

Car Manager

A component of the Railcar Integrated Maintenance Suite (RIMS)

User Guide



Railcar Integrated
Maintenance Suite

DATA COLLECTION • AUTOMATION

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Introduction

Car Manager is a desktop application that serves two primary purposes. It is an administrative tool used for user management and system settings. It is also a portal for monitoring, editing, and managing your Equipment and Component data. For more information refer to the sections on [Component Association](#) and [Component Registration](#).

Car Manager is intended for use by Managers, Quality Assurance personnel, and office administrators. In most cases it is a supplement to other components of the Railcar Integrated Maintenance Suite (RIMS) installed on the production floor or shop/yard. For more information about our other RIMS components please visit our website at www.wheelshopautomation.com or [contact us](#).

Car Manager requires access to an instance of the RIMS database which can be installed on the same computer or any computer with network access and the required permissions. In most cases a computer running our RIMS Service is also required. Refer to the [Initial Setup](#) for more information

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 Vista SP2 (x86 and x64)
- Windows 7 SP1 (x86 and x64)
- Windows Server 2008 R2 SP1 (x64)
- Windows Server 2008 SP2 (x86 and x64)

The application requires the Microsoft .Net Framework 4.5 Full which can be obtained from Microsoft at <http://www.microsoft.com/en-us/download/details.aspx?id=30653>

The application requires the following hardware at a minimum.

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

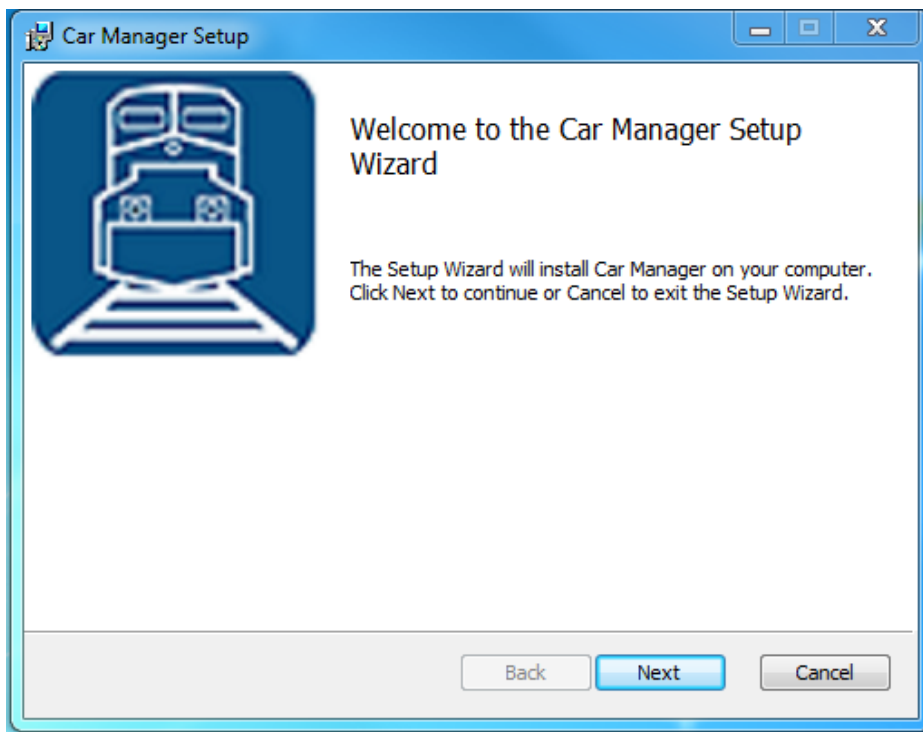
Getting Started

Installing Car Manager

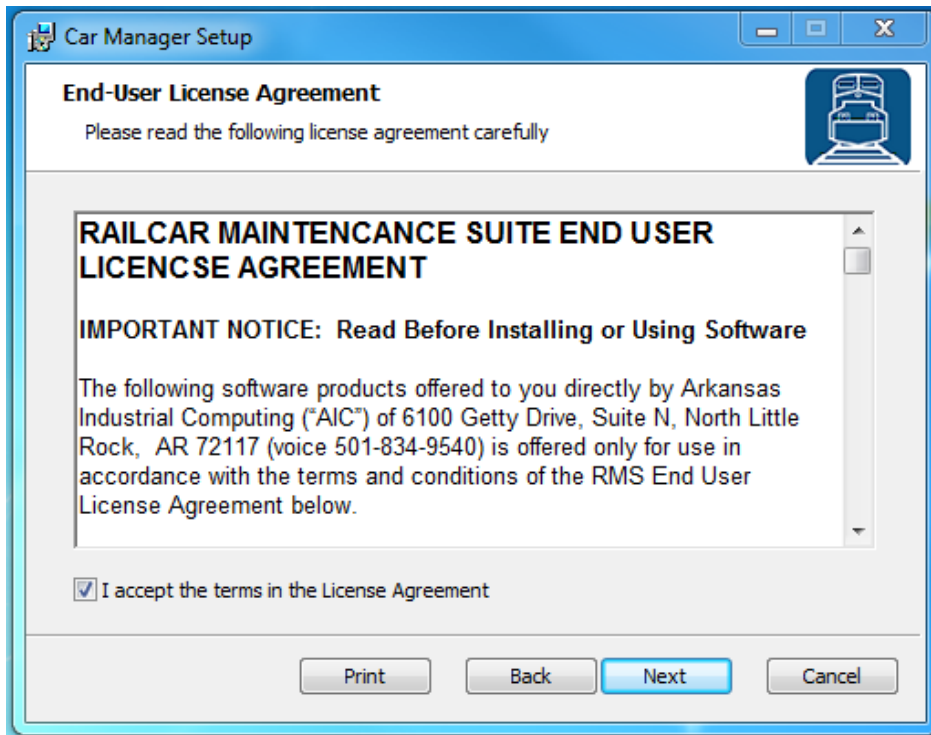
You will need Administrator rights to install Car Manager.

Make sure you have the latest version of our Car Manager Setup program. Contact our support team for assistance. To install Car Manager, run the setup program and follow the on screen prompts as described below:

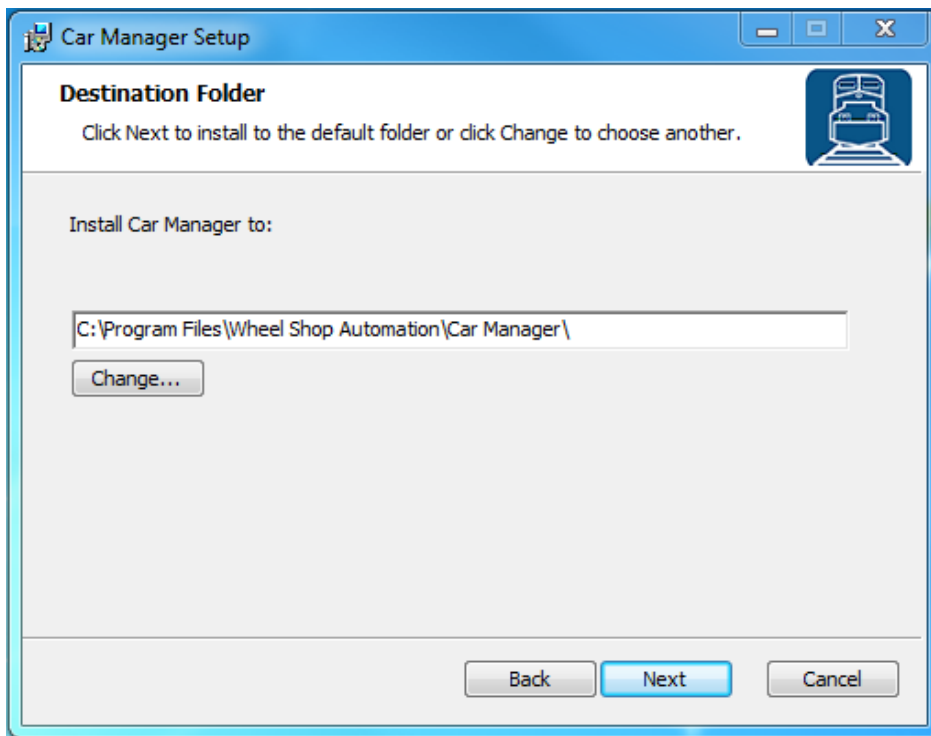
Click Next to continue.



