

Warehouse Management Overview



from
The Systems House, Inc.





Benefits of MDS-WMS

- Inventory is the single largest investment made by the distributor
- Improve inventory accuracy
- Improve order processing accuracy (less returns)
- Improve personnel performance and accuracy
- Better utilize warehouse space
- Improve customer satisfaction



The MDS Warehouse Management Solution

- Warehouse Design
 - Single or Multiple Warehouses
 - Branches or Stock Rooms
 - Location Management in Warehouse
 - Location as a Reference or
 - Inventory by Location (Random Locator System)
 - Receive, Stock, and Sell in Multiple Units of Measure
 - Solid Case and Quick Pick Areas (Low Unit)
 - Primary and Backup Locations
 - Low Unit vs. Bulk Picking
 - Low Unit replenishment
 - Environmental and Security Considerations
 - Lot#, Serial#, Expiration Date Control





MDS Warehouse Capabilities



- 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)
 - Package Tracking with Multiple Stops



Advanced Capabilities

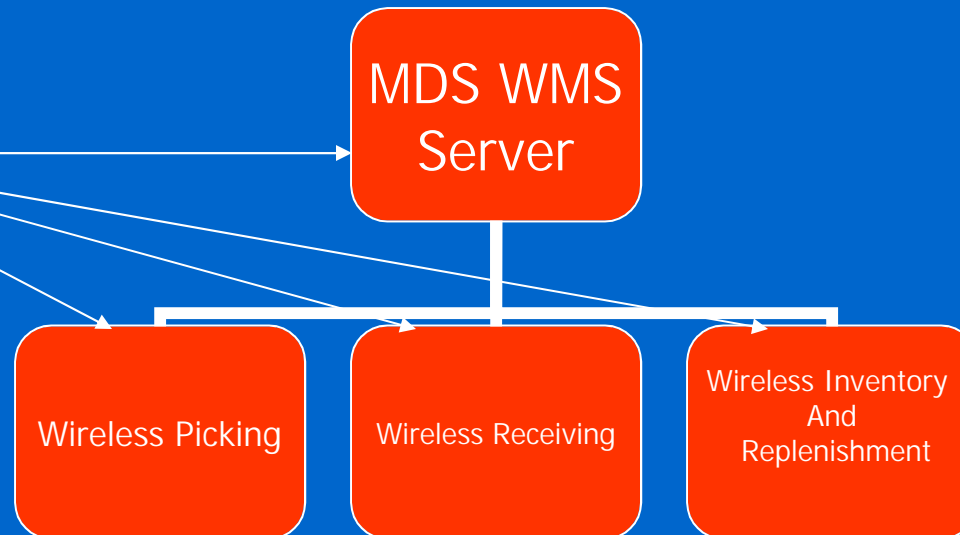
- Implement Bar Coding to Improve Accuracy
 - Not necessarily faster
- Bar Coding Issues
 - Product or Location Bar Coding
 - Manufacturer Can Label Products:
 - Not uniform in many industries such as Medical
 - Significant Cost to Barcode Items Upon Receipt
 - Bar Codes do not Define Unit of Measure
 - Alternate Solution: Barcode Locations
 - Maintain Product by Location (one item per location)
- Wireless Solutions
 - Wi-Fi or RF Receiving, Replenishment, and Picking
 - Automated Picking - Carousel Systems
 - Voice Response Picking



MDSWMS – Latest Enhancements:

- New VB.NET Handheld Application – faster, more user friendly, more functional.
- Receiving/Putaway by Warehouse Zone
- Replenishment by Warehouse Zone
- Tracking In Pick by Location
- Multiple Primaries – Custom Logic
- Stock Rotation
- Date Controlled items – Like lots but Lot# defaults to Exp Date.

WiFi Equipment Schematic



WiFi PDT Handheld/ Equipment

MC70 Rugged Enterprise Digital Assistant, mobile computer from Symbol - Microsoft Internet Explorer

http://www.symbol.com/MC70

symbol
BUSINESS PARTNER

MC70

The first rugged enterprise class digital assistant

Put the power of a rugged PDA in a mobile, handheld design in the hands of your mobile workers with the MC70. Designed to withstand a day any way you see it, this rugged handheld device can take you anywhere and do it wirelessly. With WLAN, LAN, and cellular communications, including support for voice functionality, advanced data capture and retrieval, and many other capabilities, the MC70 provides a complete mobile toolset for workers in need to achieve a new level of enterprise productivity—whether they're in the field, managing materials, creating packages at retailing and stores, on the retail floor taking inventory, or in a hospital checking lab results and entering medical records.

Features

- Hand-To-Run
- Limited Symbol
- Mobility Learning Central

Features Available

- Symbol Print and Scan
- Symbol Messaging



mcds **Warehouse**

from The Systems House, Inc.

Warehouse Management Menu

rs6000d [192.168.253.254 23 BASE.12 LOCATOR.MENU]

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

LOCATOR.MENU on BASE.12

- Location Maintenance
- Location Labels
- Environment Maintenance
- Location Adjustment
- Location Movement
- Location Lot Movement
- Location Report Menu
- Purchase Order Receiving Form
- Purchase Order Receipts Menu
- Batch Pick Ticket Print
- Replenishment Orders to Be Picked
- Batch Pick Ticket Reprint
- Replenishment - Nightly Run
- Replenishment Labels
- Replenishment Completion
- Batch Pick Report
- Replenishment Assignment
- Pick Ticket Assignment Inquiry
- Pick Ticket Assignment Update
- Picker Statistics Detail Report
- Picker Statistics Summary Report
- Verification
- Shipping Update
- Batch Shipping Update
- Packing Slip
- Void Shipment
- Manifest System
- Carousel Exception Report
- Pick Ticker Assign Batch Date Rpt

Back Home

Shortcuts

- Utility Menu
- Voucher Input
- Crystal Reports Default ODBC Setup
- Generate PO by Vendor and Reorder Point S
- Journal Entries

5:08:58 PM

April 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9

Tasks

Date	Time	Description	Status
4/30/2009	8:00am	GMS TLIST	

Key Indicators

Indicator	Daily	Monthly	This Year	Last Year
Sales Dollars	\$18,094	\$32,992	\$34,517	vs
Avg. Daily Sales	\$0			\$1

Annual Sales by Customer Class

Legend: This Year (Red), Last Year (Green)

Warehouse Setup

terminal - [RS6000. I SHINC.COM-20 BASE.12-WAREHOUSE-MAIN100851]

