# MDS-Nx Warehouse Management System





#### Warehouse Management System (WMS)

#### What is it?

WMS is a software application that helps manage and control the day to day operations in a warehouse
Why is it important to have a WMS?
Improves Productivity
Improved Inventory Accuracy
Improved Order Processing Accuracy (less returns)

#### Warehouse Management (WMS) Functions

- Receiving/Put Away
- Replenishments
- Batch Picking
- Assigning and Picking Individual Releases
- Verification and Shipping
- Physical Inventory
- Inventory Inquiry and Adjustments



#### Warehouse Management (WMS) Functions



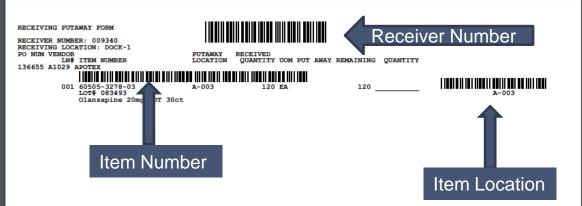
- Receive to "Receiving Location" (staging area), Single Receiving Location, or by Zone
- Generate Put Away forms (optional)
- Put Away Merchandise and Record Bin Locations using Portable Data Terminals (PDTs)

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# Receiving and Put Away Processes Receive to "Receiving Location" (staging area), Single Receiving Location, or by Zone

Purchas	se Order Receipts To	tals								
Receive	r Number				009336	Currency	US	U.S. DOLLARS		
Receivin	ng Location		****	XXXX	3					
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#### Put Away Form



After the product is received, a Put Away is printed and assists your operators in receiving the product

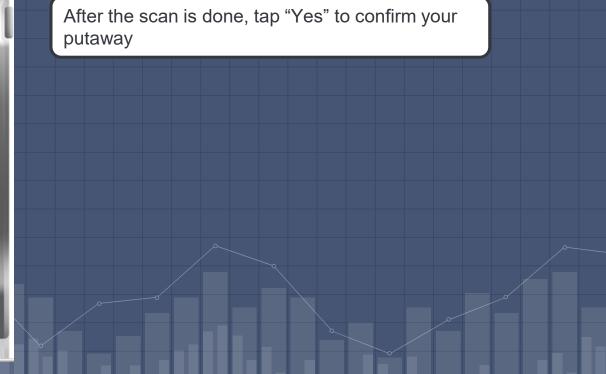


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Click the drop-down arrow next on the Receiver field and select the receiver to begin with.

The first item is displayed, along with the location to put the item in. Simply go to that location and scan the location or item bar code. This process will default the quantity being put away.

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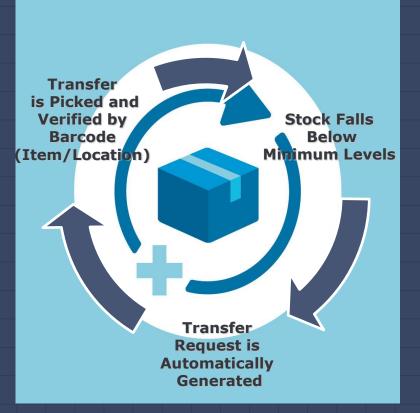
Once all items are putaway, the system will prompt, "No products to putaway", tap "ok"

#### Replenishments

Daily and Just in Time Replenishments

- Daily Restock all primary pick locations up to pre-determined levels
- During day replenish locations falling below minimum
- Transfer request generated on paper or electronically

Transfers verified by barcode



# Replenishments

base - [rs6000d.tshinc.com-BASE.12-REPL.ASSIGN012\$1]

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#### Replenishment Picking

This process will pick the items from the bulk and overflow locations

> Scan the Transfer ID from the report, or tap the drop-down arrow and select the transfer to work with

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#### Replenishment Picking

The first item to pick is displayed. Go to the location and scan either the location bar code, or the item bar code to initiate the picking

