



The Systems House, Inc.
TSH User Group Meeting

Monday June 14 , 2010

Barcodes and MDS

Easy ways to speed up and increase accuracy using barcodes in MDS

Benefits of Bar-coding in MDS

MDS Allows for:
Wireless or Non Wireless
Implementation

- Customer Sales
 - Warehouse
 - Delivery and Shipping

- Improve inventory accuracy
- Improve order processing accuracy (less returns)
- Improve personnel performance and accuracy
- Better utilize warehouse space
- Improve customer satisfaction



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MDS Bar Coding

Implement Bar Coding to Improve Accuracy

- Not necessarily faster

Bar Coding Issues

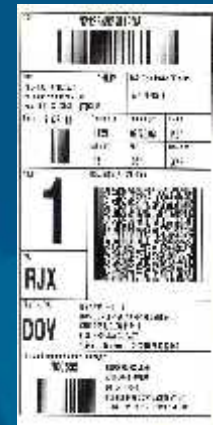
- Product or Location Bar Coding
- Manufacturer Can Label Products:

Not uniform in many industries such as Medical

- Significant Cost to Barcode Items Upon Receipt
- Bar Codes do not Define Unit of Measure

Alternate Solution: Barcode Locations

- Maintain Product by Location (one item per location)
- Wireless Demo uses this Option



Barcode Sales Order Process



Scan Items
to be Ordered



Plug Scanner
into USB Port



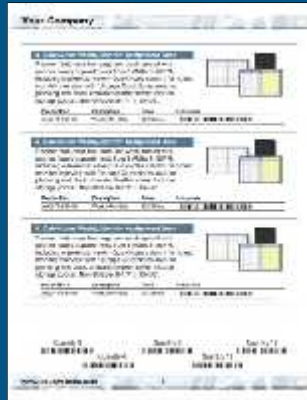
Your Website
Displays all
Scanned Products