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

WAREHOUSE MAINTENANCE **MDS Warehouse Maintenance**

Warehouse Number **001**

1.Warehouse Name **NORTHEAST WAREHOUSE**

2.Warehouse Addr 1 **1033 ROUTE 46**

3.Warehouse Addr 2

4.Warehouse Addr 3

5.City **CLIFTON**

6.State **NJ**

7.Zip **07731**

8.Owning Company **01 The Systems House, Inc**

9.Phone Number **973.277.7777**

10.Tax Jurisdiction **1 NEW JERSEY**

11.Transfer Cust# **001** **WIISE 1**

Warehouse Management Parameters

12.Location Control **L** 19.Remove Location Flg **N** 26.Putaway Print **D**

13.Wireless Picking **N** 20.Replen Case Rounding **U** 27.Replen at Receipt **N**

14.Bulk Redirection **Y** 21.Redirect if not in Bulk **N** 28.Replen by Zone **Y**

15.Receiving Method **P** 22.OE Replen to Max **N** 29.Interface Type **P**

16.IM Replen Method **1** 23.Putaway Method **Z** 30.Wireless Tote **Y**

17.Single Product **N** 24.Track WO InUse **Y**

18.Prim Replen Method **M** 25.Replenishment Method **N**

ENTER I INF # TO CHANGE,DEF FTF TO DEF FTF,0 TO ACCEPT **XXXXXX** **PAGE 1 OF 3**

HEI P	OK/FND	INSFRT	I DEF FTF	PREV PG	NEXT PG	INQUIRY	CANCFI	Off			Userfile Popup
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Warehouse Level Parameters

- Location Control in use
- Wireless Picking in use
- Totes in use
- Putaway Method – 1 Step, 2 Step, 2 Step by Zone
- Putaway Print – Labels, Forms, Both, None
- Replenish at Receipt Time
- Bulk Redirection
- Receiving Method
- IM Replenishment Method
- Single Product per location
- Replenishment Method (Min/Max or to Max)
- Remove Location Flag (upon depletion)
- Replenish Case Rounding
- Redirect if not in Bulk
- OE Replenish to Max
- Wireless Receipts
- Location Format
- Location Match
- Interface Type

Location Control and Setup

terminal - [RS6000D.TSHINC.COM-44 BASE.12-LOCATION-MAINT010S1]

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

LOCATION MASTER FILE

Warehouse NORTHEAST WAREHOUSE

Location

1.Physical Location

2.Warehouse Zone

3.Environment Code STD WAREHOUSE

4.Type

5.Size

6.Limit

7.Levels

8.Bulk Pick

9.Multiple Products

10.Std Packaging

11.Location Minimum

12.Location Maximum

13.Products

		OnHand	OnHand Volume	% Capacity
<input type="text" value="BD363080"/>	<input type="text" value="TUBE VACU PL 18ML BLUE"/>	<input type="text" value="12"/>	<input type="text" value="24.000"/>	<input type="text" value="26.67"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="0.000"/>	<input type="text" value="0.00"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="0.000"/>	<input type="text" value="0.00"/>
Totals		<input type="text" value="12"/>	<input type="text" value="24.000"/>	<input type="text" value="26.67"/>

14.Length 17.Case Qty

15.Width

16.Height

Total Volume (Cubic Feet)

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

Product Master File

WinMDS_RS6000 - [rs6000d.tshinc.com-5460 DEMO.12-PROD.MAST.MAINT00851]

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

PRODUCT MASTER FILE MAINTENANCE

Product #	KND1050			INT PROD #	107165		
1.Description 1	DRESS TELFA 3X4			20.Cash%	0.00		
2.Description 2				21.Discountable	N		
3.Vendor #	KND			22.Taxable	Y		
4.Vendor Item#	KND1050			23.Discontinued	N		
5.Purch Agent				24.Accept B/O	Y		
6.Level 2 Qty	1	Desc	PK	25.Partial Ship	Y		
7.Level 3 Qty	50	Desc	BX	26.Inv Bypass	N		
8.Level 4 Qty	900	Desc	CS	27.Stock Status	Y		
9.Stocking UM	EA	QTY	1 (Level 1)	28.Product Line			
10.Prc/Cost UM	CS	QTY	900	29.Product Class	001		
11.Std Sell UM	EA	QTY	1	30.Product Type	001		
12.Alt Sell UM		QTY		31.Unit Weight	1.0		
13.Purchasing UM	CS	QTY	900	32.Packing Cube	1.0000		
14.Min Sell Qty	1			33.Block_Tier			
15.List Price	23.400			34.Owning Co#	01		
16.Standard Cost	11.700			35.Substitute Ind			
17.Purch/Curr Cost	11.700			36.Substitute Product#			
18.Show Cost							
19.PO Cost	11.700			37.Sub Price Ind	0		
				38.Inactive Flag			

ENTER LINE # TO CHANGE,DELETE TO DELETE,0 TO ACCEPT : XXXXXX PAGE 1 OF 5

HELP	OK/END	INSERT	LDELETE	PREV PG	NEXT PG	NOTES INQUIRY	CANCEL	Off	Userfile Popup
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Inventory and Product Information



terminal - [RS6000D.TSI.IINC.COM-20.DASC.12.PROD.DET.MAINT00051]

File Edit Settings Focuse Tools QJE PCA Standard Functions Special Functions Help

Product Detail Maintenance

Warehouse # 001 NORTHEAST WAREHOUSE

Product # SUTURE-KIT ASSORTED TYPE SUTURE KIT

1.Last Cost
2.SID Cost
3.Message
4.OH Negative Ind Y
5.Lot/Serial Logic N
6.Date Controlled
7.Auto Lot Select
8.Uni/Len Qty U
9.Cycle Count Code
10.Multi-Location Pick in Use
11.Solid Case Pick in Use
12.Solid Case Maximum Pick
13.Primary Location Minimum 200
14.Primary Location Maximum 500
15.Solid Case Location Minimum
16.Solid Case Location Maximum

17.Locations	Type	OnHand
1. A-222	P	
2.		
3.		
4.		
Total OnHand		2

Enter Line# to Change, Delete to delete, OK to Accept XXXXXX PAGE 1 OF 2

HELP	OKEND	INSERT	LDELETE	PREV PG	NEXT PG	INQUIRY	CANCEL	OFF	Popup
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Lot Inventory Display

Lot Inventory Availability

Whse 002 | HyGen - Brands Item 00000.0275.01 Singulair 5mg CHEW TD 00

PRICE 1 2 3 4 Earliest Delivery

Qty 1 2 3 4

Avail	On Hand	In Pick	On B/O	In Use	Adj Qty	Trn Qty	In Work	On P/O
6	6							

I N#	Whse	Lot# / Length Serial#	Location	Recv Date Expire Dt	On Hand In Pick	Available	Lot Cost
1	002	CL0T221	BC-00-03-01		1	1	
2	002	CL0T222	BC-00-03-01		1	1	
3	002	CL0T223	BC-00-03-02		1	1	
4	002	CL0T224	BC-00-03-03		2	2	
5	002	CL0T247	BC-00-03-05		1	1	

