# **Print Shop**

A component of the Wheel Shop Management Suite (WSMS)

# **User Guide**



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# **System Requirements**

This application has minimum system requirements as described below. These requirements must be met in order for the application to operate as designed.

This application supports the following Microsoft Windows operating systems.

- Windows 7<sup>1</sup>
- Windows Server 2008/2008 R2 1
- Windows Vista Business/Ultimate 1
- Windows Server 2003 SP2 1
- Windows XP SP3 1

The application requires the Microsoft .Net Framework 3.5 Full which can be obtained from Microsoft at <a href="http://www.microsoft.com/en-us/download/details.aspx?id=17718">http://www.microsoft.com/en-us/download/details.aspx?id=17718</a>

The application requires the following hardware at a minimum.

- 2.0 GHz Processor
- 1 GB installed RAM
- 100 MB available disk space
- Ethernet Card

<sup>&</sup>lt;sup>1</sup> When installed on a 64 bit operating system, the application will run in a subsystem of Windows called WOW64 (Windows-on-Windows 64 bit). WOW64 is included on all 64 bit versions of Windows and is designed to make differences between the operating systems transparent to the user.

# Introduction

#### Overview

The Print Shop program allows you to print and validate AAR CID Bar Code Labels for Axles and Bearings.

#### Layout

Print Shop contains three main screen areas. The menu bar located across the top of the screen, the status bar located across the bottom of the screen, and the client area in between the menu bar and status bar. The menu bar is used for navigation between different functions. For more details see the topic on the <u>Menu Bar</u>. The status bar indicates the copyright information and version number. The client area is where the data collection and display screens are displayed.

#### Interface

The day-to-day use is designed to be used with a touch-screen input device. Each data entry element provides an on-screen keyboard or numeric keypad to allow quick entry of data without the need to remove gloves or keep a keyboard clean. However, setting Options or administrative functions may require a mouse and keyboard.

# Log On

							Pleas	se L	.og (	Dn	-					
	Shif				Shif	t 1	_	_	_					_		
	Nan	ne:					_									
	Pas	swoi	rd:		-		10							L	og On	
•	1	2	3	4	1	5	6	7		8	9	0		-	=	<
Tab		1	w	e	r	t	у		u	i		0	р	1	1	1
Caps L	.ock	а	s	d		f	g	h		j	k	1		;		Enter
s	hift		z	x	с	v	b		n	m				1	Γ	Shift
Ctr	1	A	Jt											AI	t	Ctrl

This is the login screen for Print Shop. You must enter your current shift number, username, and password. No screens may be accessed without a proper username and password being entered. Some screens are not available to certain authority levels.

The authority levels are:

Operator – Cannot enter calibration screen or setup screen. Technician – Operator level access with the addition of calibration Supervisor – Can access all setup screens except Assembly Builder. Administrator – Can access all screens.

# **Print Shop**

Print Shop is designed to print AAR CID Bar Code Labels for Axles and Bearings.

## **Home Screen**

Menu Reports Help		7/25/2012 11:15:35 AM
	What would you like to do?	
	Print	
	Validate	
	Log Off	
Convictit © 2012 Arkansas Industrial Computing. Inc.	Wheel Shop Automation .com	Version 5.5.2 18271

After Log On, the home screen is displayed. This screen allows the user to navigate between the <u>Print</u> <u>Screen</u> and <u>Validate Screen</u>.

## **Print Screen**

Condition :	Select ·	Batch # :	
umal Size :	Select *	Specification : Select	
rtificate # :	Select ·		
age Type :	Select ·	Label Format CEPM Bearing - Serialized 2.5x4	•
eal Type :	Select ·	Serialized Label	
rease Type :	Select ·	BEARING Batch #	
acking Ring Type :	Select ·	Size:	
up Serial # :		Facility: AIC	
up Mfg Date :	Month Year	Cert Cage:	
imestamp :	Use Current Date/Time     00 : 00	Seat: Seat Seat: Seat: Seat Seat: Seat: Seat	
omponent ID	000000000	Date: 2012-07-25T16:17:13	
		Quantity	

This screen is intended to print AAR CID Bar Code labels for axles and bearings.

