

Jungheinrich: European Spare Parts Centre, Logistics Service Provider CEVA



CEVA Logistics, the logistics arm of the former TNT Post Group (TPG), installed and now operates the Southern European spare parts warehouse, commissioned in September 2002, for Jungheinrich, a leading manufacturer of handling equipment, in Lahr, Baden-Württemberg.

A two-storey small-bin shelf system with about 85,000 bays, a three-storey high-bay shelf system with 5,000 bays and a pallet store with 3,000 bays were installed in an area of 10,035 square metres. Hazardous goods are stored outside the warehouse. CEVA Logistics prepares an average of 2,000 orders containing 4,600 items for despatch every day. This corresponds to a daily volume

of 15 tonnes of spare parts. About 12,000 of the over 36,000 parts stored in the ultimate configuration in Lahr are fast-moving goods. They account for more than 90% of all stock movements.

Jungheinrich is using the new spare parts warehouse to pursue its objective of pan-European centralisation of spare parts supply and overnight delivery to large areas of Europe.

Requirements

The PSI*wms* warehouse management software supplied by PSI Logistics in Lahr controls the 85,000-bay warehouse

A warehouse occupying over 10,000 square metres with about 80,000 bays

and a container conveyor system over 900 m long in real time, using complex strategies for storing containers, executing orders and restocking. The container conveyor system has a capacity of approximately 600 containers per hour. A wireless data system with about 30 mobile terminals is connected to it. The *PSIwms* was customised for the different sites and clients of CEVA Logistics. The location is in Lahr, in Southern Germany, but the computer centre is in Mannheim, with clients in Frankfurt, and Norderstedt, near Hamburg.

Brief and implementation

Short lead times, reliable introduction and centralised computer centre operation were important criteria for CEVA as a logistics service provider when awarding the contract to PSI Logistics. The entire scope of supply by PSI Logistics included implementation of the specification, commissioning and a service and maintenance agreement with CEVA Logistics.

Interfaces were provided with the upstream SAP host system, the downstream PLC, the transport management system and various third-party systems, e.g. the despatch and shipping system, CEVA's handling system and the Jungheinrich SAP system.

Key points

Key points of the *PSIwms* for this TNT project are:

- Time-dependent, automatic order activation
- Reproduction of specific order-picking strategies
- Multiple client capacity
- Connection of third-party systems

Configuration

The *PSIwms* runs on a central IBM-AIX server system with an Oracle database at the computer centre. Communication with clients and the downstream wireless system on site takes place over a VPN. PSI Logistics has a dial-up node in the CEVA logistics VPN for remote maintenance of the system.

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