Enter END to exit, PREV PG or NEXT PG : XXXXX

HELP	OK/END	INSERT	LDELETE	PREV PG	NEXT PG	INQUIRY	CANCEL	Off	Group
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Lot and Serial Number Tracking Inquiry

djf - [mail.tshinc.com-15 HYGEN-SERIAL.PROD.INQ01251]

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

Lot/Serial Number Transaction Inquiry

Product# 00591-0782-01
 C4-Diethylprop HCL 75mg

Lot Number or ALL ALL
 Serial Number or ALL ALL
 Pedigree ID or ALL ALL
 Warehouse or ALL ALL

Ln#	Lot No.	Whs Loc	Quantity	Tnx	Release#	Price	Cust/Vend No.	DS
Serial No.	Pedigree	Date	Whs	P/Oh/Ref#	Cust	Cust/Vend Name		
1	3062613	CA 00 00 00	93	INV	01004161001	68.00	100646	
		00000001849	06/02/08	001	na	61.59	Truxton, Inc.	
2	3062025	CA 00 00 00	27	INV	01004161001	68.00	100646	
			06/02/08	001	na	61.59	Truxton, Inc.	
3	3062613	CA-00-00-01	48	POR			148	ND
		00000001916	05/23/08	001	01010705	58.20	DIK DRUG CO.	
4	3062025	CA-00-00-00	27	POR			140	ND
		00000001916	05/23/08	001	01010705	58.20	DIK DRUG CO.	
5	3062613	CA-00-00-00	144	POR			115	ND
		00000001849	05/20/08	001	01010708	63.35	ANDA INC.	
6	3061369	CA-00-00-00	-54	INV	01003739002	68.00	100646	
		00000000521	05/05/08	001	050208bob	63.35	Truxton, Inc.	
7	3061369	CA-00-00-00	54	POR			115	ND
		00000001736	05/05/08	001	01010636	63.35	ANDA INC.	

Enter 'END' to EXIT, 'NEXT PG' or 'PREV PG' XXXXXX

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



- Receiving Form Printed (by Vendor and Purchase Order)
- Inspect and Approve Receipt
- Receipt and Put Away Information Recorded on Receiving Form
 - Form shows current locations
 - Placement of inventory determined by warehouse personnel
- Generate Bar Coded Labels at Receiving (Optional)
 - Product Labels
 - Lot#, expiration date, weight
- Inventory Receipt Info Entered into MDS System from Receiving Form
 - Can be entered in warehouse or office

Receiving Form

SKMBT_C35208052115360.pdf Adobe Reader

File Edit View Document Tools Window Help

1 / 1 00% Find

PURCHASE ORDER NUMBER: 01131104 VENDOR#: 2820 VENDOR NAME: ABCO DEALERS INC

LN#	ITEM NUMBER	MFC#	OPEN QTY	E/O UN	RPLM FLAG	LOCATION(S)	RECV LOC(S)	RECV QTY	PROBLEM/ DISCREPANCY
1	650130 GLOVE NS LTX SN PWDRPREK 100/BOX		200	CS	000	A-001 A-006 A-100			
		Vend Item#: 650130							
							TOTAL QTY RECVD		
2	650132 GLOVE NS LTX ME PWDRPREK 100/BOX		250	CS	000	A-002 A-101			
		Vend Item#:							
							TOTAL QTY RECVD		
3	650134 GLOVE NS LTX LG PWDRPREK 100/BOX		300	CS	000	A-004			
		Vend Item#: 650134							
							TOTAL QTY RECVD		
4	650136 GLOVE NS LTX XLG PWDRPREK 100/BOX		100	CS	000	A-005 A-102			
		Vend Item#: 650136							
							TOTAL QTY RECVD		

