
Version 5 Warehouse Management System: Wireless Networking Hand Held Units



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Introduction

Benefits of Wireless Networking Hand Held Units in Version 5

- Scanning documents instead of keying in data results in improved accuracy and minimizes mistakes
- Using Wireless Networking Hand Held Units maximizes productivity by allowing your employees to complete their work remotely

How do Wireless Networking Hand Held Units work?

- The Symbol unit runs a web browser (IE) which is used to access the PRO-MAIL 5 system
- The browser places data into the input box fields of the Version 5 web pages when a barcode is scanned
- The Symbol unit communicates the data to your web server via a wireless network through the Access Point base unit

Version 5 / Wireless Networking Hand Held Units Interface

Hardware Configuration / Specifications

Scanner (Hand-held unit used to scan Version 5 documents such as Pick Slips, Unit Placards, etc.)

- Model #: Symbol PPT 8846
- Microsoft® Windows® CE .NET 4.1 Uses IE web browser
- Price from Barcodes Inc. is \$1377.21

Cradle (Data Connection & Power Charger)

- Model #: Symbol CRD 8800 – 1000SIM
- Price from Barcodes Inc. is \$ 94.00

Access Point (The symbol unit communicates data to your network via the Wireless Router)

- Any Wireless Router that supports the 802.11B wireless network protocol should work.

Hardware acquisition

We encourage you to shop around to get your best deal on the various hardware components outlined above. One place we recommend is the Barcodes Inc. web site. To buy products online go to: <http://www.barcodesinc.com/>. You can also go to <http://www.symbol.com/contact/sales.php> to contact a Symbol sales representative.

Site Surveys: Generally a site survey is performed to determine the number and placement of access points and antennas. We recommend that you discuss this with your vendor.

Symbol Unit Setup

Turning on the Symbol System for the first time:

- 1) Place Symbol in docking station (Note: If the Symbol system needs to be charged, leave it in the docking station for at least an hour)
- 2) Turn on the Symbol system (Red button in lower left hand of system). The system will come on or a tone will sound when system is preparing to start up. During the first startup this could take 1 to 2 minutes.
- 3) A welcome screen will appear. Tap the screen with the stylus to continue past this.
- 4) The next screen will fine-tune the sensor screen. Press on the target when requested.
- 5) Tap Next to proceed through the stylus tips and usage screen. Follow these practice steps to proceed through them then click next on the last screen.
- 7) Tap on the final screen to start using the Symbol system.

How to Cold Boot the Symbol system:

- 1) Open the battery compartment on the back of the Symbol
- 2) On the back of the symbol press the Reset button on the right side while simultaneously pressing the gray button on the lower right of the front panel for 5 seconds. The gray button on the front is on the opposite side from the red button.
- 3) Close the battery compartment on the back of the Symbol

Steps to Configure the Symbol system after a Cold Boot:

- 1) Place Symbol in docking station (Note: If the Symbol system needs to be charge leave it in the docking station for at least an hour)
 - 2) Turn on the Symbol system (Red button in lower left hand of system). The system will come on or a tone will sound when system is preparing to start up. During the first startup this could take 1 to 2 minutes.
 - 3) A welcome screen will appear. Tap the screen with the stylus to continue past this.
 - 4) The next screen will fine-tune the sensor screen. Press on the target when requested.
 - 5) Tap Next to proceed through the stylus tips and usage screen. Follow these practice steps to proceed through them then click next on the last screen.
 - 6) At the location screen select the city closest to you. Confirm that the time zone is correct then click next.
 - 7) Tap on the final screen to start using the Symbol system.
-

Steps to Configure the Network Settings on the Symbol System:

- 1) Click on the Start menu at the bottom of the screen
- 2) Select Settings then click on the Network and Dialup icon
- 4) If your network is running DHCP skip to step 5. Otherwise follow the steps below
 - a. Double click the NETLAN1 icon
 - b. Under Specific IP address enter in the IP address you would like to assign to this symbol unit along with the subnet mask and default gateway if applicable.
 - c. Click on the Name server tab and fill in the information for DNS and WINS server if you are running those applications in your network environment.
 - d. Click OK in the upper left hand corner
- 5) Click on the WLAN icon near the handheld clock (lower right corner of the screen)
- 6) Click Status
- 7) If you have a strong signal, skip to **“Steps to configure the Internet explorer on the Symbol system”**
- 8) If you don't have a signal, then click the WLAN icon again and go to profiles.
- 9) Your WAP should show up. Click connect, and then check the signal again. If no signal still shows up, open the profiles and edit the system
- 10) Enter your WAP and Encryption information and verify the IP settings are as you set them previously.
- 11) Click OK
- 12) Press the red button in the lower left hand corner to turn off the system then press it again to turn the system back on.

