THE LOGISTICS AUTOMATION
STANDARD

SOLVO.WMS
for retail and wholesale distribution

Solvo.WMS –
precision management technologies

Your obstacles

- Wide and constantly growing assortment – over 10,000 unique items
- Complex tracking by expiration date, batch, lot, weight parameters
- Load type diversity – from large SKU items (palletized) to small units
- Large quantity and diversity of orders (from 1000 orders per day)
- Timely order fulfillment
- Chaotic picking zone replenishment with delays
- Operator error during registration of warehoused units

Our solution : **SOLVO.WMS**

for retail and wholesale distribution

> To ensure success for companies working in the distribution field, the most important factors to consider are the rate of cargo flow along the logistics chain and the reduction of losses related to load handling and storage. An increase in performance is achieved by implementing modern technology and software, which make it possible to effectively manage technological operations and personnel at the warehouse. Our company needed a solution that would optimize the warehouse complex and make it possible to control technological operations at the warehouse in real time, which is why we selected Solvo.WMS for distribution and retail warehouses.
>
> **Elena Gorislavets,**
> *Logistics Director, "CentrObuv"*

Taking into account the specificities of distribution and retail, some of the most notable features of the system include:

OVERVIEW

- Automation of all major operations at the warehouse: starting from the moment goods arrive at the warehouse to the time they are shipped to the client using principles of address-based storage, automatic cargo identification, remote personnel and equipment management based on configured rules, all in real time.
- Effectively maintain lot records to unify goods by specific characteristics (expiration date, production date, client ID, serial number etc.) and then restore the exact lot contents during shipping.

RECEIVING

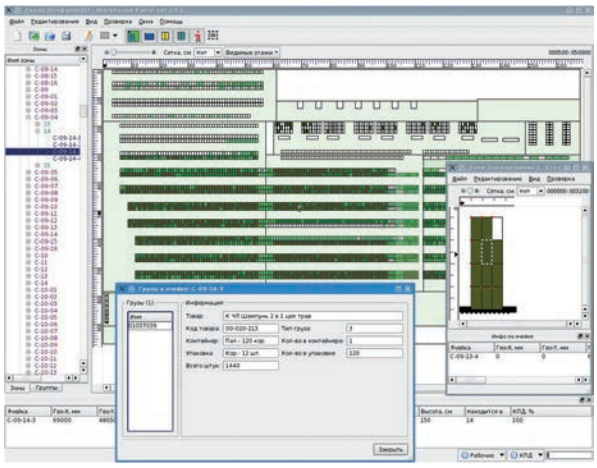
- Automate receiving of ASN-loads during inter-warehouse transfers, processing of returns.

PUTAWAY

- Take into account the mass-dimensional characteristics of goods, velocity; various methods for grouping – by assortment, storage conditions etc.

STORAGE

- Effectively manage the warehouse while taking into account the application of various storage technologies: narrow-aisle and wide-aisle racks, shelf storage, gravitational racks, conventional racks, stacks, "lights-off" warehouses and many others.
- Optimize the storage of goods by dividing warehouse zones in such a manner that space is utilized more efficiently– zoning.



Projects Solvo

2013 | 2012 | 2012 | 2012 | 2011

- Avoid work stoppages at the warehouse when performing inventory (the system supports multiple methods for inventory)

- Manage the warehouse using specially designed means of visualization– graphical warehouse topology editor, which offers a top down view of the warehouse and all of its processes as well as adjust warehouse operations in real time.

PICKING

- Automation of the latest picking technology:
  - **"Multipicking"** – the picker can simultaneously assemble several pick lists for various orders;
  - **"Put-to-Store"** – perform general picking for various orders during wave assembly;
  - **"Dynamic picking channels"** – manage inventory in picking zones while taking into account the required batches in automatic mode.

- Integrate with automatic conveyor lines when picking small-piece items from storage zones.

- Perform picks by separate orders as well as in waves.

- Account for various SKU characteristics during picking: expiration dates, lots, batch numbers, item status etc.

- Automate inspection of assembled orders while taking into account barcodes, weight etc.