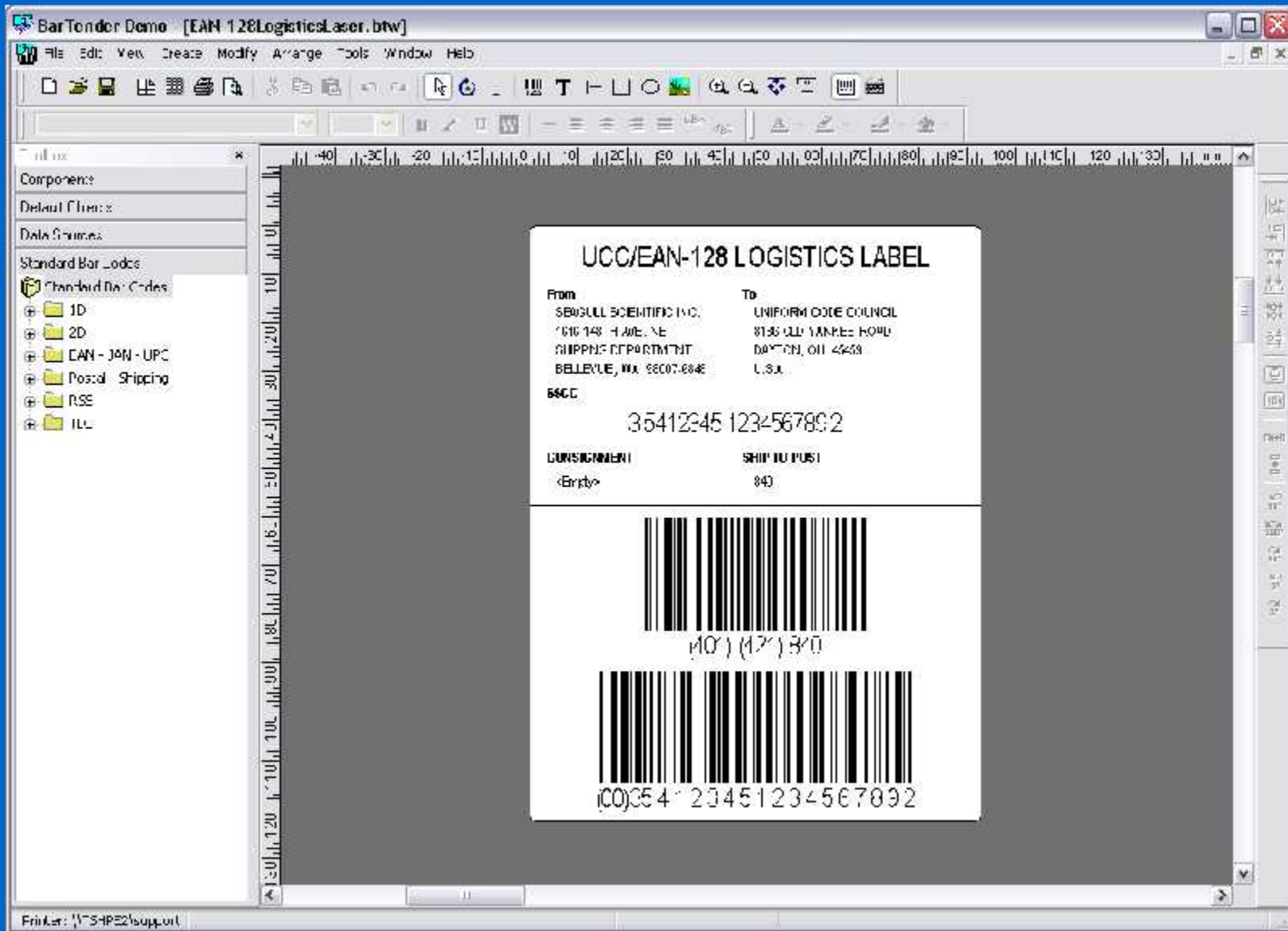
RECEIVED BY _____

DATE _____

CHECKED BY _____

11.00 x 3.50 ii

Label Creation Software



Receiving and Put Away Using MDSWMS Wireless

- Recall Purchase Order(s) to PDT
- Inspect and Approve Receipt
- Paperless Receiving Using Portable Data Terminals (PDTs)
- Receive to “Receiving Location” (Staging Area)
 - Single Receiving Location or by Zone
- Generate Bar Coded Labels at Receiving (Optional)
 - Product Labels
 - Lot#, expiration date, weight
 - Pallet Labels
- Put Away Merchandise and Record Bin Locations using PDT based on:
 - Available space in primary location
 - Existing backup location
 - Additional backup location
 - Cross-Docking of Backorders – By Receiver or By Receiver by Zone
 - Environmental Requirements (hazardous, security)
 - Weight Requirements (i.e. on ground only)

Put Away Function

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

The screenshot shows the 'Receiving Putaway' window with the following fields and values:

- Receiver: 005040 0113: (dropdown)
- Scan: (empty)
- Item: LORIITEM
- Location: A-001
- Qty: 90
- Override: (empty)
- Skip:
- TEST ITEM FOR BLANKET
- Recv Location: LORI

Buttons: List, Menu

The screenshot shows the 'Receiving Putaway' window with a table of items:

Location	Product	Open Qty	Putawa
A-001	LORIITEM	90	
A-002	LORILOT	5	

Buttons: List, Menu

Warehouse Zones

terminal - [RS6000D.TSHINC.COM-20 BASE.12-WAREHOUSE.ZONE.MAINT01251]

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

Warehouse Zone Maintenance

Warehouse 001 NORTHFAST WARFHOUSE
Zone F1

1.Descripton Flow Rack 1

2.Picking Type (Pallet ID) D Diamond Phoenix

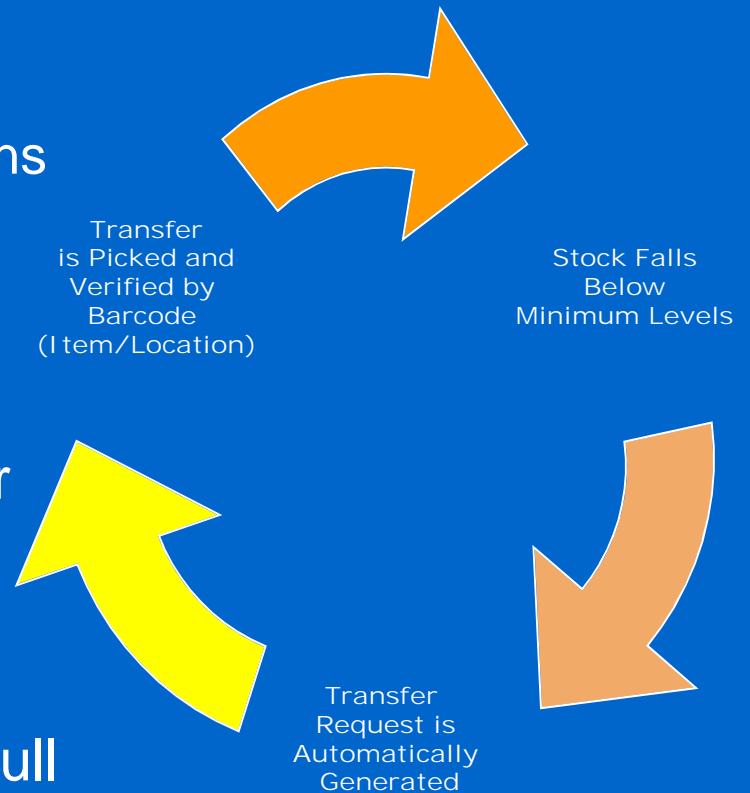
3.Receiving Location 001

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

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

1. Used if inventory by location has been implemented
2. Daily and Just in Time Replenishment
 - Daily – Restock all primary pick locations up to pre-determined level (i.e. 3 days supplies)
 - During day – replenish locations falling below minimum
3. Transfer request generated on paper or electronically
4. Transfers verified by barcode (Item or Location)
5. Stock Rotation – Replenishments will pull from the overflow location with the oldest Received Date or earliest Expiration Date