To print a bar code label, first select the label format from the 'Label Format' drop down field and populate the bearing properties on the left hand side of the screen as well as the Batch Number and Specification. The drop down fields on this screen are populated from the database lookup tables. For information on editing the lookup tables, see the <u>Lookups</u> section. If printing more than one label with serialized Component IDs, enter the component ID for the first label in the 'Component ID' field, each subsequent label printed will increment this number by one. The quantity field determines the number of labels to be printed if printing serialized labels. If the 'Include pallet label' is checked, and extra label will be printed for the pallet. Press the 'Print' button to send the job to the label printer.

## Validate Screen

int Shop	Shop Mangement Suite™			Validate Be	earing Lab
ility Code :		Barcode Data	Simple View +	Batch # :	
dition :				Specification	
nal Size :				Select	
ificate # :					
e Type :					
І Туре :				Comment :	
king Ring Type :				Comment	
аве Туре :					
Serial # :				Quantity :	
Mfg Date :					Save
estamp :				Edit List	
nponent ID:					
< Back	Clear All				

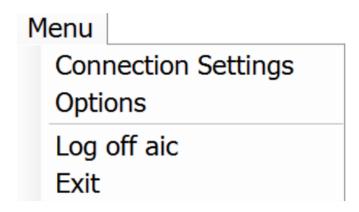
This screen is intended to validate existing labels.

To validate a label, scan the bar code on the label. If the bar code is a valid AAR Bar Code, the bar code data will appear in the 'Barcode Data' field, and the other fields will be automatically populated. Any field which does not match an existing value in the <u>Lookup</u> tables will be highlighted yellow. Press the 'Save' button to save the scanned bar code to the database.

## Menu Bar

The Menu Bar is used to navigate the different features of the Print Shop application.

### Menu

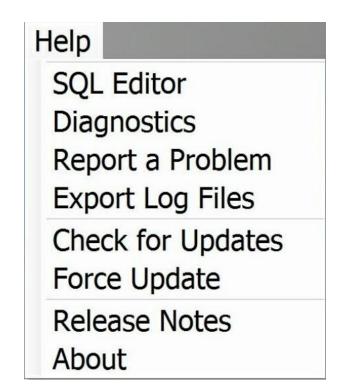


- Connection Settings Opens a menu to change the database connection settings.
- **Options** Open the Options dialog to configure the application.
- Log Off Logs off the currently logged on user and disables all menu items that require security permissions
- Exit Close the application and return to the Windows Desktop
   \*\*All options except 'Log Off' require administrator privileges.

### **Reports**

Reports	Help	
Wheel	sets By Customer	
Axle T	racking	•
Misfit 7	Tracking	•
Produc	tion	۲
Shippir	ng	۲

The reports tab shows all the reports stored on the database, which can be in separate categories. Selecting one of the reports will display the report. If there are no reports under the tab, some must be uploaded to the database. Help



- **SQL Editor** a diagnostic tool for troubleshooting database related issues.
- Diagnostics Opens the Diagnostics screen.
- **Report a Problem** Opens an email dialog allowing the user to report a problem by email. The email will include a .zip archive containing the application log files.
- **Export Log Files** Allows the user to export log files to a .zip archive in a user-selected director.
- **Force Update** Updates the application to the currently available version, even if that version is older than the currently running version.
- Release Notes Displays the Release Notes dialog.
- About Displays the About dialog.
   \*\*Administrator privileges required to use SQL Editor and Force Update

# **Database Connection Settings**

## **Machine Settings**

To set the Shop and Machine names, the database connection information must be set.

onnection Settings	X
Database Connection	
Server:	Configure
192.168.73.6,49206	
Database:	
WSMS_V15	
Shop Name	
AIC, Inc.	•
Machine Name	
Bearing Press	•

- **Configure –** Opens the connection information to set database connection settings.
- **Shop Name –** The name of the shop this instance of the application belongs to.
- **Machine Name** The name of the machine this instance of the application should be configured to collect data for.

