

Installation and User Manual
M&M V9 Physical Inventory Scanner System – v1.x
For Retail Pro® 9-Series v9.2, 9.3
and
iPhone 5, 5s, iPod Touch iOS 7, 8

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Overview

The M&M Physical Inventory scanner app is installed on an iPhone 5, 5s or iPod Touch.

The scanner app requires a SocketMobile 8ci or 7ci scanner. The 8ci is recommended because it can be attached to the iPhone or iPod using a clip on holder.

The scanner app also requires the M&M RPro Data Service. The data service is a utility program that is installed on the store's Retail Pro server. It acts as a bridge between the app and the Retail Pro database. The data service requires a license file.

Installation

M&M RPro Data Service

The M&M RPro Data Service is supplied in the MMRProDataSvc-vx.x.zip file (x.x is the version number).

Extract MMRProDataSvc.exe from the zip to any directory on the target system. The system MUST have access to the RetailPro9 directory and the Retail Pro Oracle database.

Extract ChilkatDelphioXE.dll and SIDGenerator.dll from the zip to the same directory as the M&M RPro Data Service. These DLLs do not have to be registered. They only need to be placed in the directory.

The data service should be configured so that it automatically restarts when the system reboots. This can be done using the Windows Task Scheduler and using a /U as a command line parameter.

The license file should be copied to the plugins folder under the RetailPro9 directory.

M&M Physical Inventory App

The MM Physical Inventory App is downloaded directly from the Apple store onto the device. The App is free.

The App is compatible with iOS 7 and 8.

M&M Scanner Plugin

From the zip file copy MMScanner.dll, MMScanner.mnf and MMScannerImport.bmp to the plugins directory.

Register MMScanner.dll using regsvr32.

Copy RP9DA.dll to the RetailPro9 directory.

Register RP9DA.dll using regsvr32.

Menu Setup

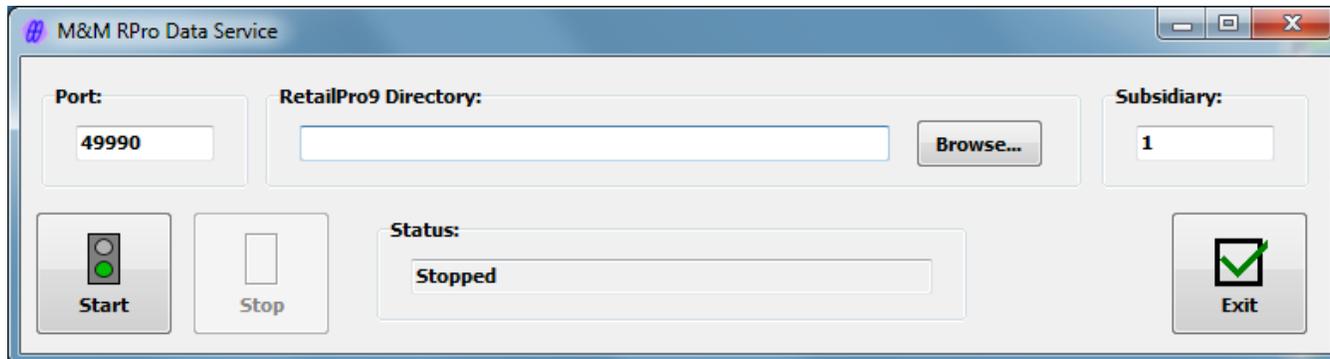
In Retail Pro go to the Inventory List View screen and add the Import PI button to the side menu.

Add the Import Items button to the side menus of the Receipt, Sales Order, Purchase Order, Voucher, Transfer Order, Slip and Adjustment Memo Form View screens.

Operation

M&M RPro Data Service

Start the data service:



The port number should not be changed unless there is a port conflict on the system.

Enter or browse for the location of the RetailPro9 directory.

Enter a subsidiary number. Subsidiary is only used for some operations. It will not affect the PI Scanner App.

Click the Start button to start the data service.

When minimized, the service will minimize to the system tray. Double click the purple M&M icon to bring it back into view.

If the service is started and a socket error is displayed, it usually means that the service is already running.

M&M Physical Inventory App

Pairing The Scanner

Prior to using the app, the SocketMobile scanner must be put in iOS mode by scanning the iOS Mode barcode (#FNB00F40002#). The scanner should then be paired with the iPhone or iPod Touch.

IT IS VERY IMPORTANT TO PLACE THE SCANNER IN iOS MODE PRIOR TO PAIRING. SEE THE SOCKETMOBILE INSTRUCTIONS.

Settings

When the app is started for the first time, the Settings screen is displayed:

The screenshot shows the 'Settings' screen for the M&M RPro Data Service. At the top, the status bar shows AT&T, signal strength, 4:14 PM, location services, Bluetooth, and 100% battery. The settings are organized as follows:

- M&M RPro Data Service:**
 - Host:
 - Port:
 - Timeout:
 - Test Connection: [Test Connection](#)
- Display:**
 - Description1:
 - Description2:
 - Attr:
 - Size:
 - Verify On Scan:
- Done: [Done](#)

A wifi connection is required for operation of the app.

Enter the IP Address of the system running the M&M RPro Data Service. If the data service port was changed, enter the new port number.

Enter a timeout value. The default is 15 seconds.

Touch Test Connection to verify that the data service can be reached.

The display selections determine the RPro item information is displayed with the barcode when scanning items.

At least one of Description1 or Description 2 must be selected.

