

# Warehouse Management Overview



from  
The Systems House,  
Inc.



# Warehouse Management Overview

- ◆ Business Benefits
- ◆ Wireless Solutions
- ◆ Warehouse Preparation
- ◆ Receiving and Put Away
- ◆ Picking and Replenishment
- ◆ Physical Inventory
- ◆ Inventory Movement & Adjustments
- ◆ Shipping and Delivery



# Benefits of MDS-WMS

- Improved inventory accuracy
- Improve personnel performance and accuracy
- Determine time to pick by individual
- Better utilization of warehouse space
- More flexible scheduling

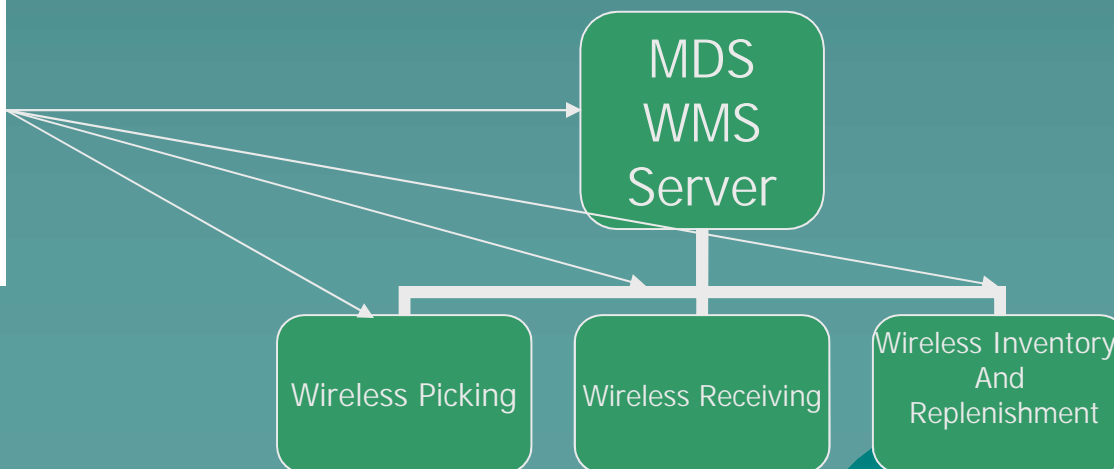


# Wireless Warehouse Management Solutions

- ◆ Managing the Warehouse
  - Product or Location Bar Coding
  - Receiving and Put Away
  - WiFi or RF Picking
  - Replenishment
  - Shipping
  - Physical Inventory/ Movements / Adjustment
- ◆ Delivery Route Management (Standalone or Integrated)
  - Manifest System
  - Proof of Delivery (Signature capture)
  - Package Tracking with Multiple Stops



# WiFi Equipment Schematic





# WiFi PDT Handheld/ Equipment

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PRODUCTS

Home > Products > Mobile Computers > Rugged Enterprise > MC70

Back to Home | Features | Product Overview | Mobile Computers | Rugged Enterprise | Enterprise Class | MC70

MC70  
MC70  
SRT1550  
SRT1550

One view | Data Sheet | Release Documents

**The first rugged enterprise class digital assistant**

Put the power of a cell phone, PDA, computer, scanner and imager in the hands of your mobile workers with the MC70. Designed to withstand a day on any job, it has built-in security, rugged design, long battery life and features like a 3.5" wide-angle camera, wireless LAN, Wi-Fi, Bluetooth, and a 3.5" color display. Communications including support for voice, fax, e-mail, and advanced data capture and the power to run multiple applications. The MC70 provides everything you need for your mobile workers to work more effectively, wherever they are: out in the field, reading manifests, creating packages or returning applications on the retail floor, using inventory or time logs, or checking the status of a combine in a field of crops.

Learn More

- View Datasheet
- Contact Symbol
- Request a Demo

Services Available

- Services for the Field - MC70
- Service Management



*mcds* Warehouse

from The Systems House, Inc.

# Warehouse Preparation

## ◆ The Warehouse

- Multiple Warehouses
- Multiple Locations within warehouse
- Primary & Backup Locations
- Low Unit vs. Bulk Picking
- Environmental & Security Considerations
- Lot#, Serial#, Expiration Date control



## ◆ Product Barcoding

- Manufacturer can label products
- Significant cost to barcode Items upon receipt
- Bar Codes do not define Unit of Measure
- Alternate: Barcode Locations
- Maintain Product by Location (one item per location)



# Warehouse Management Selector

MIS for Windows Version 7.12.0 - [rs00004-5100 DIST.12-4 LOCATOR.MENU]

File Edit Settings View Reset Tools GUI PDQ Standard Functions Special Functions Help