ACCOUNTABILITY

- Create reports, which can be printed out or sent to the company's corporate system.

- Integrate with host enterprise information systems.

- Collect, process and present statistical and analytical data regarding personnel, usage of warehouse space, volume and rate of cargo flows.

INTEGRATION EXAMPLE:

When the software was being developed, special attention was paid to the issue of integrating the system with host enterprise information systems. The Solvo.WMS warehouse management system at the "CentrObuv" warehouse uses the PL/SQL process via the gateway to integrate it with the IS Domino host system developed by the "SoftWest" company.

Elena Gorislavets, ,
Logistics Director, "CentrObuv"

REAL-TIME CONTROL

- The scale of system implementation can vary depending on customer demand from the basic level – the management system based on paper task-lists – to the fully-functional management system that operates in real time using radio terminals and barcode technology, equipment positioning systems, and other means of automation.

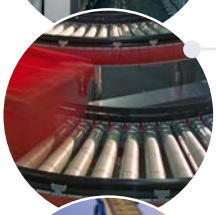
SOLVO works closely with some of the world's leading and most recognized companies in providing clients with the latest and most advanced data terminals:

DATALOGIC. Honeywell motorola

EQUIPMENT INTEGRATION

FULLY-AUTOMATED WAREHOUSES

ACTIW SSI SCHAFER ATTEC FOOD TECHNOLOGY ITEC FOOD TECHNOLOGY



CAROUSELS

SSI SCHAFER FABS LOGISTIC

CONVEYORS

SSI SCHAFER MOVING KNAPP

RADIO-SHUTTLES

BT

2011 2010 2008 2008 2007

SMBO OCS DISTRIBUTION Vitek

SUCCESS STORIES

"CentrObuv"

Today, the footwear chain, CentrObuv, is one of the biggest specialized retail networks with more than 200 stores across Russia.

IMPLEMENTATION OBJECTIVE AND SYSTEM SELECTION

The company was in need of a solution that would optimize warehouse management and control technological processes at the warehouse in real time. The demand for a management system was also driven by the rapid turnover growth of the company, increase in warehouse space, the need to quickly react store orders, and the wish to introduce substocking by size in the stores without increasing the amount of man-hours.

> "The criteria for selecting a system apart from resolving our company's key issues included the stellar implementation track record in Russia. The system must be tailored and adapted to the specifics of the Russian market while the large number of successful projects was an additional guarantee regarding the vendor company's reliability and the rapid return on investment. No less important was the availability of required functionality, flexibility and configurability of the system as well as the ability to implement a "turnkey" project along with the guarantee of completing implementation within a fairly strict timeline. SOLVO not only fully met these demands but also has a tried-and-true implementation method, which is why it is the leader by the number of completed projects on the Russian market."
>
> **Elena Gorislavets,**
> *Logistics Director, "CentrObuv"*

Warehouse specifications

The CentrObuv warehouse is located in the Moscow region and is used for storing and distributing seasonal goods between company stores. The given warehouse complex handles large cargo items – cartons as well as unit items and individual double cartons, where individual pairs of shoes are stored. The warehouse is equipped with shelf racks for storing palletized as well as individual goods items. Therefore, the warehouse complex is comprised of two warehouses – carton and unit (pairs). The carton warehouse is a territory with an area of more than 10,000 m2, where 7,000 pallets can be stored in the racks, while the number of items stored exceeds 800 SKU's.

RESULTS

Solvo.WMS took upon itself the main share of planning and decision making, which led to a drop in labor costs by 1.5 times and raised the rate of order threefold (using existing labor resources).

Moreover, the implementation of Solvo.WMS made it possible to optimize the usage of space, enable full control over cargo flows, accelerate cargo flow, rationally use cargo handling equipment, reduce transportation costs, improve personnel management and overall performance, reduce the time spent performing warehouse operations, and improve data exchange between all participating sides of the warehousing process.

At the related items (bags, accessories) area, the voice picking system, Vocollect, has been prepared for implementation. It will increase the productivity of pickers and improve the accuracy of order assembly. The system is closely integrated with Solvo.WMS and exchanges messages regarding warehouse worker actions and the system itself.