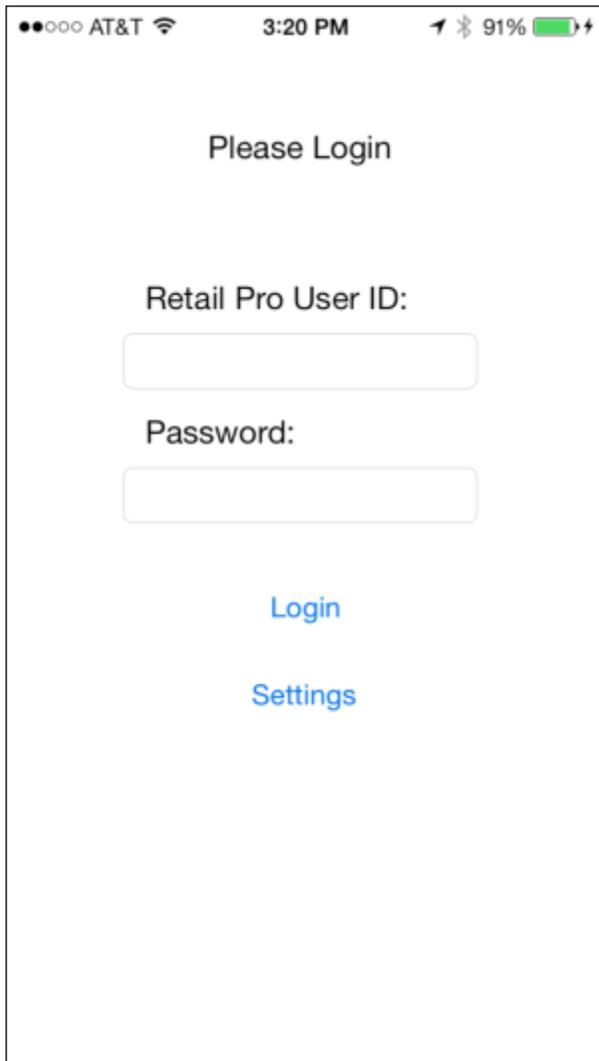
If Verify On Scan is turned on, then each scan is verified against RPro inventory as it happens.

If Verify On Scan is not used, all barcodes that have been scanned can be verified in bulk at any time.

When all settings are entered, touch Done.

Login

The Login screen is displayed each time the app is started:



●●○○ AT&T 3:20 PM 91%

Please Login

Retail Pro User ID:

Password:

Login

Settings

Enter your Retail Pro user ID and password.

After the first login, the last user ID entered is automatically displayed.

Touch Login to log in.

If the user ID and password are valid and licensing is valid, the Scan Sets screen is displayed.

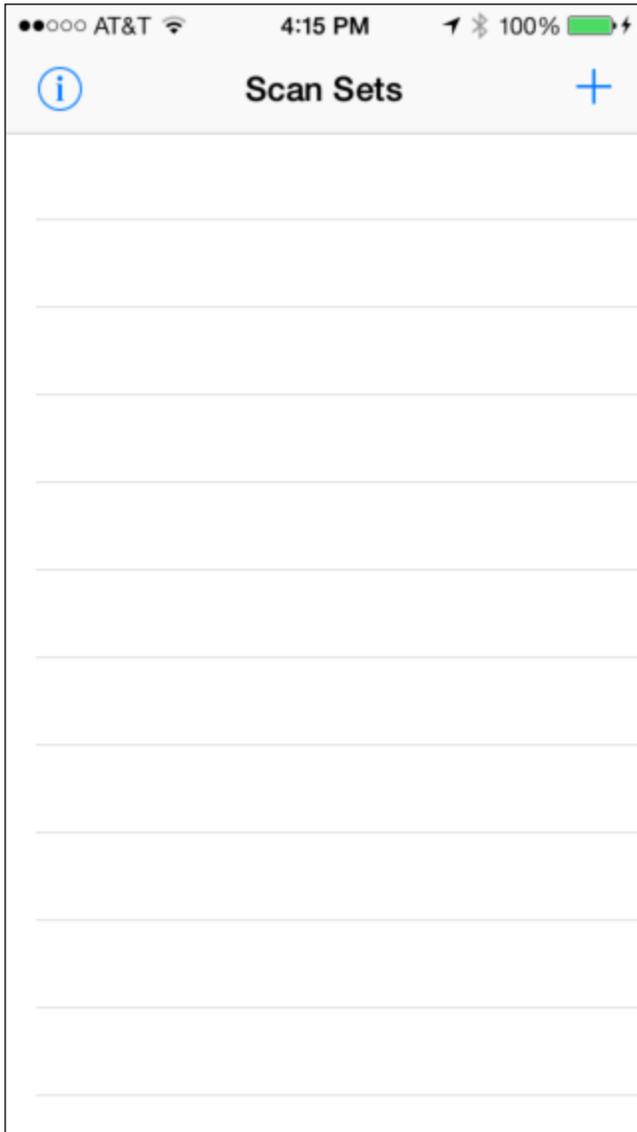
Note: Touch Settings to display the Settings screen. This may be necessary if the IP address of the data service has changed since the last login.

Scan Sets

A scan set is a collection of barcodes assigned to a Subsidiary, Store and Zone.

Any number of scan sets can be stored on the device at one time.

