savanna.NET®
WAREHOUSE EXECUTION SYSTEM

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ADMINISTRATIVE LEVEL

Host
ERP system

MANAGEMENT LEVEL

Savanna.NET® Warehouse Management System
Controls the movement, storage and retrieval of materials

CONTROL LEVEL

Savanna.NET® Warehouse Control System
Controls the real-time activities of automated material handling equipment

MACHINE CONTROL LEVEL

PLC

3RD PARTY EQUIPMENT

RF Terminals
Scanners
Printers
Fork Lift Trucks

I/O DEVICE LEVEL

Sensors
Actuators
Conveyors
S/RM's

WESTFALIA TECHNOLOGIES, INC.

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SAVANNA.NET® WAREHOUSE EXECUTION SYSTEM
Conforms to your business and runs your entire facility

Westfalia's Savanna.NET® Warehouse Execution System (WES) is a unique warehousing solution comprised of tightly integrated Warehouse Management System (WMS) and Warehouse Control System (WCS) software that conforms to your business processes.

With its flexible modular structure supporting both conventional and automated warehouses, Savanna.NET® is configured to meet each client's business processes.

Based on Microsoft C# and .NET technologies, Savanna.NET® directs, controls and optimizes internal material flow and order picking as a system-wide software solution. Savanna.NET® offers a broad spectrum of interfaces to various ERP systems, web interfaces and PLC systems.
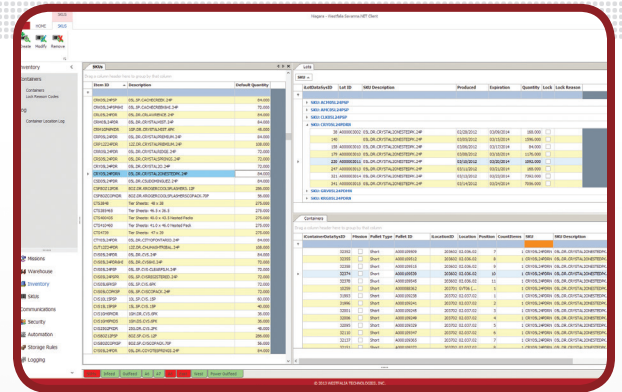
The Savanna.NET® solution optimizes, manages and controls your storage facility, saving time and money, while also providing the flexibility to select the functions needed to meet your specific business needs.

Above: Inventory management interface showing SKU's, lots and containers

Below: Savanna.NET® Warehouse Control System interface to automation

Cost savings and better customer service accrue from the efficiencies of Savanna.NET® including:

- **More efficient use of warehouse space and equipment**
- **Increased order accuracy resulting in improved customer service**
- **Reduced losses from stolen, damaged or misrouted products**
- **Increased labor productivity and throughput**
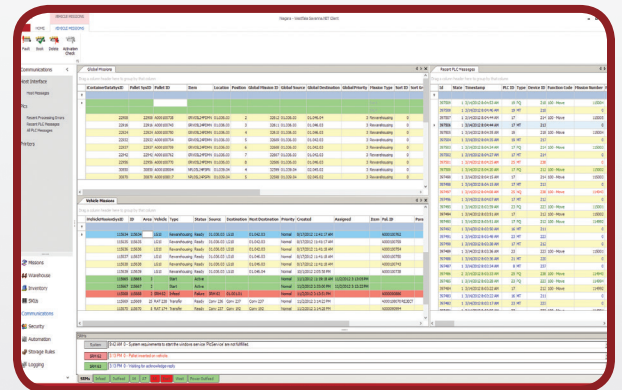- **Lower costs per unit shipped**

Westfalia has been specializing in logistical solutions for more than 35 years and uses the most up-to-date standards for software development. Our experience designing and installing Savanna.NET® throughout the world covers multiple industries including:

- Beverage
- Food
- Dairy
- Print
- Chemicals
- Freezer applications

Microsoft®
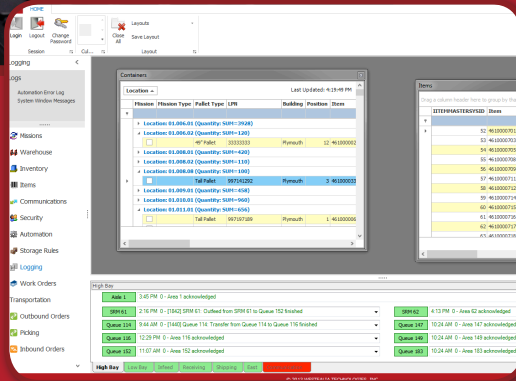**GOLD CERTIFIED**
Partner

Windows 10

Microsoft® **.NET**

savanna.NET®
WAREHOUSE EXECUTION SYSTEM

One system, multiple benefits

Savanna.NET® WES is a unique WMS-WCS integrated system eliminating the need for a WMS-WCS interface. This two-in-one method utilizes one single system to perform the tasks of both a WMS and a WCS. Furthermore, the Savanna.NET® technology simplifies communication and controls and exchanges are not complicated by duplicated data or controls.

