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Quest International Users Group

ORACLE Gold Partner

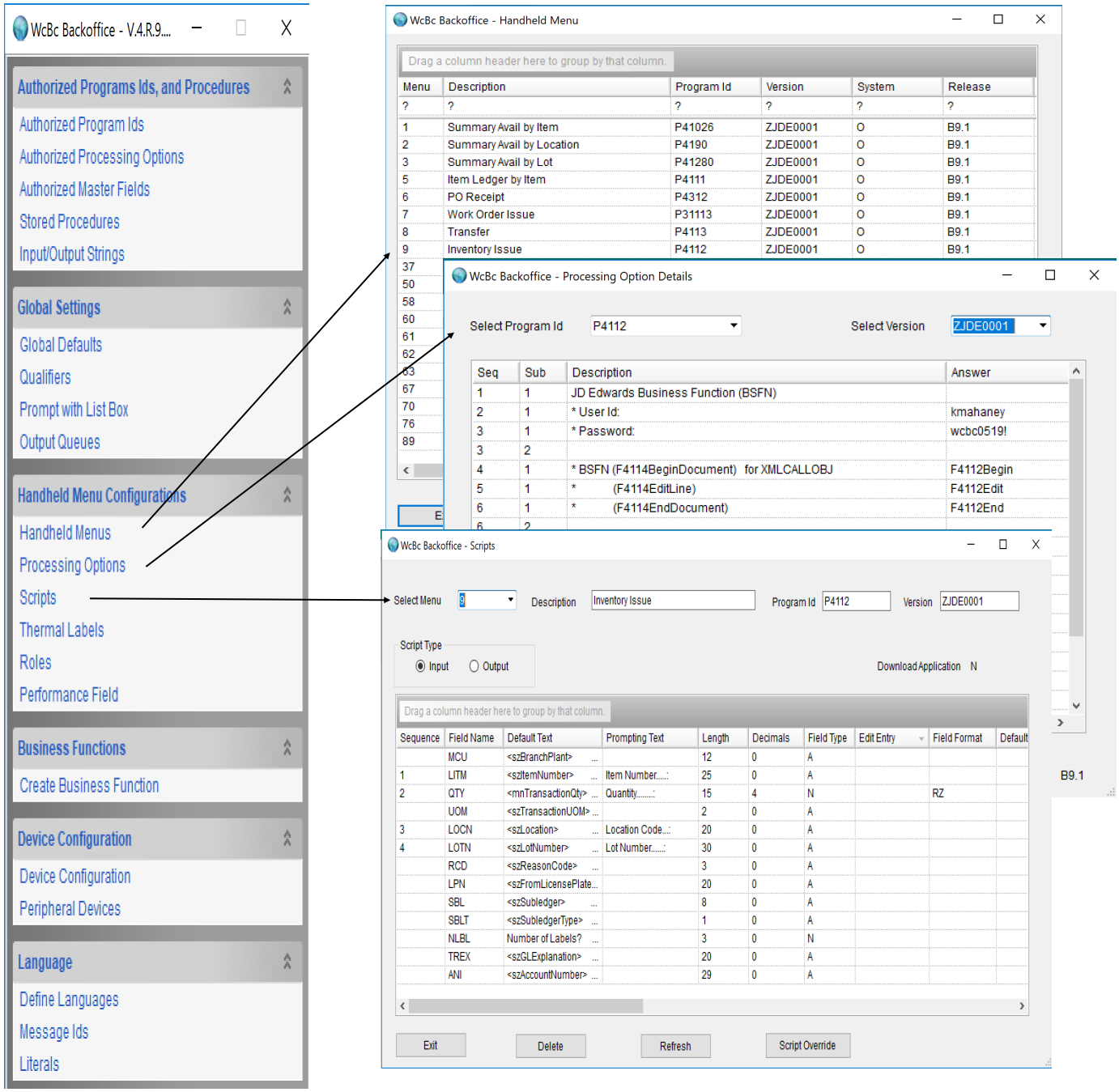
IBM Registered Business Partner

World Class Information Systems, Inc.

Scripting

WcBc

WcBc is fully configurable with Backoffice on all Transactions. Each Transaction has its own Script, Processing Options, and Printing of Thermal Labels!