After successful log in, the Scan Sets screen is displayed:



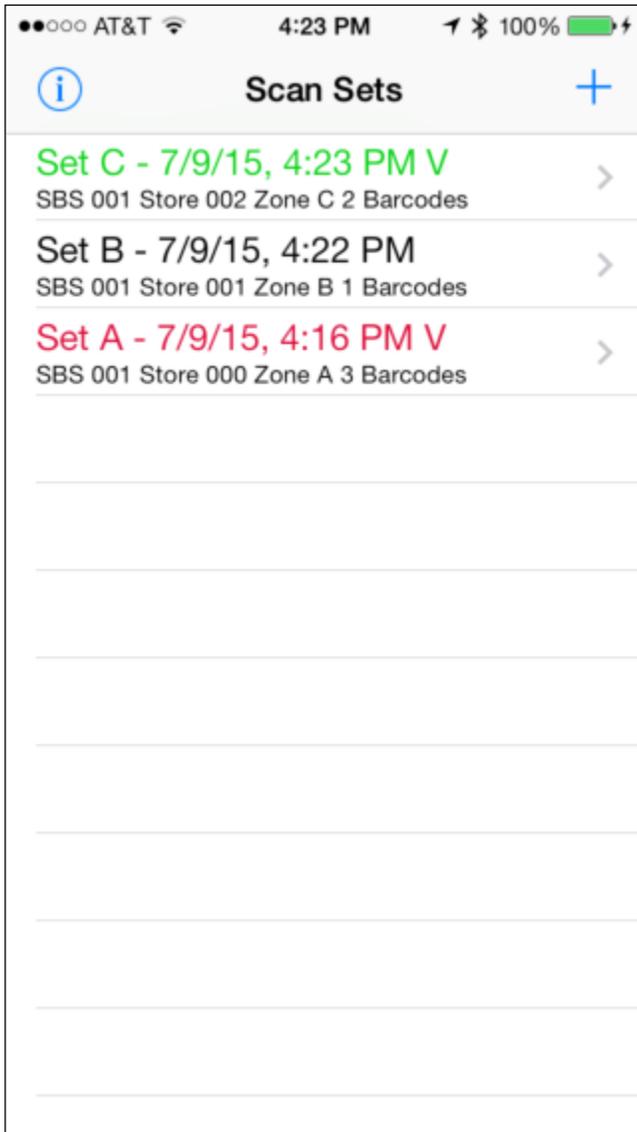
Touch the Info button on the top left to display the Settings screen.

Any scan sets already on the device will be displayed on this screen.

Adding A Scan Set

Touch the Add button on the top right to add a new Scan Set.

Scan Sets screen with multiple scan sets:



Each row shows the set name, date and time it was created, subsidiary, store, zone and number of unique barcodes that have been scanned.

A "V" after the date/time means the scan set has been verified against RPro inventory. The date/time is the date/time the last verification was done.

A "U" after the date/time means the scan set has been uploaded to the Retail Pro system. The date/time is the date/time of the last upload.

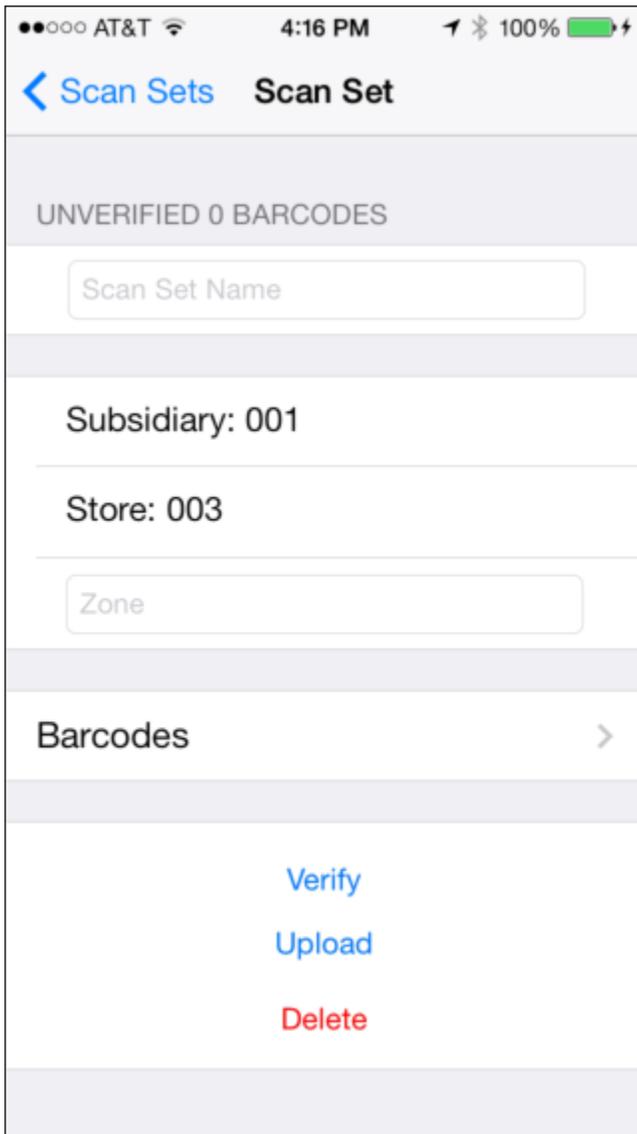
Green means the scan set does not contain any invalid barcodes.

Red means the scan set does contain invalid barcodes.

Blue means the scan set has been uploaded to the Retail Pro system.