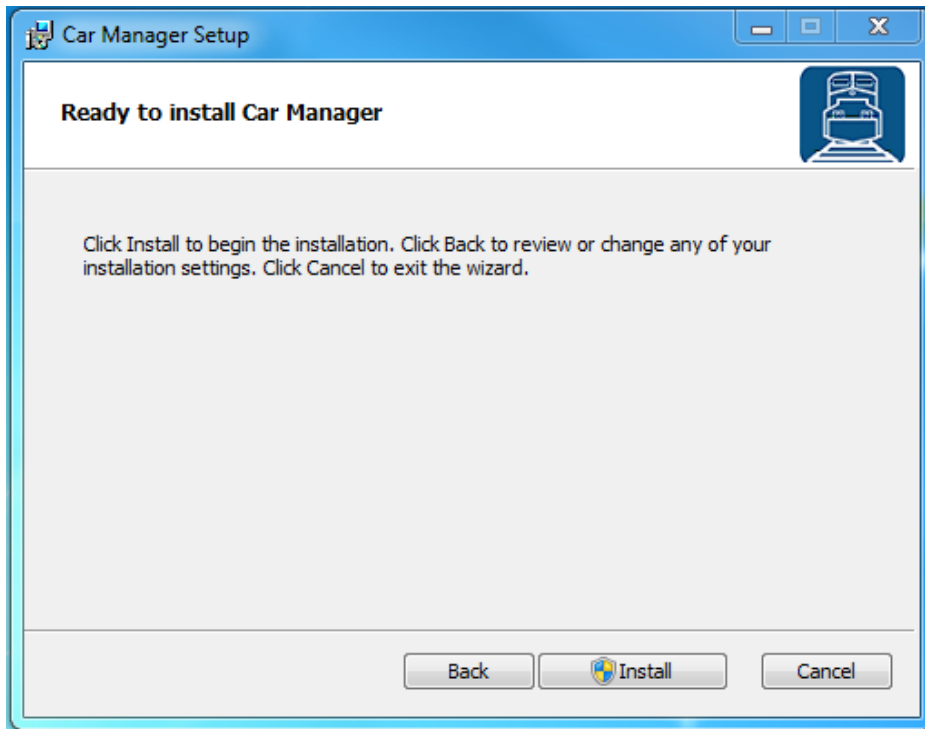
Accept the license agreement and click Next.



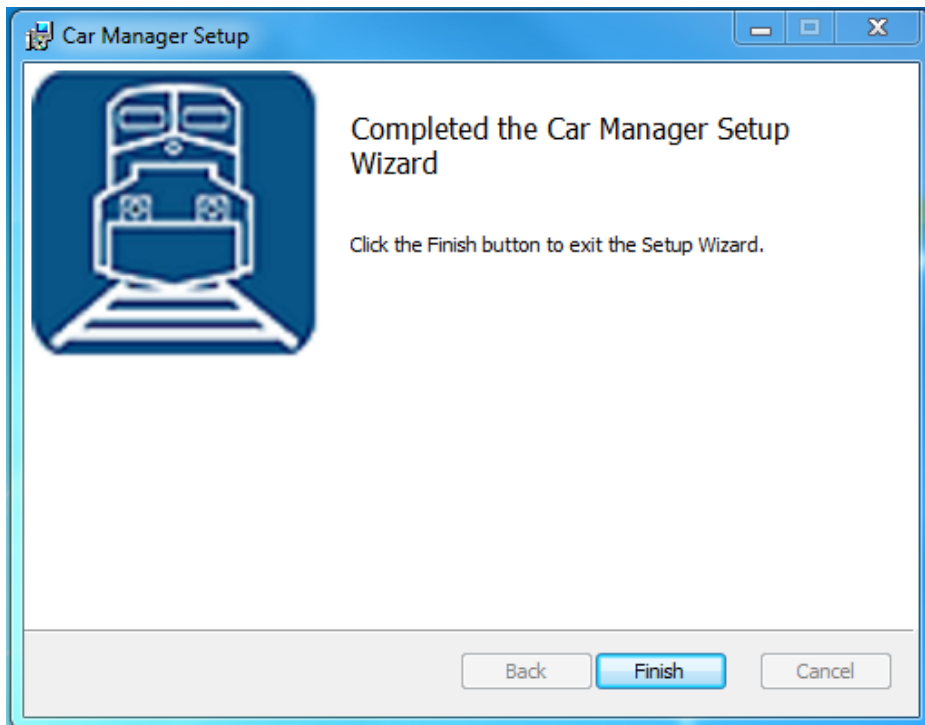
Select the location where you would like to install Car Manager to and click Next.



Click Install to begin the installation.



When the installation has completed, click Finish to close the setup application.



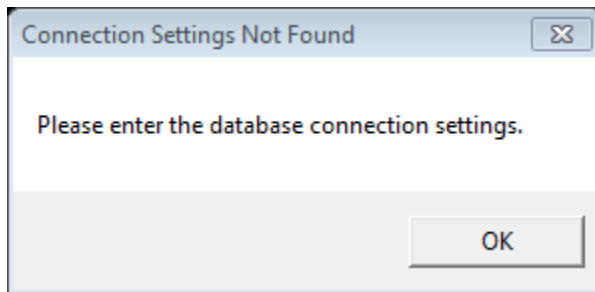
Initial Setup

Once you have installed Car Manager you can double click the desktop shortcut to start the application.

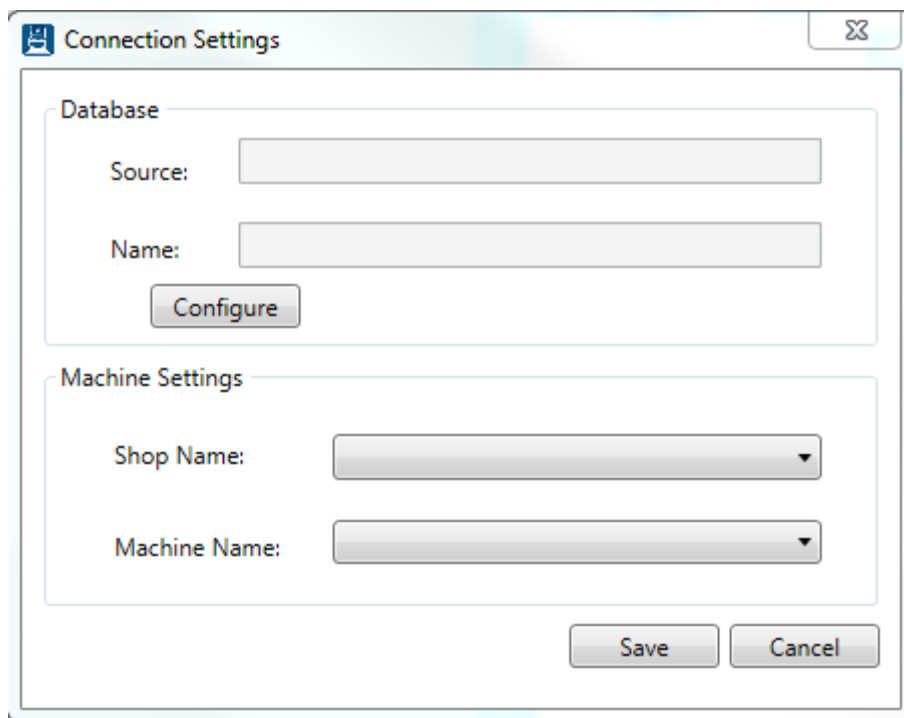
Database Connection Settings

Car Manager requires access to an instance of the RIMS database which can be installed on the same computer or any computer with network access and the required permissions. The first time you run Car Manager you will be prompted to enter your database connection settings.