World Class Information Systems, Inc. JD Edwards Interoperability	WcBc

WcBc

follows

JD Edwards Interoperability Guidelines

XMLCALLOBJ

"Your JD Edwards Barcode Solution"

Guidelines: https://docs.oracle.com/cd/E17984_01/doc.898/e14711/undrstnd_xml_call_object.htm

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WcBc Automated Data Collection (Interoperability)

WcBc

Windows Client

TCP/IP Packet

Access Point

TCP/IP Packet

Server: Listener running on Server or PC.

Datasource

JD Edwards Data Base. SQL Server, DB2, Oracle.

Client: The WcBc software uses Sockets to connect the Devices. The software on the Client is Visual Studio 2008. The Handheld sends a TCP/IP Packet to the Server IP Address using a specific port for the Handheld. Sockets are the fastest way to connect to any Device.

Thermal Labels (TLA, Loftware, Bartender)

Server Listener: The WcBc application is written in Microsoft Visual Studio C#.

SQL Server: Running Microsoft SQL 2008 R2. The WcBc software has a very small SQL data base. Less then 50 tables in a single Data base (WcBcData).

Listener: Executes JD Edwards BSFN and/or BSSV's using JD Edwards EnterpriseOne Tools Interoperability as a guideline.

Database Retrieval: The JD Edwards Data base is retrieved using a Datasource from the Database server to the Listener server.

Peripherals: We connect native to these devices if Broadcast or Serial connection.

Thermal Labels: The WcBc software is interfaced to TLAshford, Loftware, and Bartender.

TLAshford: The TLAshford labels are generated by events in the WcBc application.

Loftware: The Loftware labels are generated from XML or by sending flat files to the Loftware server.

Bartender: The Bartender labels are generated by sending csv files to the Bartender server.

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World Class Information Systems, Inc. Modules	WcBc

WcBc runs on all versions of JD Edwards from World A7.3 to A9.4 to EnterpriseOne 8.9 to 9.2. Our data collection software has an uptime comparable to your Host. WcBc includes complete Receiving, Inventory, Manufacturing, Cycle Counting, Physical Inventory, Picking, Loading, and Shipping Transactions.

The WcBc software has a menu-driven interface enabling users to tailor each transaction to meet business requirements. WcBc simplifies the use of each transaction by prompting or defaulting only the fields that the user needs to perform the function. Each of the following Program Ids could have many different transactions for them, and each one could be prompting for different information but processing the same end function.

Description	Program Id	Function
Inventory Issue	P4112	Used to remove inventory from a location.
Inventory Transfer	P4113	Used to transfer material from one location to another.
Inventory Adjustment	P4114	Used to adjust material at a location.
Inventory Reclassification	P4116	Used to reclass the Item, Location, Lot, or quantity.
Item Availability Inquiry	P41026	View Inventory by Item, Location, and Lot.
Receiving	P4312	Used to receive items into the facility by Purchase Orders
Inventory W/O Issue	P31113	Used to issue material to manufacturing W/O.
W/O Completion	P31114	Used to receipt inventory from a manufacturing W/O.
W/O Completion Process	P31115	Used to receipt inventory from a manufacturing process W/O.
Super Backflush	P31123	Used to receipt inventory and/or pay points from a manufacturing W/O.
W/O Create	P4801	Used to create Work Order.
Pick and Ship Confirm	P4205	Used to issue or stage material to a Sales Order.
Transportation	P49*	Used for Transportation module for Shipment by Load.
Cycle Counting	P41240	Used to reconcile quantity on-hand using ABC inventory codes.
Physical Inventory	P41260	Used for a wall to wall count.
Hold/Release	P41026HOLD	Used to Hold/Release Material.
Advanced Warehousing	P46*	Used to move Containers (License Plates) through the enterprise.
Preventive Maintenance	*	Used for Preventive Maintenance Work Orders

Many more transactions are available.

- WcBc is suited for Multi-Levels or Dual Sided Transactions. An example include on PO Receipt we allow the normal (OV) receipt to happen but then automatically (II) issue a percentage material to the quality department for destruction.
- WcBc has a layer of Processing Options in addition to the JD Edwards software giving each WcBc transaction the ability to override the existing JD Edwards Processing Options.
- The WcBc API can be utilized from any Custom Application. The call can be from sending a Data Queue or by Calling the Program and passing a string of Data.