Steps to configure the Internet explorer on the Symbol system:

- 1) Go to Start → Internet Explorer
- 2) Click on the view button at the bottom of the screen and select Address Bar
- 3) If your Symbol system needs internet access to external web sites and you are running a proxy server follow the step below, otherwise skip to the step 4
 - a. Click on Tools -- > Options
 - b. Select the Connection Tab
 - c. Check the box that states to use Proxy Server
 - d. Enter in the IP Address or server name into the Address field
 - e. Select the option to Bypass proxy for local addresses
 - f. Click OK
- 4) Click on the URLs tab
- 5) In the URL field enter in the following address:

<http://PromailWebServerName/warehouse53/sfmove.asp?wms=YourWMSAccount>

(PromailWebServerName is the name of your Pro-Mail 5 web server and YourWMSAccount is the Warehouse database account the symbol will interact with.)

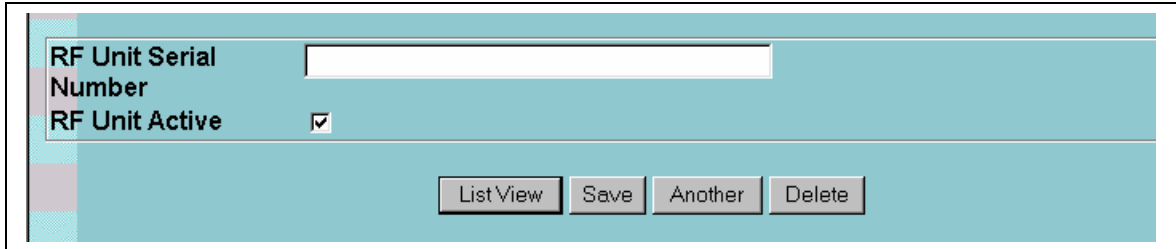
Note: This web address can be set as the Internet Explorer home page by selecting Tools → Options in Internet Explorer

Before Your Begin Using the Hand-held Units

The following steps are performed in the Version 5 Warehouse Management System:

Define Wireless Networking Hand Held Units

Go to Setup > RF/Cycle Count > RF Unit



RF Unit Serial Number

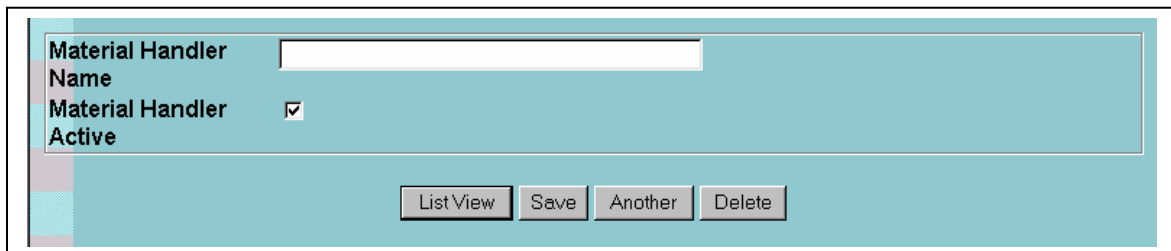
RF Unit Active

List View Save Another Delete

1. Each Wireless Networking Hand Held Unit that you will be using needs to be assigned a unique number. You will also need to indicate if the Unit is active.
2. When entering a single Wireless Networking Hand Held Unit, click on **Save**. For entering multiple Wireless Networking Hand Held Units, click on *Another* to save.

Enter the names of the Material Handlers into the system:

Go to Setup > RF/Cycle Count > Material Handler



Material Handler Name

Material Handler Active

List View Save Another Delete

1. Enter the name of the Material Handler(s) who will be using the Wireless Networking Hand Held Units to enter transactions remotely
2. When entering a single name, click on **Save**. For entering multiple names, click on *Another* to save.

Check Out Wireless Networking Hand Held Units (When you are ready to use the Wireless Networking Hand Held Units)

Go to Inventory Mgt. > Check In / Out

The screenshot shows the 'Check In/Out' window of the PRO-MAIL System. The window title is 'Check In/Out'. The menu bar includes: Receiving, Production, Inventory Mgt., Shipping, Reports, Utilities, Set-Up, Favorites, Site Map, Systems Available, and Log Out. The sub-menu bar includes: Manual Pull Entry, Fill Staging, Adjust/Xfer, Physical Inventory, Check In/Out, Product Inquiry, Inquiry/Reports, and Set-Up. The main content area has a 'Check In' section with the following fields:

Check In	
Check Out Date/Time	11/20/2006 9:22:41 AM
Check In Date/Time	11/20/2006 9:22:45 AM
RF Unit	222
Material Handler	Sam
Badge Number	09876
Check In Comments	<input type="text"/>

At the bottom of the window, there are two buttons: 'Check In' and 'Cancel'.

1. Select the Wireless Networking Hand Held Unit that is being checked out
2. Choose the Material Handler who will be using the Wireless Networking Hand Held Unit that is being checked out
3. Scan or enter the *badge number* for the Material Handler that is checking out the Wireless Networking Hand Held Units (This badge number will be required to log into the Wireless Networking Hand Held Unit)
4. Click on the Check Out button (System indicates that the Wireless Networking Hand Held Unit has been checked out)

The screenshot shows a dialog box titled 'Choose RF Unit'. It contains the following fields:

Choose RF Unit	
RF Unit	<input type="text"/>
Selected RF Unit	<input type="text"/>

At the bottom of the dialog box, there is a message: 'RF Unit 12345 has been checked out'.

