



## **STEP 6**

# **TURNAROUND OUTBOUND HANDLING PERFORMANCE**

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Packing, loading, staging and shipping are the equivalent of the “last mile” in flawless fulfilment. In today’s hyper-competitive marketplace, these functionalities are key to turning around warehouse and distribution centres to streamline delivery, enhance competitive advantage and increase customer satisfaction and loyalty. Whether you’re shipping to a manufacturer that needs raw materials for just-in-time production or a retail customer waiting for delivery of her holiday gifts, the importance of timely, accurate deliveries cannot be overstated.



### PACKING, STAGING, LOADING AND SHIPPING CHALLENGES

When real-time information related to these crucial last steps in the order fulfilment process is lacking, you face a number of potential complications. These include delays in order turnaround time and shipping due to a number of issues, such as inaccurate product and customer data, inefficient packing and loading dock operations, and poor carrier and container utilization. All too often, the result are pain points that include higher shipping costs, reduced customer service and satisfaction, an increased number of returns and, ultimately, lost sales and revenues.

## PACKING AND SHIPPING POINTS OF PAIN



### SLUGGISH TURNAROUND

In last-mile operations, when cross checking to confirm that the right items are in the shipment must be done manually, turnaround times are slower and can cause significant shipping delays and lead to carrier detention charges.



### CHANGE RESISTANCE

Manual processes often result in an inability to dynamically modify shipping orders to accommodate last minute changes and emergency orders from customers.



### IMPACTING PACKING

In the packing functionality, the lack of real-time pre-packing information can easily result in orders that are incomplete, inaccurate and packed in the wrong size cartons or containers.



### INEFFICIENCY RIPPLES

Inefficiencies in processing while paperwork and data are manually entered into the system cause delays and errors in manifest creation and shipping that can easily ripple into customer dissatisfaction.

## PACKING, LOADING AND SHIPPING MOBILE AND DATA CAPTURE SOLUTIONS

When real-time information in the warehouse packing function is integrated tightly into your staging and delivery functions, you can realize major benefits in your shipping and delivery operations. Mobility can streamline these final stages of order fulfilment, ensuring that the right order contains the right products, and is shipped to the right customer at the right time via the right method of shipment. It provides a final cross check to ensure that the order is correct, properly addressed and scheduled for the proper shipment method, complete with on-the-spot printing of all necessary paperwork. In addition, in the event that any items that were back-ordered have now arrived in the warehouse, the packer can receive notification, enabling full completion of the shipment prior to leaving the facility. Finally, fixed printers or heavier duty automatic label machines can be used for ensuring onwards visibility through the supply chain.

Coordination with the dispatch function ensures that the shipment is properly staged for loading on the right truck in the right order. Packing material costs can also be controlled. Your business system can automatically determine the right size carton for the shipment, removing guesswork and eliminating the use of excess amounts

of filling materials. Worker productivity is increased as the same staff can ship more orders in a day. Shipping and delivery times are improved, as is vehicle utilization as trucks are fully loaded with the right contents. Driver productivity is also improved thanks to accurate order staging and loading that reduces dwell time at each stop. And because more customers are likely to receive shipments within the promised time frame, customer satisfaction and retention are maximized.

### YARD MANAGEMENT

Yard Management Systems are designed to optimize yard operations, especially for yards that require fast throughput. This is accomplished through faster gate transactions, efficient parking assignments, fewer yard moves and greater door turns. A scheduling system is used for planning expected arrivals and departures whilst an execution system responds to unplanned events based on business rules that are configured for your particular operations. The combination of effective planning and exception handling allows the Yard Management System to direct the right trailer to the right door at the right time.

## LEADING SOLUTION COMPONENTS

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### **YARD MANAGEMENT SYSTEM (YMS)**

A complete solution including yard management and visibility server software, RFID sensors and tags that leverages real-time location information to optimise yard management.