Scan Set Screen

The Scan Set screen displays details for the selected scan set.



Scan Set Status

This header displays status information and a count of unique barcodes in the scan set.

Status is one of: Unverified, Verified or Uploaded.

Unverified – There is at least one barcode that has not been verified.

Verified – All barcodes have been verified. But there can be invalid barcodes in the set.

Upload – The scan set has been uploaded to the RPro system. If a barcode is added after an upload, the status reverts to Unverified or Verified.

Scan Set Name

Enter a name for the Scan Set. This can be changed at any time.

Subsidiary, Store and Zone

Touch Subsidiary to display a subsidiary picker. Select a Subsidiary.

Touch Store to display a store picker. (Note: Store Codes are used). Select a store.

Enter a Zone. (Optional).

Touch Barcodes to move to the Barcodes screen.

Verify

Touch Verify to verify all barcodes in the scan. Barcodes are verified against RPro inventory using the data service.

Upload

Touch Upload to upload the scan set to the Retail Pro system.

Delete

Touch Delete to delete the entire scan set (including all barcodes). A confirmation is displayed.

Uploaded Files

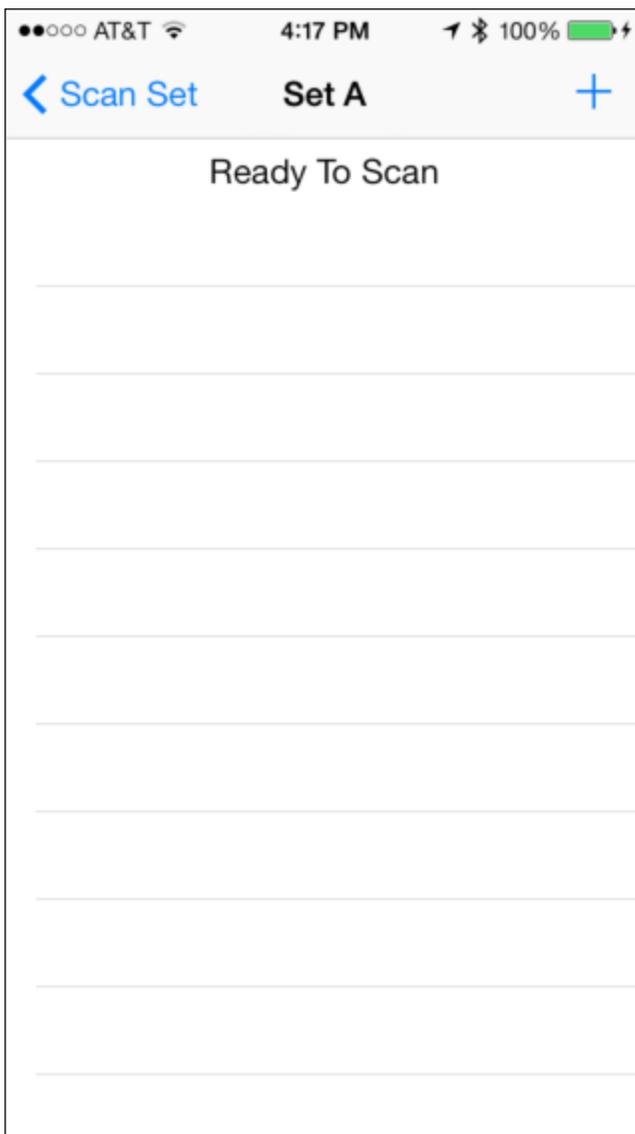
The uploaded file is placed in a directory named MMPIScanner under the RetailPro9 directory.

File names are in the format: [ScanSetName]-[Number]-[SBS]-[StoreCode]-[Zone]-yyyymmdd.txt

Note: When a barcode has serial numbers assigned, there is one line in the file for each barcode/serial number combination with a count of 1. If the total count for the barcode exceeds the number of serial numbers, another line is sent with the barcode with no serial number but with the count set to the total count minus the number of serial numbers.

Barcodes

Barcodes are scanned into the Barcodes screen:



Status Message

If the status message at the top of the screen reads "No Scanner" then the scanner is either not on or has not been paired with the device.

The scanner can be turned on at any time and if it is paired, will be detected by the app. When the scanner is detected, the scanner and the device will beep.

Manual Barcode Entry

Barcodes can be entered manually. Touch the Add button at the top right of the screen. The Manual Barcode screen will be displayed.

Enter a code and touch Done or touch Cancel to cancel the operation.