3 2 4 4 4 2 4 5 3 0 4 3 5 4

Many Ways To Scan



Order Guides



Custom Brochures
And Fliers



Pre-printed Catalogs



Custom Catalogs

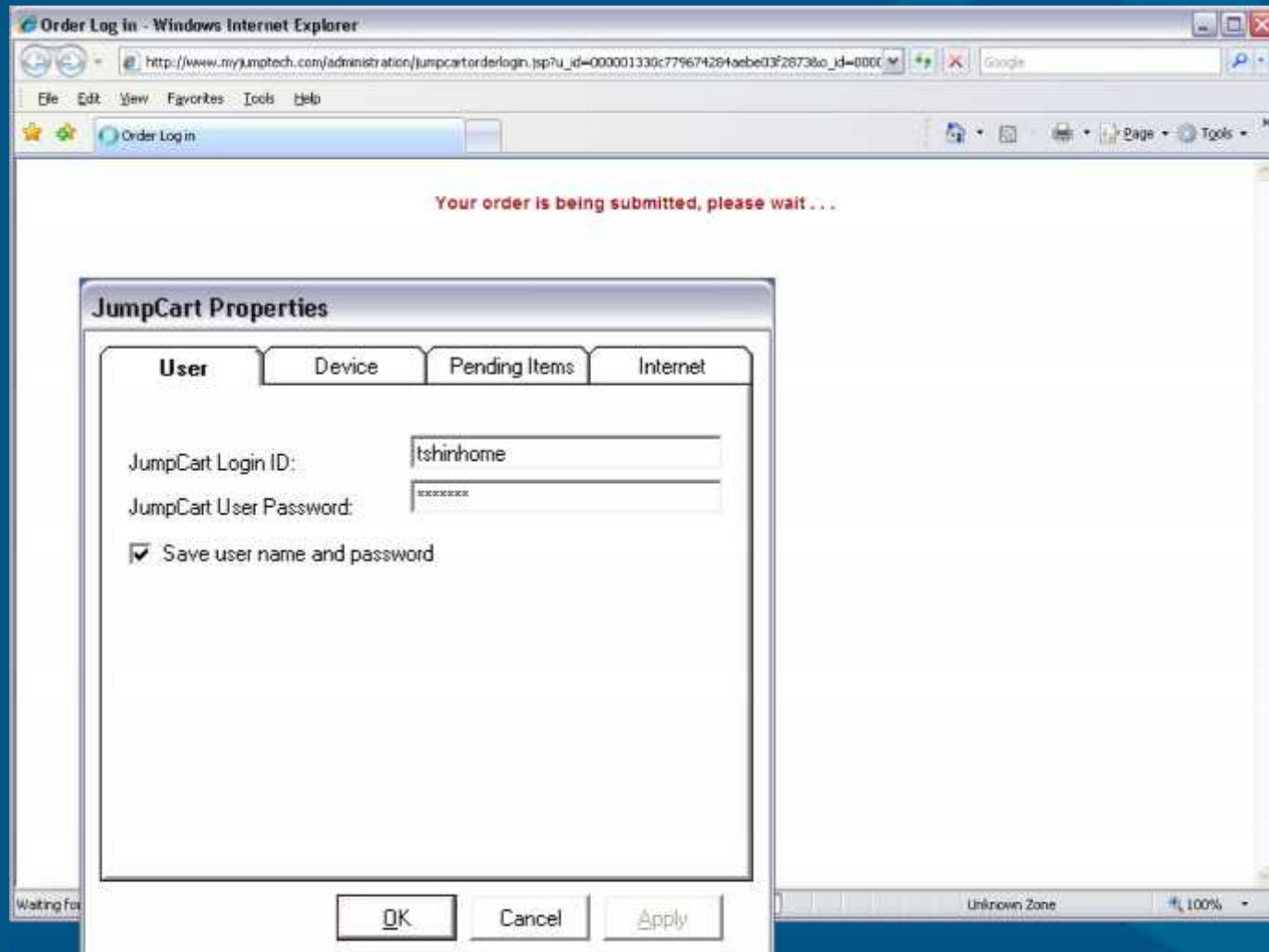


UPC Codes



Shelf Labels

Connecting to Remotenet



Current Order - Remotenet

Current Order - Windows Internet Explorer

Http://host.ng.td1nc.com/cgi-bin/olecg.exe?procure674?orderno=100803

Current Order

InHome
medical solutions

Order# 100803 Total Amount \$0.00

Current Order

About Online Ordering Change Password Place an Order Inquiries Help Contact Us Home

Browse Web Order # 100803 Customer PO# None Ship to

Sort By: Product Code GO Save as Default
Items per page: 50 GO Save as Default

Below is your current order information. Click the DELETE button to delete that line item from your order. When your order is complete, click "Send Order Now", or click "Hold Order" to save this order for processing at a later date. To change quantities, change the ORD QTY value in the boxes below and click "Update Order".

Line No.	Product No.	Product Description	Manufacturer	In Stock	ORD QTY	UOM	Price	Ext. Price	Delete Item
1	ADC301	SCISSORS LISTER ENDG 5.5 S ZC=5 1/2	American Diagnostic	✓	5	EA/1	\$0.00	\$0.00	Delete Item
2	ADC302	SCISSOR LISTER ENDG 7.5 1 S ZC=7 1/2	American Diagnostic	✓	3	EA/1	\$0.00	\$0.00	Delete Item
3	ADC310	PROCTER KELLY HEMET STRT 5.5 S ZC=5 1/2 Sbra dht	American Diagnostic	✓	1	EA/1	\$0.00	\$0.00	Delete Item

ORDER TOTALS
3 Items \$0.00

3 Items 1 Page Previous Next

Order Comments: GO

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Bar-coding in the Warehouse



Warehouse Management Functions (WMS)

- Receiving
- Put Away
- Replenishment (location management)
- Picking
- Physical Inventory / Movements / Adjustments
- Returns from Customers and to Vendors

Interface to UPS and FedEx

Delivery Route Management

- Manifest System
- Proof of Delivery (Signature capture)



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Receiving – Warehouse Setup



- Receiving Form Printed with Barcodes (by Vendor and Purchase Order)
- Generate Bar Coded Labels at Receiving (Optional)
 - Location Labels
 - Product Labels
 - In multiple formats:
 - Zebra Printer 2 x 4
 - Zebra Printer 2.5 x 4
 - LaserJet Avery Label 5163