Having been born from automation, Savanna.NET® provides the management features of a WMS, along with the automation control components of a WCS.

With its modular capability, Savanna.NET® enables companies of all sizes to select only the modules they need to handle their warehousing processes. Savanna.NET® is comprised of base modules / functionality, and enhanced by client-driven customizations.

| Inbound Functionality	Inventory Functionality	Resource Management
◆ User ASN processing	◆ Inventory visibility	◆ Pick location and slotting for manual picking
◆ Order receiving	◆ Cycle counting	◆ Automation interfaces
◆ Returns processing	◆ Space allocations	◆ Directed picking
◆ Directed and rules-based put away	◆ Tracking item attributes	◆ Material handling equipment utilization
◆ Quality assurance	◆ Comprehensive lot, container and SKU tracking	◆ Warehouse transfers
◆ Multiple receipt options	◆ Item zoning	
	◆ Replenishment	
	◆ Pallet management	
	◆ Work order processing	
	◆ Load management	

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Customizations can be easily added to the module or further enhanced as requested. In addition, Savanna.NET's architecture allows for seamless upgrades.

Savanna.NET® allows existing facilities to be maintained, modernized or expanded. 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.

Easy-to-use, tab style interface provides real-time information

Outbound Functionality

◆ Order fulfillment

◆ Order management

◆ Order staging

◆ Multi-method order picking

◆ Shipping

◆ Trailer management
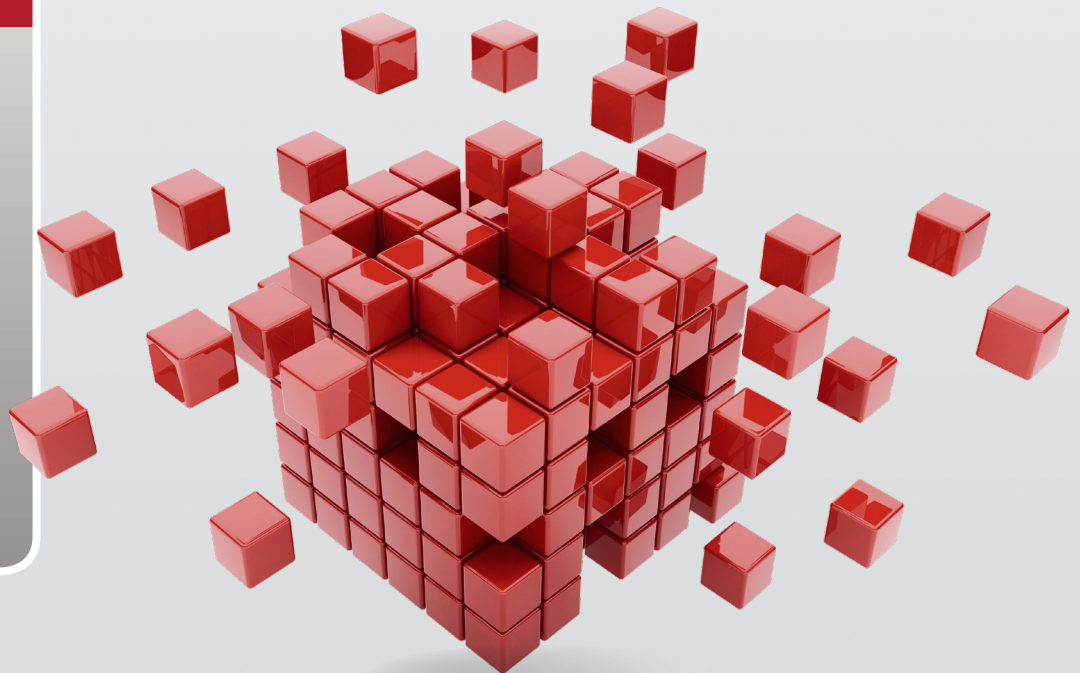
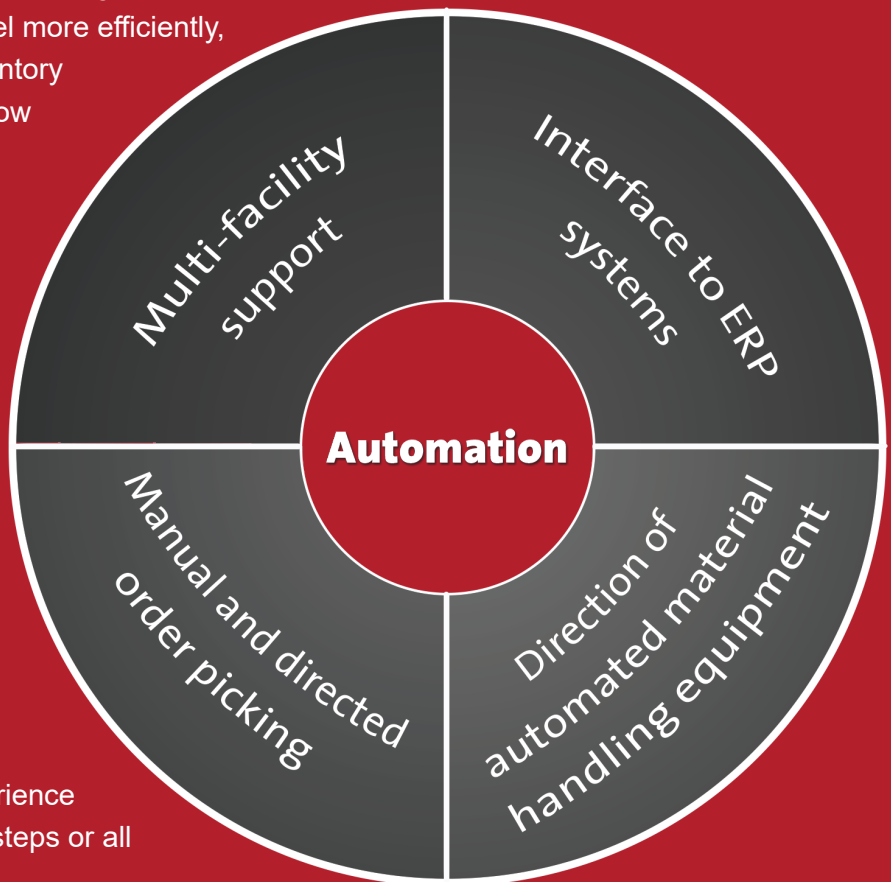# YOUR WINDOW TO AUTOMATION
Software to run your automated facility