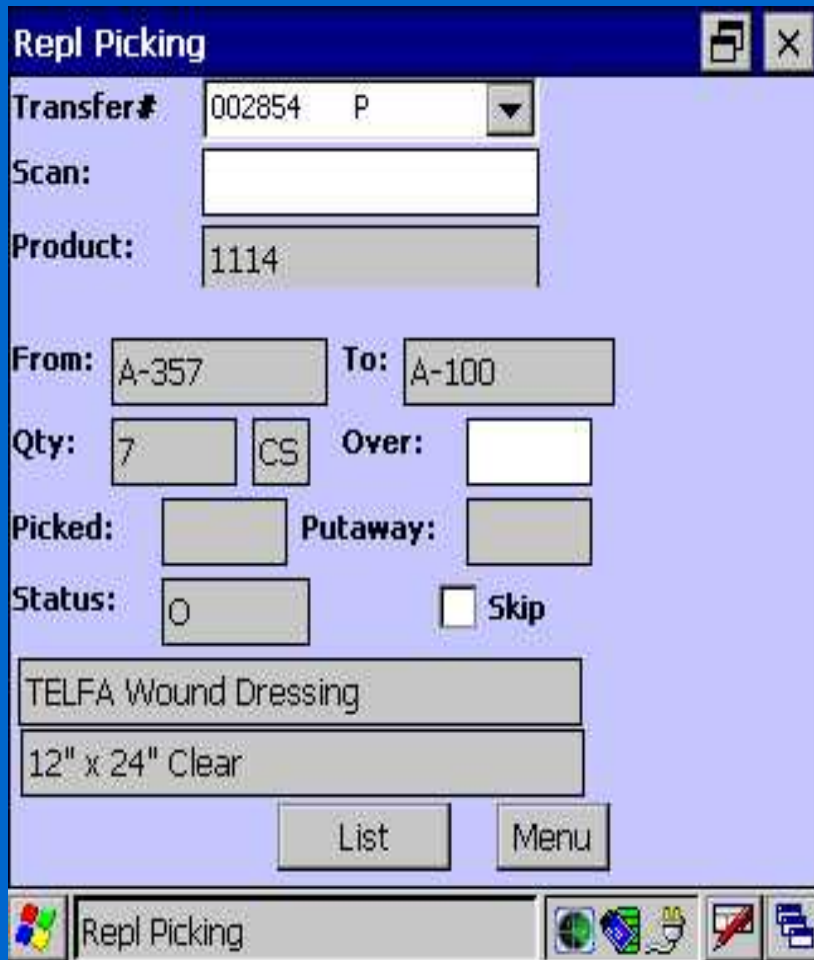
Replenishment Report

PAGE 4 *** Replenishment Report *** 12:57:45 05/14/09

SEQ.ID: 002622

Product #	Description	From Location	Qty Ord	Qty Req	To UM	Location	Repl Qty	Lvl Qty
A34710	VCTR BLD TRANSFER DEVICE	C0105	200	200	EA	0101090302	1	CS20
A39414	APPLCTR CHLOROPREP SEPP	C0114	598	598	EA	0101310201	598	CS1
A52177	DRESS DISK BIOPATCH	C0302	120	80	EA	0101260301	2	CS40
A37887	PROTECTANT SKIN 4 OZ	D0307	24	24	EA	0101180404	2	CS12
A22634	SHAMPOO BABY 4OZ	E0311	60	60	EA	0103070303	1	CS60
A22718	TRANSDU O2 OXISENS LF	F0108	120	120	EA	0101130301	5	CS24
A14026	GAUZ VASELINE 3X18	F0203	116	116	EA	0103120403	116	CS1
A22662	TRAY DRESS CHG	F0315	20	20	EA	0102120101	1	CS20
A12598	STYLET ET SATIN SLIP 14FR	G0215	60	60	EA	0103090604	3	CS20
A22648	TOOTHBRUSH 50 TUFF	G0216	71	71	EA	0103230302	71	CS1
A38881	CLNSR TECHNICARE 12ML	H0112	50	50	EA	0101010505	1	CS50
A52177	DRESS DISK BIOPATCH	H0112	120	40	EA	0101260301	1	CS40
A32822	PAD INFLT IM PAD REG	J0210	4	4	EA	0102050201	1	CS4
A22699	KIT FATHER DEL XLG	K0316	60	60	EA	0102190501	2	CS30

Replenishment



Repl Picking

Transfer# 002854 P

Scan:

Product: 1114

From: A-357 To: A-100

Qty: 7 CS Over:

Picked: Putaway:

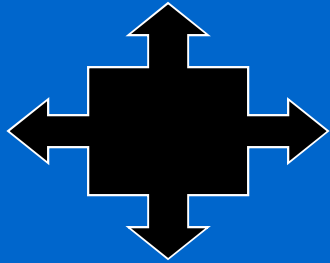
Status: 0 Skip

TELFA Wound Dressing

12" x 24" Clear

List Menu

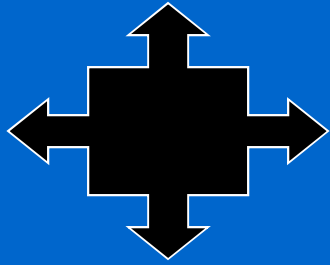
- Transfer ID is scanned.
- On the replenishment picking, each “from” location is scanned.
- On the replenishment put-away, each “to” location is scanned.
- After scanning the “to” location, the product is moved in the system to the new location and an inventory audit is created.



Picking



- Items can be stored in multiple locations. Selection based on:
 - Earliest expiration date
 - Oldest merchandise (receipt date)
 - Solid case vs low unit of Measure
- Items can now have multiple primary locations
 - Primary Location with Quantity Available
- Orders can be grouped for “batch picking”
- Replenishment if in use, must precede print
- MDS splits each order into picking zones:
 - Automated Picking
 - Bulk Area (solid cases)
 - Low Unit Picks



Picking




- Pick Tickets can print upon entry or batched by time Interval
- Pick Tickets typically print in pick location sequence
- Picker picks items and notes discrepancies on the pick ticket
- Order is verified to the system
- Packing Slip Printed
- Shipping process initiated with interface to UPS or FedEx
- Invoice Printed in-line or overnight

Picking Ticket

SKWAT_C35208052116540.pdf - Adobe Reader

File Edit View Document Tools Window Help

100%



STF Impact Company
1052 BURLINGAME AVE
PULFORD, NY 11773

tel 833-517-8030
fax 833-517-3683

Page 1

Order Number
0114572902


Bill-to: unc
 UNIVERSITY MEDICAL CENTER
 ACCOUNTS PAYABLE/INVEST
 170 BROADWAY AVE
 NEW YORK CITY NY 10014-3450

Ship-to: CBS23C **LOT** **ST**
 CHILD HEALTH SPECIALISTS
 ROOM 230 CDD
 NEW YORK NY 10014

Order Date: 05/21/10	Released: 05/19/10
Print Date: 05/21/10	SPR. V. B. UN House ED
Cancel Date:	Customer Code # 121703
Order Taken: BY 000210	Color: BP

Special Instructions: **CRSHT' CRD**

Line	Location	Item Name / Description	Descrip	UM	Shipmt	UM	DD Qty	Unit Price	UM
1	10300	09007431 STR SHIRTS 300 290/29"		1	BL	1	00	1.000	BL
2	10300	09007431 3 Str 300000 2900000		1	BL	1	00	1.000	BL
3	10300	09007431 SHIRTS 300 290/29"		1	BL	1	00	1.000	BL
4	10300	09007431 SHIRTS 300 290/29"		1	BL	1	00	1.000	BL



Picked By: _____

Checked By: _____

Packing Slip

SWART_C35208057212260.pdf - Adobe Reader

File Edit View Document Tools Window Help

Page: 1

Order Number: 01143513001

PACKING LIST

THE SYSTEMS SOURCE, INC.
3322 Route 4E S.
CAJON, NJ 07072
Tel: 973-777-8099
Fax: 973-777-3069

Bill to: 0000
MICHAEL GREEN MD
1412 WEST 37th STREET
SUITE 200
NEW YORK NY 10021

Ship to: 001 SY1
MICHAEL GREEN MD
1412 WEST 37th STREET
SUITE 200
NEW YORK NY 10021

Order Date:	12/12/10	Ship Via:	DEB	Route:	111
Orig. Inv. Date:	12/12/10	Customer Order No.:	77737		
Order Date:		Order No.:	77737		
Order Taken:	BY PAKTIG	Order No.:	77737		

