

Overview

Starting in the spring of 2013, the introduction of Tablets made it easier and more cost effective to use Microsoft Access databases for business applications instead of developing applications for more expensive handheld scanners.

All of the project examples below utilize either an HP Elitepad with a rugged case or a Microsoft Surface tablet. These tablets are priced around \$800. For scanning, these projects are using the key chain sized Symbol scanner that is wireless and connects to the tablet via Bluetooth. The Symbol scanners are priced around \$275.



Project Examples

Component Tracking – Manufacturing Shop Floor

- As components are pulled for production of a certain work order, bar codes are scanned for the work order number, item number and lot number of the component.
- Eliminated manually writing down information, transposing lot numbers and hours of searching through paper copies of work orders.

Remote Order Entry – Grocery Store to Cheese Factory

- At each grocery store location, enter quantity of items to be delivered. Tablet program shows prior sales by item which is updated throughout the day via an internet connection to Dropbox.
- Eliminated manual writing down of orders, manual compilation of orders and time delays of driving orders back to the factory each day and someone adding up totals by item.

Time & Material Tracking – Woodworking Shop Floor

- Shop employees punch in and out of Jobs on the tablet. Can enter/scan employee number, job number and cost code. Materials are recorded as used.
- Eliminated manual recording of time and job numbers, manual compilation of hours for payroll, manual entry into payroll processing. Gained real time job cost reports and costing.

Equipment Loading & Tracking – Glass & Paint Warehouse

- Warehouse employees use scanning to add items to a Pick Ticket, Verify Items being Loaded, Process Equipment Returns and Create new Load Sheets.
- Eliminated manual recording of items picked and sent to job sites. Eliminated manual entry of items returned from a job site. Eliminated running back and forth to a workstation to record information.

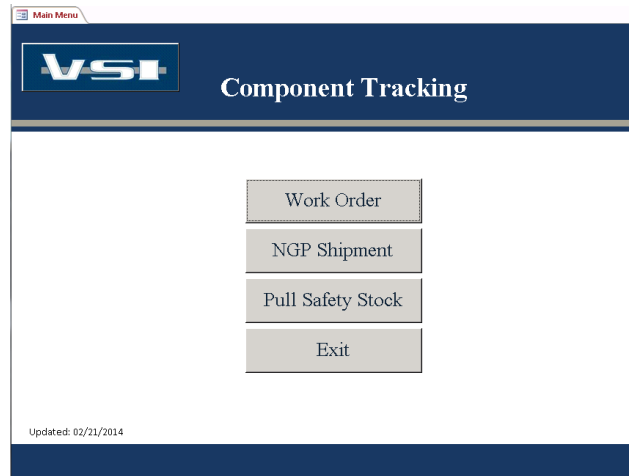
Inventory Physical Count – Security Warehouse

- Inventory on Hand is imported from the accounting software to the tablet.
- Items are scanned directly into the database. The quantity defaults to 1; however, may be modified on the screen.
- “Count Summary” and “Adjustment Reports” automatically generated from the database.
- Eliminated manual mistakes and reduced data entry errors.
- Significantly decreased the amount of time and effort it took to complete the physical count.
- Physical counts are now completed more frequently to keep perpetual quantities accurate.

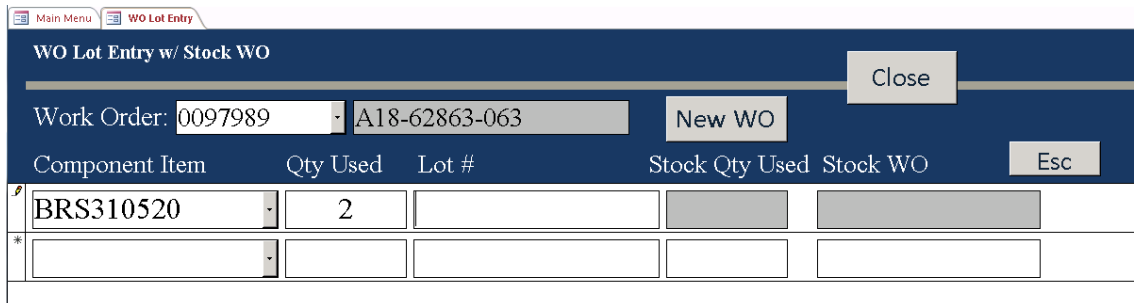
Component Tracking – Manufacturing Shop Floor

- As components are pulled for production of a certain work order, bar codes are scanned for the work order number, item number and lot number of the component.
- This information is stored in a Microsoft Access database that is used for tracking of lot numbers by component and is extremely valuable for any possible recalls.
- Eliminated manually writing down information, transposing lot numbers and hours of searching through paper copies of work orders.

