Wireless Warehouse Connection

Real-Time, Wireless Inventory Control

Ross Technologies provides over 15 years experience delivering data collection solutions.

Providing the best combination of hardware and software solutions is our goal. Wireless Warehouse Data Connection (WWDC) continues to exceed our customer's expectations, by providing a cost effective, full function solution. The software is scalable to provide the level of integration required by your organization. Whether your need is for a complete warehouse management solution or to provide wireless freedom to your exiting system, we can accommodate your unique requirements. Each design is evaluated and optimized based on your specific needs.

There is an old saying "The more you know about your inventory the less you need it". Wireless systems boost of a very short ROI with accuracies of 95% to 98%. Not only is the data more accurate but there is often an increased in employee productivity. Just a small increase in inventory accuracy and productivity can result in a significant financial gain. RF terminals empowers your employees with the information they need to perform efficiently. Real-time data allows, management to review reports that provide the details required to make quickly and well informed decisions. Tracking and recording inventory movement more accurately and efficiently in a warehouse effects the bottom line.

Making employees more effective, validating each transaction, increasing accuracy through bar-coding, and providing real-time data are some of the advantages . A healthy business depends on a well run warehouse.

RTG, providing the right technology for the job. Reliable portable computing platforms, with the knowledge and experience to provide seamless connectivity , to enhance your existing enterprise system.

At a Glance

Innovative yet cost effective solutions
Standard and custom solutions
Industry standard "Open Architecture"
Software Integration & support
Stand Alone or Integrated Solutions
Real-time information
High system reliability design
Future-proof protection
Custom and Standard templates

Ross Technologies Group, LLC
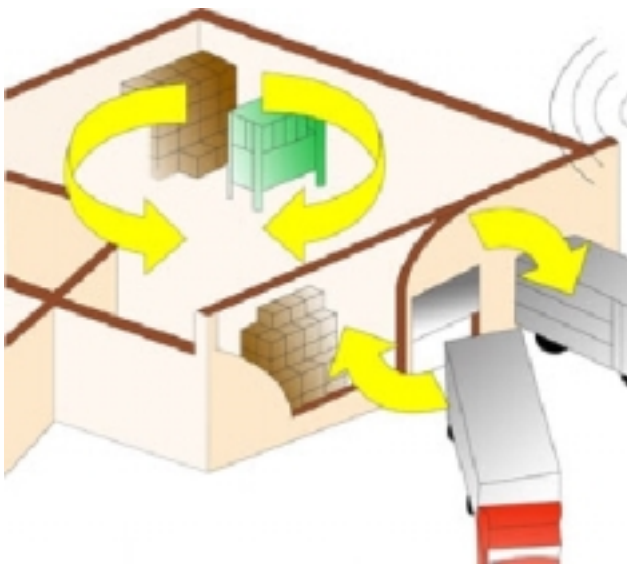
Wireless Warehouse Terminology

Inventory

Inventory improves the accuracy of your inventory with physical inventory and cycle counting capabilities. Powerful utilities, such as a move and edit feature, allow you to keep up with the demanding pace of a warehouse environment. Use the built-in reports and queries to monitor and manage your inventory.

Receiving

Receiving can operate by using the Receiving form or with your existing purchase order system to import open order details. When an order is received, Wireless bar code readers are used to put away the order. Validation of order number, part number, put-away location, and quantity reduces errors and speeds up the receiving process.

Put Away

Records the location of each item as it is placed into inventory

Picking

Picking can operate standalone by using the Picking (Customer Order) form or with your existing customer order system to import open order details. When an order is picked, portable bar code readers is used for validation of part number, location, and quantity. This reduces errors and increases the accuracy of the picking process.

Shipping

validates picked order details to packing box and generates shipping labels. Shipped orders and carrier information can be exported to billing for expedient and accurate invoicing to customers.

Printing

Printing barcodes to label product as it enters the warehouse is easy the system provides the receiver the ability to create labels from the portable and choose a target printer. Labeling inventory as it enters is actually quite easy and is used for those items that are not labeled adequately. Shipping labels can also be created for ups or FedEx.

Wireless Warehouse Overview

What it does:

Wireless Warehouse Manger provides your warehouse personnel with the RF terminals that bring the power of your IT system to the palm of their hands. The ROI is easily justified based on increased <u>accuracy, productivity, and real-time data</u>. Knowing how much you have, where it is, where it went, what needs replenishing, and who did what; has never been so important then in your warehouse. Making your employees more efficient is what it is all about.

The system provides operators with menus that guide them through the process of typical inventory-warehouse transactions. Prompts include: Receiving, Put Away, Picking, Shipping, and Pick and Pack.

Printing functions are provided to label those items not identified with proper identification codes and to print common shipping labels.