\*\*\*If the quantity is different, input the new quantity in the Over field

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# Replenishment Picking

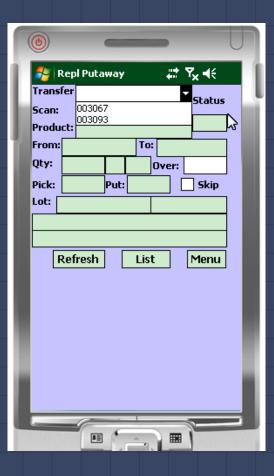
After scanning the bar code, the system will prompt "OK to Pick qty from location?". Tap "Yes"

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#### Replenishment Putaway

This process will put the items picked prior and put them into the primary locations.

Tap the drop-down arrow and select the transfer to work with



#### Replenishment Putaway

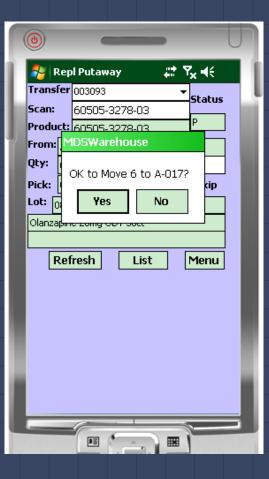
The first item to putaway is displayed

Go to the location and scan either the location bar code, or the item bar code to initiate the putaway

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#### Replenishment Putaway

After scanning the bar code, the system will prompt "OK to Move qty from location?" Tap "Yes"



#### Assignment of Picking using WMS

- Batch Picking
  - Groups of releases are assigned to a picker by the warehouse manager
- Picking Individual Releases
  - Releases can be assigned by warehouse manager
  - Pick ticket can be scanned to initiate picking

# Pick Ticket Assignment

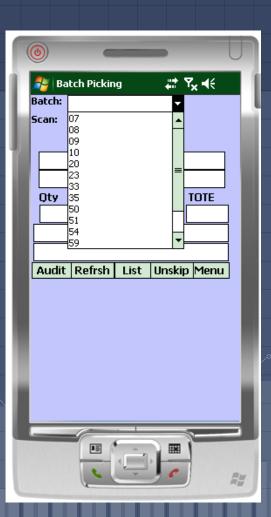
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# Batch Picking This process will pick the multiple releases assigned to the batch

When using Batch Picking, the picker would select the batch first



#### Batch Picking When Batch Picking, each item in the batch of releases are displayed to be picked.

The first item to pick, its location, and lot# are displayed. Go to that location to pick the item

Once at the location, scan either the item or location bar code to confirm the quantity.

If there is a picking discrepancy, input the new quantity in the Override field

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Tote Option

 When batch picking, if tote logic is enabled, the operator can place items in totes for multiple ship to addresses for the same customer

After scanning the item, scan the tote

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Confirm that it's OK to add the item to the tote

The next item will be displayed on the PDT, scan it, then scan the tote. If the customer is the same, you can use the same tote, otherwise a new tote will be required.

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Product	MDSWarehouse
Lot	OK to add to Tote 645
Please	
Qty	Yes No
Olanzap	ne zong op i soci
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•	III

After all picking is completed, tap the Audit button to finish



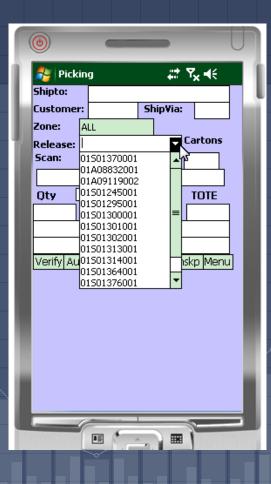
# Assigning Invididual Releases

MDS Picki	ng Ticket Assignment																			
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14 15	01A08734002 01A08734003		03/06		John Smith Inc.	11	5			C C			-		C C	1		_		
15	01A08942001		03/06		RACHEL CUST		5			c			-		c	1		_	- 64	
10	01A08950001		04/21		John Smith Inc.	11	5			c			-	_	c	1		_	- 64	
17					John Smith Inc.	11	5			c			-		c	1		_	- 64	
10	01A08987001	U	05/13	15:22	John Smith Inc.	"	9			C			-		C	· ·				
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-	<u> </u>			-	-					-										

#### Picking Releases

Tap the drop-down arrow to display a list of releases to choose from, then tap on the release to begin.