Account: 188 DIST.12 Part: 188 Menu: LOCATOR.MENU Capture: On

**Location:**

- 1. Location Maintenance
- 2. Location Labels
- 3. Environment Maintenance
- 4. Location Adjustment
- 5. Location Movement
- 6. Location Lot Movement
- 7. Location Report Menu

**Shipping:**

- 18. Verification
- 19. Shipping Update
- 20. Batch Shipping Update
- 21. Packing Slip
- 22. Void Shipment
- 23. Manifest System

**Purchasing:**

- 8. Receiving Form
- 9. PO Receipts Menu

**Picking:**

- 10. Batch Pick Ticket Print
- 11. Replenishment - Orders to Be Picked
- 12. Batch Pick Ticket Reprint
- 13. Replenishment - Nightly Run
- 14. Replenishment Completion
- 15. Batch Pick Report
- 16. Replenishment Assignment
- 17. Picking Ticket Assignment

21. Picker Statistics Detail Report

25. Picker Statistics Summary Report

Enter Selection or LNU :

OE	CONTACTS	MAINT	DRILL	EXECING	REPORTS	CAPT OFF	VIEW	CRJ/MENU	VRA/MENU		
HELP	OK/END	INSERT	LDELETE	PREV PG	NEXT PG	INQUIRY	CANCEL	OFF			Print



# Location Control and Setup

**LOCATION MASTER FILE**

Warehouse: 002 CLIFTON, NJ  
 Location: A-001

1. Physical Location: PRIMARY PICK  
 2. Environment Code: 01 STD WAREHOUSE  
 3. Type: P  
 4. Size:   
 5. Limit: 0  
 6. Levels: 1  
 7. Bulk Pick:   
 8. Multiple Products:   
 9. Products:

Note: Environment and Type cannot be changed if this Location is not empty.

		OnHand	OnHand Volume	% Capacity
ARWKSILF	STICK UP DEOD FVFRGRFFM	50	3.000	25.00
ARWKSUL	STICK UP DEOD LEMON	500	5.000	41.67
GLVE650130	GLOVE NS LTX SM PWDRFREE	25	1.250	10.12
			0.000	0.00
			0.000	0.00
<b>Totals</b>		575	9.250	77.08

10. Length: 48  
 11. Width: 36  
 12. Height: 12  
 Total Volume (Cubic Feet): 12,000

ENTER LINE # TO CHANGE,DELETE TO DELETE,0 TO ACCEPT : XXXXXX

HELP OK/FND INSERT I DELETE PREV PG NEXT PG INQUIRY CANCEL OFF Pickup

# Inventory Information

MDS for Windows Version 7.12.6 [rs5000d 3380 DEMO.12 PROD.DET.MAINT00811]

File Edit Settings View Reset Tools GUL FDX Standard Functions Special Functions Help

**Product Detail Maintenance**

Warehouse # 002 CLIFTON, NJ

Product # GLVE650130 GLOVE NS LTX SM PWDRFREE

1. Last Cost  
 2. STD Cost  
 3. Message  
 4. OH Negative Ind Y  
 5. Lot/Serial Logic N  
 6. Auto Lot Select  
 7. Unit/Len Qty U  
 8. Cycle Count Code  
 9. Multi-Location Pick in Use Y  
 10. Solid Case Pick in Use N  
 11. Solid Case Maximum Pick  
 12. Primary Location Minimum 10  
 13. Primary Location Maximum 40  
 14. Solid Case Location Minimum  
 15. Solid Case Location Maximum

16. Locations

	Loc	Type
1.	A-1111	P
2.	A-100	N
3.	A-100	
4.		

Enter Line# to Change, Delete to delete, OK to Accept: XXXXXX

PAGE 1 OF 2

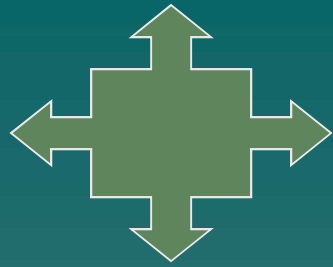
HELP	OK/END	INSERT	DELETE	PREV PG	NEXT PG	INQUIRY	CANCEL	ORT	PopUp
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# Receiving and Put Away



- ◆ Paperless receiving using Portable Data Terminals (PDTs)
- ◆ Recall Purchase Order(s) to PDT
- ◆ Receive to “Receiving Location”
- ◆ Inspect & approve receipt
- ◆ Put away merchandise and record bin locations using PDT based on
  - Available space in primary location
  - Existing backup location
  - Additional backup location
- ◆ Generate bar coded labels at receiving (Option)
  - Product Labels
  - Lot#, expiration date, weight
  - Pallet Labels



# WiFi or RF Picking



- ◆ MDS splits order into bulk and low unit picks
- ◆ Warehouse manager assigns pickers
- ◆ Picker obtains next assigned order from PDT
- ◆ Display in pick sequence – picker can change sequence
- ◆ Picker verifies picked items & quantities by barcode (Item or Location)
- ◆ Discrepancies noted for review and correction
- ◆ Labor tracking by picker