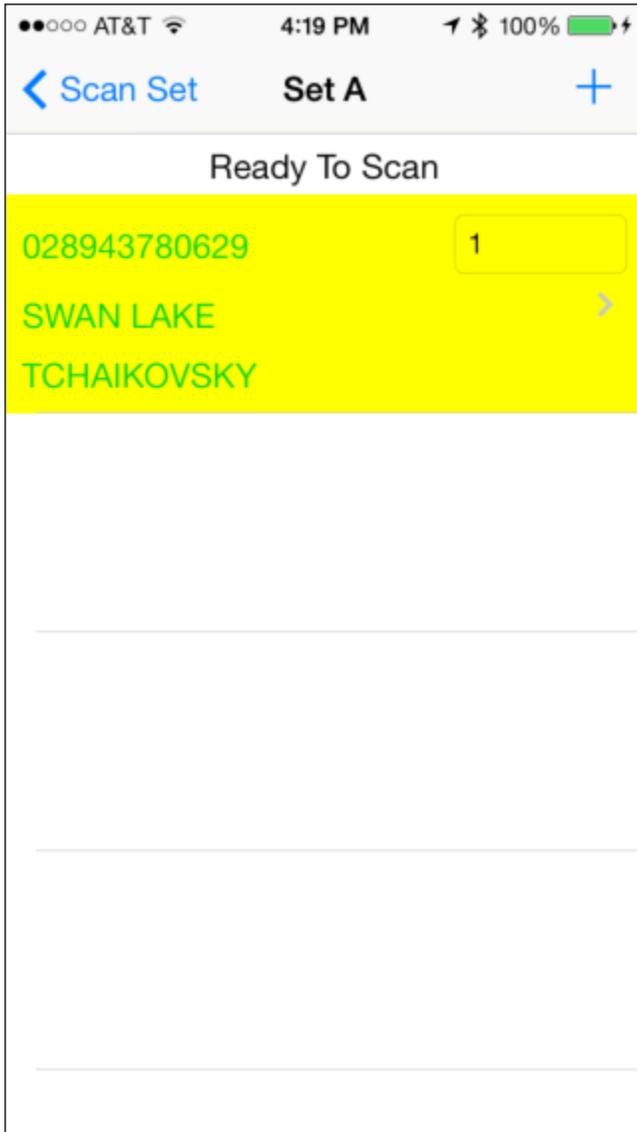
Scanning Barcodes

With the scanner detected (status is "Ready To Scan"), scan a barcode.

When the barcode is scanned, the scanner will beep. When the barcode is detected by the app, the device will beep.

If "Verify On Scan" has been turned on, the barcode is immediately verified against the Retail Pro database.

Barcode Display

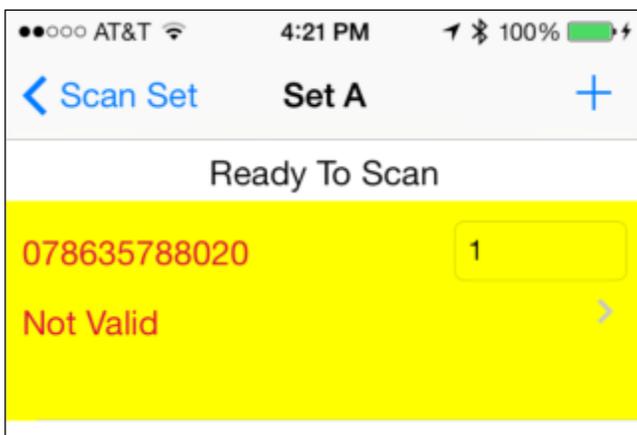


Each barcode scanned shows the barcode and the quantity scanned.

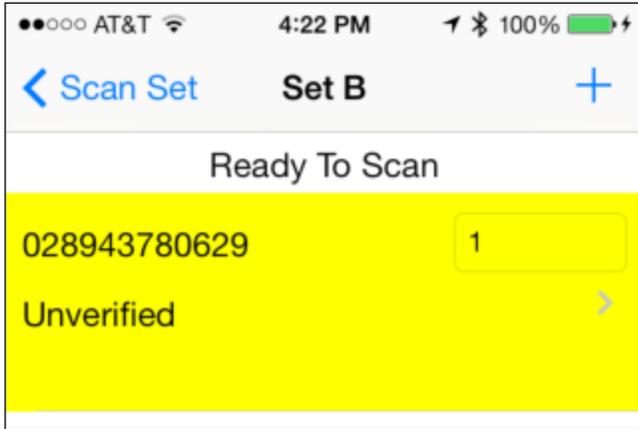
If "Verify On Scan" is being used and the barcode is found in Retail Pro inventory, the barcode and item information is displayed in green.

The quantity can be changed manually by touching the quantity field.

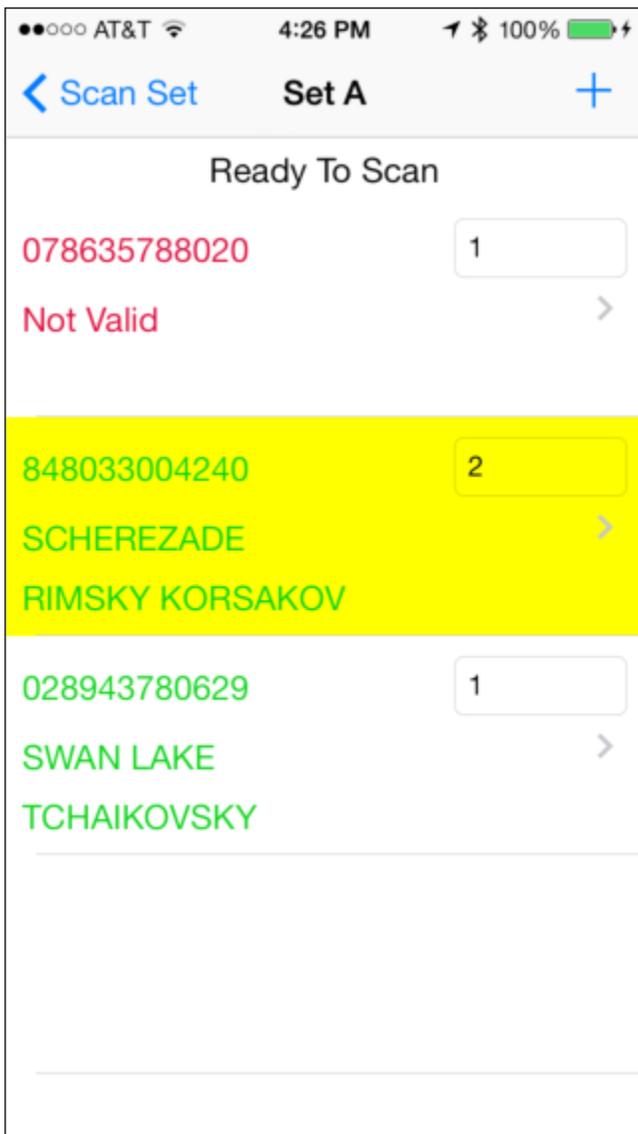
The quantity is increased by one for each additional scan.