If the releases are not pre-assigned, scan the bar code on the pick ticket to begin the picking process



#### Picking Releases

- Tote Options depending on the preset option, the operator can assign items into specific totes for shipping
  - Options when assigning totes:
    - Assign with each item scan
      - Assign once, then only when the operator changes totes





#### Picking Releases Without Totes

The first item to pick, its location, and lot# are displayed. Go to that location to pick the item

Once at the location, scan either the item or location bar code to confirm the quantity.

If there is a picking discrepancy, input the new quantity in the Override field

۲		_	-	•		U
🎝 Lo	t Picki	ng		## Y	′x ⊀€	
Scan						
Select				-		
Release	0150	)173900	1	Line	1.1	
Product	1366	68-0137-	-05			
Lot	5468	37-315	Lo	- A-0	01	_
Qty	3	EA	0	erride	•	
Escitalo	pram C	Dxalate 2	20mg	tab 5	00	
1						
ОК		Q	uit		List	t
ОК		Q	uit		Lis	t
ОК		Q	uit		Lis	t
OK		Q	uit		Lis	t
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		Q			Lis	t ▶
					Lis	t

# Picking Releases Without Totes

Once all items on the release are picked, tap "ok"



#### Picking Releases with Totes

This example, the Tote option is to scan a tote when picking each item

The first item to pick, its location, and lot# are displayed. Go to that location to pick the item

Once at the location, scan either the item or location bar code to confirm the quantity.

If there is a picking discrepancy, input the new quantity in the Override field

۲		-	-	1	U	
🎥 Lot	Picking		÷.	۲ <sub>x</sub> -	ŧ	
Scan						
Select				<b>-</b>		
	0150186	55001	Lir	1e 1	.1	
Product	60505-3	278-0	3			
Lot	083493			-003		
Qty 4	ł	EA	Overr	ide		
Olanzapir	ne 20mg	ODT 3	30ct			
ОК		Qui	t		List	
•						
	PE (	¢ .		1		
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# Picking Releases with Totes

This example, the Tote option is to scan a tote when picking each item

Scan the tote that the item will go in

9		-	-		U
🍠 Lot	Picking		÷	: 7,	€
Scan					
Select				•	
Release	01S018	65001	L	ine	1.1
Product	60505-3	3278-0	3		
Lot	083493		Loc	A-00	3
Please : Qty 2		EA	Over	rride	
	' <u> </u>		BOct		
ОК		Qui	t		List

#### Picking Releases with Totes

This example, the Tote option is to scan a tote when picking each item

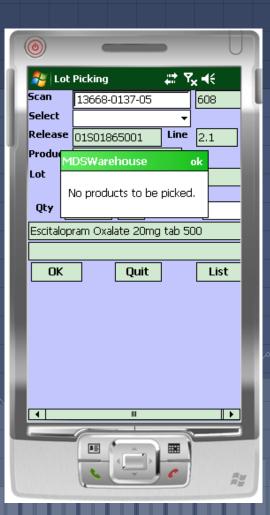
Confirm that it's OK to add the item to the tote

The next item will be displayed on the PDT, scan it, then scan the tote. The tote can be the same tote or a new tote

٢		J
📔 🏞 Lo	t Picking 🕂 🎝 🕂	
Scan	608	
Select	<b></b>	
Release	01501965001 Line 1.1	
Product	MDSWarehouse	
Lot	OK to add to Tote 608	- 11
Please		-
Qty	Yes No	
Olanzap		
		-
ОК	Quit List	
•		
		8

# Picking Releases with Totes This example, the Tote option is to scan a tote when picking each item

Once all items on the release are picked, tap "ok"



## Verification and Shipping

- There are three options for Verifying (Invoicing) the release:
  - Through the Picking module on the PDT
  - Using the Verification module on the PDT
  - Using MDS to verify the release

# Verification and Shipping Done Through the Picking Module

After Picking is complete, tap on the Verify button



# Verification and Shipping Done Through the Picking Module

The release has now been verified. There are options to print the packing and/or reorder labels.