# Picking Ticket Assignment

MDS for Windows Version 7.12.6 - [460004-03] [TSAR.TEST-PICK.TICKET.ASSIGN79751]

File Edit Settings View Reset Tools GUI LIA Standard Functions Special Functions Help

MDS Picking Ticket Assignment

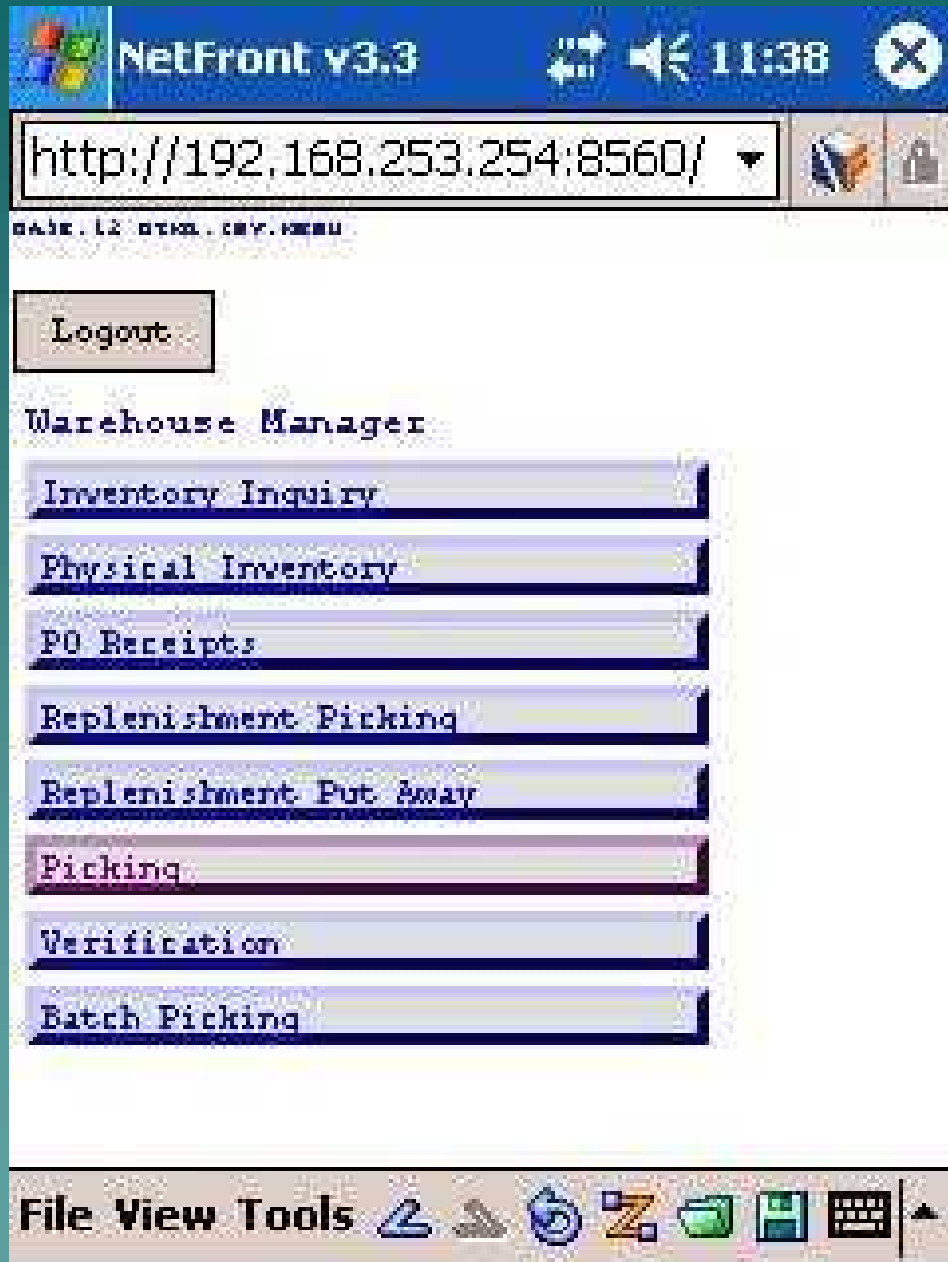
Picker: ALL  
Pick Status: P

Lrn#	Release	Date	Time	Ship To	SV	Bulk					Piece					
						Lns	Qty	BT	ID#	S	Lns	BT	ID#	S	P	ST
1	01283982001	05/12	11:02	CHILD CARE	SM						C	3		03	P	
2	01283978001	05/10	13:19	ADMINISTRA	RC						C	2		83	P	
3	01439584001	07/03	13:01	ER02	GS	1	138		83		P	4		83	P	
4	01283842001	02/22	08:51	O.R. COLLE	LM						C	3		64	P	4
5	01284235001	01/04	08:42	PERINATAL-	LM	1	200				P	1			P	5
6	01284232001	01/03	14:49	6W IV HP -	HT	2	72	83			P	7			P	5
7	01284233001	01/03	14:49	BDS B-CART	HT						C	5			P	5
8	01284234001	01/03	15:42	PRF-ADMIS	HP						C	1			P	5
9	01283973001	05/16	14:17	O.R. 2ND F	LM						C	1		64	P	7
10																
11																
12																
13																
14																
15																