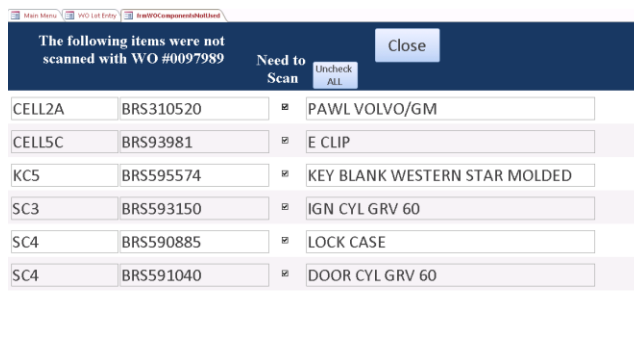
Touch screen on the tablet is used to select an option.



Scanner is used to scan barcodes for Work Order Number, Component Item and Lot #. Quantity can be changed with a pop up, on-screen keypad.



If all required Components on the Work Order are not picked and scanned, the program will prompt the user to pick and scan the additional components.

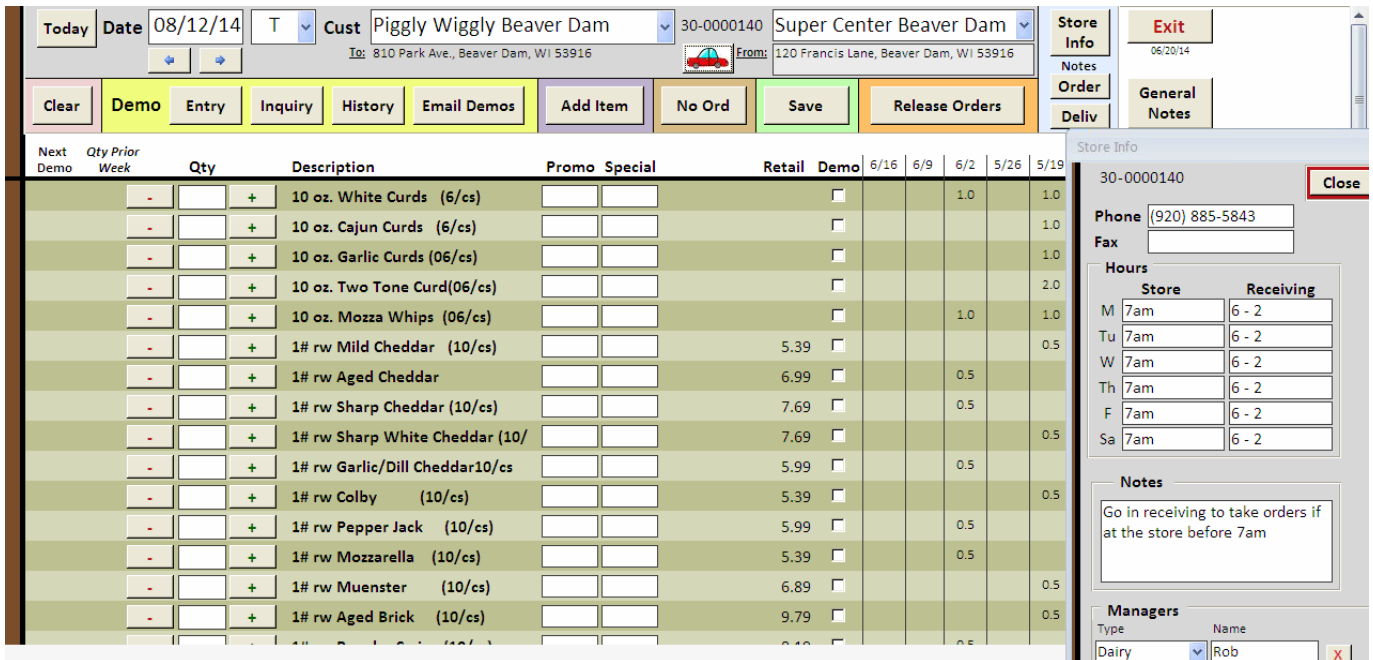


Remote Order Entry – Grocery Store to Cheese Factory

- At each grocery store location, enter quantity of items to be delivered. Tablet program shows prior sales by item which is updated throughout the day via an internet connection to Dropbox.
- Cheese Factory automatically pulls orders from Dropbox, prints consolidated listing of items to be picked.
- Eliminated manual writing down of orders, manual compilation of orders and time delays of driving orders back to the factory each day and someone adding up totals by item.

Features/Functions on the Tablet

- Enter Qty to order by Item. Review past orders by date.
- View Store Hours and Notes.
- Click the “Automobile” to get driving directions to the next store.
- Enter information for in-store Product Demos. E-mail completed Demo forms.
- Release Orders to be automatically printed at the Cheese Factory.

