



SAVANNA.NET® WAREHOUSE MANAGEMENT SYSTEMS

**OUR INNOVATION
YOUR SOLUTION**



Business Partner



Today's warehouses deal with an increasingly complex mix of demands to meet customer orders and delivery schedules. Westfalia's *Savanna*.NET® Warehouse Management Systems help companies optimize all the processes within both conventional and automated warehouses, to be more efficient and generate cost savings.

Savanna is a modular system enabling companies of all sizes to select only the modules they need to handle their warehousing processes. For companies considering automating their warehouses in the future, Westfalia's key advantage is knowing how to implement and service automation, in steps or all at once.

Cost savings and better customer service accrue from the efficiencies of *Savanna* including:

- ▶ More efficient use of warehouse space and equipment
- ▶ Information at your fingertips
- ▶ Increased order accuracy resulting in improved customer service
- ▶ Reduced losses from stolen, damaged or misrouted products
- ▶ Increased throughput
- ▶ Increased labor productivity
- ▶ All resulting in a lower cost per unit shipped

To build your *Savanna*.NET® WMS, start with basic functions,

- .alarm** Messaging system via SMS, e-mail, etc.
- .check** Inventory cycle counting tool
- .data** Inventory data with management of high, medium, low moving SKUs
- .host** Interface to host ERP systems
- .lane** Management of storage locations within the rack structure
- .maint** Administration of maintenance intervals
- .report** Creation, display and printing of reports
- .schedule** Executes periodic tasks such as rewarehousing, pick lane replenishment, etc.
- .service** Software service and monitoring via remote access
- .show** Warehouse visualization for storage and material flow
- .user** Management of users permissions

and add any additional functions you need:

- .custom** Exclusive and individual, customer specific software functions and upgrades
- .3PL** Tracks changes and costs for billing purposes
- .block** Reconfigure lane length of the middle storage area, as you require
- .custom** Exclusive and individual, customer specific software functions and upgrades
- .load** Management of the staging and dock areas including loading status
- .move** Control system for manual handling systems, such as fork trucks, etc.
- .order** Management of customer orders
- .pick** Pick system and strategies
- .receive** Receiving incoming goods and returns
- .yard** Truck administration & yard management and more

For conventional and automated warehouses ■

Improves accuracy and substantial cost savings ■

Savanna.NET® grows with your company ■

SAVANNA.NET® IS FLEXIBLE AND POWERFUL

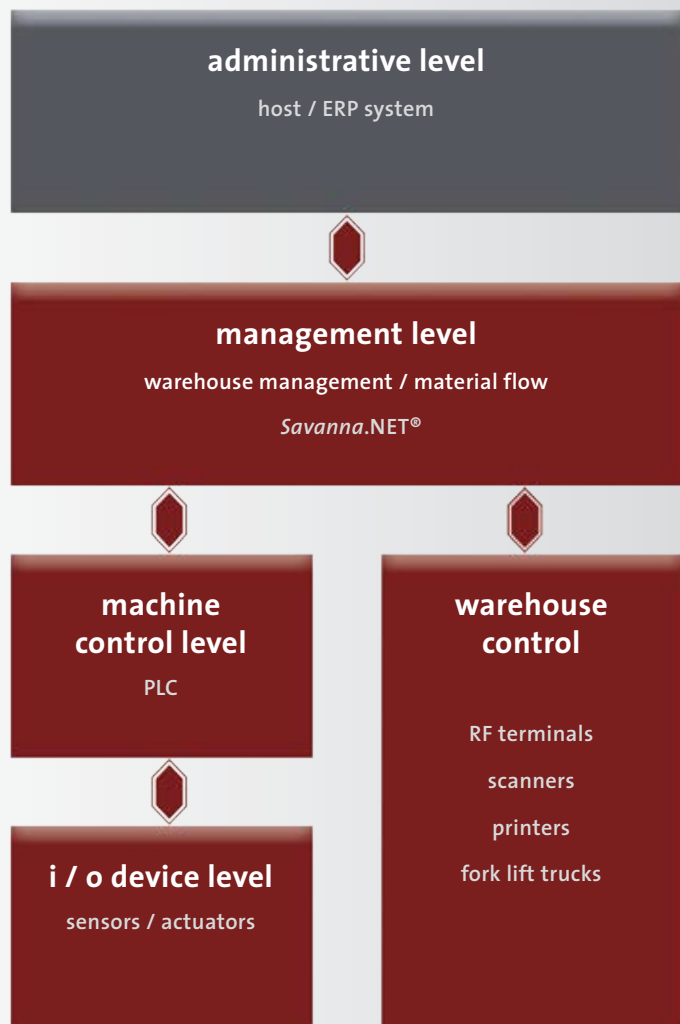
The screenshot displays the Westfalia Warehouse Management System interface. At the top, there is a menu bar with 'File', 'View', 'Go', and 'Help'. Below the menu is the 'Savanna.NET' logo, which features a stylized red and white circular graphic. The main content area is divided into several sections:

- All Outbound Orders:** A list of orders with columns for Order ID, Order Notes, Ship Date, and Customer. The list includes orders such as 4006082, 4006084, 4006100, etc., with various notes like 'SO' or 'SZ' and ship dates of '1/1/1753'. Customers listed include Hitchcocks & Sons, Sysco FS, Winn Dixie, and Freds Inc.
- Orders:** A section with sub-sections for 'Outbound Orders' (containing 'All Outbound Orders') and 'Customers' (containing 'All Customers').
- Order Details:** A detailed view for order 4006255, showing a table of order line items with columns for Order Line ID, Notes, SKU, Description, and Qty Requested. The table shows two items: 1.000 (SKU 1535, Description: Glacier Clear Drk 0.5L 24pk, Qty Requested: 11) and 2.000 (SKU 1585, Description: Nature's Crystal Spr 0.5L 24pk, Qty Requested: 3).

Designed using the Microsoft.NET framework, *Savanna* can readily operate with all customary ERP programs including SAP. Plus, with the flip of a switch it can run on either SQL Server or Oracle database platforms. All existing **hardware/software interfaces** can remain in full use, and data can be processed via Web surface-based (XML) platforms.

Upgrades to *Savanna* are fast and efficient, since changes in the program's base code can be easily integrated without effecting any specific code for your project. Westfalia gives you the opportunity to enhance your system through various **Savanna Gold Release updates** and service packs made available throughout the year.

For companies using an existing WMS or ERP system, our basic Warehouse Control System (WCS) may be sufficient. The WCS controls all the automated processes - conveying, storage and retrieval machines, etc. - and links to your host system.



Westfalia configures each client's WMS to meet their specific warehousing needs, by starting with basic WMS functions and adding custom project specific code as required. In this way, Westfalia provides a flexible yet powerful WMS, enabling **customers to invest only in the functions they really need**. With *Savanna* existing facilities can be maintained, modernized or expanded. Our consultative planning process ensures we configure the system you really need now and into the future.

Upgrades to *Savanna.NET®* incorporate additional functionality and keep pace with technological advances to the .NET 3.5 framework, and other software/hardware interfaces. For instance, our recent Version 2.0 release added support for the Lightweight Directory Access Protocol (LDAP). LDAP is a commonly used protocol that allows *Savanna* to query directory service information from an LDAP configured server. It is used to look up encryption certificates, pointers to printers and other services on a network, and provide "single sign on" where one password for a user is shared between the many services your system currently employs.

Flexible system-wide architecture ■

Integrates with existing ERP & PLC systems ■

Fast and easily integrated upgrades ■

ORGANIZATION...VISIBILITY..AND CONTROL OF YOUR WAREHOUSE



As the photo above demonstrates, *Savanna* keeps a warehouse **organized for maximum efficiency**. Above, the orders are staged and lined up on the flow rails, ready to be lifted onto trucks, by fork trucks. Order management is just one of the warehouse processes *Savanna* can optimize for you.

Savanna supports both **paper-based and paperless order picking** technologies including pick-to-belt and pick-to-pallet jack, as well as pick-to-light, pick-to-voice and RF communications. Our WMS runs on several user interface platforms: desktop workstations, touch screen tablets and handhelds.

Training is the key to a successful WMS implementation. Westfalia offers a variety of training classes so that users of all levels can be certified *Savanna* users before they begin using it. **Certified User Training** saves clients time and money, making the transition much faster and easier.



Savanna.NET® directs, controls and optimizes internal material flow and order picking as a system-wide software solution. Operative control includes optimizing paths throughout the system - from when goods enter the warehouse all the way through to when they are shipped - keeping your goods organized in the most efficient manner.

Parallel to this, *Savanna* accompanies these physical warehousing processes with a corresponding flow of real-time information. This ensures data security and stock transparency. In addition, the software provides the information required for analysis and management control in a clear and concise form.

Savanna's tab style, grid-like format is the key to its ease of use and powerful reporting. All warehouse data is presented in the grid format which makes filtering the data very easy for the user. Since all the functions are grid based, learning the software is straightforward, once you learn the basic grid format. Filtering the data on the screen means users can see the real-time data they need, without generating a report. **This data visibility makes the user very comfortable, and is easy for people of all computer literacy levels to use.** Because users navigate by objects rather than actions, tasks are completed faster and training time is reduced.



Instant accessibility to data via grid views ■

Integrates with wireless communication platforms for order selection ■

Certified user training ■



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