ENTER LINE # TO CHANGE, 0 TO ACCEPT : 000000

Def Help	HELP	OK/END	INSERT	LDELETE	PREV PG	NEXT PG	INQUIRY	CANCEL	Off			PopUp
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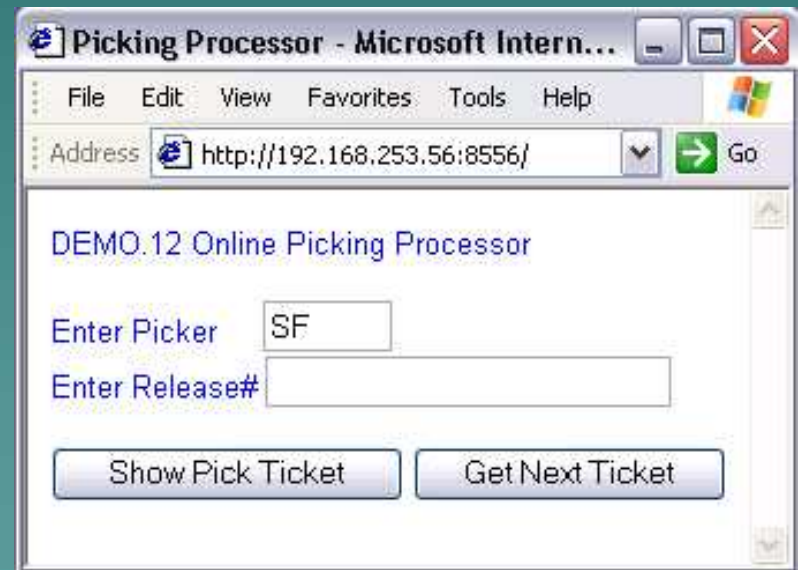
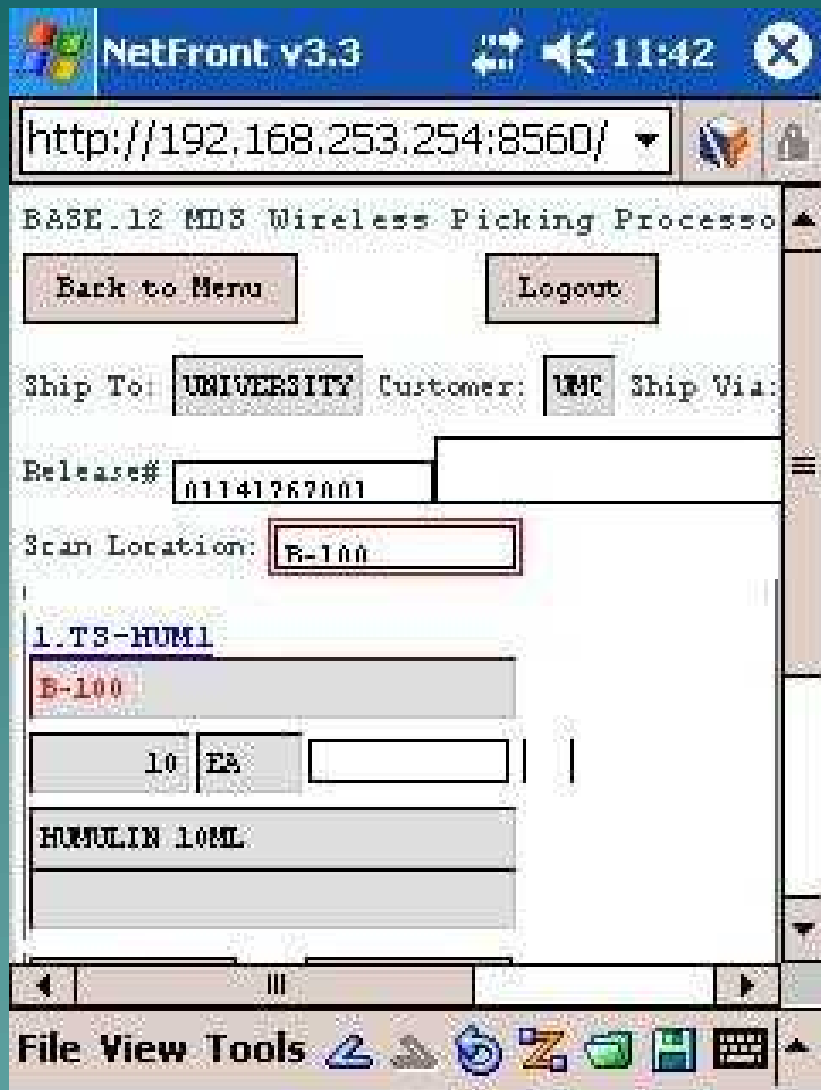