Westfalia is dedicated to providing you with a competitive edge through new technology and warehousing solutions.

B*orn from automation*, Savanna.NET® communicates with various automated material handling equipment more effectively than many other Warehouse Execution Systems (WES) might. The sophistication of the Savanna.NET® WES provides the ability to help an organization utilize its automation and warehouse personnel more efficiently, deliver better storage utilization, increase inventory accuracy, improve product traceability, and allow for customizations to accommodate specific warehousing needs.

As manufacturers and distributors turn to automation, an increased importance is being placed on the software applications to run operations efficiently. Savanna.NET® is the power behind Westfalia's Automated Storage and Retrieval Systems (AS/RS) and many other automated material handling equipment providing unparalleled control of all product flows with maximum system flexibility.

Companies considering automation in their warehouses should consider Westfalia's experience in implementing and servicing automation, in steps or all at once.


Automation

Multi-facility support

Interface to ERP systems

Manual and directed order picking

Direction of automated material handling equipment

SERVICE AND SUPPORT
With you when it counts

Our dedication to our customers' satisfaction doesn't end with system installation. Westfalia employs full-time Savanna.NET® software developers who perform application installation, training and support work for each customer.

We understand that minimizing or eliminating downtime is critical to the success of your business which is why we ensure each customer has a Support Services Agreement in place with every installation.

As business processes change, your software solution should be able to adapt. Westfalia's Savanna.NET® is designed with this philosophy in mind. The solution's support model provides a straightforward approach to ensure customer satisfaction while ensuring that your system never turns into a legacy system.
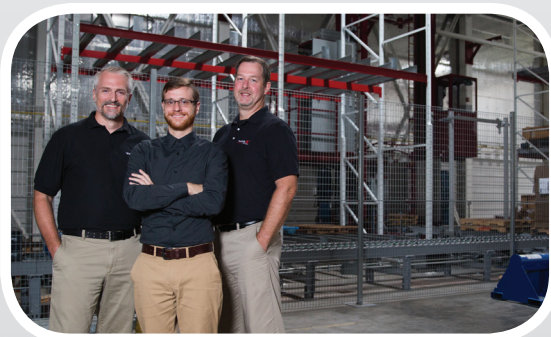
With a Savanna.NET® Support Services Agreement you are provided with the following services:

- **24/7/365 technical support**
- **Priority service**
- **Certified user training**
- **Software upgrades and modifications**
- **Version control and management**

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WAREHOUSE EXECUTION SYSTEM

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