Click OK to display the Connection Settings dialog.



Click Configure.



Enter the connection settings for the server where the RIMS database is located. If you are unsure contact your IT Department or our [support team](#).

Click Test Connection to verify your settings.

Click OK when you are finished.

Configure Server Connection

Server Name Refresh

Log on to the server

Use Windows Authentication

Use SQL Server Authentication

User Name:

Password:

Save my password

Connect to a database

Select or enter a database name

Attach to a database file

Browse

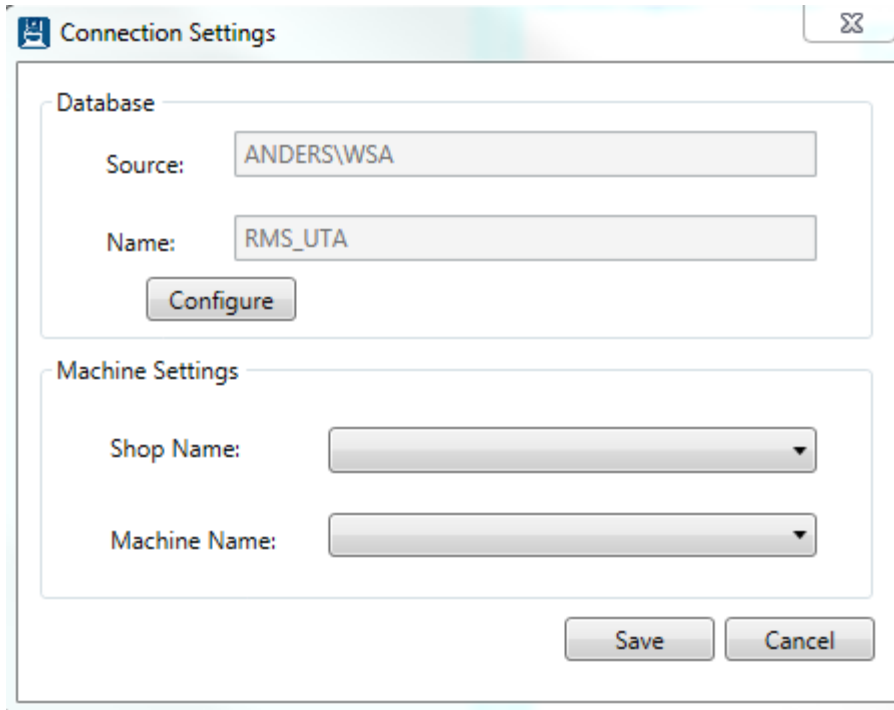
Logical Name

Test Connection

OK Cancel

Click the Shop Name drop down to select the location for which you want to configure this installation. RIMS can support multiple locations or 'shops' hosted in one database. In order to isolate the data and settings to your location you must provide this information.

After you have selected the Shop Name click on Machine Name and select the machine you are installing on. Some settings are stored per machine so this setting will be used to differentiate each installation.



The screenshot shows a 'Connection Settings' dialog box. It has a title bar with a close button. The dialog is divided into two sections: 'Database' and 'Machine Settings'. In the 'Database' section, there is a 'Source' text box containing 'ANDERS\WSA', a 'Name' text box containing 'RMS_UTA', and a 'Configure' button. In the 'Machine Settings' section, there are two dropdown menus: 'Shop Name' and 'Machine Name'. At the bottom right of the dialog are 'Save' and 'Cancel' buttons.

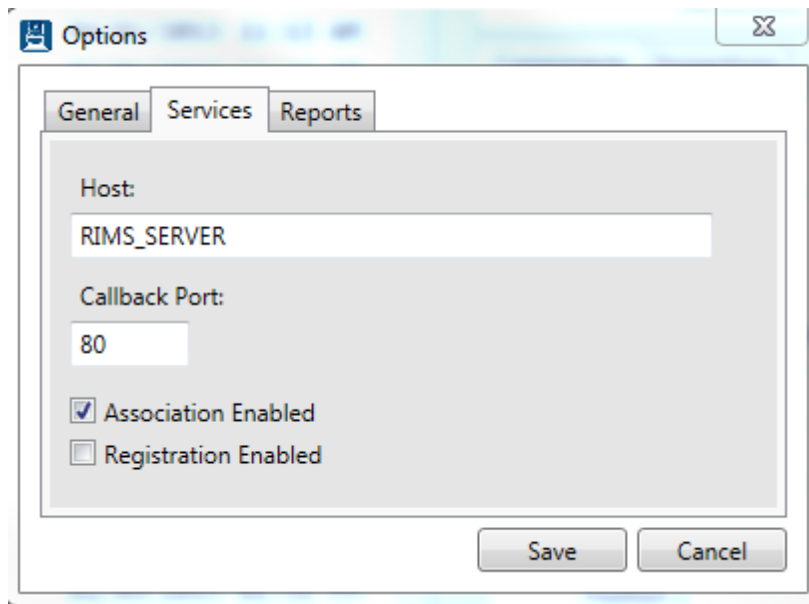
Click Save to save your changes.

Once you have entered your database settings you will be prompted to log on. You must have an existing user name and password in the RIMS system. If you do not have this information, contact your manager or a system administrator. See the following section regarding [Log on](#) for more information.

RIMS Service settings

The final configuration step is to enter the RIMS Service endpoint. RIMS Service is a web service endpoint used by components in the RIMS system including Car Manager. It enables Car Manager to submit component associations, component registrations, and queries to [Railinc](#) via their web services endpoint.

To enter the RIMS Service endpoint settings click on Tools->Options.



Enter the computer name or network address of the computer hosting the RIMS Service application in the Host box.

The Port is the HTTP port number on your computer. This allows the RIMS Service to send response information back to Car Manager. The default port is 80. If you are having problems connecting to the RIMS Service you may need to use a different port number. Contact your IT department [or our support team](#) if you need assistance.

In some cases you may want to disable Association or Registration features on a computer. Disabling these features will not disable any data viewing or editing; it will only disable the communication between this instance of Car Manager and the RIMS Services.

Click Save to save your changes.

Log on / Log off

Each user is given a unique user name and password for the RIMS system for authentication and accountability. You must provide your user name and password each time Car Manager starts before you can begin. Your log on also determines what functions you have permissions to perform. For more information about permissions and users refer to the next section on [Users and Groups](#).



The image shows a login dialog box titled "Car Manager". It features a blue header bar with the title. Below the header, there is a yellow padlock icon on the left. To the right of the padlock, there are two text input fields: "Name:" followed by an empty text box, and "Password:" followed by an empty text box. At the bottom of the dialog, there are two buttons: "Login" and "Cancel".