## **Connection Information**

Config	ure Server Connection
Serve	er Name
192.	168.73.6,49206   Refresh
-	on to the server Use Windows Authentication
۲	Use SQL Server Authentication
	User Name: wsmslogin
	Password:
	Save my password
	nnect to a database Select or enter a database name
	WSMS_V15 -
0	Attach to a database file
	Browse
	Logical Name
Tes	t Connection OK Cancel

- Server Name The name or address of the server hosting the Wheel Shop Management Suite Database. For Print Shop, this is typically 'localhost\WSA'
- Log on to the server The log on information for the selected server.
- **Connect to a database** The name of the Wheel Shop Management Suite database; typically 'WSMS'
- **Test Connection** Attempts to open a connection to a database using the specified parameters. Displays a message indicating success or failure.

## **Options**

The Options dialog is used to configure certain aspects of the application, described below.

- General Barcodes Options related to barcode scanners or labels.
- **Charts** Options related to displaying mounting charts or tonnage trend charts.
- Database Options related to the database connection or machine configuration.
- **Data Acquisition** Options related to the data acquisition device(s) connected to this machine
- **Logging** Options related to the log file generated by this application.

## Application

#### General

Options	and the second
Application     General     Email     Scanner Selection     Barcodes     Logging	Updates Check for updates on login Sequencing
	Reset Sequence Number On first login 👻
	Printing Options
	Label Format:
	Directory :
	Label Printer : 🗸
	☑ Reset barcode data after printing
	Labels to Print : Bearing -
	Component ID Prefix:
	OK Apply Cancel

- **Check for updates on login** When checked, the application will check to see if a newer version exists each time a user logs in. If a newer version exists, the operator is prompted to update.
- **Request Sequence number** Determines when to reset the machine's sequence number, if relevant.
- **Directory –** Set the directory containing labels.
- Label Printer Select the printer to use.
- Reset barcode data after printing When checked, bar code data will be reset after printing
- Labels to Print Select the type of label to print.
- **Component ID Prefix –** Defines the prefix for the component ID.

#### Email

Options			
Application     General     Email     Barcodes     Charts     Data Acquisition     Logging     Lookups	SMTP Server Server host name Requires SSL User name User password Confirm password	Port	
	Email Settings Reply To Address Use as default	Display Name	
			OK Apply Cancel

- Server Host Name Determines the SMTP server host domain name to use for outgoing mail.
- **Port** Sets the port to use for outgoing mail.
- **Require SSL** Determines whether outgoing mail should use Secure Socket Layer encryption.
- **User Name** Sets the user name to use for authentication when connecting to the outgoing mail SMTP server.
- **Password** Sets the user password to use for authentication when connecting to the outgoing mail SMTP server.
- **Reply to Address –** Sets the Reply-To mail address for outgoing mail messages.
- **Display Name –** Sets the display name for outgoing mail messages.
- Use as Default Determines whether these settings should be used by default for all users.

# **Barcodes**

#### **Scanners**

Options	
Options      Application     Scanners     Labels     Charts     Data Acquisition     Logging     Lookups	Barcode Scanners Add Delete OK Apply Cancel

- Barcode Scanners Lists all scanners currently configured for use with the application.
- Add Configure a new barcode scanner for use with the application.
- **Delete –** Remove a barcode scanner from use.

#### Labels

Options	
<ul> <li>Application</li> <li>Barcodes</li> <li>Scanners</li> <li>Labels</li> <li>Charts</li> <li>Data Acquistion</li> <li>Logging</li> <li>Lookups</li> </ul>	Baccode Labels CEPM_CID Edit Import Expont
	OK Apply Cancel

- Barcode Labels Lists all barcode labels currently configured for use with the application.
- Edit Opens the Define Barcode Label Pattern wizard dialog.
- Import Opens the Import Barcode Definitions dialog.
- **Export** Opens the Export Barcode Definitions dialog.

## **Data Acquisition**

- These options are not applicable to Print Shop.

## Logging

- Reserved for future use.