Special Instructions:


Line	Locator	Item Number	Description	Ordered	Qty	Shipped	IN	AV3	Qty	U-R Price	UM
1	S-777	01065	VIAGRA 100MG TAB 30 PREPARED AND Lot #: V-78	5	5	5	0			159.47	EA
2	S-777	01063	VIAGRA 100MG TAB 30 PREPARED AND Lot #: V-10	5	5	5	0			309.42	EA
3	S-117	S-17462	7500 CRACKING BRACING WIRE	5	5	5	0			166.79	EA
3	S-11	SCISSORS	MEDICAL SCISSORS Cat#147 1-4457-10 Serial 144457-11	2	2	2	0			358.00	EA

Invoice

SKWAT_C35208057212260.pdf - Adobe Reader

File Edit View Document Tools Window Help

2 / 2 50%



The Systems House, Inc.
1033 Route 46 E.
CLIFTON, NJ 07013
Tel: 973-777-8050

Invoice

Please Remit To:
The Systems House, Inc.
1033 Route 46 E.
CLIFTON, NJ 07013
Tel: 973-777-8050

Inv Number
01500010
Page: 1

Bill-to: 1030
MICHAEL GREEN MD
1412 WEST 27th STREET
SUITE# 200
NEW YORK NY 11221

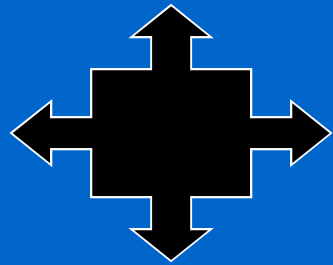
Ship to: 001 011
MICHAEL GREEN MD
1412 WEST 27th STREET
SUITE# 200
NEW YORK NY 11221

Invoice Date: 02/22/88	Salesman:
Ship Date: 02/22/88	Ship Via: 128
Our Order No: 0114353000	Customer Order No: 99937
	Terms: 2/10 NET 30

Special Instructions:

Ln#	Item Number / Description	Ordered	UM	Shipped	UM	Ex/Ch Qty	Unit Price	UM	Extension
1	00149 VIAGRA 10MG TAB 30 CAPSULE WAC	11	EA	10	EA	0	119.17	EA	01,094.90
	Lot Ex 9-10					5			
	Lot Ex 9-16					5			
2	019952 TRHP CARCASS PACIFIC WILD	1	EA	0	EA	0	156.12	EA	1,561.20
3	00185008 BURKHALM SCISSORS	1	EA	2	EA	0	350.18	EA	700.36
	Serial Ex 4457-18								
	Serial Ex 4457-17								
	Sub Total								3,356.87
	Discount								39.00
	Taxable Total								\$3,317.87

8.52 x 11.00 in

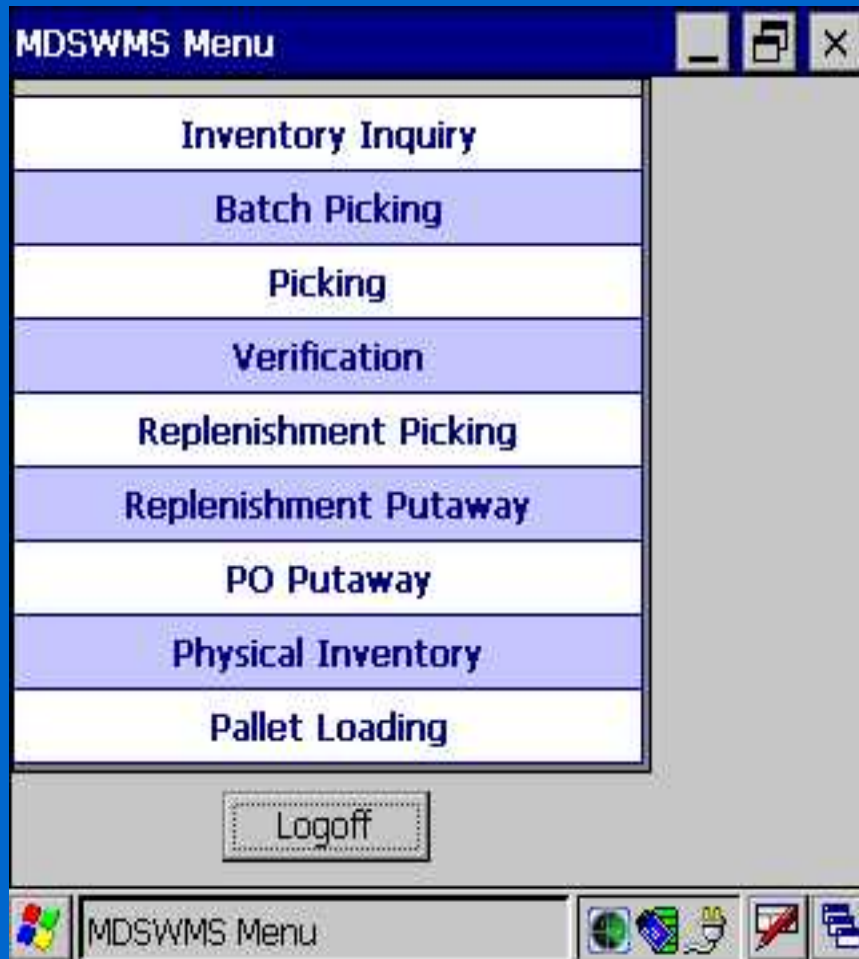


Picking using MDSWMS Wireless



- Customer order scheduling based on priority, shipping schedule and personnel availability
- Items can be stored in multiple locations. Selection based on:
 - Earliest expiration date
 - Oldest merchandise (receipt date)
 - Solid case vs low unit of Measure
- Replenishment if in use, must precede print
- MDS splits each order into picking zones:
 - Bulk Area (solid cases)
 - Low Unit Picks
 - Carousel
 - Pick to Light Flow Rack (PTL)
 - Voice Response
- Orders can be grouped for “batch picking”
- Warehouse manager assigns orders to pickers
- Picker obtains next assigned order from PDT
- Display in pick sequence – picker can change sequence
- Picker verifies picked items and quantities by barcode (Item or Location)
- Discrepancies noted for review and correction
- Order is verified to the system
- Shipping process initiated

Wireless Menu



**Customizable
Menu by
Operator**

Picking

Wireless Picking Using Scanners

Picking

Shipto: UNIVERSITY MEDICAL CEN

Customer: UMC ShipVia: 02

Release: 01146186001 UNIVER: Cartons

Scan: [] []