# Wireless Menu

Customizable  
HTML Menu  
by Operator

# Wireless Picking Using Scanners



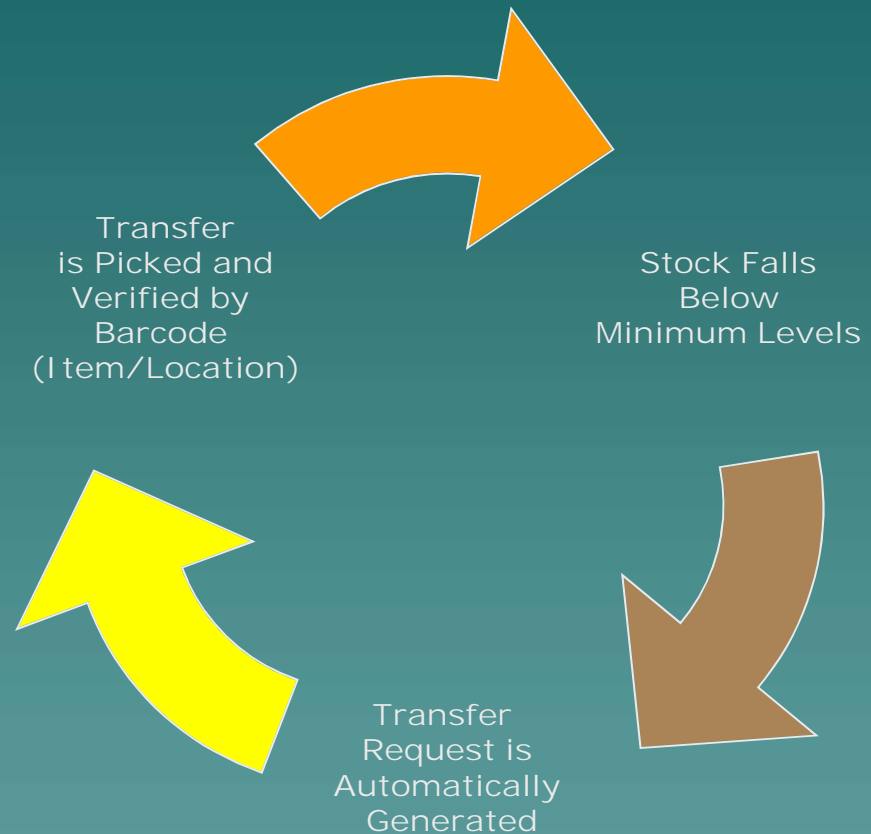
# Picker Statistics Report

Pick Statistics Detail Report ran on 14 Jun 2007 Page 1

PICKER...	LOGON.TIME	LOGON.DATE	TERMINAL.ID.....	LOGOFF.TIME	LOGOFF.DATE	ELAPSED.TIME	PICK.LINES	AVG.LINES.	PICK.QTY..
22	07:12:41am	12/01/06	192.168.168.163	09:11:38am	12/01/06	1.98	64	32	1023
22	09:12:41am	12/01/06	192.168.168.178	10:38:28am	12/01/06	1.43	89	62	1313
22	11:16:15am	12/01/06	192.160.160.163	11:17:05am	12/01/06	0.01	0	0	0
22	12:38:11pm	12/01/06	192.168.168.163	01:30:29pm	12/01/06	1.01	57	56	654
22	06:49:13am	12/06/06	192.168.168.163	08:33:52am	12/06/06	1.74	80	45	1733
22	10:06:53am	12/06/06	192.168.168.198	10:06:53am	12/06/06	0.00	0	0	0
22	10:08:03am	12/06/06	192.168.168.163	10:34:50am	12/06/06	0.45	29	64	269
22	10:35:21am	12/06/06	192.168.168.163	10:42:55am	12/06/06	0.13	8	61	69
22	11:20:30am	12/06/06	192.168.168.163	11:56:10am	12/06/06	0.59	42	71	408
22	11:59:12am	12/06/06	192.168.168.163	12:43:58pm	12/06/06	0.75	33	44	355
22	12:47:11pm	12/06/06	192.168.168.194	01:06:02pm	12/06/06	0.31	7	22	38
22	01:23:57pm	12/06/06	192.168.168.194	02:33:19pm	12/06/06	1.16	43	37	531
***						9.56	452	47	6393
						9.56	452	47	6393