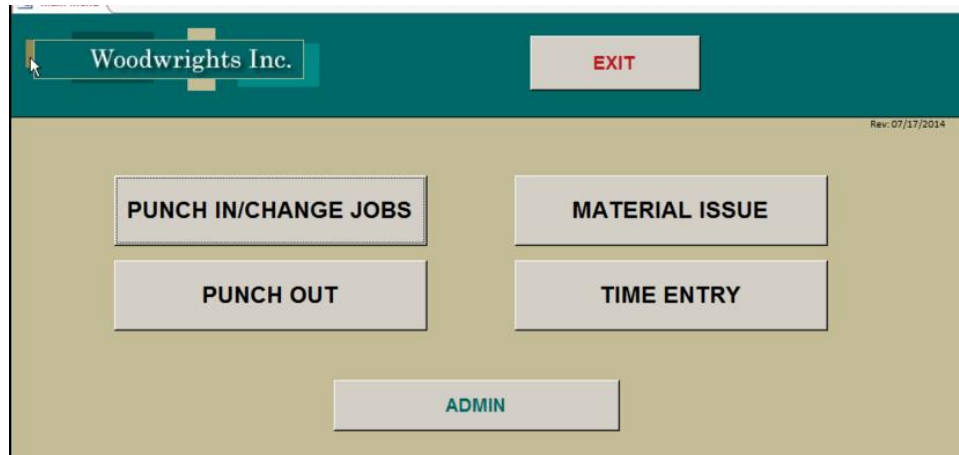


Next Demo	Qty Prior Week	Qty	Description	Promo	Special	Retail	Demo	6/16	6/9	6/2	5/26	5/19
-		+	10 oz. White Curds (6/cs)								1.0	1.0
-		+	10 oz. Cajun Curds (6/cs)									1.0
-		+	10 oz. Garlic Curds (06/cs)									1.0
-		+	10 oz. Two Tone Curd(06/cs)									2.0
-		+	10 oz. Mozza Whips (06/cs)							1.0		1.0
-		+	1# rw Mild Cheddar (10/cs)			5.39						0.5
-		+	1# rw Aged Cheddar			6.99				0.5		
-		+	1# rw Sharp Cheddar (10/cs)			7.69				0.5		
-		+	1# rw Sharp White Cheddar (10/			7.69						0.5
-		+	1# rw Garlic/Dill Cheddar10/cs			5.99				0.5		
-		+	1# rw Colby (10/cs)			5.39						0.5
-		+	1# rw Pepper Jack (10/cs)			5.99				0.5		
-		+	1# rw Mozzarella (10/cs)			5.39				0.5		
-		+	1# rw Muenster (10/cs)			6.89						0.5
-		+	1# rw Aged Brick (10/cs)			9.79						0.5

Time Tracking – Woodworking Shop Floor

- Shop employees punch in and out of Jobs on the tablet. Can enter/scan employee number, job number and cost code. Materials are recorded as used.
- Time by Employee is used to populate payroll. Time & Materials by Job is used to populate Job Cost in Sage 100.
- Eliminated manual recording of time and job numbers, manual compilation of hours for payroll, manual entry into payroll processing. Gained real time job cost reports and costing.