1114 A-100

Qty Skip Override TOTE

1 EA [] []

TELFA Wound Dressing

12" x 24" Clear

Verify Audit List Menu

Picking

Picking

Shipto: UNIVERSITY MEDICAL CEN

Customer: UMC ShipVia: 02

Release: 01146186001 UNIVER: Cartons

Scan: [] []

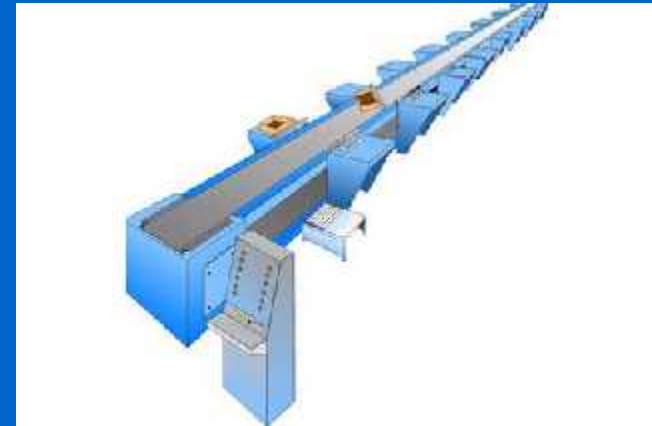
Location	Product	Pick Qty	Picked
A-100	1114	1	

Verify Audit List Menu

Picking

Automated Material Handling

- Innovative technologies
- Advanced software solutions
- Data collection and analysis
- Hardware Solutions:
 - ❖ [Horizontal carousels](#)
 - ❖ [Vertical carousels](#)
 - ❖ [Heavy-duty carousels](#)
 - ❖ [Vertical lift modules](#)
 - ❖ [Heavy-duty vertical lift modules](#)
 - ❖ [Storage and retrieval machines](#)
 - ❖ [Automatic inserter/extractors](#)
 - ❖ [Pallet conveyor](#)
 - ❖ [Tote/case conveyor](#)
 - ❖ [Sortation systems](#)
 - ❖ [Light-directed picking](#)
 - ❖ [Voice-directed picking](#)
 - ❖ [Wireless picking](#)
 - ❖ [Specialty products](#)



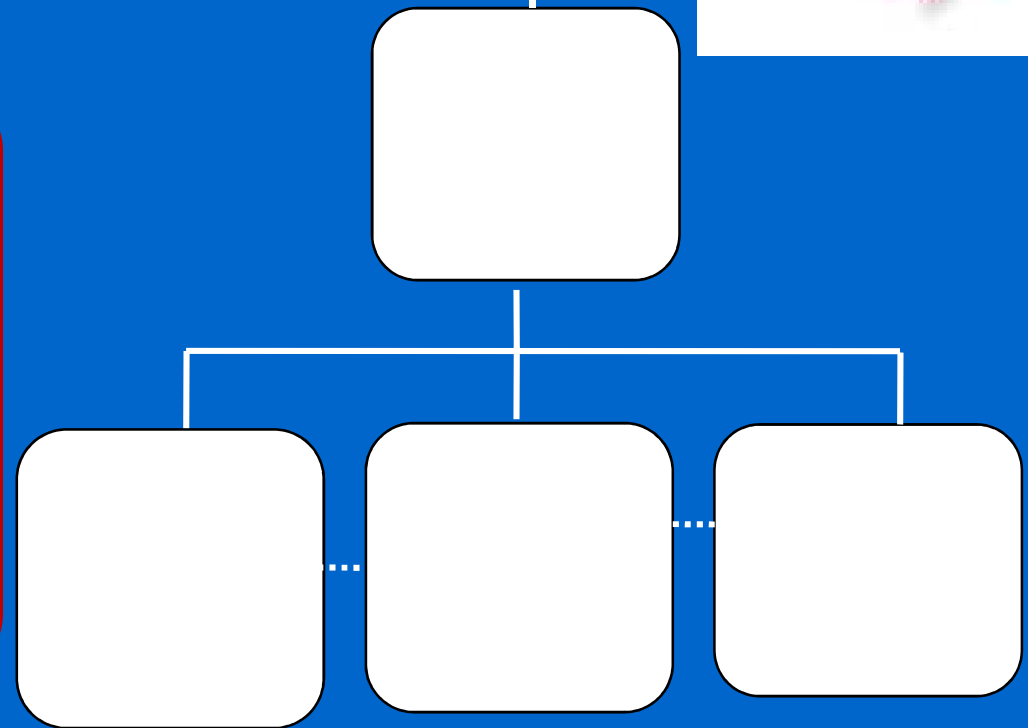
Software Information Flow

MDS – WMS
Server



MDS-WMS for
Medical
Distribution
Receiving
Put-away
Solid Case Picking
Replenishment
Transfer/Cycle Count
Diamond MHS Interface
Order Consolidation
Print documents/labels
Reporting
Order Tracking
Optional Modules

MDSWMS
Handheld
Application:
Inquiry
Put-away
Picking
Replenishment
Inventory Counting



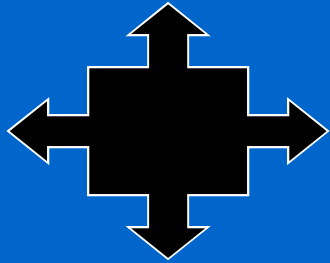
Carousel And Conveyors



Carousel System

- Automated Storage and Retrieval System for High Speed Order Picking
- The PowerPick software works seamlessly in conjunction with the MDS software
- Saves time while increasing productivity, can improve order picking productivity by as much as 600 percent
- Improves order accuracy and inventory control
- Reduces labor costs
- Saves space

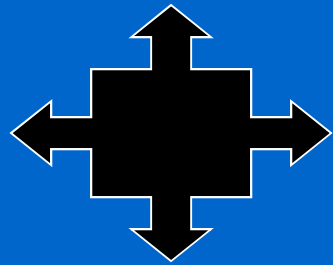




Order Consolidation



- Totes can have fixed Tote ID's, or the Tote number can be assigned and a tote label prepared by MDS at the carousel or PTL system.
- DiamondPick uploads all tote numbers used for an order.
- MDS prints labels for the solid case picks with order number and product bar codes.
- At consolidation station tote bar codes and solid case labels are scanned:
 - Confirm entire order has been picked
 - Print shipping labels
 - Print packing slip(s) by tote.