# Replenishment Process

- Daily and Just in Time replenishment
- Daily – Restock all primary pick locations up to pre-determined level (i.e. 2 days supplies)
- During day – replenish locations falling below minimum
- Transfer request generated on paper & electronically
- Transfers verified by barcode (Item or Location)



# Replenishment



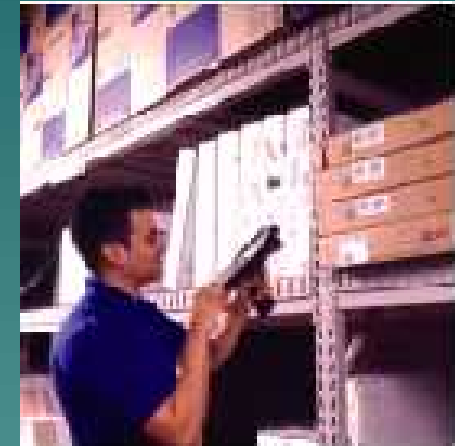
- Transfer ID is scanned.
- On the replenishment picking, each "from" location is scanned.
- On the replenishment put-away, each "to" location is scanned.
- After scanning the "to" location, the product is moved in the system to the new location and an inventory audit is created.





# Warehouse & Inventory Procedures

- ◆ Other Procedures
  - Cycle Counts
  - Physical Inventory
  - Inventory Adjustments



***mds* Warehouse**  
from The Systems House, Inc.

# Physical Inventory

MDS for Windows Version 7.11.11 - [RS60000.tshinc.com-19 HASL 12-PL 1A(01N010S1)]

File Edit Settings View Faser Tools GUI FDA Standard Functions Special Functions Help

Physical Inventory Tag Generation

Date Created: 02/04/15  
Time Created: 01:00:40pm  
Status Code: V

Cyclic Count Code: 7777

1. Unit-Physical: 1  
2. Warehouse Number: 001  
3. Selection Type: 9

4. From PO# or ALL		15. PO#	
5. From Vendor#		16. Vendor	
6. From Prod Line		17. Prod Line	
7. From Product#		18. Product#	
10. In Cycle		19. In Cycle	
9. From Product Park		20. In Park	
10. From Prod Class		21. To P/C	
11. From Whse or ALL		22. To Whse	
12. From Location or ALL	ALL	23. To Location	

13. Generate Tags: Y  
14. Blank Tags:

XXXXXXXX

HELP OK/END INSERT LDELETE PREV PG NEXT PG INQUIRY CANCEL OFF Popup

Windows taskbar: Start, Taskbar icons, Taskbar buttons (Index - Micro..., 257 - Drag D..., Google Search..., MDS for Wind..., Microsoft Po...), System tray (9:15 PM)

**Physical Inventory**

**Scan tag, location or product and enter counts.**

NetFront v3.2 12:57

http://199.72.180.6:8560/

[Back to Menu](#) [Logout](#)

Scan  Tag# 324324 Whs

Item# STKE0375-951-000 [In](#)

Desc \*BUR. FLUTE. 6 (5.5MM) Lot#

Location RA01-01-1 Count

LN	U/M	QTY	COUNT	QTY	STK	QTY
1.	CS	5	<input type="text"/>			
2.	BX	5	<input type="text"/>			
3.	EA	1	<input type="text"/>			

File View Tools

# Inventory Movements & Adjustments

Inventory Inquiry - Microsoft Internet Explorer


Address: <http://192.168.253.254:8555/>

Product #: KNDE831513512  
Description: \*SYMBIOT 10027X70  
Vendor: KND  
Stk: EA Box: 100 Case: 1000

Location	On Hand	In Pick	Wise
CS	EX	EA	Last Rpt
Tula WFS 001	100	5	001
CS 0	PK1	EA 0	Adjust Move 001
RAC -01-1	100	0	001
CS 0	Bx1	EA 0	Adjust Move

Previous Next

[Box Image](#) [Case Image](#)



Done Internet

<http://192.168.253.56:8555> - Inventory Adjustment Pro

File Edit View Favorites Tools Help

### DEMO.12 Inventory Processor - Move Ticket

Product Number: WA22820  
Warehouse: 001  
Quantity: 79  
Location: 1000A  
Reason: Miscount

Adjust Inventory

- Miscount
- Miscount
- Damaged
- Expired Lot

# Shipping and Delivery



- ◆ Warehouse picks, packs, and verifies orders
- ◆ MDS WMS has two methodologies available– for customers who deliver via
  - Customer owned trucks
  - Third Party Shipping systems (UPS, FedEx)
- ◆ Either approach generates shipping papers, carton labels and ASN's as result of shipping operation