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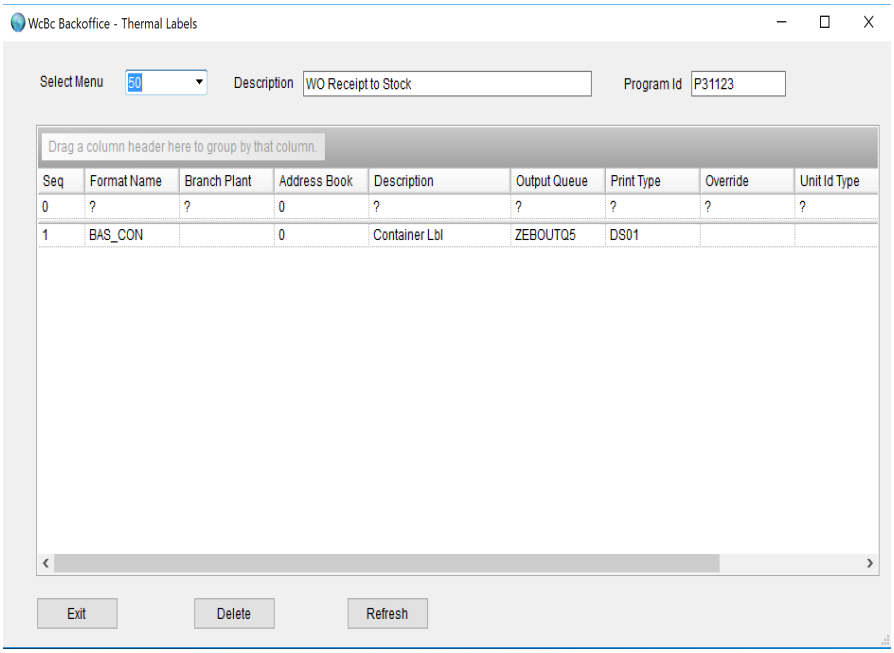
Thermal Printing Capabilities

WcBc

- The WcBc software automates the printing of thermal labels on Demand.
- The WcBc software interfaces with either the T.L,Ashford, Loftware, or BarTender software products. On each of the WcBc transactions you can define which formats to print.
- The format can be very specific to a JD Edwards™ Address Book, Branch Plant, or Container Type for License Plating. This gives the ability to print specific labels for each different Ship-To Address.
- Once the transaction is accepted in the JD Edwards™ then the Thermal Label will be printed to the user's specific printer.



- The Format is designed in T.L.Ashford, Loftware, or BarTender software. This is the name of the label.
- Branch Plant is based on the Users Branch or the Branch Plant of the Inventory Transaction.
- The Address Book is in the F0101. Based on the Transaction. This could be a Ship-To address, or employee number, etc...
- Description is an Informational field.
- The Output Queue is the name of the Printer.
- The Type is a determination whether to prompt for the # of labels or to default from the Transaction Quantity.
- The Override allows for Multiple Printers for a User such as a Desktop and/or Portable printer.
- The Unit Type is an Override based on the Unit Id type for License Plating.