### **ZT400 SERIES INDUSTRIAL PRINTERS**

The ZT400 Series is designed for durable, reliable printing in tough environments. Loaded with advanced features, RFID capabilities and Zebra's Link-OS environment, the ZT400 is ideal for the receiving dock.



### **MK4000 MICRO KIOSK**

With the largest and highest resolution screen, this Micro Kiosk supports the richest applications for employees without consuming valuable surface area at packing stations.



### **G-SERIES DESKTOP PRINTER**

Meet your labelling needs with these versatile and compact desktop label printers. Space saving, feature-rich and user friendly, these thermal label printers are a smart choice.



### **DS9808 HYBRID PRESENTATION IMAGER**

Hybrid design delivers dynamic, high-performance hands-free and handheld data capture of 1D/ 2D/PDF417 barcodes, images and signatures.



### **ZE500 PRINT ENGINES**

The next generation of Zebra print engines designed for easy integration, maintenance and operation in automated labelling applications.



### **MC9500-K**

Raises the bar for premier rugged mobile computing, incorporating breakthrough ergonomic design and features, perfect for use in a warehouse, at the dock, in the yard and out on the route.

## **WAREHOUSE MOBILITY: THE FOUNDATION OF FLAWLESS FULFILMENT**

The warehouse is at the very heart of your business operations. Poorly managed warehouses can actually become cost prohibitive, significantly impacting the cost of doing business—and general profitability. Through mobility, real-time warehouse data can be leveraged to enable a new level of information collaboration throughout the enterprise, and most importantly, flawless fulfilment.

The value of mobility in the warehouse function is clear. You are able to automate and streamline processes, enhance flexibility to respond to customer demand, and better manage the risks of managing a lean warehouse. Processes across the warehouse are streamlined, reducing cycle times. Worker productivity is increased, reducing the cost of labour across the warehouse operation. Orders are fulfilled more accurately, improving customer service and enhancing customer satisfaction and loyalty. The cost of sales attributed to movement through the warehouse is reduced. The right set of data is available in the right place at the right time to enable the most efficient next action, and the most effective business decisions.

Bottom line, leveraging mobility in the warehouse and beyond can yield highly beneficial results, including reduced costs, improved quality, better customer service, higher margins and greater profitability—delivering real business advantage.

## **COMPLETE WAREHOUSE SOLUTIONS FROM ZEBRA**

When it comes to warehouse communications and mobile data capture requirements, Zebra Technologies delivers. Our complete array of rugged industrial-strength mobile devices is designed for the rigors of everyday warehouse use, including barcode scanners and handheld, vehicle mounted and wearable mobile computers capable of voice-directed, multi-modal and text-based applications. In addition, our award-winning next generation industrial wireless networking equipment, supporting services and software management tools are built to overcome the unique challenges of warehouse and DC mobility. All this when coupled with Zebra's fixed and mobile printer portfolio delivers visibility not just in the warehouse but across the entire supply chain. Zebra Technologies's deep knowledge and experience in equipping workers across the supply chain with reliable, business-critical two-way radio communications systems.

Zebra Technologies also offers the right experience, the right partners and the right services. As a global leader in the manufacture of all things wireless and mobile for the warehouse, we offer an unparalleled depth of proven innovation for this market. Through countless deployments in some of the world's largest enterprises, including our own warehouse and manufacturing operations, we offer a wealth of understanding of the needs in the warehouse and beyond. Zebra is uniquely positioned to deliver a broad spectrum of professional and consulting services to further automate your warehouse operation and achieve an attractive ROI. In addition, our robust global partner channel brings the development and integration services you need right to your door, as well as leading applications and complementary products.

Most of all, by selecting and deploying Zebra Technologies solutions and supporting services, you will achieve lean technically enabled warehouse operations.

FOR MORE INFORMATION, VISIT [WWW.FUTUREWAREHOUSES.COM](http://WWW.FUTUREWAREHOUSES.COM)



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