## Lookups

Application Barcodes	AARAdeType	A BearingSealType					
E Charts	- AxleCondition		Description	Value	Index	Active	^
Data Acquisition	AdeDefectFree	•	BRENCO DDL	8AMS0001	0		
Devices Tags	- Axle HeatGrade		BRENCO ST-212	8AMS0002	1	V	Do
Logging	- AxleMfg - AxlePlating		BRENCO Efficien	8AMS0003	2	1	
Logging	- Bearing Certificates		BRENCOThin Gap	8AMS0004	3	V	
Lookups General	- BearingBackingRingType		UDL	8AMS0005	4		
Colleig	<ul> <li>BearingCageType</li> <li>BearingCondition</li> </ul>		FM	8FED0001	5	V	
	BearingDefectFree		F.A.G.	8FAS0001	6		
	- BearingGreaseType		NTN	8NTN0001	7	V	1
	Bearing Mfg     Bearing Seal Type     Bearing Specification     Bore Size     CompanyCode		SKF GEN II	8SKF0001	8		
			SKF CR-70113	8SKF0002	9		
			SKF LL	8SKF0003	10		
	- Demount Disposition		TIMKEN NT	8TIM0001	11		
	- Down TimeReason		HDL	8TIM0002	12		
	InboundShipmentType     OutboundShipmentType     WheelCandtion     WheelCondition     WheelCutReason     WheelDisposition     WheelFlangeType     WheelFlangeType		AP-2 HDL	8TIM0003	13		
			TIMKEN EcoTum	8TIM0004	14	V	_
		1			1	,	-
			TIMKEN EcoTum		14		•

Manages the lookup values for the dropdown selected

- Add Adds a new lookup item to the selected lookup name.
- Edit Modifies the selected lookup item.
- **Delete –** Removes the selected lookup item.
- **Up** Moves the selected item up in the list.
- **Down** Moves the selected item down in the list.

## Downtime

	Machine Downtime	
	This machine has not yet been out of service.	
Reason:	Select ·	
Comment:		
	SET OUT OF SERVICE	
	Close	

To set the machine out of service, select the Reason from the dropdown list. Additional reasons can be added via Shop Manager. You can also add a comment. Click on the comment box to pop up an on-screen keyboard. Once you have selected a reason and entered any optional comments, click 'SET OUT OF SERVICE'. The screen will be replaced with the following:

Machine Downtime						
OUT OF SERVICE This machine has been out of service for 22 seconds						
Operator:	aic					
Reason:	Machine Repair					
Comment:	Hydraulic line broke					
	RETURN TO SERVICE					

The Out of Service screen displays the duration of the current downtime, the user that placed the machine out of service, the reason it was placed out of service, and any comments entered. To return the machine to service, simply click the 'RETURN TO SERVICE' button.

# Diagnostics

	<ul> <li>Warn</li> </ul>	Error	Debug	Exception	Open in Notepad
<ul> <li>anFO- [k2620]</li> <li>(anFO- [k2620]<td>12 9 53 48 AMI VISA Carrent 12 9 53 58 AMI VISA Carrent 12 9 53 55 AMI VISA Carrent</td><td>n MainForm Form Loav n MainForm Logur60co n MainForm Logur60co n MainForm Logur60co n MainForm Login0cco n MainForm Login0cco</td><td>dj Machine Settings loaded dj Data Source-ANDERSWWS dj brital Catalog-WSMS, V15 dj Conection Timeeut=0 dj tergapated Sacuthy=Faise dj User (Davamoigni carred) User logged ni. CornectionFestured [Databas d] Application Statup - Complex rend User als Gaged in urred [Loading Scanner Setting] urred [Scanner Settings Loaded urred] Scanner Settings Loaded urred] Barcode Definitions Load Jodates   Checking for undatas</td><td>e Connection Rastored de  una successfully </td><td></td></li></ul>	12 9 53 48 AMI VISA Carrent 12 9 53 58 AMI VISA Carrent 12 9 53 55 AMI VISA Carrent	n MainForm Form Loav n MainForm Logur60co n MainForm Logur60co n MainForm Logur60co n MainForm Login0cco n MainForm Login0cco	dj Machine Settings loaded dj Data Source-ANDERSWWS dj brital Catalog-WSMS, V15 dj Conection Timeeut=0 dj tergapated Sacuthy=Faise dj User (Davamoigni carred) User logged ni. CornectionFestured [Databas d] Application Statup - Complex rend User als Gaged in urred [Loading Scanner Setting] urred [Scanner Settings Loaded urred] Scanner Settings Loaded urred] Barcode Definitions Load Jodates   Checking for undatas	e Connection Rastored de  una successfully 	
Scanning					
	ne				
Scanner Na					
Scanner Nar Symbology					
Symbology					
Symbology					

The diagnostics screen is a utility for viewing the application's log file and to test the barcode scanner(s).