Barcodes that cannot be found in inventory are displayed in red and labeled "Not Valid".



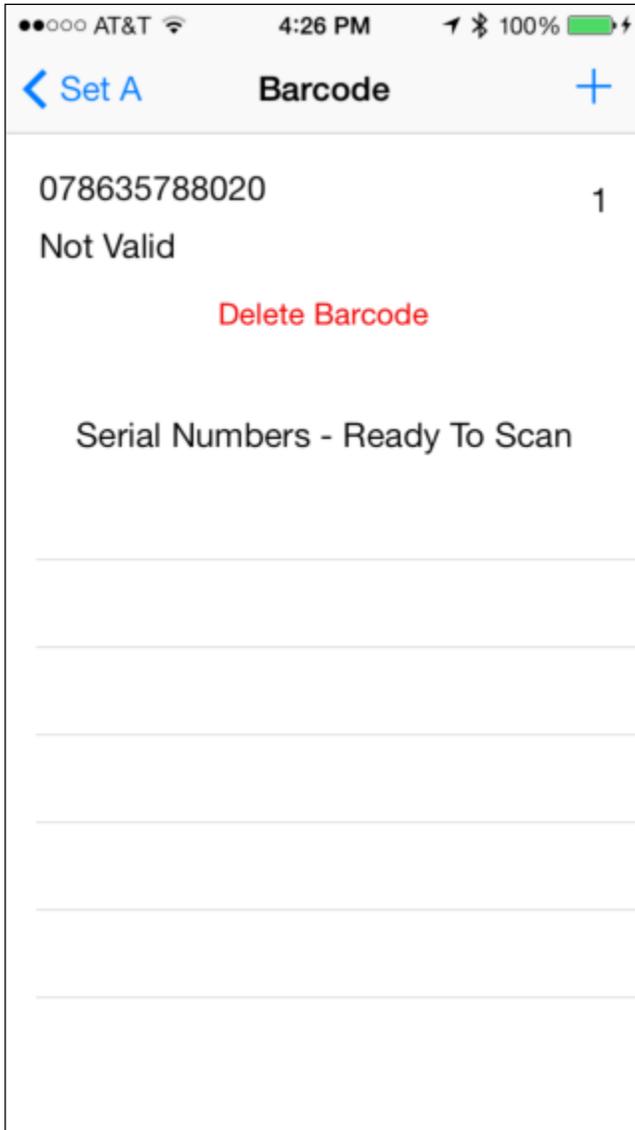
If "Verify On Scan" is not being used, the barcode is displayed in black and labeled "Unverified".



The last barcode scanned is always highlighted in yellow and positioned so that it is visible.

Deleting Barcodes and Adding Serial Numbers

Touch a barcode row to display the Delete Barcodes/Serial Number display:



Delete Barcode

Touch Delete Barcode to delete the barcode. A confirmation is displayed.

If a barcode with serial numbers is deleted, the serial numbers are deleted.

Scanning Serial Numbers

If "Ready To Scan" is displayed then the scanner is connected and can scan serial numbers.

If "No Scanner" is displayed then the scanner is not connected.

When a serial number is scanned, the scanner will beep.

The device will beep when the serial number scan is received at the device.

Manual Serial Number Entry

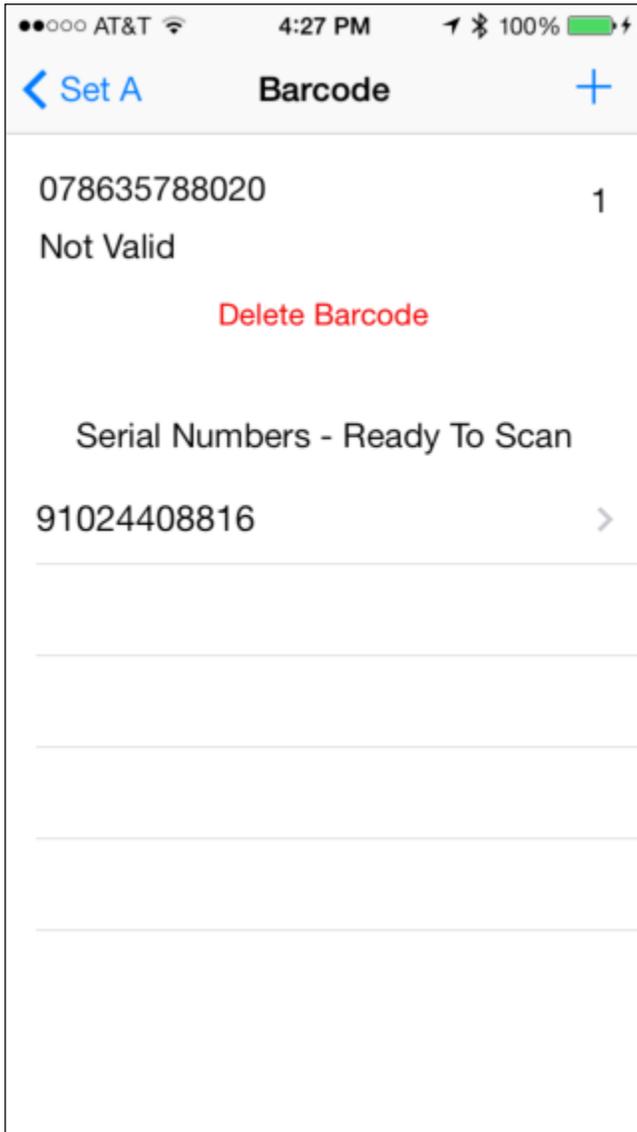
Touch the Add button at the top right of the screen to display the Manual Serial Number entry screen.