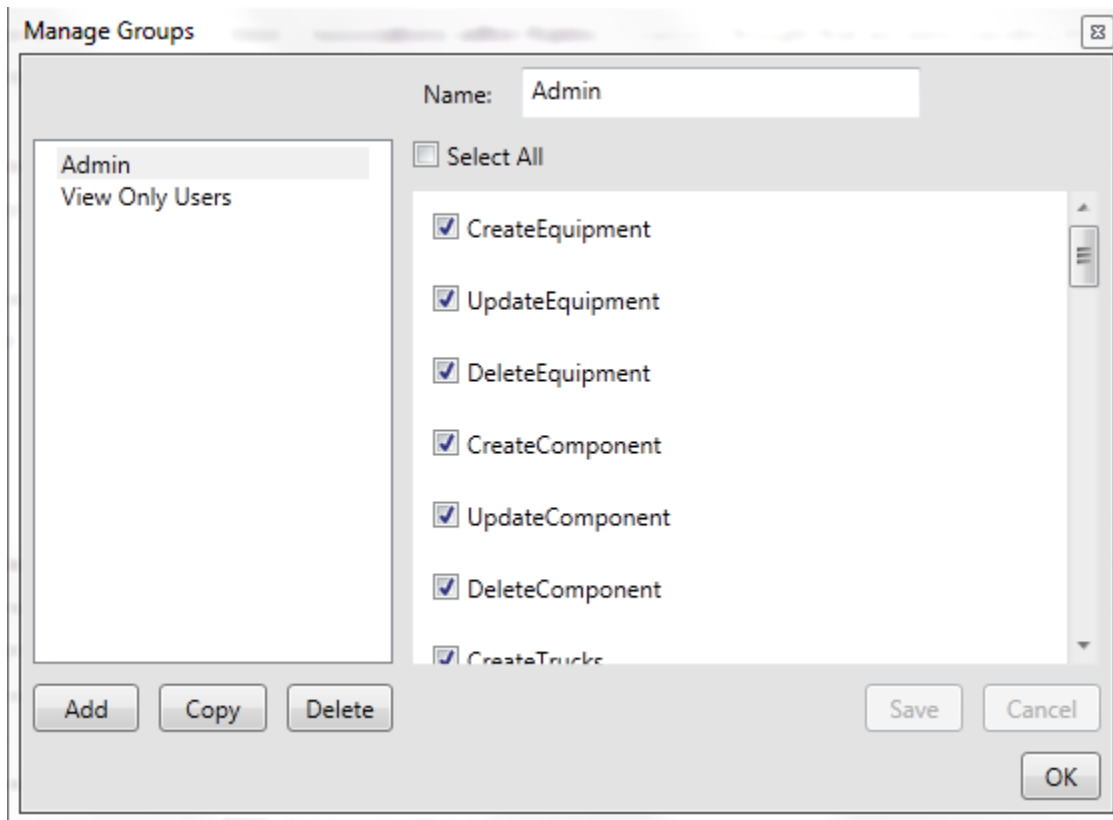
To log off the current user select Log off from the File menu.

Users and Groups

Managing Groups

Groups determine the permissions granted to each user. You can create as many groups as required. Each group can be assigned a different combination of permissions. For example, you may want User 1 to have view only access but User 2 needs permission to create equipment. To accomplish this you can create a 'view only users' group that does not have any permissions. Assigning User 1 to this group will allow them to log in and view/search equipment but they won't be able to make any changes. Creating a second group with the 'CreateEquipment' permission and assign User 2 to that group will allow them to add new equipment.

Select Manage Groups from the Tools menu to add/modify groups and set the permissions for each group.

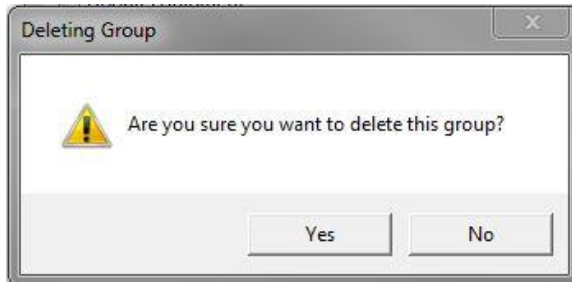


Select a group from the left side to edit the permissions for an existing group.

Click Add to create a new group.

Click Copy to make a copy of the selected group and give it a new name. This is useful if you want to create a new group with just one or two different permissions from the group you are copying.

Click Delete to delete the currently selected group. You will be prompted to confirm that you want to delete. Click Yes to delete the group.



If creating a new group/copying an existing group, enter a name for the group in the Name box. If you are editing an existing group this box cannot be edited.

Check the box next to the permission name to allow the selected group to perform that function. Uncheck the box to remove the permission from the currently selected group. To assign all permissions you can click the 'Select All' checkbox. To remove all permissions click the 'Select All' checkbox a second time.

Click Save to apply any changes or save a new group.

Click Cancel to undo any changes.

Click Ok to close the Manage Groups dialog.

Managing Users

Each user should be assigned a unique user name and password for authentication and accountability. Any changes are logged and tracked to the user name of the currently logged on user. It also helps to ensure certain functions can only be performed by trained and qualified persons.

Select Manage Users from the Tools menu to add/modify users.

Name	Group	Shop
aic	Test	AIC
JoeTest	Admin	AIC
operator	Admin	AIC

User Info

Permissions

Name: aic

Full Name: AIC

Description: AIC Administrator account

Require user to change Password on next login

Account is disabled

Add Delete Save Cancel

Select an existing user from the list on the left to edit an existing user.

Click Add to create a new user.

Click delete to remove the currently selected user.

If creating a new user, you can assign the user name in the Name box. If editing an existing user the Name cannot be edited.

The Full Name box allows you to enter the first and last name of the user. This field is optional.

The Description box allows you to enter any other information that may pertain to the user. This could be something like the user's job title, department, or employee ID. This field is optional.

The Set Password button allows you to change the user's password. When creating a new user the default password is left blank. Once the user has been saved the password can be set using the Set Password button.

When checked, the 'Require user to change Password on next login' checkbox sets a field in the user's account that will require them to change their password the next time they log on to any RIMS application. After they log on using their current user name and password they will be prompted to enter a new password and will not be allowed to continue until they have done so. This field is automatically disabled once the user has changed their password.

The 'Account is disabled' checkbox determines whether or not the user can log on to any RIMS system. When checked the user will be blocked from logging on to any RIMS application.

Once you have filled in the new user's information, select the Permissions tab next to User Info.

Default	Shop	Group
<input checked="" type="checkbox"/>	AIC	
<input type="checkbox"/>	Railcar Integrated Management System	
<input type="checkbox"/>	Test Shop	
<input type="checkbox"/>	Wheel Shop Automation	
<input type="checkbox"/>	Wheel Shop Management System	

Save Cancel

This tab lets you select which shops the new user will be able to access. The Group determines which permissions group the user belongs to for each shop. Refer to the section above on [Managing Groups](#) for more information about groups and permissions. Leaving this box blank indicates that the user does not have permission to access the associated shop.

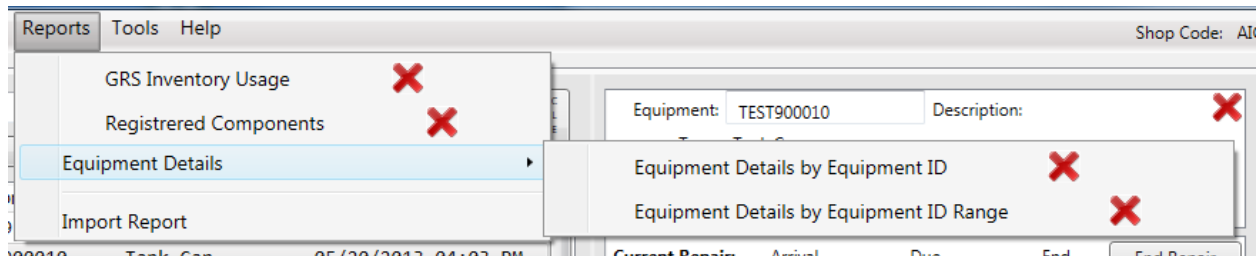
Finally, use the checkboxes to select the user's default shop. A user's default shop does not affect the permissions granted for any shop; it only determines which shop the user logs into (regardless of the shop chosen in [Database Connection Settings](#)) when Car Manager is started. NOTE: A default shop must be selected in order to save the new user information.