Product: ABP33701-1



12345678



AA-12-AB-12



12345678

Receiving Form

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Receiving Form

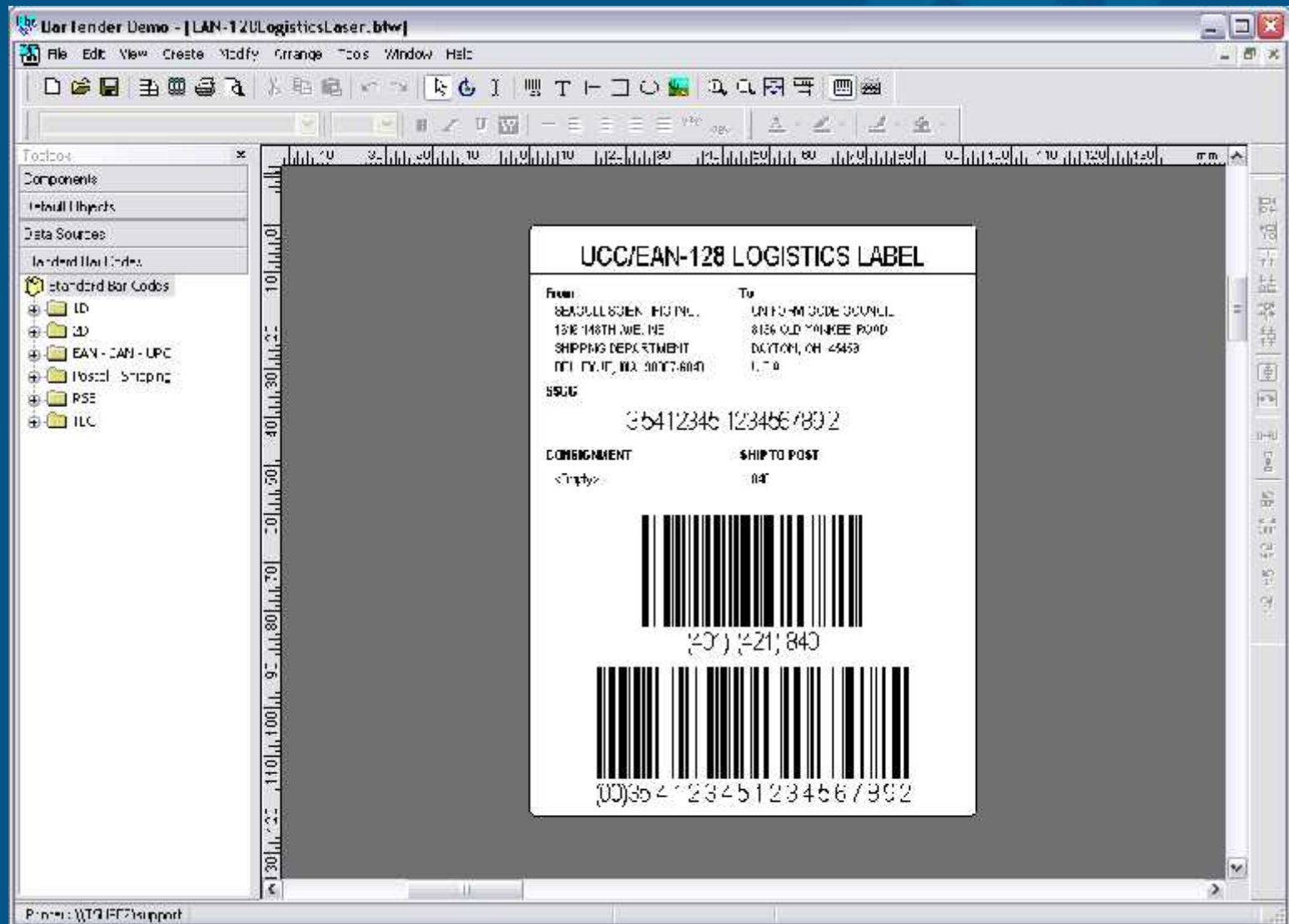
PURCHASE ORDER NUMBER: 01722977 WBS# #: 014 VENDOR#: STIDEA PL VENDOR NAME: STARLINE DEAL