Projects Solvo

2007 | 2007 | 2007 | 2007 | 2006

OCS Distribution Warehouse Network

part of the National Computer Corporation

An automation project for affiliate warehouse of OCS in Saint–Petersburg, Moscow and Yekaterinburg
OCS is a major distributor of computer equipment in Russia and is part of the IT holding company – the National Computer Corporation. OCS possesses a developed regional network across 26 cities in Russia. The partner channel includes around 9,100 companies across Russia. There are 22 warehouses across the country for servicing partner–companies.

IMPLEMENTATION OBJECTIVES:

- Minimize losses during warehouse operations
- Increase the quality of service
- Replicate the system (warehouses in Moscow and Yekaterinburg)

WAREHOUSE IN SAINT-PETERSBURG
Warehouse specifications

The warehouse in Saint-Petersburg has an area of approximately 10,000 m2 and is equipped with shelves and racks with zones for floor and oversized goods storage along with a zone for storing transit deliveries. The average number of shipped orders per day is around 200.

> The implementation of Solvo.WMS at the Saint-Petersburg warehouse served as the basis for significant increase in the throughput and usable warehouse capacity: warehouse expenses were reduced and labor productivity increased while indices for assembly speed, error-free orders, and uninterrupted operations have all improved substantially.
>
> **Dmitryi Zhuravkov,**
> *head of logistics management, OCS*

WAREHOUSE IN MOSCOW
Warehouse specifications

The implementation of Solvo.WMS was replicated at the second major warehouse with an initial area of 5,000 m2 located in Moscow. As a result, the warehouse area has practically doubled.

IMPLEMENTATION

Central warehouses in Moscow and Saint-Petersburg leased by OCS are operated by two stand-alone Solvo.WMS systems. Each one was integrated with the enterprise host system, which started serving as the gateway dedicated to data exchange between warehouses when receiving goods by barcode. This made it possible to easily synchronize product data at both warehouses and, thus, to simplify operations involving the transfer of goods from one warehouse to another, which occurs rather frequently and in large volumes.

WAREHOUSE IN YEKATERINBURG
Warehouse specifications

The warehouse complex with an area of 5.8 thousand m2 serves the Ural region. Project orders are shipped and goods are received from the company's central warehouses.

RESULTS

Solvo.WMS is able to take on any task common to distribution warehouses: quick load receiving from the central warehouse using ASN technology, putaway by mass-dimensional characteristics, velocity, picking by serial number among many others. The system lowers the number of labor-intensive and unnecessary operations at the warehouse while raising the speed and accuracy when processing orders.