Click Save to save your changes to the user.

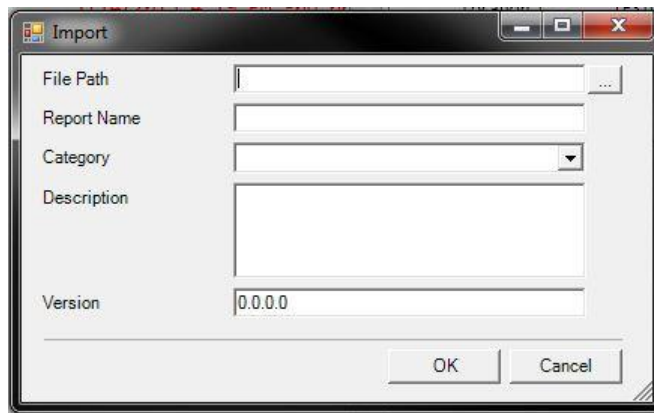
Click Cancel to undo any changes.

Click Ok to close the Manage Users dialog.

Reports



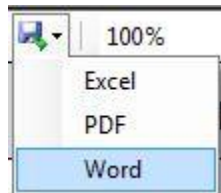
The Reports tab shows all the reports stored on the database, which can be in separate categories. Selecting one of the reports will bring it up into a separate Report Viewer window. To remove a report from Car Manager, click on the red 'X' beside the report you want to remove. If there are no reports under the tab, some must be uploaded to the database from the desktop using the import feature.



The import feature uploads reports files from the host computer onto the database, using the information provided.

- File Path – The location on the hard drive of the report file to be uploaded.
- Report Name – The name to store the report under in the database.
- Category – An optional value to give each report in order to sort them when they are uploaded.
- Description – Reserved for future use.
- Version – Reserved for future use.

When viewing reports, you can export the current report from the database to the desktop either in Excel, PDF, or Word format.



Component Association

Overview

One of the roles of Car Manager is to assist with Component Association as required by the AAR's Comprehensive Equipment Performance Monitoring (CEPM) program. This program tracks the application of Wheelsets, Side Frames¹, Bolsters 1, and Couplers 1 to the equipment.

For more information refer to the CEPM Program Overview at

<https://www.railinc.com/rportal/cepm-project-overview>

¹ Required in 2014

Repair History

Once you have selected an equipment from the list, you can view the equipment’s repair history by clicking the ‘Repair History’ button in the details pane.

Equipment: Description: ✖
 Type: Tank Car
 Truck Count: 2
 Inactive

Current Repair: Arrival Due End
 05/20/2013 5/27/2013

The Repair History window displays all repairs for the current equipment in the left pane. Select a repair to view the modifications to the equipment specific to that repair.

Repair History
_ □ ✖

Start Date	Due Date	End Date	
05/20/2013	05/27/2013		

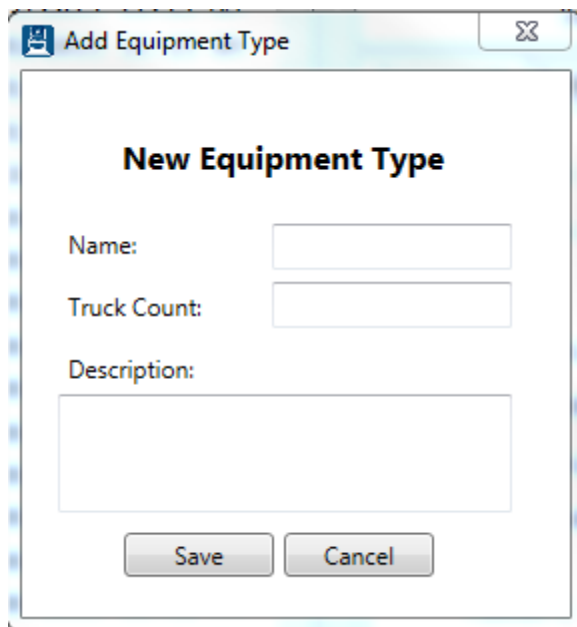
Equipment: TEST900010 Description:
 Type: Tank Car
 Truck Count: 2
 Inactive

Type	Location	CID	Comments
COUPLER	A	AARE9900000406	
SIDEFRAME	AL	AARE9900000409	
SIDEFRAME	BL	AARE9900000405	

Managing Equipment Types

The first step in tracking equipment and components is to identify the different types of equipment. The equipment types determine the number of component locations based on the number of trucks. This allows for the RIMS system to work with all forms of articulated and non-articulated equipment.

To create a new equipment type, click on the Equipment menu and select 'Add Equipment Type'.



The screenshot shows a dialog box titled "Add Equipment Type". Inside the dialog, the title "New Equipment Type" is centered. Below the title, there are three input fields: "Name:" with a text box, "Truck Count:" with a text box, and "Description:" with a larger text area. At the bottom of the dialog, there are two buttons: "Save" and "Cancel".

The equipment type Name can be as generic as 'Coal Car', 'Box Car', 'Hopper', or as specific as part numbers. Enter the Name of an equipment type as long as it isn't already in use.

Truck Count is an integer value defining the number of trucks for the specified equipment type. For non-articulated equipment this value will usually be 2. For articulated cars the value typically ranges from 3 to 11. This value is used to determine how many possible locations are available for each component type.

Description is optional. It can be used to add additional information or descriptive information about the equipment type.

Click Save to add the equipment type to your system. Cancel closes the dialog without saving changes.

Adding Equipment

Equipment must be added to the RIMS system so component application can be tracked. Equipment can be added in the shop/field using Car Builder (purchase required) or it can be added from Car Manager. To add new equipment, select 'Add Equipment' from the Equipment menu.

ID consists of the car initial and car number. This is sometimes referred to as the Car ID or 'Road Number'. There is no need to add a space between the initial and the number. All padding/spacing will be handled automatically.

Description is optional. It allows you to enter additional information about this particular equipment.

The 'In For Repairs' checkbox flags the new car as In For Repair. You can use this field to filter your [Equipment Search](#) results to only show cars that are in for repair. This will limit the search results to a more manageable number. The default is checked.

Select the Equipment Type from the dropdown. To manage the list of available equipment types refer to the previous section on [Managing Equipment Types](#). The Type Description and Truck Count will be displayed for the selected equipment type to help you verify you have selected the correct equipment type.

Click Save to add the equipment or Cancel to close the dialog without saving.

In most cases it is necessary to add a list of equipment instead of adding them one at a time. If you have a Comma Separated Values (CSV) file containing the required information you can import a list of equipment all at once. The CSV file needs to contain at a minimum the car initial and number (as one

field or separate fields) and the equipment type (as defined in your [Equipment Types](#) list). To add a list of equipment, select 'Import Equipment' from the Equipment menu.

Click 'Browse' to select the CSV file you want to import. The preview at the bottom shows the data you are about to import.


If the car number and initial are contained in the same field, select that field in the first Equipment ID dropdown and leave the second dropdown unselected. Otherwise select the car initial field in the first dropdown and the car number field in the second dropdown.


Select the field that contains the equipment type.

Click Import to add all equipment from the file, or Cancel to close the dialog without adding any equipment.