LOFTWARE™ ENTERPRISE LABELING SOLUTIONS

BarTender®

T.L. ASHFORD

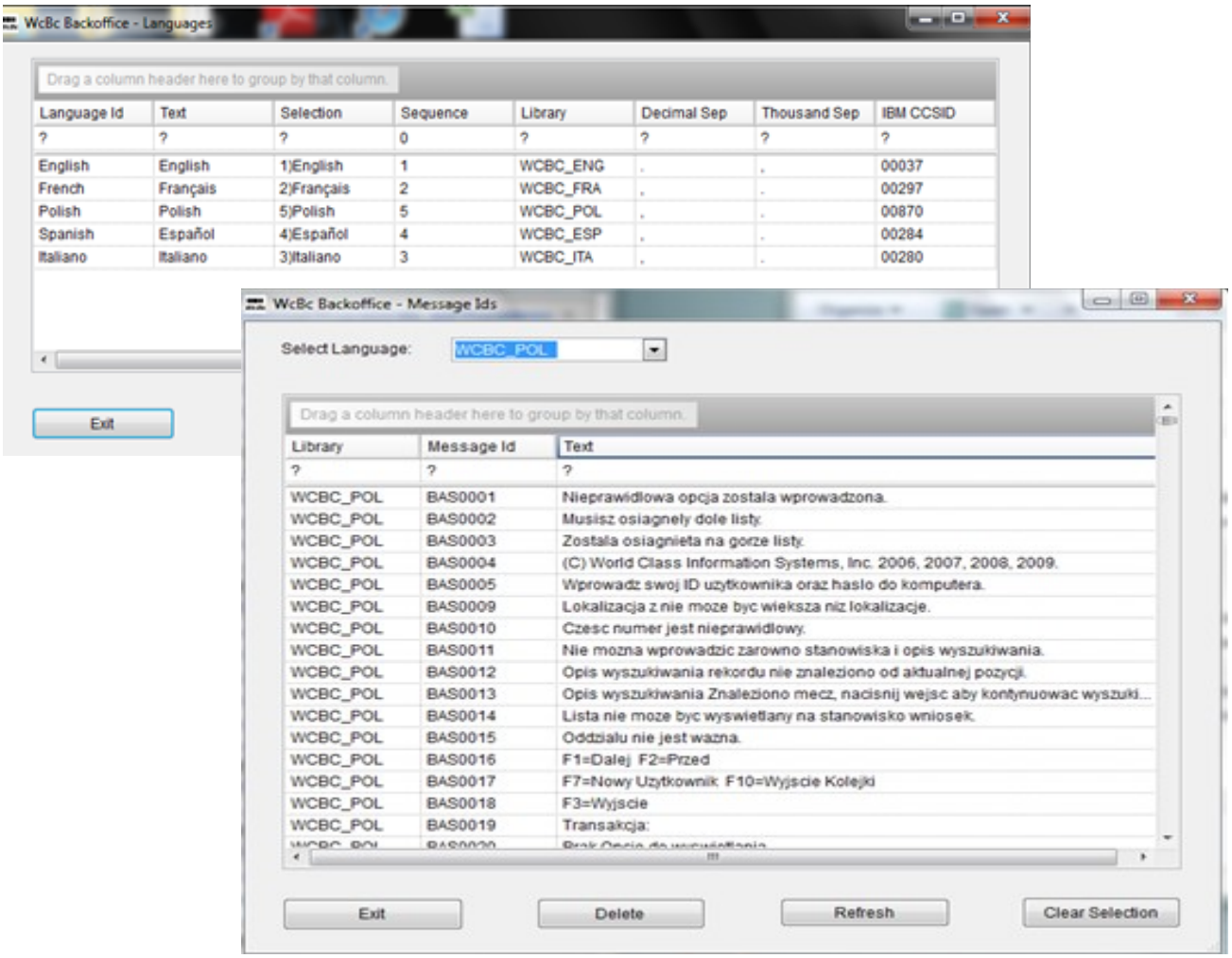
World Class Information Systems, Inc. **Multi-Lingual Support**	WcBc

*The **WcBc** Handheld Application can be run in Multiple Languages.*

In some cases you will need to setup different environments for double byte characters

There are different types of Literals, both are maintained in the ***WcBc*** application.

- ERROR messages are maintained using the Message Id's visual application.
- Literals are maintained using Backoffice during the Configuration process.

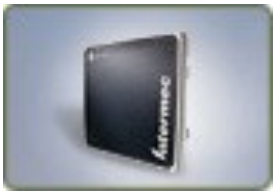


- *The **WcBc** Application supports many Languages, Additional Languages can be added upon request as needed.*

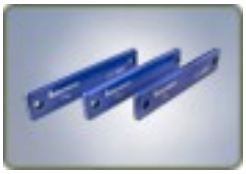
World Class Information Systems, Inc. RFID	WcBc

The ***WcBc*** application has many ways of interfacing with the RFID readers.

- Handheld RFID Readers are for Handheld computers or for Vehicle Mounted devices. These types of readers work very similar to the traditional scanning of Barcodes.



- Some other RFID Readers are fixed and use a Green & Red light system, these systems have Portals and use Access Data Bases to create the Go or No/Go effect. These Data Bases can be triggered to process the ***WcBc*** API to execute. This normally is a Transfer (IT) transaction.



- RFID Tags have many variations but Intermec seems to be a great source of the tags. We do not require any specific type of tag as it needs reviewed for your business requirements as far as Cost and the Application.

- RFID Smart Tags can be printed for use in both Barcode scanning and RFID scanning. There are Special Printers to print these RFID Tags.

Applications for RFID

- License Plating is the best way to automate with RFID. Portals are setup on the Shipping Doors and as the License Plate goes through the Portal then a Green Light is lit, and the License Plate has been Loaded and updates the Sales Order Activity rules.

