



## Case Study / FMCG - Food Processing / Delimax, a.s.

### SmartStock.WMS Implementation In Delimax, a.s.

#### *Solution Technology*

#### **Mobile Data Terminals PSC FALCON 335**



#### **Printers Zebra 105SL**



#### **Wireless Network Proxim**



Delimax, a.s. is a major food processing facility which processes fish and produces perishable fish and fragile salad products in the Czech Republic. These products are currently available locally in retail food stores, and after upcoming, planned expansion, will soon be available in many neighbouring countries.

#### **Preliminary Situation**

In a warehouse with extremely perishable goods, response time to customer orders is a critical factor to maintain the freshness of the products. The primary factor in Delimax's business success is that the company is always striving for efficiency, productivity and cost-effectiveness. The short expiration dates of these products require precise production planning and a detailed overview of warehouse inventory. Based upon these requirements, Delimax decided to implement a new, yet proven warehouse management system utilizing mobile computers and barcodes which operating in real-time. They required accurate and easily accessible data regarding day-to-day and hour-to-hour warehouse operations.

#### **System Implementation**

Delimax selected system integrator and technology supplier Barco, Ltd., with its SmartStock.WMS solution. SmartStock.WMS is a warehouse management system based on barcode technology, mobile computers and a wireless WiFi network. For fast, accurate, customizable real time automatic data collection the solution required deploying mobile computers in a wireless infrastructure. The PSC Falcon 335 mobile computer with an integrated bar code scanner was selected for this application because of its open standards, powerful applications, and ease of use, allowing seamless integration into the supply chain systems. Other system components include ZEBRA 105 SL bar code printers and PROXIM wireless network infrastructure. System installation was implemented in 2004 and after few months of testing, the system was activated at the end of 2004.



#### **Solution Benefits**

Accurate and verifiable data on the status of current warehouse activities, including the tracking of pallets, cases, and expiration dates provided significant improvements in the warehouse. Customer orders are now promptly imported from the ERP system into SmartStock.WMS. The system automatically reserves the correct products for each order.

This complicated process takes into account many parameters, including warehouse data, customer requests regarding expiration dates, possible product substitution, requests on FIFO, etc, and runs automatically and seamlessly in the background. SmartStock.WMS ensures that the goods are picked accurately and efficiently, according to adjusted and required parameters. The SmartStock.WMS system continuously compares incoming orders with warehouse inventory and offers easy-to-understand tools for precise production planning. In this area significant benefits were achieved by this installation and nowadays there are no disproportions between production and shipping.

Further important benefits were achieved by minimization of mistakes in all warehouse operations, goods mistakes reduction, automatic shipping pallet label printing according to UCC/EAN 128 standards particular for each customer, detail recording of produced goods, cycle counting optimization and goods loss minimization.



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"The most important benefit of deploying the WMS system is the availability of information about the real time warehouse status which for us as a FMCG producer was the main problem. This information significantly helped us to improve operational production planning and organisation of warehouse operations. When the WMS system was deployed the picking operation was improved and the amount of errors and mistakes eliminated. Thus in final consequence means for us also important financial savings."

*Ing. Pavel Hradil,  
IT Supervisor,  
Delimax, a.s.*

The return on investment of SmartStock.WMS implementation project at Delimax, a.s. is estimated on 12 to 18 months.

### About SmartStock.WMS

[SmartStock.WMS](#) is a complete "paper-less" solution for on-line warehouse management, operating as the extension of inventory control in ERP systems. The system is based on the unique identification of goods, handling units, and warehouse locations using bar codes. SmartStock.WMS was developed exclusively for mobile computers with bar code scanners which operate in a wireless WiFi network. [SmartStock.WMS](#) optimizes operations and worker deployment, while controlling operations accuracy through the use of bar codes. This increases productivity and minimizes errors in the warehouse. Instructions for warehouse transactions are received by workers directly on their mobile computer.

Designed on the Microsoft .NET platform, [SmartStock.WMS](#) has a unique system architecture which provides quick implementation and system flexibility when working with an existing ERP system. For more information, please visit <http://www.smartstock.biz>

### About Barco

Barco is a major solution provider of bar code applications and wireless technologies for streamlining business processes. We specialize in solutions for online warehouse management utilizing mobile computers and wireless infrastructure. Our premier product is SmartStock.WMS, an on-line Warehouse Management System. Barco was established in 1993. Its stock capital is 2 000 000 CZK. Barco is a holder of certificate ISO 9001:2001. For more information, visit <http://www.barco.cz/>



### Projects Highlights:

#### Project Objectives:

- Real-time information about warehouse
- Accurate picking and prompt and flexible response to customer orders
- Production planning improvement

#### Solution:

- Online data collection within wireless WiFi network
- Automatic label generation and printing for shipping pallets according to UCC/EAN 128 standards.
- Integration into ERP system

#### Solution Benefits:

- Real-time, prompt and precise information about warehouse operations and inventory
- No discrepancies between the production and shipping
- Improvement of the production planning
- Accurate and in-time picking
- Decreasing errors in warehouse operations such as product mis-pulls

The solution was provided by Barco. For more information, please contact:



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