Enter the serial number and touch Done or touch Cancel to cancel the operation.

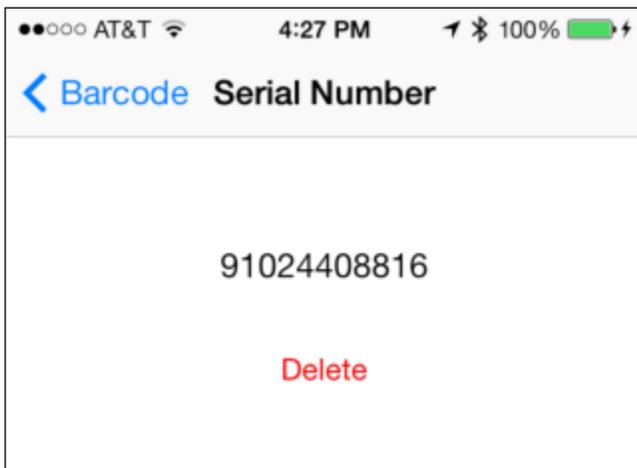
Note: When a serial number is scanned or entered, the barcode quantity is increased by 1 (this is done after the first serial number is added because the barcode quantity is at least one when the Serial Number screen is entered).

Serial numbers are not verified against the Retail Pro inventory.

Deleting Serial Numbers



To delete a serial number, touch the row. The Delete Serial Number screen will be displayed.



Touch Delete to delete the serial number. A confirmation is displayed.

The barcode quantity is decreased by one when a serial number is deleted (but not below 1).

M&M Scanner Plugin

The MM Scanner plugin is designed to use the files uploaded by the PI Scanner App.

The Mm Scanner plugin can be used to import scans into Physical Inventory and into Receipts, Sales Orders, Purchase Orders, Vouchers, Transfer Orders, Slip and Adjustment Memos.

Importing Scans Into Physical Inventory

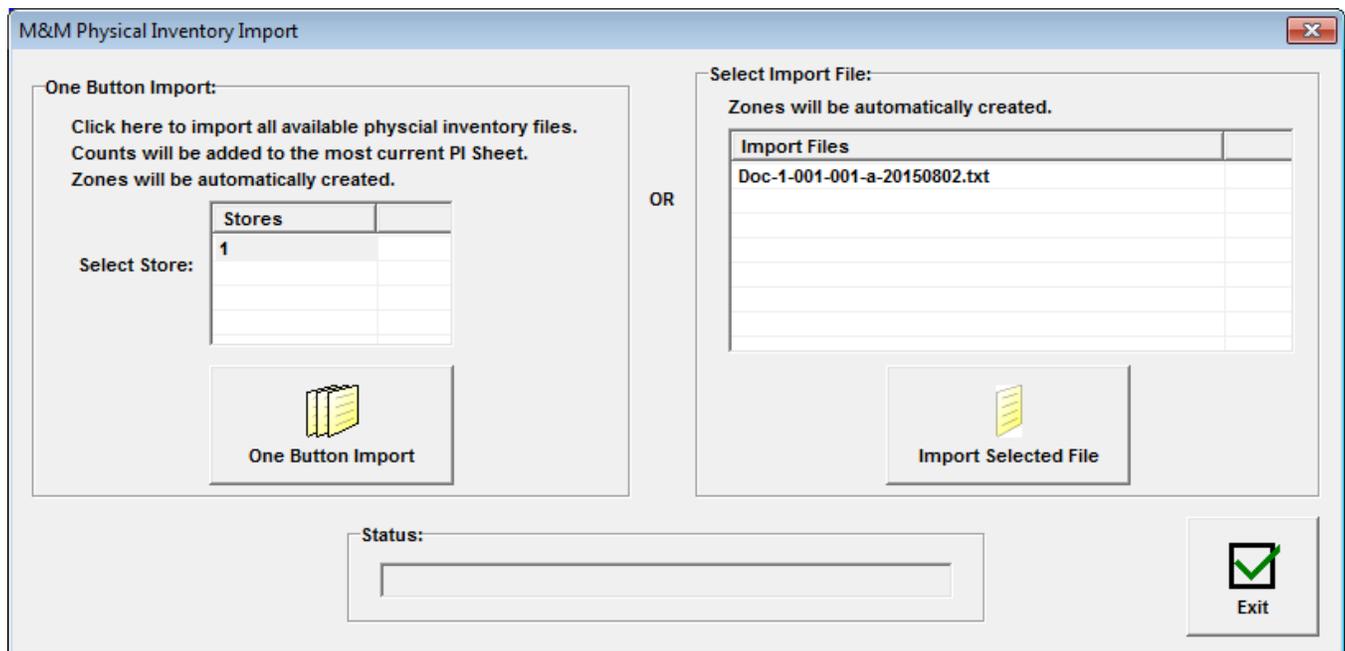
Complete scanning items and upload the scan sets to the Retail Pro system.