Labor Statistics



- Labor tracking by picker
 - Number of Lines/Hour/Day/Month
 - Number of Orders/Hour/Day/Month
 - Dollar Value
 - Qty of Items picked
 - Time to Pick
 - Average Lines/Orders

Picker Statistics Report - Summary

Wireless Picker Statistics Summary Report - Ran on - 10 Jun 2009 PAGE 1

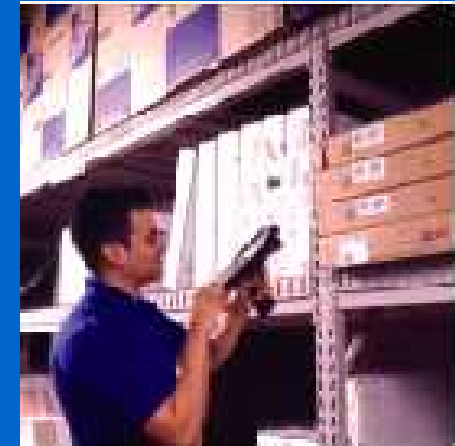
Picker		From	To	Elapsed	Lines	Lines/Hr	Qty
Picker 00	Jeff Schroeder	04:31am 03/06/08	12:16am 03/21/08	0.00	986	0	15327
Picker 3	Shay Martin		03:52pm 03/30/08	33.39	12692	380	210279
Picker 4	Rafael Gonzalez		04:59pm 03/31/09	150.36	344	2	7268
Picker 6	Olive Desire		01:31pm 03/25/08	26.62	13436	505	203000
Picker 7	Jean Abellard		02:14am 03/17/09	0.00	33	0	918
Picker 9	Wanda Cheverez		12:40pm 03/31/08	33.00	21775	660	366077
Picker 11	Carmen Santiago		04:54pm 03/31/08	33.32	12093	363	178876
Picker 12	Rick Schmidt		08:47am 03/31/09	0.00	1006	0	15538
Picker 14	Amy Slabinski		05:01pm 03/31/08	21.52	6642	309	106373
Picker 15	Markus Hayes	07:27pm 03/21/08	02:16am 03/20/09	3.51	244	70	6424



Warehouse Procedures

- Other Procedures

- Cycle Counts
- Physical Inventory
- Inventory Adjustments
- Transfers
- Customer Returns
- Return to Vendor



mds **Warehouse**

from The Systems House, Inc.

Physical Inventory

MIS for Windows Version 7.11.11 - [MS60000.Ishinc.com-19 (IASL17-PLTAG.GENDM051)]

File Edit Settings View Reset Tools GUI FDS Standard Options Special Options Help

Physical Inventory Tag Generation

Date Created: 10/14/05
Time Created: 01:00:40pm
Status Code: Y

Cycle Count Code: 7777

1. Full Physical: Y
2. Warehouse Number: 001
3. Select on Type: 9

4. From Prod# or ALL		To Prod#	
5. From Vendor#		To Vendor	
6. From Prod Line		To Prod Line	
7. From Product#		To Product#	
8. From Cycle		To Cycle	
9. From Product Rank		To Rank	
10. From Prod Class		To Prod Class	
11. From Warehouse ALL		To Warehouse	
12. From Location or ALL	ALL	To Location	

13. Generate Tags: Y
14. Blank Tags:

XXXXXXXX

HELP OK<END INSERT LDELETE PFEV PG \NEXT PG INQUIRY CANCEL OF Fupup

start | Inboxes - Micro... | 257 - Craig C... | Google Search... | MIS for Wind... | Microsoft Po... | 1:15 PM

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

MDSWMS Inquiry

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

Stk: BX Box: 1 Case: 5



OK

Return Menu

MDSWMS Inquiry

Inventory Transaction Tracking

Simvastatin_inquiry - Windows Picture and Fax Viewer

djf - [mailto:tshinc.com-1711YGEN-INV.IIIST.PROD.INQ010\$1]

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

Inventory Transaction History by Product

Product# 40880-41797-75 Simvastatin Hlong TH 90 PF

Warehouse or ALL ALL COM 011 5B CUR 011 5B RR

Ln#	Customer/Vendor Number Customer/Vendor Name	Date DropShip	Inv Whs	Reference/Ref P/O#//ReasCd	Qty		Price Cost	Inv GP%
					Sell	SI		
1	110017 L.Fernandez Farmacia	01/20/00 ND	INV 001	0100140001		1	5.15	FA
2	162 GENETCO INC.	01/22/08 ND	POR 001	002282 01010007	EA	EA	5.15	186
3	100317 J.Fernandez Farmacia	01/20/00 ND	INV 001	01001030001		1	6.00	CA
4	110017 J.Fernandez Farmacia	01/20/00 ND	INV 001	01001025001	FA	FA	5.15	14
5	110017 L.Fernandez Farmacia	01/20/00 ND	INV 001	01001046001	FA	FA	5.15	186
6	100317 L.Fernandez Farmacia	01/20/00 ND	INV 001	01000611001	EA	EA	5.15	14
7	100202 Family Physicians RX, Inc.	01/20/00 ND	INV 001	01000564001	CA	CA	5.50	100

Enter 'END' to EXIT, 'NEXT PG' or 'PREV PG' XXXXXX

Detail	OK/END	INSERT	DEL/TF	PREV PG	NEXT PG	INQUIRY	CANCEL	OFF	Print
--------	--------	--------	--------	---------	---------	---------	--------	-----	-------

Reporting

MDS for Windows Version 8.2.1 - [rs6000d.tshinc.com-61 LEESAR-INV.REPORTS]

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

Accounts:61 LEESAR Port:661 Menu:INV.REPORTS Capture:On

Inventory Reports System

Transaction Registers

1. On Order Posting Register
2. In-Transit Posting Register
3. Receipts Posting Register
4. Inventory Adjustment Register
5. Transfer Register
6. Inventory Transaction Audit Report
7. Product Activity Report
8. PO Product Activity Report

Inventory Status Reports

9. Stock Status--Sales Report
10. Low Stock Reports
11. Excess Inventory Report
12. Purchasing Report by Vendor
13. Weeks Supply Analysis
14. Lot Availability Report
15. Intransit Listing

Inquiries

16. Inventory by Vendor Inquiry
17. Inventory by Vendor Inquiry (CRT)
18. Inventory Transaction - by Customer
19. Inventory Transaction - by Product
20. Inventory Transaction Report
21. Lot Availability Inquiry
22. Availability Detail Report
23. Availability Detail Inquiry
24. Availability Summary Report
25. Availability Summary Inquiry
26. Arcos Acquisitions Transaction Rpt
27. Arcos Dispositions Transaction Rpt
28. Lot Expiration Date Report
29. Product Inactive Report
30. Inventory Adjustment Report
31. Physical Inventory Variance Report
32. Excess On-Hand Report
33. On Hand Value Excel File

Enter Selection or END :

HELP	MAIL	PRINT	ENTER	DELETE	ESC	F12	VIEW	ALT	DOWN
	ADDRESS	ADDRESS				INITIALS	PRINT		

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