Editing Equipment

If you have not already submitted any component applications you can edit the equipment ID from the equipment details area above the Component list. If the user has appropriate permissions they can modify the equipment ID or change the In For Repair and Inactive properties.

Equipment:	TEST000006	Description:	The Test Cars	
Type:	Tank Car			
Truck Count:	2			
<input type="checkbox"/>	Inactive			

Current Repair:	Arrival	Due	End	<input type="button" value="End Repair"/>
	04/01/2013	4/6/2013		<input type="button" value="Repair History"/>

Components Inspections

- ▲ Bolster
 - Position B
 - Position A
- Coupler
- ▲ SideFrame
 - Position BL SPLX3300005157  In Progress
 - Position BR
 - Position AL
 - Position AR
- ▲ Wheelset
 - Position 1
 - Position 2
 - Position 3
 - Position 4

To edit the Equipment ID click in the box and make necessary changes. You can only change this if you have not already successfully associated a component. Once you have associated one or more component(s) you must remove the component(s) before you can edit the equipment id.

New equipment and/or equipment that you will be working on in the near future should be marked as In For Repair. Any equipment that you are finished working on can be set to not In For Repair by unchecking this box. This allows you to filter your equipment search so only equipment that you are actively working on appears in the search results.

When the Inactive property is checked, equipment will never show up in the search results list by default. To be able to search for Inactive equipment you must turn on the Show Inactive option from the Equipment Menu. This is useful to hide equipment you never plan to see again. For example if the equipment is being re-stenciled it will be assigned a new equipment ID so you will need to create a new Equipment. You can set the original equipment to Inactive so it won't show up when you search.

Click Save to save changes to the equipment.

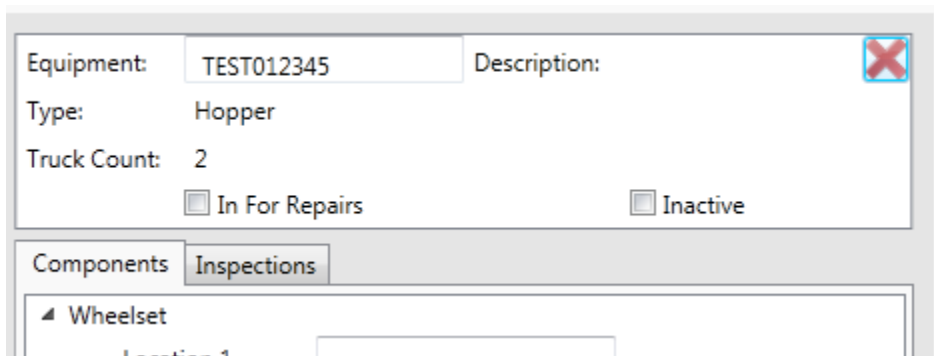
Click Cancel to discard changes.

Click Submit to save changes and try to associate all components that are not already associated.

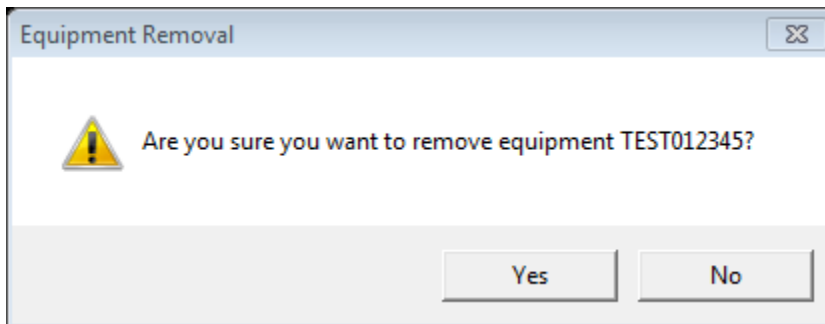
Deleting Equipment

If you have equipment that was added in error you can delete it from the RIMS System if you have the appropriate permissions.

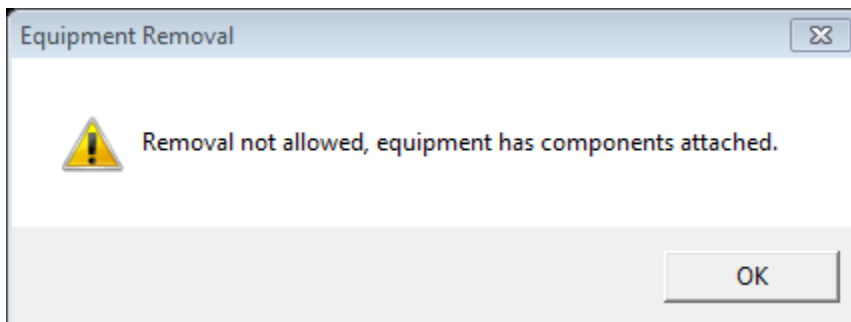
To remove an equipment simply click the red X in the top left corner of the Equipment Details area.



You will be prompted to confirm you want to remove the equipment.



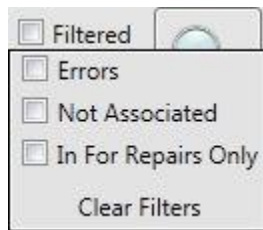
If there are any components applied to the equipment you will not be able to remove the equipment until you have first removed all applied components.



Searching Equipment

The Equipment tab allows you to search for equipment that you have already added via filters and search criteria. Once the Equipment list is populated with the results, you can click on any of the equipments to show its details and associated components; you can right-click on an equipment in the list to print its details (also available in the 'File' menu), or to copy its Equipment ID to the clipboard.

Filters



The Errors checkbox will filter the Equipment list to show only equipment with Component Association errors. For more information see the section on [Association](#) below.

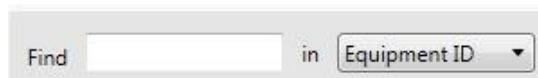
The Not Associated checkbox will filter the Equipment list to show only equipment with components that have been applied but not submitted to the AAR as a repair. For more information see the section on [Components](#) below.

The In For Repairs Only checkbox will filter the Equipment list to show only equipment that is in for repairs.

Search Criteria

In addition to filtering the equipment list you can also enter search criteria to limit the number of equipment that display in the list.

The first and most common search criterion is the equipment ID.



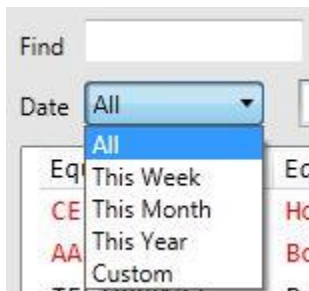
Entering any part of the equipment ID will limit the equipment in the list to only show equipment whose ID contains part or all of the text in the search box. For example, you can enter the car initial to only show equipment with the same car initial. You can also enter the entire equipment ID to find specific equipment. The equipment list is updated as you type. If the equipment list is empty no equipment matches your search criteria and/or filter.

You can see the total number of cars that match your search below the search results list. For more information see the section on [Components](#).