Start a physical inventory in Retail Pro for the store.

Return to the Inventory List View screen and click the Import PI button:



The M&M Physical Inventory Import screen will be displayed:



All stores with a current, active PI Sheet are displayed in the left-hand side of the screen.

All import files that have been uploaded from the M&M PI Scanner App are displayed in the right-hand side of the screen.

There are two ways to import the scanner data into physical inventory: One Button Import or Import Selected File.

One Button Import

Use One Button Import to import all files for a selected store.

Select a store from the list.

Click One Button Import. All scans that have been uploaded for the store will be imported into physical inventory.

If Zones have been used, they are created if not already in Retail Pro. Scans are imported into their zone.

Serial numbers are also imported if they have been used.

Import Selected File

To import a selected file, select the file from the list and click Import Selected File. File names are in the format: [ScanSetName]-[Number]-[SBS]-[StoreCode]-[Zone]-yyyymmdd.txt.

The selected file is imported into physical inventory. If the selected file has a zone assigned and the zone is not in PI, it is created.

After Import

When importing is complete, the files that have been processed are moved to either the RetailPro9\MMScanner\Success directory or RetailPro9\MMScanner\Error directory.

The imported scans must be reviewed in PI and the zones merged into the Store PI sheet.

Import Log File

A log file is generated during the import process. The log contains a record of any errors.

Log files can be found in the RetailPro9\MMScanner\Logs directory.

Importing Into A Zone Sheet

It is possible to import an uploaded file into a zone sheet using an import map.

To do this, set up the import map as follows and use the Retail Pro physical inventory process for importing a scanner file using an import map (Physical Inventory>Zones>Scanned>Add Counts>Import Tab).

Import Map:

Section	Begin	End	Length
Item #/Local UPC/ALU	1	20	20
Count	21	25	5
Zone	26	30	5
Sub-location	0	0	0
Serial #	31	55	25
Lot #	0	0	0

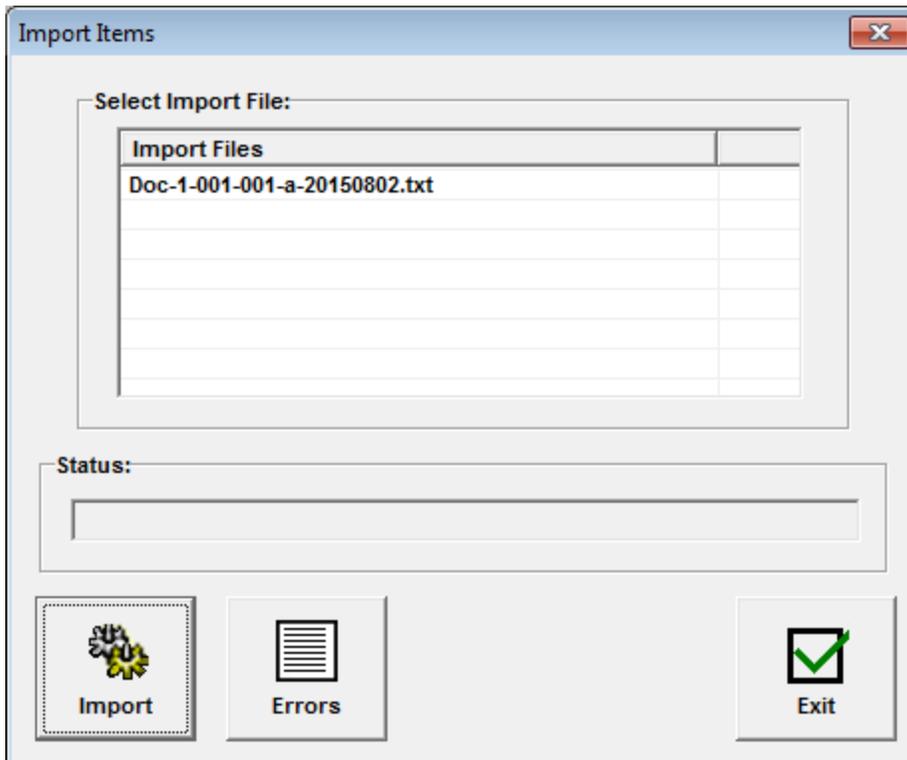
Importing Scans Into Documents

Items, quantities and, in some cases, serial numbers can be imported into Receipts, Sales Orders, Purchase Orders, Vouchers, Transfer Orders, Slip and Memos from uploaded scanner files.

To import scanner files, click the Import Items button from the document Form View:



The Import Items screen is displayed:



All uploaded files that have not been imported are displayed.

Select a file and click the Import button to start the import. Items and quantities are imported into the document.

If serial numbers have been scanned, they are imported for Receipts, Sales Orders, Vouchers and Slips.

Quantities are ignored when importing into Price and Cost Adjustment Memos.

When the import is complete, the Status will indicate whether or not there are errors. Errors can be viewed by clicking the Errors button.

When importing is complete, the files that have been processed are moved to either the RetailPro9\MMSscanner\Success directory or RetailPro9\MMSscanner>Error directory.