To test the barcode scanner, simply scan any barcode. If the scanner is configured properly, you should see the name of the scanner, the type of barcode scanned (symbology) and the raw data that is contained in the barcode.

When you are finished using the diagnostics screen, click 'Close' to return to the previous screen.

# **Administrator Menu**

Most modes of operation allow a shop administrator to specify which fields the operators are required to enter. In some cases, fields can be required only for wheelsets that have a disposition of 'Good'. When a field has been marked as required it will either be outlined in red, or have a red background until data has been entered.



These options can only be changed by an administrator, and they can only be set with a mouse.

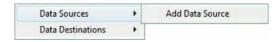
First, the administrator must log on and proceed to the data entry screen. Position the mouse cursor over the data entry field to be changed and right-click. The Administrator Menu will appear. A checkmark will indicate if the field is already set to be required.

Require	۲	✓	Always
Default	۲		For good wheelsets

The administrator can also specify which fields can default to the value previously entered by the operator. Fields marked as 'Default' will retain their last value, unless the user changes it. This prevents the operators from having to enter the same information repeatedly, but it could also increase user errors if the user forgets to change the data entry when a change occurs. A checkmark will indicate if the field is already set to default to the last value.

Require	•	
Default	•	to 'Last Value'

The Administrator Menu also allows the administrator to add a data source or data destination to user controls, such as buttons and data entry fields. These menu items will only be displayed if a data tag has been added under the Options Dialog. Not all controls support this feature.



To add a data source to a control, right-click the control and select 'Add Data Source' from the 'Data Source' sub-menu. To add a data destination to a control, right-click the control and select 'Add Data Destination' from the 'Data Destination' sub-menu. After a data source or destination has been added to a control, it can be removed by right-clicking on the control, accessing the respective 'Data Sources' or 'Data Destinations' sub-menu, and clicking on the 'Remove' item that corresponds to the appropriate data source or data destination.



Appendix A: Frequently Asked Questions (FAQ)

# **Appendix B: License**

#### WHEEL SHOP MANGEMENT SUITE END USER LICENCSE AGREEMENT

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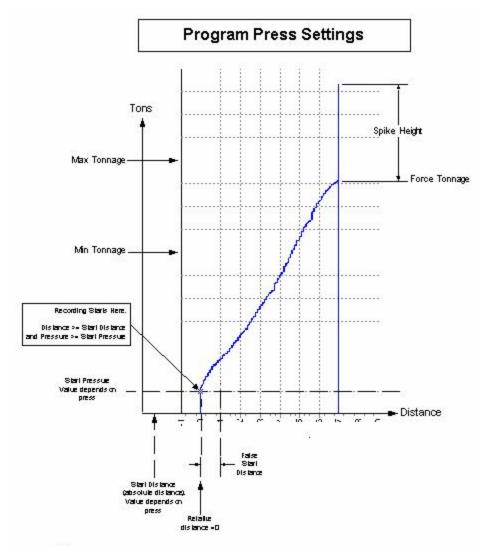
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# **Appendix C: Press Settings**



Notes:

1. Must meet start distance (absolute distance) and start pressure to begin recording.

2. Once recording begins, if pressure drops to below start pressure before false start distance is

reached, the recording stops and distance resets to 0. This is to prevent recording 'burnping'. 3. Once the false start distance is exceeded then the chartis stored as is.

# **Appendix D: Contact Information**

Wheel Shop Automation 6100 Getty Drive Suite N Sherwood, AR 72117

#### **Online Support**

Visit our website at <u>www.wheelshopautomation.com</u> for 24/7 technical information and available downloads Email us at support@wheelshopautomation.com

#### Phone Support (Existing support contract or credit card required)

Call 1-501-834-9540 or 1-877-834-9540 (toll free)