- As the License Plate goes through a Conveyer, it can be scanned from a Portal or a Fixed Barcode scanner. This can trigger an event to a PLC Robot to pick up and stack the container or direct the container to a specific aisle for drop off.

- License Plate RFID Tags are re-used in the facility. They are activated when Materials go into the Container or cleared during certain User Controlled events. These are all configurable with the ***WcBc*** application.

World Class Information Systems, Inc. Peripherals Interfaces	WcBc

- The ***WcBc*** software Interfaces any type of Inputs from a RS-232 or USB Com Port or Broadcasted IP Address value.

- The Peripheral Interface can be used inside of any ***WcBc*** Transaction. This can be done from Receiving, Inventory, Manufacturing, Picking, Loading, Shipping, Cycle Counting, and Physical Inventory.

- The setup is very simple. The Peripheral device is setup using Broadcasted IP address and Port or a Baud Rate, Parity, Data Bits, and Stop Bits must be attached to the PC, Thin Client, or other Hardware Device and into the ***WcBc*** Application. Then Backoffice scripting is setup to utilize Default entry of the Peripheral name and the value is picked up at the time the transaction is processed.

- The Configuration of ***WcBc*** allows for multiple Scales or Peripherals to be setup based on whether you will have a Sample Piece Weight and a Floor scale to capture the net weight of the transaction. WcBc can use the conversion factors from JD Edwards (F41002 & F41003) tables.

- The Unit of Measure is Defaulted from the Scale. The U/M from the Scale is normally in “KG” or in “LB”. The ***WcBc*** Application can go up to 5 Decimals on the Peripheral Input.

- If you are doing RS-232 connection then the Print Key from the scale feeds the weights into the ***WcBc*** Application. If you are Broadcast IP Address and port then the weights are auto captured.

The Math for 2 Scales

Net Piece Quantity = Gross Weight + Sample Weight - Tare Weight / Sample Weight (Per One).

Sample Weight 50 kg = Sample 10 Pieces Weighed = 5 kg per

Pieces 30 = Gross 175 kg + Sample 50 kg - Tare 75 kg / Per one 5 kg.

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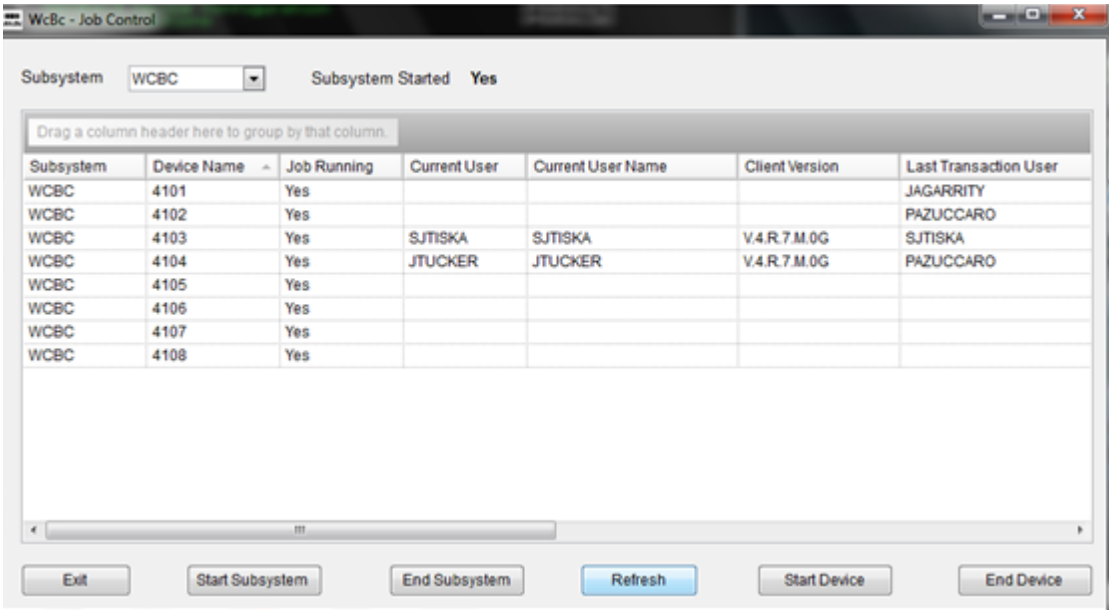
Job Control