11/11/2011 12:25:00 PM

LN#	ITEM#/DESC/IFCAP#	MFG#	OPEN P/O	QTY	UM	REPLN	FLAG	LOCATION(S)	RECV LOC(S)	RECV QTY	PROBLEM/	DSCRPNY I
1	999106287 ANTIMICROBIAL SKIN WIPE 5X7, SKIN WIPE, 50/BX	10-1510 Vend Item#:10-1510 50EA/BX, 10BX/CS	2	CS	0000			FQ15A				T
										TOTAL QTY RECVD		
2	999100488 HANDAGE, ADHESIVE, SHEET, LATEX FREE 1 X 3 STRIPS 999100488	10701290 Vend Item#:10701290 100EA/BX, 12BX/CS	6	CS	0000			FQ11E AE18B				T
										TOTAL QTY RECVD		
3	999027142 WIPE, DISINFECTING CANNISTER	13-1100 Vend Item#:13-1100 160 BA/CANNISTER, 12/CS	124	CS	0000			AR12A FLR3 ANT12C				I
										TOTAL QTY RECVD		

11 W x 8.5 H

Label Creation Software



Put Away and Replenishment

Putaway-form.pdf - Adobe Reader

File Edit View Document Tools Window Help

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RECEIVING PUTAWAY FORM

RECEIVER NUMBER: 003863

RECEIVING LOCATION:

DC NUM VENDOR

130259 A1000 ALCOA

LINE	ITEM NUMBER	PUTAWAY LOCATION	QUANTITY	UOM	PUT AWAY	REMAINING QUANTITY
002	AP-9611 CARBON FIBER TANK	A-100	7	EA	7	
003	105 01204567000100456700001004	A-101	3	EA	3	

00000000


Picking Ticket (Non Wireless)

SKMBT_C3520B052116540.pdf - Adobe Reader

File Edit View Document Tools Window Help

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Print



184-180001 COMPANY
3000 BROAD ST
CALIFORNIA, CA 95135
Tel: 933-777-8603
Fax: 933-777-3863

PICKING TICKET

Page 1

Order Number:
01542787001

Bill-To: IND

UNIVERSITY MEDICAL CENTER
ACCOUNTS PAYABLE/TRAVEL
611 BROOKWAY AVE
NEW YORK CITY NY 10018-1468


Ship-To: CAG0002 001 BY

CHILD HEALTH SPECIALTIES
ROOM 230 CDE
NEW YORK NY 10019

Order Date:	06/21/78	Shipment:	BY AIRTEL
Buyer Name:	06/21/78	Ship Via:	001
Cancel Date:		Customer Order #:	01542787
Order Status:	BY AIRTEL	Carrier:	00

Special: "W" Y REP
In-Route:

Line	Location	Item Number / Description	Contract	UM	Chipped	UM	3rd Qty	Unit Price	Qty
1	0000	88021411 STY 180/240 300 200/21		1	00	1	00	1.000	00
2	0000	88021411 STY 180/240 300 200/21		1	00	1	00	1.000	00
3	0000	88021411 STY 180/240 300 200/21		1	00	10	00	1.000	00
4	0000	88021411 STY 180/240 300 200/21		1	00	1	00	1.000	00



Picked By: _____
Checked By: _____

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Packing Slip (Non Wireless)

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PACK.PDF - Adobe Reader
 File Edit View Document Tools Window Help

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PACKING LIST

W.M. Medical Company
 1100 ROUTE 46
 GUTTEN, NY 10854

Tel: 973-777-8050 Fax: 973-777-1063

Page: 1

Order Number: 01141665002

Ship To Phone: 212-777-4444 *REPRINT (0) *

Bill to: USC UNIVERSITY MEDICAL CENTER ACCOUNTS PAYABLE/TRAVEL 400 BROADWAY AVE NEW YORK CITY NY 10016-1460	Ship to: 001 001 UNIVERSITY MEDICAL CENTER ACCOUNTS PAYABLE/TRAVEL 400 BROADWAY AVE NEW YORK CITY NY 10016-1460
--	--

Order Date: 09/22/09	Salesman: 84 28011
Required Date: 09/22/09	Ship Via: UPS
Cancel Date:	Order no. Code # 41000
Order type: 84 28011	Carrier:

Special instructions:

Line	Location	Item Number / Description	Ordered	UM	Shipped	UM	BD Qty	U & Price	UM
1000A		010700136 FLOW ON NEW STA ORDER 100/200	15	00	10	00	17		0.00000

Signature: _____ Picked By: _____
 Checked By: _____

Verification Product Scanning

DEMO-12-ALT - [TSHPEZ.TSHINC.COM-demo.12-SSS.VELINE.INPUT011\$1]

File Edit Settings Reset Tools Standard Functions Special Functions Help

MDS Verification Line Input RFI # 141515-001
 01 Whse 001 Customer UMC UNIVERSITY MEDICAL CENTER

LN#	Product Number	Pick Qty	/ UM	Invoice Price	/ UM	Cancel Dist%	Durr Cartn SRC	Cost / UM	2 More Hold	
1	4644 BAND AID SHEER 1X3" 100/0	24	/ DX	4.540	/ DX		0	3.000	/ DX	
2	516937 SYRINGE ONLY 6CC	11	/ BX	6.740	/ BX		0	4.635	/ BX	
3	36700 APPLI 6" ST COTTON TIP 1"	10	/ BX	4.250	/ BX		0	2.157	/ BX	
4			/		/				/	
5			/		/				/	

Enter Line# to Change, Scan Product, or 0 to Accept

XXXXXXXXXXXXXXXXXX

MDS INQ	AR INQ	GRUPE	LOTS	COMMENTS	SERIAL #S	PICK/LOT	CHG CARTN	PICK/CTN		
HELP	OK/END	INSERT	LDELETE	PREV FG	NEXT FG	INQUIRY	CANCEL	Off		Copy

Verification Product Scanning

DEMO-12-ALT - [TSHPEZ.TSHINC.COM-demo.12-555.VELINE.INPUT011\$1]

File Edit Settings Base Tools [1] Standard Functions Special Functions Help

DEMO-12-ALT [TSHPEZ.TSHINC.COM-demo.12-555.VELINE.INPUT011\$1]

MINS
ON
LN

1 On Line Item 1 Product 1611 BAND-AID SHEER 1X3" 100/B
Case Qty 12

2 Original Pick Qty 24
Line Item Ship Qty 12

Ln#	Carton	Ship Qty
1.	1	12
2.	2	12
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
Total		24

Enter Line# to Change, '0' to Accept or 'EXIT' to Exit

XXXXXXXX

HELP	OK/END	INSERT	DELETE	PREV PG	NEXT PG	INQUIRY	CANCEL	Off	PopUp
HELP	OK/END	INSERT	DELETE	PREV PG	NEXT PG	INQUIRY	CANCEL	Off	PopUp

Generate Packing/Carton Labels

- Automatically Produced at Verification based upon Ship Method and parameters.
- Warehouse allows forcing operator to enter carton quantities
- Each Carton gets a bar-coded label



Generate Packing/Carton Labels



TSH Medical Supply

1033 Rt 46 East
Suite A202
Clifton NJ 07013
USA

Customer #: 123AAB

David Fertig

12032 Mocking Lane

Suite A201

Clifton NJ 07013-1203

USA

Ship Via : UPS Ground

PO# AG11113



12345678

06/10/10

12:23pm

Box 001

of 003

Verification
and parameters.

operator to

oded label

ell Medical Services Inc

Vanderburg Road

— 843 — 6100
Rutherford, NJ 07070

MARCOWITZ MD
EDY BLVD
NY 10023



9001 — 002

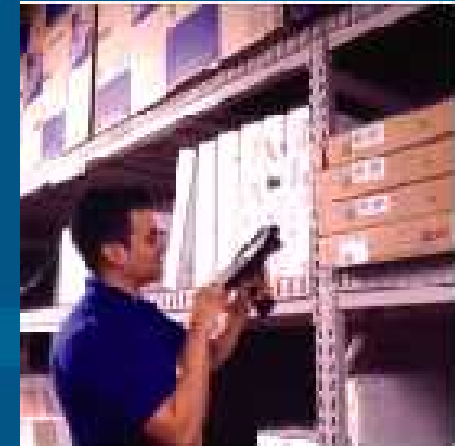
09:30:11pm Box 2 of 2

Warehouse Procedures



■ Other Procedures

- Physical Inventory
- Customer Returns (RA)
- Return to Vendor



mids **Warehouse**


from The Systems House, Inc.