# Shipping Interface



- ◆ Warehouse picks, packs, and verifies order
- ◆ MDS includes interface to Third-Party Shipping Systems (UPS Worldship, FedEx, DHL, Kewill)
- ◆ Carton placed on shipping scale
- ◆ MDS provides shipping information to manifest system (address method of shipment etc.)
- ◆ Manifest System uploads tracking number, number of cartons, weight and cost
- ◆ Based on customer profile MDS applies shipping charge to invoice
- ◆ Invoice or Pack Slip printed at the shipping station
- ◆ Shipment status inquiry available from within the MDS application



# Shipment Drill Down

IntelNT - [192.168.253.134-DET.REL.BOX010\$1]

File Edit Settings View Reset Tools GUI Standard Functions Special Functions Help

Release# 01-133151-001  
 Inv# 508003  
 Ord Dt 02/26/03  
 ST IV OS 01 RJ 001  
 Lns 3  
 L# 1 971  
 2 971  
 3 971  
 ShipDate 02/26/03

Detail Invoices (Line Items)

Sold To UMC  
 UNIVERSITY MEDICAL CENTER  
 ACCOUNTS PAYABLE/TRAVEL  
 400 BROADWAY AVE  
 NEW YORK CITY NY 10016-1460

Ship To FAMPRC  
 UNIVERSITY OF IOWA  
 FAMILY PRACTICE  
 01290K POMERANTZ  
 IOWA CITY IA 52242-1460

Terms NET 30  
 Salesman 005 KE

Box Freight Details

Box Weight	Box Charge	Tracking Number
1. 100.00	0.00	1Z0678860310015001
2. 0.00	0.00	
3. 0.00	0.00	
4. 0.00	0.00	

Inward Bound

HIT <RETURN> TO CONTINUE: XXXXXX

HELP OK/END INSERT LDELETE PREV PG NEXT PG INQUIRY CANCEL

UPS Package Tracking - Microsoft Internet Explorer

UPS OnLine Tools

Track by Tracking Number

Package Summary

Date	Time	Location	Activity
Mar 21, 2002	11:54 A.M.	PARACETA, NY, US	DELIVERY

Tracking results provided by UPS® Sep 17, 2002 9:20 A.M. Eastern Time (UTC)

# Package Tracking

UPS Package Tracking - Microsoft Internet Explorer

Address: [http://www.ups.com/Web\\_tracking/processRequest](http://www.ups.com/Web_tracking/processRequest)

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**Tracking**

- Track by Tracking Number
- Track by Reference Number
- Track by Tracking Number #
- Track by Email
- Track by Package View
- Request Signature View
- View a Shipment #
- Help

Track by Tracking Number

Log In | Enter ID:  Password:  | [Forgot Password](#) | [Register](#)

**View Details**

Status: Delivered  
Delivered on: Nov 27, 2002 11:55 A.M.  
Signed by: CLARKE  
Location: RECEIVER  
Delivered to: MADISON, NY, US

Tracking Number: 1Z1020100001005001  
Service Type: GROUND

**Package Progress**

Date	Time	Location	Activity
Nov 27, 2002	11:50 A.M.	YONKERS, NY, US	DELIVERED

Tracking results provided by LPS: Sep 17, 2003 8:20 P.M. Eastern Time (USA)

**NOTICE:** UPS authorizes you to use UPS tracking systems solely to track shipments serviced by or for you to UPS for delivery and for no other purpose. Any other use of UPS tracking systems and information is strictly prohibited.

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Done | Inet.net

# Delivery Master

- ◆ Initial routing information in the customer file
- ◆ Warehouse picks, packs, and verifies order
- ◆ Bar code label generated for each package
- ◆ Shipping manager reviews truck loads and adjusts routes and stops (initially assigned from customer profile) based upon schedule, truck loading etc.
- ◆ Paper manifests are printed to serve as a backup if needed

# Routing Information on each Order

MDS for Windows Version 7.12.0 - [rs000d-5100 DIST.12-555.DC.HDR.INPUT0129L]

File Edit Settings View Press Tools GUI FDA Standard Functions Special Functions Help

---

**Order Entry Header**

Company: 01      Sell Whse: 001      Ship Whse: 001

Order#: 141779      Date: 05/02/07      TSH MEDICAL SUPPL      NEW YORK, NY      NEW YORK, NY

---

Customer: NYU      212-438-5722      Ship-In: 1

NEW YORK UNIVERSITY      Country:      NEW YORK UNIVERSITY      Country:

HM 220 S5U 2540           HM 220 S5U 2540          

---

NEW YORK CITY      NY      10016-2540      NEW YORK CITY      NY      10016-2540

Cust Class: 01      HOSPITALS      Salesman: 005      KEVIN LYRCH

---

2.Reg Dt: 15/07/07      Future      N      Rld      N      13.Cons/Bent: N      Return Date:     