You are given options to print the pack labels and reorder labels when you are shipping the packages.

When complete, tap "Done"

If set to print, packing list and invoice will also be generated

0	_	-	U
🚑 Pickin	g	÷* 1	₹ <sub>×</sub> ∙€
Shipto:	UMC MEDIC	TAL	
Customer:	UMC	Ship¥ia:	09
Release:	015018660	01	]
Zone:	ALL		
Release 019	501866001 \	verified.	
	During Da	-1-111-	
	·	ck Labels	_
	Print Re	order Lab	els
Print	D	one	Menu
			_
•			
		-	
			and

# Verification and Shipping Done Through the Picking Module

In the Picking module, after completion, tap "Aud" to finish

٢		_		U
🍠 Pick	ing	#	' <b>7<sub>x</sub> </b> €€	
Shipto:	UMC MED	ICAL		
Custome	r: UMC	Ship¥ia	<b>:</b> 09	
Zone:	ALL		_	
Release:	015018670	01 👻	Cartons	
Scan:			0	
Qty [	Skip	Override	TOTE	
		-		
Verify Au	id <mark>Rfrsh Lis</mark>		nskp <mark>Menu</mark>	<u>1</u>
				- 84
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		<b>=</b>	8	
	6	- 1		RM
	0			

# Verification and Shipping Done Through the Verification Module

The release drop-down will display all releases ready to be verified, select one



# Verification and Shipping Done Through the Verification Module

Review on the screen the items and quantities picked. Tap the Verify button to invoice

Shipto: U Customer:	y Release MC MEDICAL	#1 5	7 <sub>×</sub> ∙€
Customer			
	: UMC Via		
Release:		<b>a:</b> 09	Cartons:
	01501867001 UN	1C MED 🔻	·
Location	Duration	Distant.	T
	Product	Picked	InvQty O
A-003	60505-3278-0	2	2
Verify	Audit		Menu
			- Icilia
•	Ш		•
	6	-	<u></u>
	1 ×		

# Verification and Shipping Done Through the Verification Module

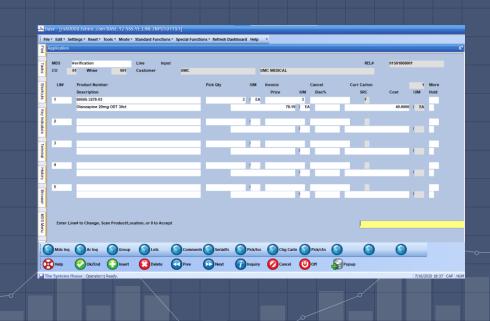
When complete, the release will be verified

If set to print, packing list and invoice will also be generated

0		
	rify Release 👫 🎝 🕂	
Shipto:		
Custome		
Release	·	
Locatio	MDSWarehouse ok	
	Release 01S01867001 verified.	
•	Ш	
Verify	Audit Menu	
•		

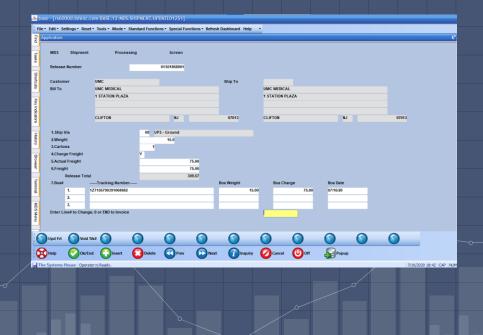
## Verification and Shipping in MDS

 After being picked on the PDT, the release would then be verified in MDS



## Verification and Shipping in MDS

 Shipping information can be processed by the operator, or in an automated process