Warehouse Procedures


pi.PDF - Adobe Reader
File Edit View Document Tools Window Help


1 / 2 100% Find


Page 1 Counted by: _____


TAG NO 311716
P/N CT133M-MIC Stock UM: EA CS: 10 BX: 1
DESC KIT MASTER
WHS NO 001 WHS LOC A-100
CS : _____ BX: _____ EA: _____ Count : _____ Ver By: _____ Recount : _____


TAG NO 311717
P/N CT133ME-MIC Stock UM: EA CS: 1 BX: 1
DESC KIT COMPONENT
WHS NO 001 WHS LOC A-100
CS : _____ BX: _____ EA: _____ Count : _____ Ver By: _____ Recount : _____


TAG NO 311718
P/N CT133ME-MIC Stock UM: EA CS: 1 BX: 1
DESC KIT COMPONENT
WHS NO 001 WHS LOC A-101
CS : _____ BX: _____ EA: _____ Count : _____ Ver By: _____ Recount : _____


TAG NO 311719
P/N CSUB2 Stock UM: EA CS: 1 BX: 1
DESC TRST Counter : 0
WHS NO 001 WHS LOC A-200 LOT NO ABC
Serial No. Count Qty: _____ Verified By: _____ Recount Qty: _____



11.00 x 8.50 in



Warehouse

from The Systems House, Inc.

Wireless Picking

Picking [Print] [Close]

Shipto: UNIVERSITY MEDICAL CEN

Customer: UMC ShipVia: 02

Release: 01146186001 UNIVER: [v] Cartons

Scan: [] []

1114 [] A-100 []

Qty Skip Override TOTE

1	EA	[]	[]
---	----	-----	-----

TELFA Wound Dressing

12" x 24" Clear

[Verify] [Audit] [List] [Menu]

Windows Taskbar: Picking [Globe] [Network] [Printer] [Pencil] [Folder]

Picking [Print] [Close]

Shipto: UNIVERSITY MEDICAL CEN

Customer: UMC ShipVia: 02

Release: 01146186001 UNIVER: [v] Cartons

Scan: [] []

Location	Product	Pick Qty	Picked
A-100	1114	1	[]

[Verify] [Audit] [List] [Menu]

Windows Taskbar: Picking [Globe] [Network] [Printer] [Pencil] [Folder]

Put Away Function

- Receive to "Receiving Location"
- Cross Dock Orders
- Receive to Bulk Location
- Receive to Primary Pick Location

Receiving Putaway

Receiver: 005040 0113: [v]

Scan: []

LORIITEM A-001

Qty: 90 Override: [] Skip

TEST ITEM FOR BLANKET

Recv Location: LORI

List Menu

Receiving Putaway

Receiving Putaway

Receiver: 005040 0113: [v]

Scan: []

Location	Product	Open Qty Putawa
A-0C1	LOR.ITEM	90
A-0C2	LOR.LOT	5

List Menu

Receiving Putaway

Replenishment

Repl Picking

Transfer# 002854 P

Scan:

Product: 1114

From: A-357 To: A-100

Qty: 7 CS Over:

Picked: Putaway:

Status: 0 Skip

TELFA Wound Dressing

12" x 24" Clear

List Menu

- 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.

Physical Inventory

Scan tag, location or product and enter counts.