3.As of Dt:                                    14.Inv Comp: N                    

4.Terms: 01      NET 30                          15.Ship Comp: N                    

5.Source: 01      CUSTOMER PHONE IN                          16.Cancel Dt:                    

6.Cust PO#: CUST PO 123                               17.Ord Hold: N                    

7.Direct: Vendor                               18.LICA: N                    

8.Spec Ins:                                    19.Dex#:                    

9.Caller: JOE                                    20.Route: NY      NY ROUTE     

10.Ship Via: 01      UPS                               21.Dly Stip:      12               

11.Cash: N                                                            

12.N/Bill: N                                                            

Enter Line# to Change, DELETE to Delete or 0 to Accept:      XXXXXX

---

MDS INQ	AR INQ	CUSTOMER	SALES MGT	CRM	ORD/HOLD			CUSTNOTE			
HELP	OK/END	INSERT	LDELETE	PREV PG	NEXT PG	INQUIRY	CANCEL	OUT			Popup



# Truck Route Assignment



WinMDS\_RS6000 - [rs6000d.tshinc.com-3756 demo.12-MANIFEST.XREF.MAINT01251]

File Edit Settings View Reset Tools GUI PDA Standard Functions Special Functions Help

**Daily Manifest Maintenance**

Truck Route: NY NY ROUTE Ship Date: 10/05/04

LN#	RELEASE#	Customer	Route	Stop	SHIP DATE
1	01141688001	UHS UNIVERSAL HOSPITAL SERVIC	NY NY ROUTE	15	10/05/04
2	01141687001	UHS UNIVERSAL HOSPITAL SERVIC	NY NY ROUTE	15	10/05/04
3	01141686001	NYU NEW YORK UNIVERSITY	NY NY ROUTE	12	10/05/04
4	01141685001	NYU NEW YORK UNIVERSITY	NY NY ROUTE	12	10/05/04
5					
6					
7					

ENTER LINE # TO CHANGE,DEL FTF TO DEL FTF,0 TO ACCEPT : XXXXXX

HELP	OK/END	INSERT	LDELETE	PREV PG	NEXT PG	INQUIRY	CANCEL			Popup
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# Loading the Truck

- ◆ Each carton is scanned as truck is being loaded to insure that all packages have been loaded on the right truck.
- ◆ Driver downloads the electronic manifest to handheld device, enabling the device to record delivery and stop information

# PDA Displays Manifest by Route and Stop

MDS Delivery Masl 11:01

Manifest

Route	Stop	Customer
123	1	UNIVERSITY MEDICAL CENTER
123	2	UNIVERSITY MEDICAL CENTER
123	3	ST. MARYS MEDICAL CENTER

Info      Truck Scan

Load Route      Delivery Scan

# Customer Deliveries

- ◆ Driver scans each carton's barcode as it is being delivered to insure that the right boxes are being delivered, and that no cartons have been missed.
- ◆ Driver captures customers' signatures on the handheld device
- ◆ Upon return, the device is placed in cradle (docked) mode, the signature and delivery information is uploaded to the server when the truck returns to the warehouse

# Driver Route Management

Delivery information is captured on each driver's handheld device. Upon return information in the handheld device is uploaded to the MDS system.



WinMDS\_RS6000 - [rs6000d.tshinc.com:3756 demo.12-MANIFEST.XREF.MAINT01251]

File Edit Settings View Reset Tools GUI PDA Standard Functions Special Functions Help

Daily Manifest Maintenance

Truck Route NY NY ROUTE Ship Date 10/05/04

LN#	RELEASE#	Customer	Route	Stop	SHIP DATE
1	01141688001	UHS UNIVERSAL HOSPITAL SERVIC	NY NY ROUTE	15	10/05/04
2	01141687001	UHS UNIVERSAL HOSPITAL SERVIC	NY NY ROUTE	15	10/05/04
3	01141686001	NYU NEW YORK UNIVERSITY	NY NY ROUTE	12	10/05/04
4	01141685001	NYU NEW YORK UNIVERSITY	NY NY ROUTE	12	10/05/04
5					
6					
7					

ENTER | HELP

Delivery Details

Client Number: 0000000000  
Invoice Number: 0000000000  
Driver: J. Smith  
Delivery Date: 10/05/04  
Delivery Time: 12:00:00  
Contract Count: 12  
Signature: [Handwritten Signature]

Name: J. Smith  
Telephone: [Redacted]

OK

Signature data is uploaded upon driver return to the warehouse.



# Benefits of Delivery Master

- Improved delivery service
- Ability to capture signature when packages are delivered.
- Provides Proof of Delivery
- Insure that all packages have been delivered to the right customer.
- Maintain history of all packages delivered by customer and driver.



# Benefits of MDS-WMS

- Improved inventory accuracy
- Improve personnel performance and accuracy
- Determine time to pick by individual
- Better utilization of warehouse space
- More flexible scheduling