#### Physical Inventory

#### This process is used to enter cycle counts

The tags are printed and given out. Simply scan the bar code on the tag. Input your counts and tap "Update"



TAG NO	332//0 010	LE COUNT# 2020			
P/N	60505-3278-03	st St	ock UM: EA CS: 12 E	A: 1	
DESC	Olanzapine 20	mg ODT 30ct			
WHS NO	001 WHS LOC	A-003	LOT NO 083493	1	
CS :	EA:	EA EA:	Count :	Ver 1	By: Recount
TAG NO	332771 CYC	LE COUNT# 2020			(
P/N	60505-3278-03	s st	ock UM: EA CS: 12 E	A: 1	
DESC	Olanzapine 20	mg ODT 30ct			
WHS NO	001 WHS LOC	A-017	LOT NO 083493	l	
CS :	EA:	EAEA :	Count :	Ver 1	By: Recount

The tag is displayed, along with detailed information for the item: unit of measure, location, lot#, and description.

Inventory Tag Entry 🛛 🏭 🏹 📢

Lot: 083493

Count

ш

Inquiry

Count: n

Wh: 001

Stk Qty

EA.

Menu

Scan:

Loc:

U/M

EA

CS

Tag#: 332771

Item: 60505-3278-03

Qty

1

Update

12

Olanzapine 20mg ODT 30ct

A-017

#### Physical Inventory

Tap on the Count box and input the counts. When complete, tap "Update". Then you are ready to scan the next tag

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Sca	IN:						1	Wh:	0	01	Γ
Tag	<b>;</b> #:	332771 Count:				:	0			1	
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	S		12							•	
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	Up	Jpdate Inquiry Menu						enu			
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## Inventory Inquiry

You can lookup stock information for any item in the system.

Inventory adjustments can be made for any non-lot items. Just tap on the "Adjust" button

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2	M	)SWI	45 Inq	uiry	्र‡‡ भू	, × '	€	
Proc	Product		9390					
Scan						]		
Des	criț	otion	CURA	FOAM V	Vound Dr	es		
	Vendor							
ven	iuo	r 	KEND/	ALL				
Stk:		ΕA	Box:	25	Case:		10	
Whs	La	ocati	on	OH	IP	A	vail	Ι
001	To	otal W	'HS 001	20		20	)	
***	A-	-001		20		20	1	
					1	-		
Adju	st	Re	turn	lmage	Usage	2	Mer	nu
Adju	st	Rel	turn 1	[mage	<mark>Usage</mark>	2	Mer	nu
Adju	st	Rel	turn 1	(mage	Usago	2	Mer	nu
Adju	st	Rel	turn (1	(mage	Usage	2	Mer	ıu
Adju	st	Rel	turn (1	[mage	Usago	2	Mer	וע
Adju	st	Rel	turn [	(mage	Usage	2	Mer	nu
Adju	st	Rel	turn (1	[mage	Usage	2	Mer	nu
Adju	st	Rel	turn (1	<mark>(mage</mark>	Usage	2	Mer	10
Adju	st		turn (	[mage	Usagu	<b>-</b>	Mer	nu
	Ist	Rel	turn [		Usago	2	Mer	10
Adju	ist		turn [	[mage	Usago	2	Mer	
	st	₽	turn (		Usago	2	Mer	

## Inventory Inquiry

Select the location, quantity, and reason code, then tap on the "Update" button

0	
🐴 MDSWMS	5 Location Ac 井 🏹 📢
Product	9390
CURAFOAM Wo	und Dressing
Warehouse	001 THE SYSTEMS HOU
Location	A-001 20 🔻
OnHand Whs:	20 LOC: 20
New Location	
Moved Qty	-2
Reason Code	D6 DAMAGED GOODS
Update	Cancel Menu
	$\searrow$
-	