Warehouse Management System

X 5 0 0

This WMS plays a vital role in supply chain management (SCM) and helps improve the QCD (high quality, high functionality and low cost) for our customer’s logistic needs. Our solutions provide flexible support from one-unit automated systems for small scale requirements to enterprise level automated systems for large scale operations.

[WMS Technology] Full-blown WMS
- Enhanced Supply Chain Management capabilities
- Integrated WMS (management of multiple sites)
- Enhanced management functionality

[IT Technology] Multi-platform
- Platform independent (using Java)
  - Server product: Glassfish / WebLogic / JBoss
  - Database: Oracle / PostgreSQL / MySQL
  - OS: Windows / UNIX / Linux
- JAVA technology and object-oriented design
- Cloud-based services also available

[Production Technology] System Flexibility
- Developed using an integrated software infrastructure.
  - Result = fully scalable from small to large implementations.
- Reusable software components (module libraries).
  - Result = increased reliability and lower costs.
X500 features

Easy Expandability (customization):
Componentization of Functions

We have provided approximately 6000 WMS solutions by combining and customizing (model driven development) the software functions specific to the target industry using a component based strategy. Our customers are able to enjoy a high quality system tailored for each customer’s specific needs delivered with reduced lead time.

In order to provide a customer-tailored WMS solution, we offer not only an extremely user-friendly system but also operation changes and updates that correspond to future market trends, providing flexible support by re-combining and replacing software functions.

Real-time Processing
(inventory control and work instructions)

Consistency between inventory data and the actual inventory is fundamental in order to avoid delaying or obstructing work unnecessarily. Our WMS provides optimized work instructions (=Dynamic Scheduling) through its real-time understanding of ever-changing inventory status and operational conditions. In addition, the WMS provides excellent support for managing the logistics (Real-Time Control) by using real-time visualization.

Simple Coordination with
External Systems

In addition to coordination with core systems, our WMS can also easily coordinate with external systems such as order management, transportation and delivery management systems. Our WMS offers everything from CSV file support to web service based *SOA coordination (Interfaces with all types of EAI and ESB).

*SOA (Service-Oriented Architecture)

Interoperability with
Material Handling Equipment

Our WMS can interoperate directly with material handling equipment controllers, such as those for automated warehouse systems and conveyors. Our WMS can optimize work for any situation through total control and status management of the equipment (rate of operation and operational load), the inventory (inventory status and packing) and also the operations (workload and progress).

Integrated WMS

Our WMS offers integrated management of multiple, separate distribution centers, production facilities and warehouse locations.

Our WMS also offers integrated management of not only WMS functionality, which handles management and planning, but also WCS, which executes plan-based operations.
**List of Functions**

We offer a seamless service lineup from small to large scale solutions (integrated WMS).

**Multi-Language Support**

We also provide a “Multi-Language Support GUI” to meet the requirements of an increasingly multinational workforce. To match the language used by each user, WMS can automatically switch the display language.

**Multi-Device Support**

WMS can be accessed not only from the usual PC terminals but portable terminals (smart phones and other types of mobile devices).
Offering Model Driven Development (MDD)

The software development and design uses a flowchart to construct a model of the customer’s specifications. This system ensures that the customer’s requirements are reflected in the model, in order to avoid overlooking requirements and to provide a high quality WMS with reduced lead time.

This external system can be coordinated with SOA and is treated as one part, which makes it simple and easy to establish a secure link.

Business-process-management tool

The X500 core library standard product groups are assembled via the Business-process-management tool (BP-WF). BP-WF allows for the assembly of external system libraries. BP-WF provides for the easy inclusion of SOA-based functionality into the customer’s system.

X500 Core and library (standard parts)

- System management parts group
- Inventory management parts group
- Incoming and storage parts group
- Outgoing and retrieval parts group
- Control parts group

External system

- Transportation Management System (TMS)
- Order management system
- Manufacturing Execution System (MES)

Management functionality (Operation support)

We provide information on future planning, previously completed projects and analysis data which are necessary for operation support. Managers and administrators can use these resources to review strategies to reduce logistics costs and to streamline work.