Main Tablet Screen

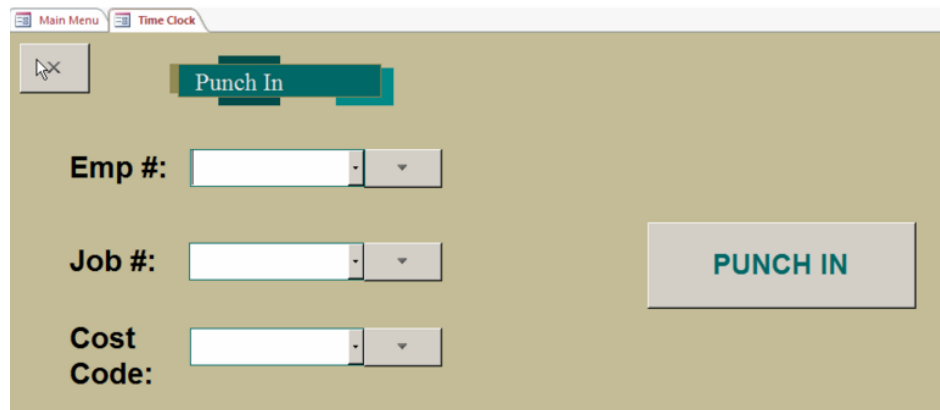


Woodwrights Inc. EXIT

Rev: 07/17/2014

PUNCH IN/CHANGE JOBS MATERIAL ISSUE
 PUNCH OUT TIME ENTRY
 ADMIN

Punch In



Main Menu Time Clock

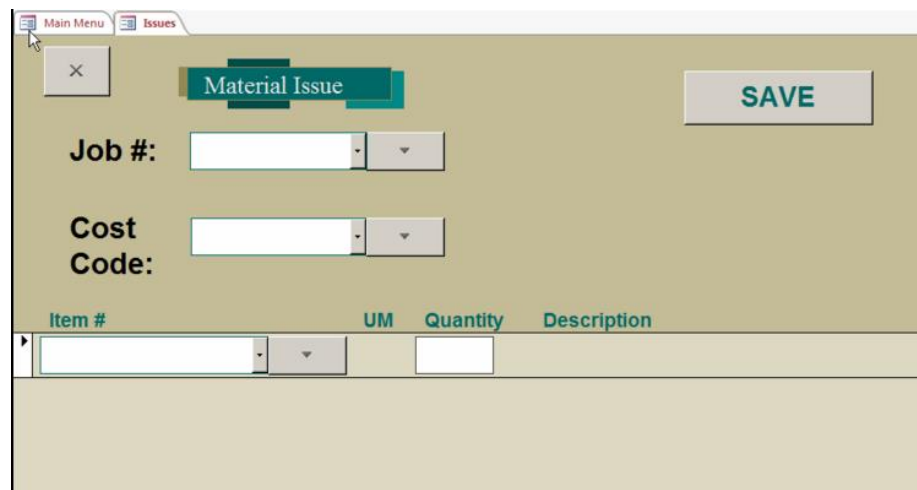
Punch In

Emp #: PUNCH IN

Job #:

Cost Code:

Record Materials Used



Main Menu Issues

Material Issue SAVE

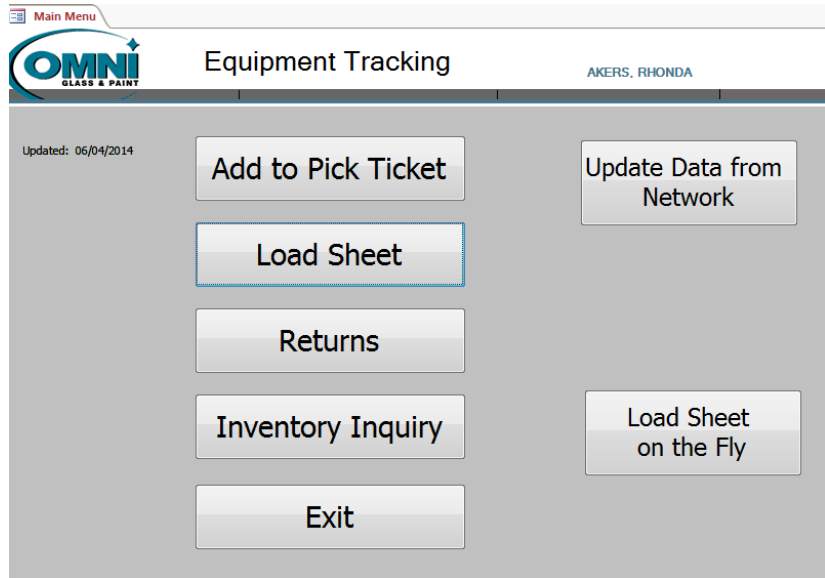
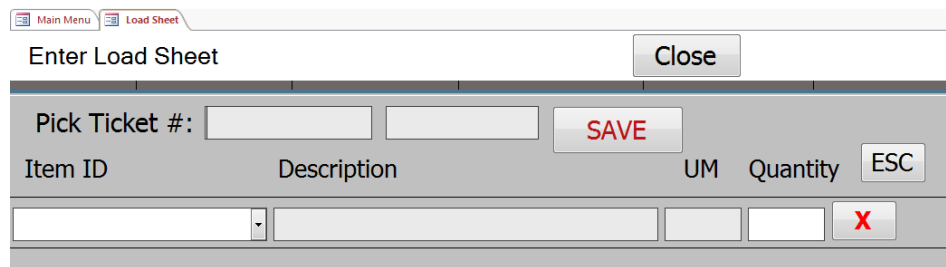
Job #:

Cost Code:

Item #	UM	Quantity	Description
<input type="text"/>	<input type="text"/>	<input type="text"/>	

Equipment Loading & Tracking – Glass & Paint Warehouse

- Warehouse employees use scanning to add items to a Pick Ticket, Verify Items being Loaded, Process Equipment Returns and Create new Load Sheets.
- Inquiry screen allows warehouse employees to check on the quantity and location of specific items or pieces of equipment.
- Eliminated manual recording of items picked and sent to job sites. Eliminated manual entry of items returned from a job site. Eliminated running back and forth to a workstation to record information.

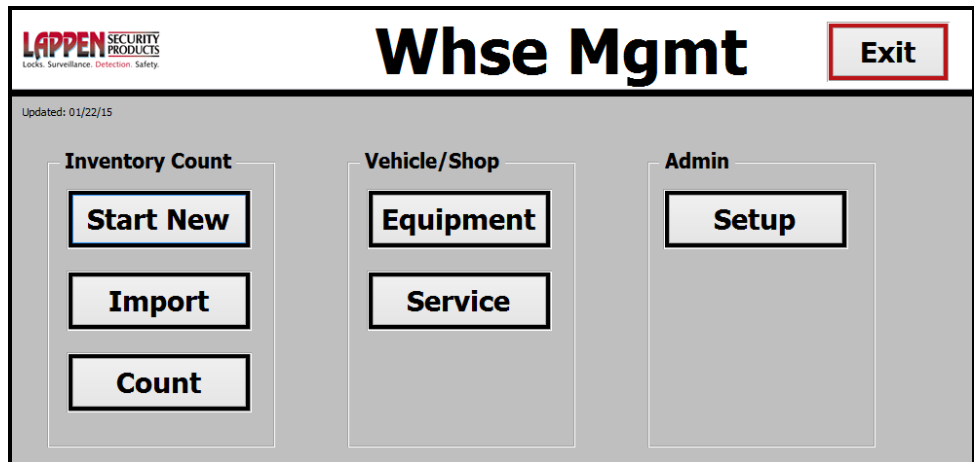



Item ID	Description	UM	Quantity
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