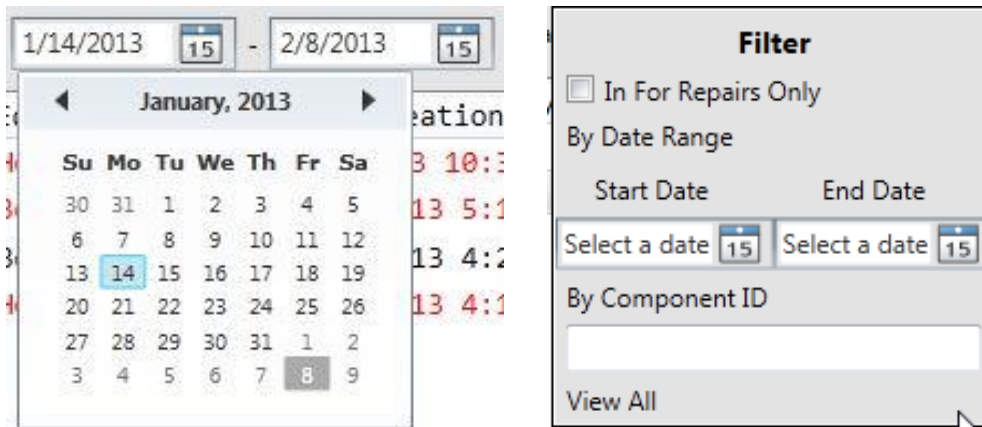
In addition to searching with equipment ID, you can search a component ID (CID) matching one or more of the components applied to equipment by clicking the arrow inside the box where Equipment ID is located. This will expand and allows you to select Component ID.



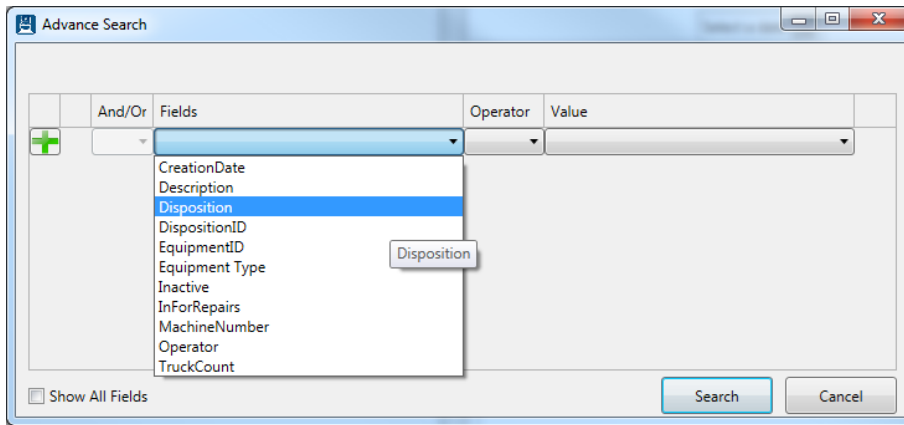
You can also filter your search by date range the equipment was added to the system. By clicking the arrow in the Date box this will allow you to filter by This Week, This Month, This Year, or by using a Custom date range.



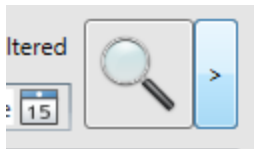
Select Custom and specify your beginning and ending dates to search by a specific date range the equipment was added to the system.



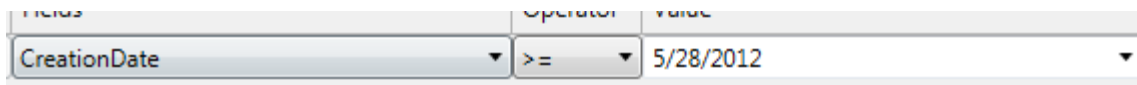
Advanced Search



Car Manager's Advanced Equipment Search feature allows users to customize searches beyond the standard search criteria to create targeted searches. To access the Advanced Search window, click the '>' button beside the magnifying glass.

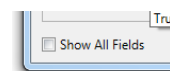


To begin creating your advanced search, select a search field from the dropdown box and enter/select a value for the field; when appropriate, you may change the operator to return a range of results instead of only those that equal the criteria. For example, the search below would return all components created AFTER the selected date; changing the operator to '<=' would return components created BEFORE the selected date.



Once your first condition is complete, click the green '+' button on the left of the window if you want to add another condition to your search.

Car Manager's Advanced Search only searches certain fields by default; in order to specify a field that is not shown by default, check the 'Show All Fields' box in the bottom left corner of the pane. Editing the fields shown by default requires altering your database entries for the element descriptions; for more information about this, contact your administrator or our [support staff](#).

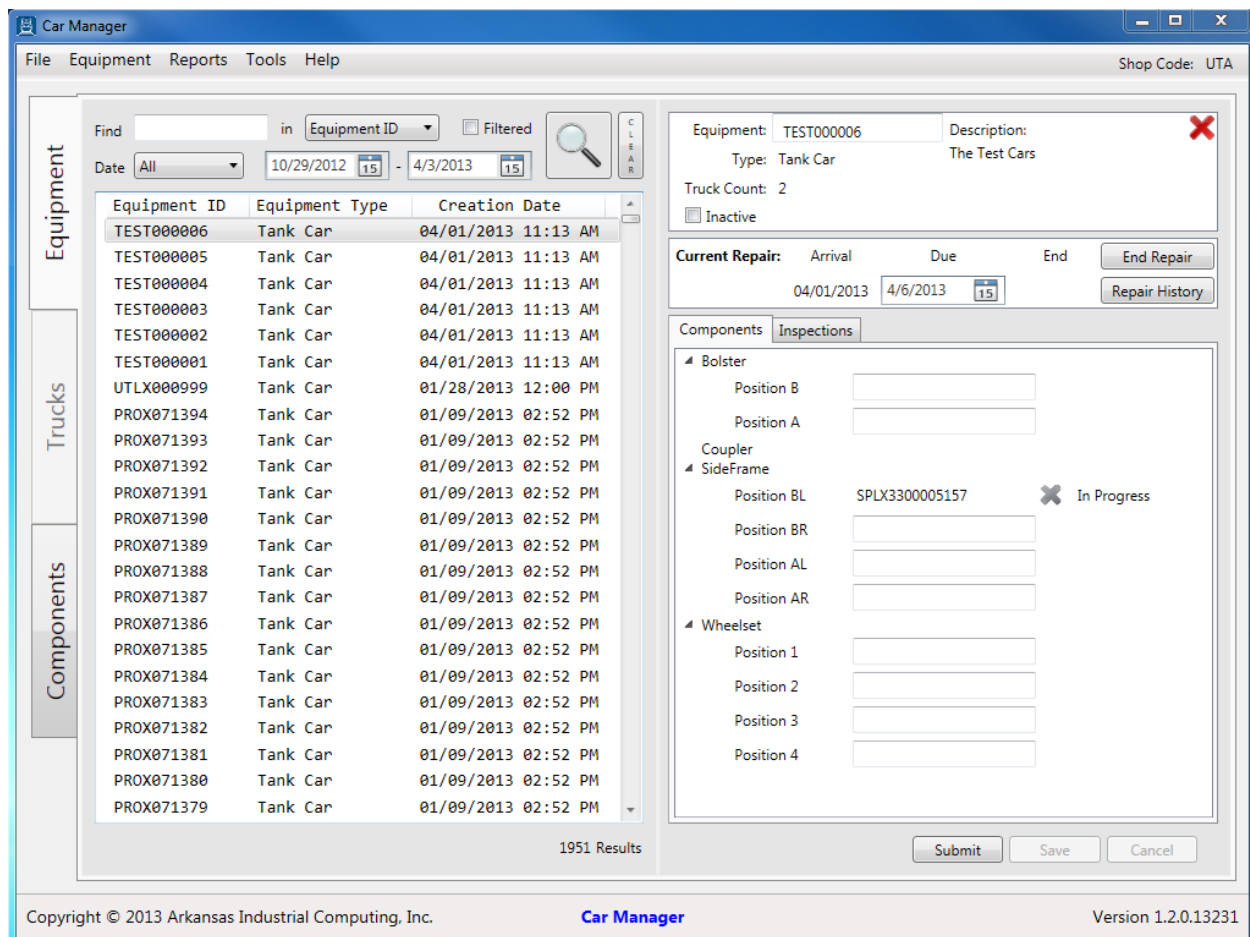


When you have finished entering the desired search conditions, click Search. Your results will display in the Components List just like a standard search.