Standard Features Include:

- **Receiving**
- **Put Away**
- **Order Picking**
- **Shipping**
- **Pick and Pack**
- **Incoming Label Printing**
- **Shipping Labels**
- **Import Customer Order**
- **Import Vendor Purchase Order**
- **Export Customer Order**
- **Export Vendor Purchase Order**
- **Database Back-up & Achieve**
- **Custom Prompts**
- **Order Fulfillment based on Date**

Standard Reports include:

- **Inventory Items & Quantities**
- **Orders Shipped by Date**
- **Orders Received by date**
- **Replenishment report**
- **Audit Trail by Date & Employee**
- **Complete Transactions by Date**

Advanced Functionality

- **Order Fulfillment based on location or Rank**
- **Custom Prompts**
- **Custom User requirements**
- **WIFI coverage testing**

Wireless Warehouse Overview

How it works:

Wireless warehouse Manger runs on a PC server under Windows XP. Microsoft SQL server or MSDE is used to provide a local database to service wireless handheld terminals real-time. Prompts are provided that are assigned to a main menu. The operator chooses a task and is prompted to enter data. Collected data is validated to avoid input errors. Operators log on to a session to provide an audit trail.

Browser based terminals, typically Windows CE are used to display operator menus and prompts. These devices use keyboard, barcode, serial, or touch screen data to provide input. Each terminal makes a connection through windows internet information services and appears as a browser. No data or programs are required on the terminals. Often a locked browser is used, however windows IE can be used. This approach allows the software to be updated at one location and significantly expands the choice of hardware.

The database is typically populated with an import interface to the host MRP/ERP software. This can be accomplished using several methods. The best method is a function of your existing software, skills, and preferences.

File transfer or Shared folder
The host generates text files with the current required information.

5250/VT220 host interface screen support (screen write/read)
Existing screens are navigated by issuing keyboard commands. Data is written into existing data input fields. After inputting data, the software can read a response filed to display errors.

APPC/Sockets/Formatted data input
A custom application exists on each side. The application exchanges data in a predetermined format.

Regardless of the exchange of data, the goal is to frequently up date the WWM SQL data base with relevant data from the current customer orders and vendor purchase orders
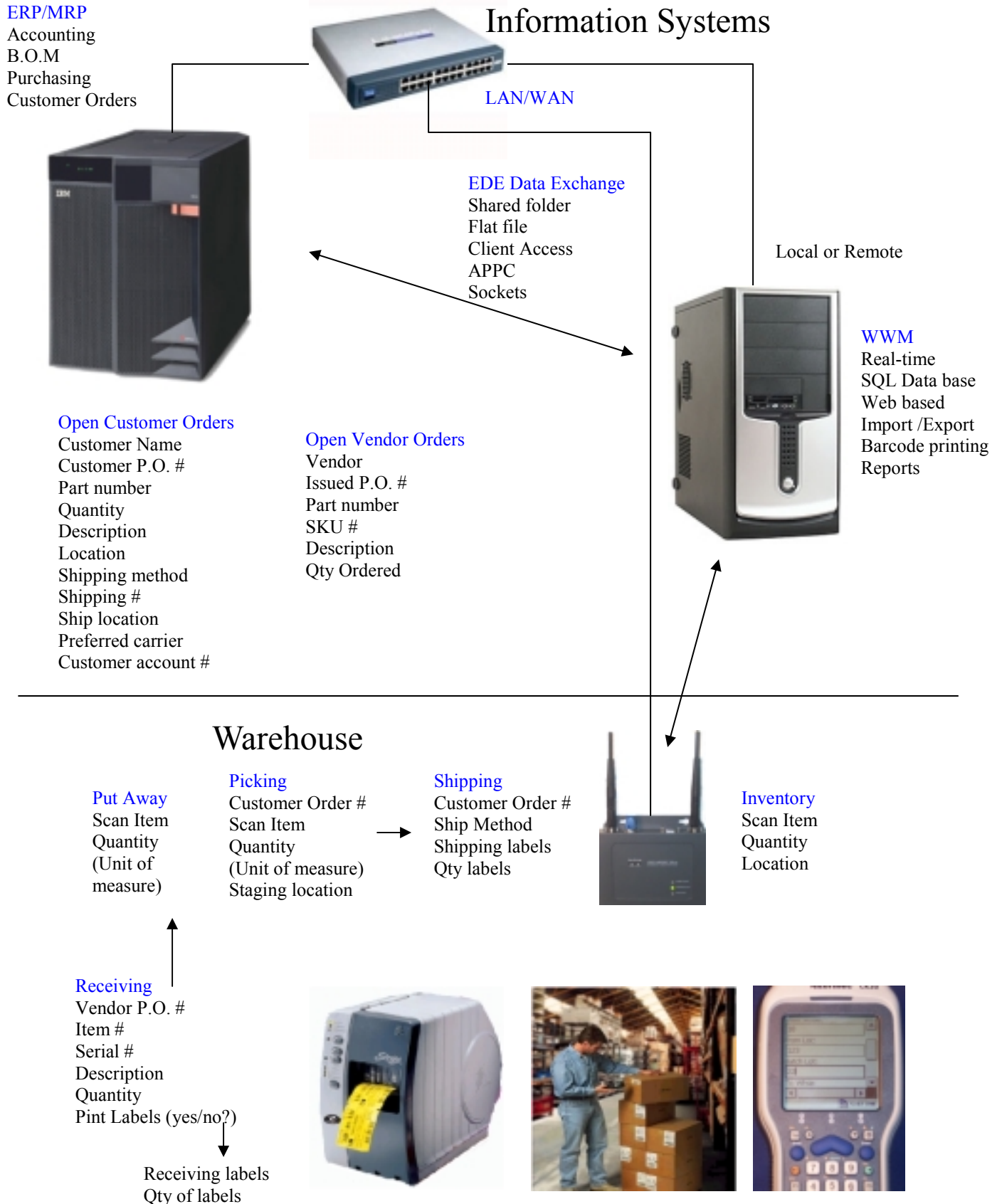
Customer Orders:
Customer name, P.O. #, Bill of materials (part number, Qty, Description) , shipping method, customer's shipping account #, preferred carrier, ship to location , Date required