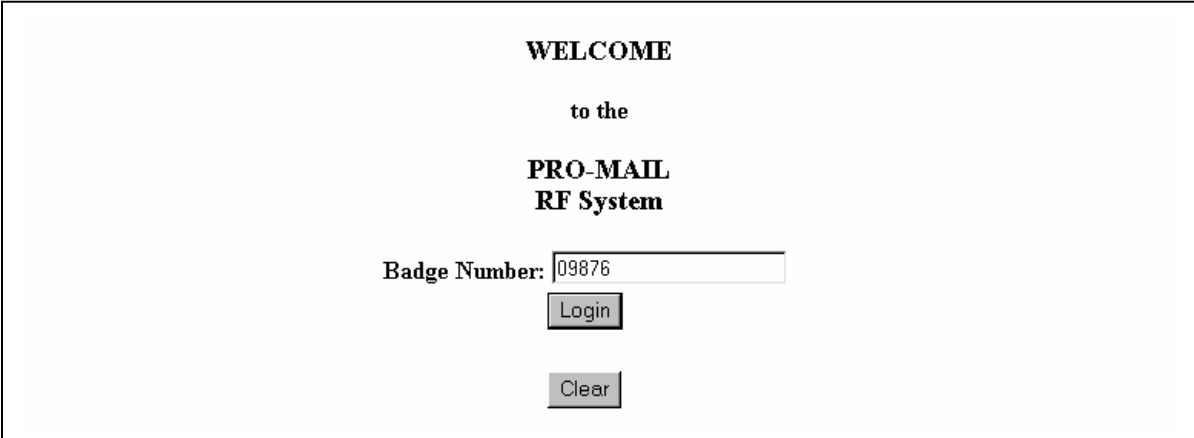
Using the Wireless Networking Hand Held Unit

The Symbol Wireless Networking Hand Held Unit can currently be used to process the following transactions:

1. Confirm Put Aways
2. Move Units
3. Merge Units
4. Confirm Pick slips
5. Confirm Automatic Assembly Manifest

Before You Begin: Logging into the Wireless Networking Hand Held Unit System

1. The Material handler using the Wireless Networking Hand Held Unit enters their badge number (which was previously defined) and clicks on the Login button.



WELCOME

to the

**PRO-MAIL
RF System**

Badge Number:

1. Confirming Put Aways

1. Scan each individual Unit Placard to be confirmed
 2. Scan the Location Id (where the Unit is to be located) on the Location Placard (**Note: To find and print Location Placards in the Version 5 Warehouse Management System, go to Utilities > Location Placard**)
 3. Upon successful completion, the Wireless Networking Hand Held Unit indicates *Unit X Confirmed*
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2. Moving Units

1. Scan the Unit Placard of the Unit to be Moved
2. Scan the Location Id (where the Unit is to moved) on the Location Placard
3. Upon successful completion, the Wireless Networking Hand Held Unit indicates *Unit X Confirmed* (Move Completed)

3. Merging Units

1. Scan the Unit Placard of the Unit to be Merged (The “Merge From Unit”)
2. Scan the Unit Placard of the Unit to be kept (the “Merge To Unit”)
3. Upon successful completion, the Wireless Networking Hand Held Unit indicates *Unit X Confirmed*) Merge Completed)

4. Confirming Pulls (Pick Slips)

1. Scan the Pick Slip to be Confirmed
2. Re-scan the Pick Slip to be Confirmed
3. Upon successful completion, the Pick Slip Ids will be cleared from the scanning fields

5. Confirming Automatic Assembly Manifest

1. Scan the Assembly Manifest to be Confirmed
2. Re-scan the Assembly Manifest to be Confirmed
3. Upon successful completion, the Wireless Networking Hand Held Unit indicates *Manifest Id X Kit Assembly Confirmed*

6. Exiting the Wireless Networking Hand Held Unit

1. To close down the Symbol unit, click on the *house icon* on the bottom of the screen. (This will bring you back to your Home Page.)
2. Press the red button on the lower left hand side of the Symbol unit to turn off

7. Check In the Wireless Networking Hand Held Unit (When you are finished using the Wireless Networking Hand Held Unit)

Go to Inventory Mgt. > Check In / Out (This step is performed in the Version 5 Warehouse Management System):

The screenshot shows the 'The PRO-MAIL System' interface. At the top, there is a navigation menu with 'Check In/Out' selected. Below the menu, there is a table with the following data:

Check In	Check Out
	11/20/2006 9:22:41 AM
11/20/2006 9:22:45 AM	

Below the table, there are fields for 'RF Unit' (222), 'Material Handler' (Sam), and 'Badge Number' (09876). There is also a text area for 'Check In Comments'.

1. Select the Wireless Networking Hand Held Unit that is being checked in
2. The system displays a new screen (see above) with a history of when the Wireless Networking Hand Held Unit was checked out / in, the Wireless Networking Hand Held Unit Id, Material Handler & Material Handler Badge Number.
3. Click on *Check In* button to check in the Wireless Networking Hand Held Unit