

Bar-Coded Wireless Warehousing



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1. Why Implement in This Economy?

REASON WHY	DESCRIPTION
1. You have the People you Need	If you are ready for the rebound, then you still have your most qualified people – ready to implement this key project now.
2. Your Return On Investment is Rapid	Bar-Coding ROI is usually 6 months or less. Taking your inventory accuracy from 95% to 99+% quickly saves you the time you currently spend correcting errors.
3. Going Paperless: Wireless Dispatching	It's not just the cost of paper saved – it's the increased efficiency of timely picking of the most important orders.
4. Arranging Locations = Efficient Picking	If you can pick orders sequenced by their "Quick-Pick" locations, you eliminate inefficient run-around search time.
5. Take your Warehouse to the Next Level of Sophistication	Picking multiple orders simultaneously & assigning multiple pickers to large orders saves time.



2. Principles of Wireless Bar-Coding

PRINCIPLE	DESCRIPTION
1. Perform Real-Time Activity Updates to Database	QAD is updated in real-time at point-of-use, keeping on-hand/in-process “real”, and eliminating guessing problems .
2. Read Bar-Coded Item Data in One Scan from Item Tags	Tags must be attached to Items! Full Item identity should be included in one bar-code assuring accuracy (Item+Lot+Expiry).
3. Validate Scanned Data & Provide the Important Information to Your Folks	Display scanned Info; verify part correct, on-hand is adequate, lot/expiry matches.
4. Verify Scanned Activity against Scheduled Activity to Keep Things Real	Check order due date, picked quantity vs. schedule, allocated pick location/lot vs. actual location, etc.
5. Graduate from Bar-Coded Tags to RFID Tags	RFID tags do not need to be manually read by laser scanner. Let your pickers do their jobs with automated scanning.



3. Wireless Bar-Coding Functions

BASIC BAR-CODING FUNCTION	DESCRIPTION
1. Receive Purchase Orders & Print Labels	Receive PO's (regular, subcontract, blanket, supplier sched) & disposition according to "Skip-Lot" sampling.
2. Transfer an Item	Move single item from one location to another.
3. Pick Work Orders	Pick sequenced by location, pick multiple orders, multiple pickers for large BOM.
4. Move Work Orders through WIP	Move WO's through operations in WO Router, validating quantity & sequence.
5. Receive Work Orders & Print Labels	Receive WO into Quick-Pick/Bulk locations & print bar-coded labels.
6. Pick & Pack Sales Orders	Pick sequenced by location, pick multiple orders, multiple pickers for large orders.
7. Count Inventory	Cycle Count, Physical Inventory & WIP.



Receiving Purchase Orders & Printing Bar-Coded Labels

```
PONbr: 28983
RcvDt: 07/17/09
Part 80077753
ELEC ASSY-SLIV+ 60,
Ln 1 Opn 1.0
PksQ 1
RcvQ 1
Locn insp
Lot#
#Lb1s 1
Update Receipt?
Yes
```

Receive regular, subcontract, blanket release, supplier schedule PO's and print bar-coded item labels.

Optionally, decide whether to inspect this lot or not, based on your sampling logic.



Work Order Moving & Labor Reporting

```
RF/BAR MOVE/LABOR
Empl: 00023
Shft: 1
W/o: 5677072
05040738
BODY-HP ATTEN, .96L,
Operation:      110
Rejects? no
Reworks? no
QtyOpen:        5.0
MoveQty:        5.0
SetUp:          0.1
RunTm:          2.3
OP Complete: yes
Move nxt OP: yes
```

Sequentially move your work orders through their routing-operations, optionally reporting rejects, setup & run times, without orphaning unreported, forgotten, or lost items in process.



4. Wireless Warehousing Functions

Provide wireless-terminal processes beyond error-free scanning of bar-codes.