Orders to Vendors:
Vendor name, Issued P.O. #, Vendor Part number, SKU, units of measure, Description, Quantity ordered

Wireless Warehouse Overview

Information Systems

ERP/MRP
Accounting
B.O.M
Purchasing
Customer Orders

LAN/WAN

EDE Data Exchange
Shared folder
Flat file
Client Access
APPC
Sockets

Local or Remote

WWM
Real-time
SQL Data base
Web based
Import /Export
Barcode printing
Reports

Open Customer Orders
Customer Name
Customer P.O. #
Part number
Quantity
Description
Location
Shipping method
Shipping #
Ship location
Preferred carrier
Customer account #

Open Vendor Orders
Vendor
Issued P.O. #
Part number
SKU #
Description
Qty Ordered

Warehouse

Put Away
Scan Item
Quantity
(Unit of
measure)

Picking
Customer Order #
Scan Item
Quantity
(Unit of measure)
Staging location

Shipping
Customer Order #
Ship Method
Shipping labels
Qty labels

Inventory
Scan Item
Quantity
Location

Receiving
Vendor P.O. #
Item #
Serial #
Description
Quantity
Pint Labels (yes/no?)

Receiving labels
Qty of labels

Wireless Warehouse Portables

Choosing the right Portable for the Job:

Wireless Handhelds offer maximum portability, excellent battery life, decent screen size, color and touch options.

Handhelds can be used to navigate within throughout the facility without restriction. They are immune to the issues associated with more sophisticated alternatives. a portable terminal is not confined to a particular fork truck. They offer longer battery life, light weight unencumbered operation,

A bit about Windows CE:

Windows CE provides an excellent real-time operating system for wireless devices. Offering a full function operating system with WEP encryption, a GUI interface, touch support, and a wealth of terminal emulations. Users can leverage existing windows .net knowledge. Reliable, cost effective , and feature reach make Windows CE a good choice.

Wireless Warehouse Full Screen Device

Choosing the right terminal for the Job:

Choosing the right hardware for the right Job:

While handhelds offer maximum portability, Touch Panels offer larger screen that provide users a full screen of data.

Some applications just can't effectively be limited to a 1/4 VGA screen. Many of today's users want to take advantage of the rich computing environment offered by Windows XP or CE. It may be desirable not to limit or create a custom small size version of a full screen application. Other times, it is just easier for the user to see the entire data, to make better decisions or to avoid paging through the data. Either way we have you covered. Many of these devices are nearly as cost effective as their smaller counter parts. They can run off batteries and often are mounted on fork trucks or push carts. Once on a cart, long range scanners and printers can be added to provide warehouse operators with all the technology for the task at hand.

Wireless Warehouse PC Server

Choosing a Dedicated PC Server for Reliable, Real-Time Connectivity: Rack or Tower?

Model 7580 Industrial PC

The 7580 products provide an outstanding combination of price, unmatched performance, and versatility. This system deliver the speed and solid functionality needed to power your applications. The 7580 offers Pentium 4 processor, Up to 4GB DDR 533 MHz memory, fast SATA hard drive (optional raid), and Intel Extreme graphics. Integrated Ethernet , video, and Sound.

Mounting Orientation: Desk, Tower or 4U Rack mounting

ORDERING INFORMATION

Ross Technologies Group, LLC
4387 36th St.
Orlando, FL 32811
Phone: 407-872-0874
Fax: 407-872-0791
Email: pq@rossdatasys.com

Model 7578 Tower

The new 7578 products provide an outstanding combination of price, unmatched performance, and versatility. This system deliver the speed and solid functionality needed for off-the-shelf or customized applications. Incorporating the latest Intel technology, offer 3 GHz Pentium 4 processor, up to 4 GB DDR2 533Mhz memory, fast SATA hard drive (raid option) and Intel AGP 3D graphics. integrated Ethernet , video, and sound.