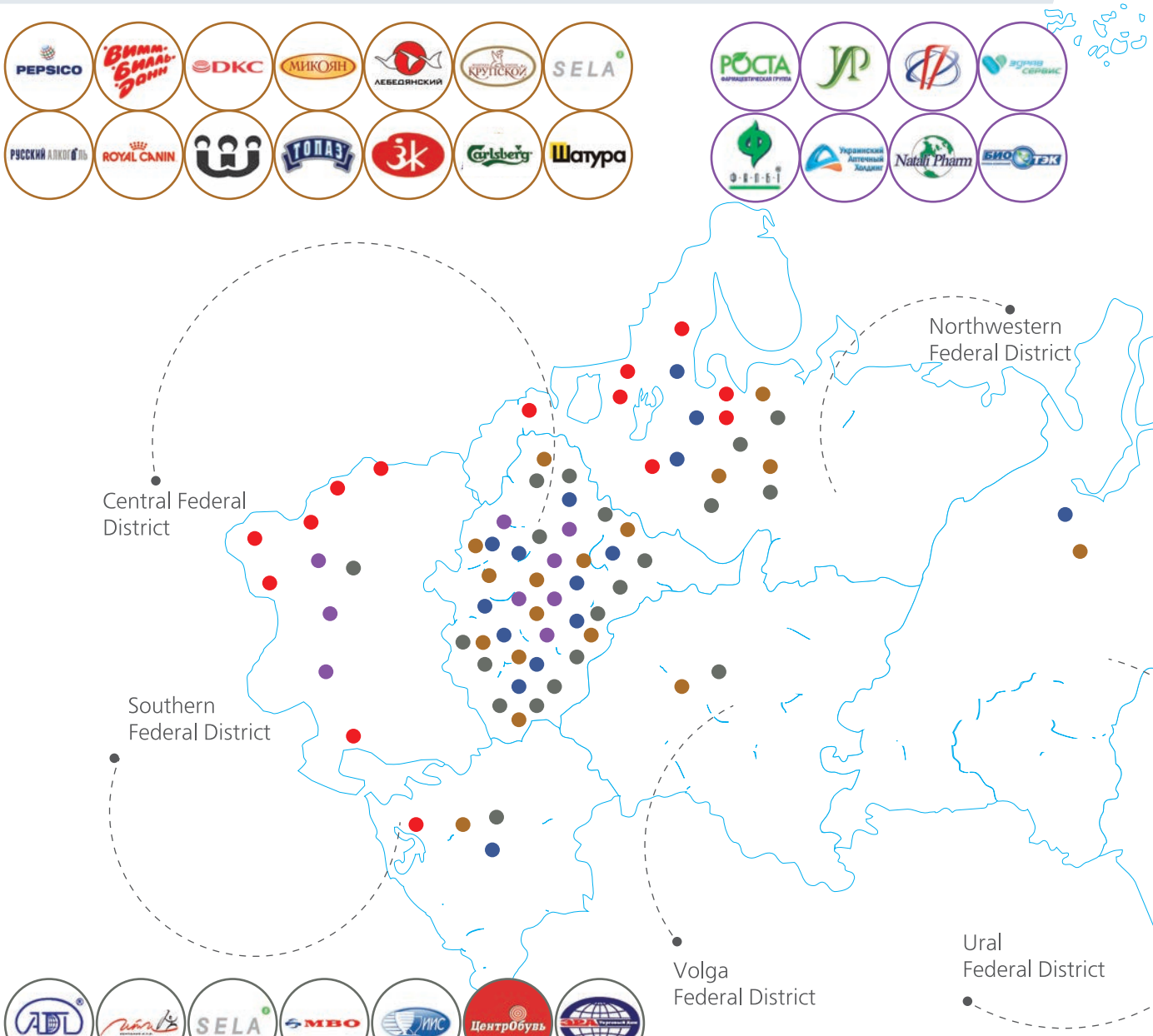
2005 2004 2004 2004 2001

Why **Solvo.WMS?**

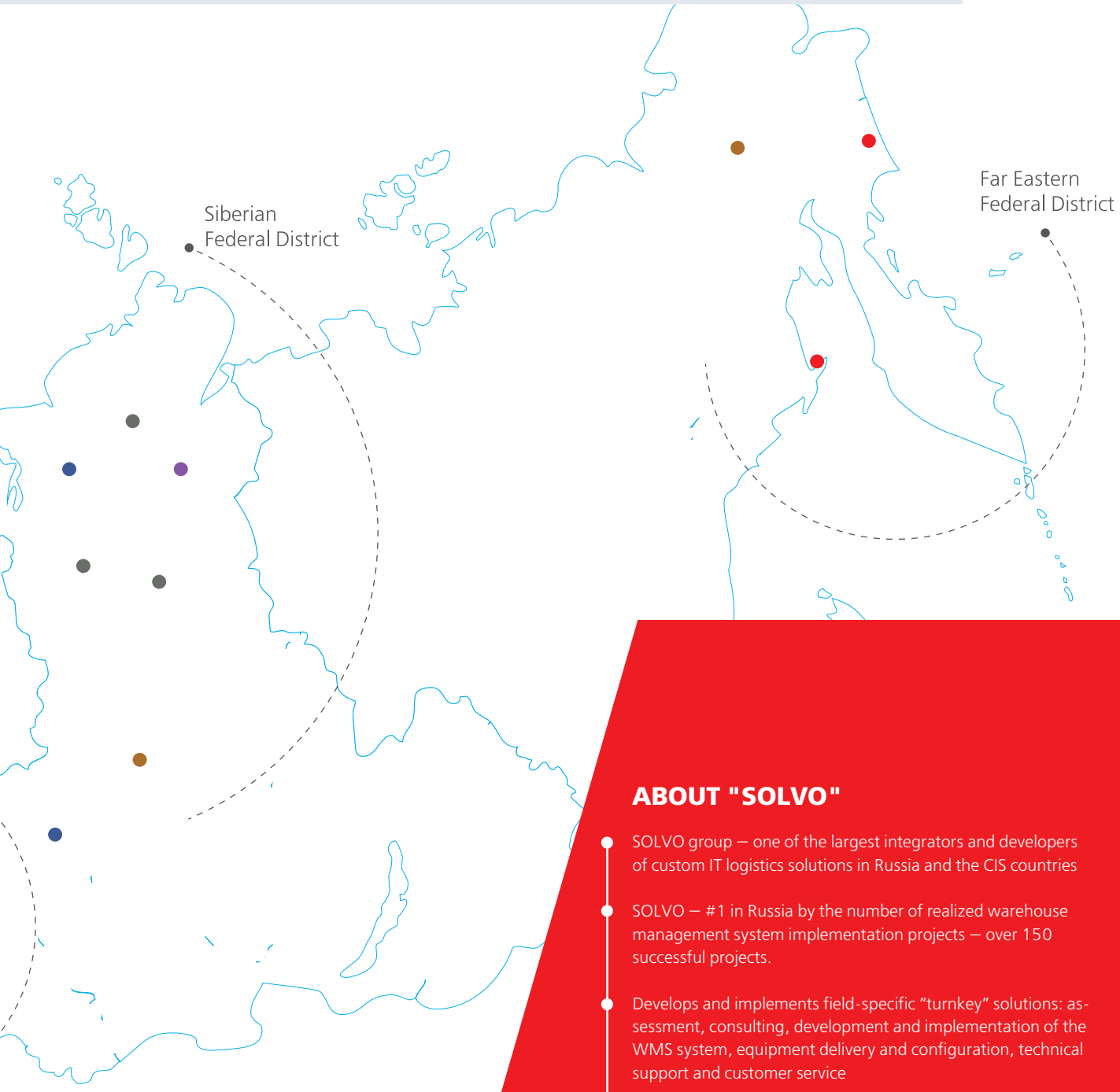
We have extensive experience working with various industry-specific distribution warehouses – anything from food, office supplies, household goods, auto parts, and clothing to footwear. Each one has their own specific requirements for the business-processes at the warehouse.

SOLVO.WMS can elevate your warehouse to a new level of performance and control due to its wide range of features and flexibility, which were tried and tested at our clients' biggest warehouses. We take pride in the SOLVO implementation team, which today is comprised of 20 highly qualified professionals – many of whom have been working with us since the very beginning and have dozens of successfully implemented projects of varying complexity under their belts. The implementation team is also broken down into dedicated sub-teams to suit the profile of the project.

Aleksei Smirnov,
WMS deputy general director, SOLVO



> Solvo.WMS, which has been rolled out at our warehouse, has given as many new capabilities with graphical representation of the warehouse, zoning, stock management, expiration date control, labor standardization, and generation of reports being just some from a list of over 70 different features.
>
> **Andrey Evgeneivich Trubitsin,**
> *General Director, Era*



ABOUT "SOLVO"

- SOLVO group – one of the largest integrators and developers of custom IT logistics solutions in Russia and the CIS countries
- SOLVO – #1 in Russia by the number of realized warehouse management system implementation projects – over 150 successful projects.
- Develops and implements field-specific "turnkey" solutions: assessment, consulting, development and implementation of the WMS system, equipment delivery and configuration, technical support and customer service
- Multilevel 24/7/365 technical support including free updates, hotline, invitations to annual client conferences
- Logistics consulting services
- Client audit assistance

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