Inventory Tag Entry

Scan: Wh: 001

Tag#: 311603 Count: 0

Item: HUMALOG EA

Loc: A-001 Lot:

HUMALOG 10 ML

INSULIN

U/M	Qty	Count	Stk Qty
EA	1		
CS	25		
BX	1		

Update Menu

Inventory Tag Entry

Inventory Inquiry

MDSWMS Inquiry

Product: HUMALOG
Scan: HUMALOG
Description: HUMALOG 10 ML INSULI
Vendor: LILLY

Stk: EA Box: 1 Case: 25

Whs	Location	OH	IP	Avail	Last Rcpt
001	Total WHS 001	252	4	248	06/11/00
***	A-001	52			
***	B-002	200			
003	Total WHS 003			0	
***	0				

Return Image Menu

MDSWMS Inquiry

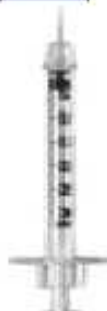
Inventory by Warehouse by Location

MDSWMS Inquiry

Product: BD329431
Scan: BD329431
Description: SYR INSULIN.3CC 29X1/
Vendor: A8000

Stk: BX Box: 1 Case: 5

OK



Return Menu

MDSWMS Inquiry

Ability to view image of product

Shipping And Delivery

- MDS has two methodologies available— for customers who deliver via:
 - **Customer owned trucks (Delivery Master)**
 - **Third Party Shipping systems (UPS, FedEx)**
- Either approach generates shipping papers, bar-coded carton labels and or ASN's as result of shipping operations

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Third Party Shipping

Scan Packing List into UPS / FedEx

Enter import key:

10681

Close

UPS OnLine® WorldShip® - Active Pickup Date: Wednesday, 05/05/2004

File Edit Activities Tools UPS Web Access UPS OnLine Connect Window Help

Connection Assistant...

Batch Import...

Batch Export...

Export A Single End Of Day...

Keyed Import: Off

- Automatic Export After Processing Shipment: 1 batch
- Automatic Export During End Of Day: More...
- Automatic Export of World Ease Shipments After Close Out: More...
- Automatic Export of HAZMAT/DG After Processing Shipment: More...

Create / Edit Map...

Prepaid

Bill to Third Party

Weight (pounds) Package: Shipment: 0.0

Shipment Cost: \$0.00

Reference Number 2: (Printed on Label)

Country: United States Postal/ZIP Code #: State/Prov: City: Telephone: Fax: UPS Account Number: Tax ID Number: Shipper: 7AE457 Profile: MyProfile

Plg: NEW Add Plg: Delete Plg: Process Shipment

Select from a list of all existing maps. COPY Pending: 0 Shpmt(s), 0 Plg(s), Cost: \$0.00

MDS Delivery Master

- Each carton is scanned as it is loaded to ensure 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

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	Bell Medical Services Inc 120 Vanderburg Road 732-648-6100 Marlboro, NJ 07746
MARCOW MICHAEL MARCOWITZ MD 4360 KENNEDY BLVD BROOKLYN NY 10023	
01 - UPS PO# 1	
	
01141699001 - 002	
25 MAR 2010 03:39:11pm Box 2 of 2	

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

Load and Deliver

Tracks each carton as it is Loaded and Delivered

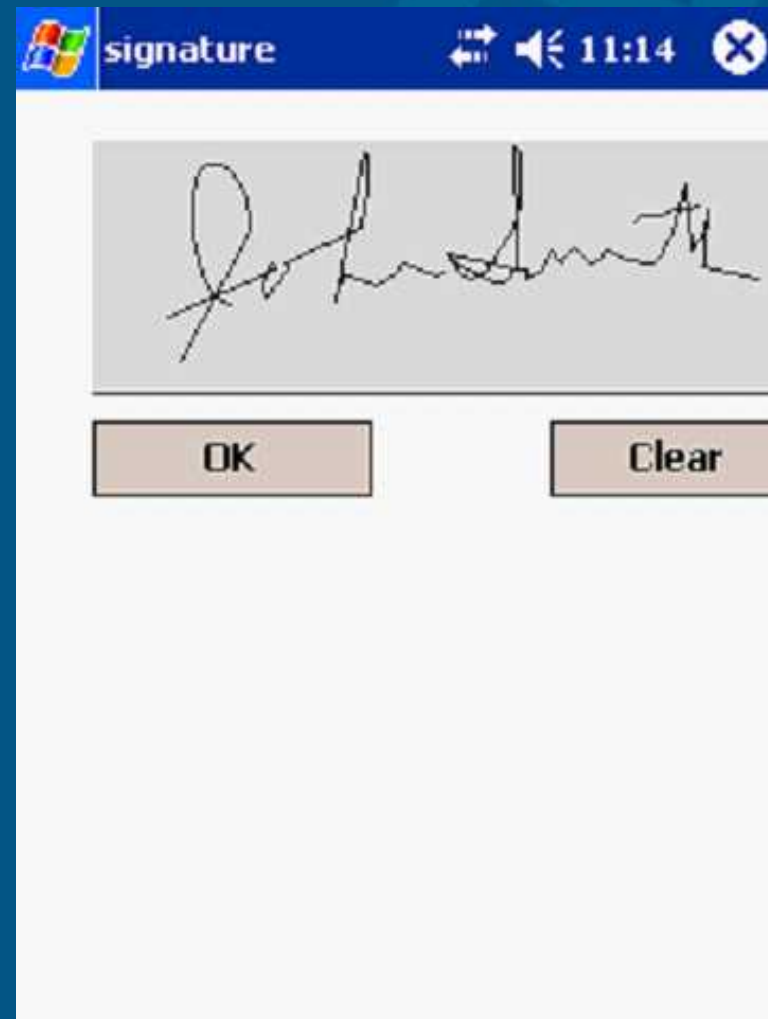
The screenshot shows a software window titled "Load Truck" with a Windows logo, a refresh icon, a volume icon, and a clock showing 11:11. The window contains the following fields and controls:

- Customer: UNIVERSIT
- Route: 123
- Stop: 1
- Package: (empty text box)
- Ok button
- Table with columns: Package, Load, Del
- Buttons: Signature, Update Tracking, Exit
- System tray: keyboard icon and arrow

Package	Load	Del
01135167001-001	N	N
01135187001-001	Y	N
01135189001-001	N	N
01135191001-001	N	N
01135193001-001	N	N
01135195001-001	N	N
01135439001-001	N	N
01135511001-001	N	N

Capture Signature

Customer Signature is captured for each Delivery after Scanning



Update Tracking

Tracking and Signatures updated to Server when Connected

The screenshot shows a Windows application window titled "Load Truck". The window has a blue title bar with the Windows logo, the text "Load Truck", and system icons for network, volume, and time (11:11). Below the title bar, there are three input fields: "Customer:" with the value "UNIVERSIT", "Route:" with the value "123", and "Stop:" with the value "1". Below these is a "Package :" input field and an "Ok" button. A table with three columns: "Package", "Load", and "Del" is displayed. The table contains several rows of tracking data. Below the table are three buttons: "Signature", "Update Tracking", and "Exit".

Package	Load	Del
01135167001-001	N	N
01135187001-001	Y	N
01135189001-001	N	N
01135191001-001	N	N
01135193001-001	N	N
01135195001-001	N	N
01135439001-001	N	N
01135511001-001	N	N

MDS Bar-coding

- Many easy ways to speed up and increase accuracy using barcodes in MDS
- No Additional Software Cost:
 - Hardware Required:
 - Barcode Scanners
 - Label Printers

Get Started Today!!

Barcodes in the MDS Warehouse Demonstration – Part 1

- Receive PO to Receiving Location.
- Use Handheld to put away 3 products from Receiving Location to Put away Locations.
- Use Handheld to display Stock Status Inquiry showing products in their Put away Locations.
- Enter 2 orders, the orders will demonstrate a low UM pick, a split Case/UM pick and a standard product Pick.

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Barcodes in the MDS Warehouse Demonstration - Part II

- Run Order Replenishment, this will demonstrate movement of product from the Bulk location to the Low UM location for 2 products.
- Perform Replenishment of 2 products using the Handheld.
- Demonstrate Pick Ticket Assignment screen by assigning the Bulk Picking and the Low UM picking for the 2 orders to different Pickers.
- Demonstrate the Handheld picking for the Bulk Picking and for the Low UM picking by scanning the Location Labels that are posted by each cube.
- Demonstrate that the Pick Ticket Assignment screen has been updated by the handheld picking and the orders are ready to verify.

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Barcodes in the MDS Warehouse Demonstration – Part III

- Verify the orders and print the packing labels.
- While verifying use the wedge scanner to scan products and put them in a carton.
- Upload the shipments to Delivery Master.
- Demonstrate scanning of the container and signing for the container using Delivery Master on the Handheld.

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