WAREHOUSING FUNCTION	DESCRIPTION
1. Sales Order & Work Order Dispatching	Replace piles-of-paper pick lists with on-screen, prioritized list of pickable orders; and then sequence picking by location.
2. Pick Multiple Orders Simultaneously	Choose multiple orders to pick & choose multiple pickers for large orders.
3. Replenishing “Quick Pick” Locations (for picking efficiency)	Based on pickable & upcoming orders, guide replenishment of Quick-Pick locations, including cross-docking.
4. Transferring Carts Trucks-Full of Parts	Put-away “inspected” parts, move from bulk-locations and cross-docks to quick-pick locations; re-arrange storage bins.
5. What Else Do You Need to Improve Your Warehousing?	We have more warehousing programs, and we will “build-to-order” for you, at no extra cost. (This adds to our offerings)



On-Screen Sales Order Dispatch List

```
RF/BAR SO Pick
Shipable Sales Ords
1 SEO500 03/28/08
2 424693 03/06/09
3 426802 03/25/09
4 424932 04/08/09

Enter Seq/SO# to Pck
2
```

This screen replaces the piles of paper pick-lists with one simple screen-full of all eligible sales orders (or work orders). It immediately adds new (rush) orders to the top of the list – something paper pick lists can't easily do.

Wireless dispatching can also provide for picking Material Orders (for Service & Distributors) as well as regular Sales Orders – all from one dispatch screen (e.g., “SEO500” in this example).



On-Screen Pick List Sequenced by Location

```
RF/BAR SO Pick
SO#: 424693 Ln: 1
Due: 03/06/09
P/N: 20458194
Opn: 132 Pkd: 0
Site: 3bx
Locn: PR56
Lot#:
LQty: 132
Part:
Lot#:
```

In place of printed pick-lists, pick sequenced by “quick-pick” location. (Much more efficient picking than QAD’s sequencing by SO line number or WO part number.)

According to your picking rules, synchronized pickers get their assigned picks for only their inventory “zones”.



Quick-Pick-Locations Replenishment Report

xxsssocalc 0717

Replenishment Report

Date: 07/17/09

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Time: 10:29:41

sodm_part	TOTAL REQD	Oldest Due	QP Locatn	QP On Hand	OtherLoc	Qty On Hand
SE-7349	18.00	04/29/09	1C09Z	3.00		
699-039	1.00	05/07/09	2E21F	0.00		
PS-2570	14.00	06/26/09	1Z06Z	11.00	1Z06C	3.0
PS-2103A	65.00	06/26/09	1A04C	52.00	1K02A	300.0
					1Z10A	480.0
					2W01A	440.0
					AIT	1,920.0
PS-2104	32.00	06/26/09	1A04D	0.00	1J04A	944.0
					1K10B	400.0
					1k12a	960.0
					1k20c	555.0
SE-8694A	16.00	06/26/09	1K24C	0.00		
PS-2170	32.00	06/29/09	1B17C	0.00	1B17A	1.0
PS-2002	35.00	07/01/09	1A02Z	2.00		
SE-8692	11.00	07/02/09	1D20D	0.00		
ME-6694	4.00	07/06/09	1B12B	0.00		
PS-2169	45.00	07/07/09	1G02Z	0.00	1b17z	25.0
SE-8841	10.00	07/09/09	1E07C	0.00		
PS-2158	67.00	07/10/09	1B19E	7.00		
655-012	3.00	07/10/09	1M12C	0.00		
SE-8840	3.00	07/13/09	1E07C	1.00		
TD-8565	2.00	07/13/09	1	0.00		
PS-2878	6.00	07/13/09	1F08Z	0.00	1F12Z	4.0
					zpack	2.0
OS-8500	15.00	07/13/09	1C20Z	0.00		
ME-9341	5.00	07/13/09	1F06Z	4.00		
SE-9600	2.00	07/13/09	1G01Z	1.00		
TD-8564-220	1.00	07/13/09	1Z28B	0.00		

PART
NUMBER

TOTAL
REQD

OLDEST
DUE

QP Loc
OH

Other
Locs OH



Transferring Carts- & Trucks-Full of Inventory Items

```
MultiPartLoc-Xfer
Load/Unload: Load
Cart: cart01
PNs: 3 Qty: 3500
LOAD FRM: pre-stk
Part: 517-119
ALLIGATOR CLIP INSUL-BLK
Open: 2,000.00
Qty: 2,000.00
```

Choose to Load “cart01” from “pre-stk”, scanning items being transferred. When Location changes, scan Location, then scan additional items.

```
MultiPartLoc-Xfer
Load/Unload: Unload
Cart: CART01
PNs: 3 Qty: 103
UNLOADTO: 2D03B
Part: 003-07713

Open: 2.00
Qty: 0.00
```

Choose to UnLoad “cart01” into location ”2D03B”. Screen then suggests next QuickPick location to replenish after unloading current QuickPick location.



BAR-CODING with RF/BAR



Find out more at www.rfbar.com
Call us to talk some more (503) 632-5719