WcBc

*The Handheld Unit can be managed for a given Device Name or for the Total **WcBc** Environment.*



- **Subsystem –** The Host Subsystem in which the Handheld Devices are running.
- **Device Name –** The Name of the Handheld Unit. Each Unit has its own unique name.
- **Job Running –** Display's Yes/No if the Job is up and running.
- **Current User –** The User Id is who is currently signed to the Handheld Device.
- **Current User Name –** The Full Name of the User that is signed on to the Handheld.
- **Client Version –** The Version of WcBc that is running on the Handheld Unit.
- **Last Transaction –** The User Id that last created a Transaction on Handheld Unit.
- **Department Name/IP Address –** The Department or IP Address of the Handheld Unit.
- **Line –** The Line the Device is running on. This is the Environment (i.e. Production or Test).
- **Job User –** The iSeries User Id that is running the job.
- **Server Message –** This will display if any Server Messages exist for the Device.
- **Percentage –** The Percentage of the CPU that the Device is running.
- **Priority –** The Job Priority is used to display if the Device is running Hot or Cold.

World Class Information Systems, Inc. Advanced Warehousing with License Plating	WcBc

WcBc excels at License Plating.

The WcBc License Plating module works over all JD Edwards transaction sets including Receiving, Inventory, Manufacturing, Picking, Loading, Shipping, Cycle Counting, and Physical Inventory modules.

- **Increase Inventory Accuracy –** Tracking inventory by License Plate means that the system knows how much of an item is located on each specific Pallet, Roll, Bundle, Unit Id. When counts are wrong or transactions are made in error, the mistake is usually at the level of one or two Units instead of much larger volumes of inventory. Since all inventory is carried by Unit Identification the accuracy is better in all transactions.

- **Simplify Inventory Movements –** Without a License Plate, The item, location, lot/serial, and quantity needs to be scanned. This provides the opportunity for more errors. With a License Plate you can scan the Unit Id and the WcBc will process all the items and quantities attached to the Unit Id.

- **Traceability –** Tracking vendor information, country of origin, packing slip, etc., is more precisely done with License Plate tracking.

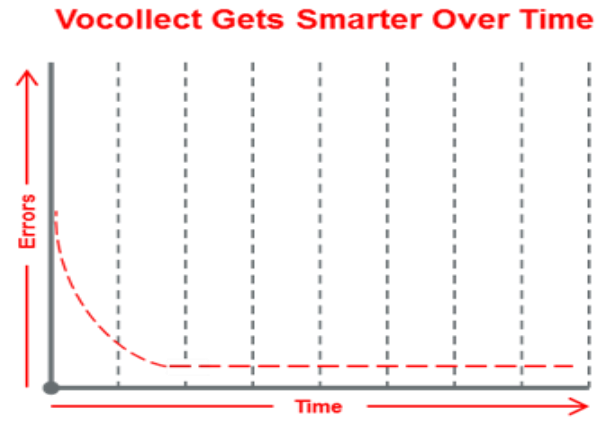
- **FIFO (First In First Out) –** Rotating product is more controllable with License Plate tracking. The system can ensure that older product is shipped first.

- **Cycle Counting –** License Plate tracking ensures that each pallet is counted only once at manufacturing, during receipt and when cycle counting. Inventory errors due to double counts are eliminated. Inventory errors due to missed units are much easier to troubleshoot because the Unit Id which is missing is obvious. Doing Cycle Counting during the normal business function of Receiving, Picking, etc… is an invaluable tool.

- **Pick and Stage, and Load –** With a License Plate tracking the user can start with an empty Container and Pick into the Container. These types of Containers ensures that only a single Ship-To address can be loaded into the Container. Once all the Items are Picked and Stage into the Container it can be shrink wrapped and weighed and then placed into an Inventory Location. Once the Truck is ready to be loaded the Container can be scanned onto the Load to ensure correct loading of Containers onto the Trailer.

World Class Information Systems, Inc. Vocollect Voice Solutions	WcBc

Now with Vocollect Voice Solutions technology World Class offers true hands free voice enabled JD Edwards transactions



Universal Voice Utility - Voice Productivity for Any Existing *WcBc* & JD Edwards Mobile Application

Pricing for VOCOLLECT is separate from ***WcBc***.