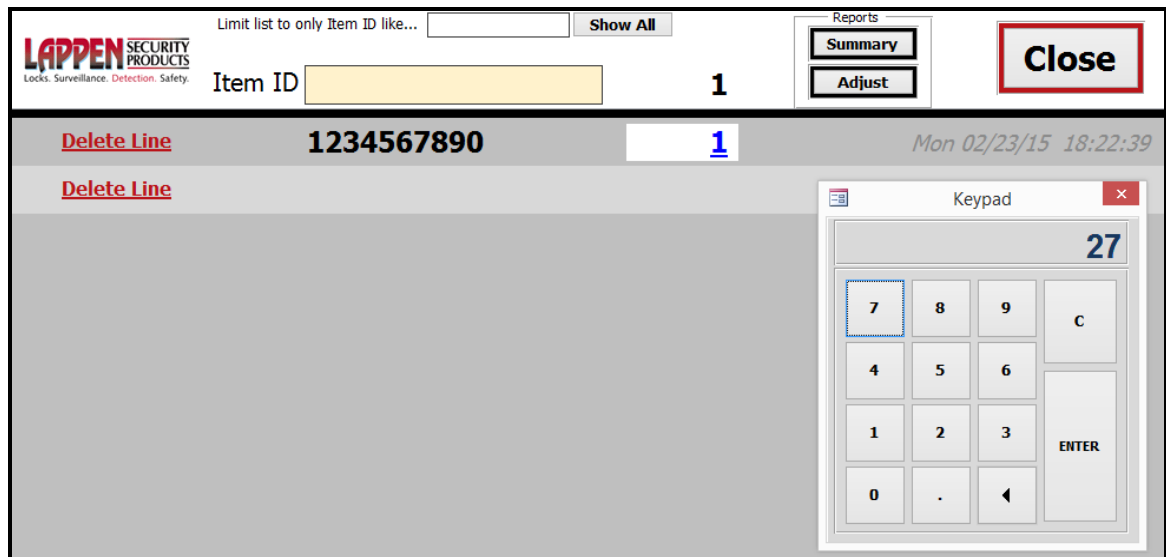
Inventory Physical Count – Security Warehouse

- Inventory on Hand is imported from the accounting software to the tablet.
- Item barcodes are scanned directly into the database. Counts easily entered.
- “Count Summary” and “Adjustment Reports” automatically generated from the database.
- Eliminated manual mistakes and reduced data entry errors.
- Ability to count inventory in warehouse and in service vehicles.
- Significantly decreased the amount of time and effort it took to complete the physical count.
- Physical counts are now completed more frequently to keep perpetual quantities accurate.


Tablet Home Screen




When item is scanned the Item ID is populated and quantity defaults to 1. The quantity may be adjusted by clicking on it and entering the new quantity on the numeric keypad.



Inventory Adjustments Report

		Inventory Adjustments
Item	Description	To Adjust
1202.01900	SCH EVRST KIK CYLINDER C123	10
1202.01907	SCH EVRST MORT CYL C123 KWY	-7
1202.02534	MEDECO X4 KIK CYLINDER	14
1203.00404	LS220 32D SC1 GR2 SNG D BLT CH	2
1203.00405	LS220SC1 GR2 SNG CYL D BLT AB	-5
1203.00428	LSLH1000P32D ENTRY G1 PLY LOCK	4
1203.00431	LSLH1100P32D PASSAGE G1 PYL LO	-1
1203.00436	LSLH1500P32D CLSSRM LK G1 PLY	1

Inventory Summary Report

		Inventory Summary		
Item	Description	Quantity		
		On Hand	Counted	To Adjust
0105.01827	NAC POWER EXT 24VDC/12VDC 6.5A	0	0	0
0105.02218	5 OUTPUT ACCESS CONTROL PS	0	0	0
0105.02623	PAXTON POWER SUPPLY KIT	0	0	0
0105.02647	ALTRONIX SMP5PM WITH CAB	0	0	0
0106.01951	ALTRONIX 4 CAMERA POWER SUPPLY	2	2	0
0106.02405	ALTRONIX 24 VAC 16 OUTPUT PS	1	1	0
0106.02464	8 CAMERA 24VAC 7.5 AMP	1	1	0
0106.02495	PELCO PTZ NEMA PS	0	0	0
0106.02580	ALTRONIX 4 CAM 24VAC 4 AMP PS	1	1	0
0107.00040	ALTRONIX MULTIPURPOSE TIMER	2	3	1
0107.00042	ALTRONIX 7 DAY TIMER	0	0	0