a short pick, meeting a picker at the location for a SKU needing replenishment and then moving automatically to the packing area with the missing SKUs for order completion and shipping.

What’s more, because this system eliminates the need for third-party software to manage these sub-systems, hardware costs are often much lower than the standard – often by more than 50%. That means Softeon customers can either achieve a higher ROI, or invest in more of this beneficial technology that was previously above their budget range with standard approaches.

Softeon WES is a Game Changer

Softeon’s Warehouse Execution System is a game-changing solution in the warehouse software market, proving powerful capabilities to optimize and synchronize order fulfillment, delivering substantial improvements in key metrics such as fulfillment costs, facility throughput, customer service levels and more.

In addition, Softeon WES provides a highly flexible platform for driving continuous improvement over time, supporting rapid changes to processes and supporting technologies, “future proofing” your operations to be able to rapidly respond to changes, opportunities and new requirements. Softeon uniquely delivers these powerful results with WES for automated, non-automated, and hybrid environments.

Contact us to discuss opportunities in your operation for Softeon WES: contact@softeon.com 703.793.0005