Component Application

One of the primary roles of Car Manager is in tracking and reporting component application. Components are tracked to equipment by the component ID assigned to each Component at the time of Component Registration (see <https://www.railinc.com/rportal/cepm-project-overview> for more information).

Each equipment has a list of locations available for component application. The possible locations are determined by the component type as well as the equipment type. For example, an equipment type that has 2 trucks will have locations for 4 wheelsets, 4 side frames, and 2 bolsters.




Component application can be entered manually using Car Manager by typing in the Component ID (CID) of the component you want to apply in the box next to the component type and location where you want to apply it. For example, to apply a wheelset to location 3 you would simply enter the CID in the box next to wheelset location 3.

▲ Wheelset	
Location 1	<input type="text"/>
Location 2	<input type="text"/>
Location 3	<input type="text" value="AICX0000000012"/>
Location 4	<input type="text"/>
▲ SideFrame	
Location BL	<input type="text"/>
Location BR	<input type="text"/>

Click Save to apply any changes.

Click Cancel to undo changes.

Once a component has been applied it must be removed if any changes are required. To remove a component click the X to the right of the CID

▲ Wheelset		
Location 1	<input type="text"/>	
Location 2	<input type="text"/>	
Location 3	<input type="text" value="AICX0000000012"/>	
Location 4	<input type="text"/>	

For more information on component application [contact us](#) about our other RIMS applications such as Car Builder and Truck Builder. These applications help take the data collection process to the shop floor or field and greatly improve speed and reduce errors.

Association

Once a component has been applied to an equipment it must be reported to Railinc. This reporting process is referred to as Component Association.

Click the Submit button to report any components that have not already been associated. If there are any components with errors or warnings they will be reported as well. In most cases you will wait to report the component applications until all components have been applied.

When a component is submitted it is sent to the RIMS Service which verifies the required information has been entered and then forwards the information to Railinc using their repair Web Service. Once a response has been received indicating if the association was successful the response is forwarded back to Car Manager where it will display the status as Success, Warning, or Error.

▲ Wheelset		
Location 1	AICX0000000012	✘ ERROR
Location 2	RAIL0000007360	✘ WARNING
Location 3	RAIL0000007361	✘ Success
Location 4	RAIL0000007362	✘ Success
▲ SideFrame		
Location BL	<input type="text"/>	
Location RR	<input type="text"/>	

A status of Success indicates the association was successfully reported.

A status of WARNING indicates the association was successfully reported, but a problem occurred during the process. Click the 'WARNING' link to display the warning message that was returned.

A status of ERROR indicates the association was not reported. Click the 'ERROR' link to display the error message that was returned.

For help with warnings and errors refer to Appendix A- [Frequently Asked Questions](#) below.

Trucks

Our Truck Builder application (a component of the Railcar Integrated Maintenance Suite – purchased separately) allows for tracking component application to a truck. That truck can then be tracked and applied to an equipment which in turn applies all components of that truck to the equipment. This allows the user to quickly and easily access the Component ID barcodes as the truck is assembled, instead of requiring them to crawl around the car or truck when the truck is applied to the car.

The Trucks tab allows you to view, edit, and manage the component application for trucks that were entered from Truck Builder.

For more information about Truck Builder, [contact us](#).

Component Registration

Overview

One of the roles of Car Manager is to assist with Component Registration as required by the AAR's Comprehensive Equipment Performance Monitoring (CEPM) program. This program tracks the application of Wheelsets, Side Frames¹, Bolsters 1, and Couplers 1 to the equipment. For more information about Component Registration refer to the CEPM Program Overview at <https://www.railinc.com/rportal/cepm-project-overview>

Our Component Data Collector (CODEC) application (a component of the Railcar Integrated Maintenance Suite – purchased separately) allows for entering component element data required for component registration. A user enters the component data and applies a Component ID barcode label before reporting the Registration to Railinc.

For more information about CODEC, [contact us](#).

¹ Required in 2013

Searching Components

The Components tab allows you to search for components that you have already added via filters and search criteria. Once the Components list is populated with the results, you can click on any of the components to show its details.

Filters

Filtered

Component Types

Wheelsets
 SideFrames
 Bolsters
 Couplers

Registration

Not Registered
 Errors
 Success

Equipment

Applied
 Include Associated

Clear Filters

The Errors checkbox will filter the Components list to show only equipment with Component Registration errors. For more information see the section on [Association](#) below.

The In For Repairs Only checkbox will filter the Equipment list to show only equipment that is in for repairs.

Search Criteria

In addition to filtering the components list you can also enter search criteria to limit the number of components that display in the list.

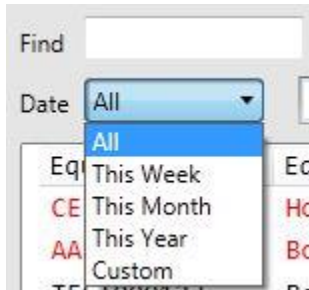
The first and most common search criterion is the Component ID.

Find in Component ID ▾

Entering any part of the Component ID will limit the components in the list to only show components whose ID contains part or all of the text in the search box. You can also enter the entire equipment ID to find a specific Component.

In addition to searching by Component ID, you can search for components by their associated Equipment ID by selecting Equipment ID from the dropdown next to the search bar.

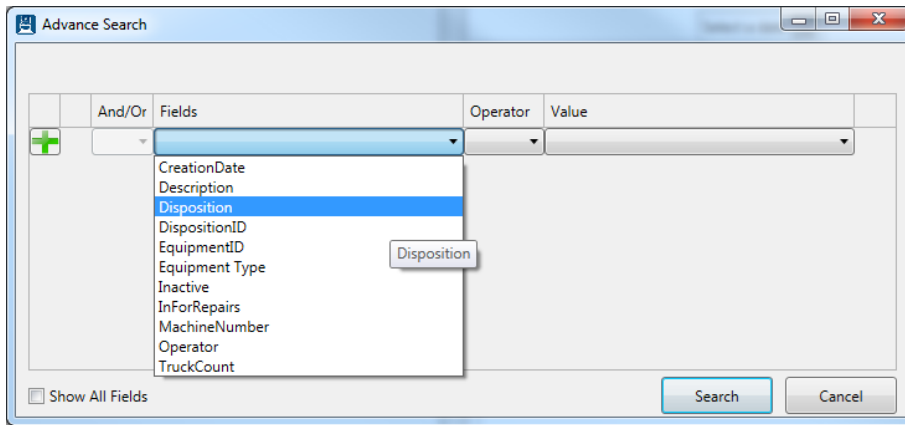
You can also filter your search by date range the component was added to the system. By clicking the arrow in the Date box this will allow you to filter by This Week, This Month, This Year, or by using a Custom date range.



Select Custom and specify your beginning and ending dates to search by a specific date range the component was added to the system.



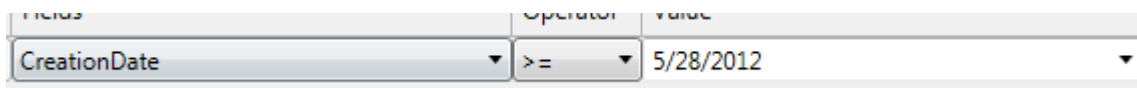
Advanced Search



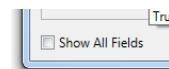
Car Manager's Advanced Component Search feature allows users to customize searches beyond the standard search criteria to create targeted searches. To access the Advanced Search window, click the '>' button next to the magnifying glass.



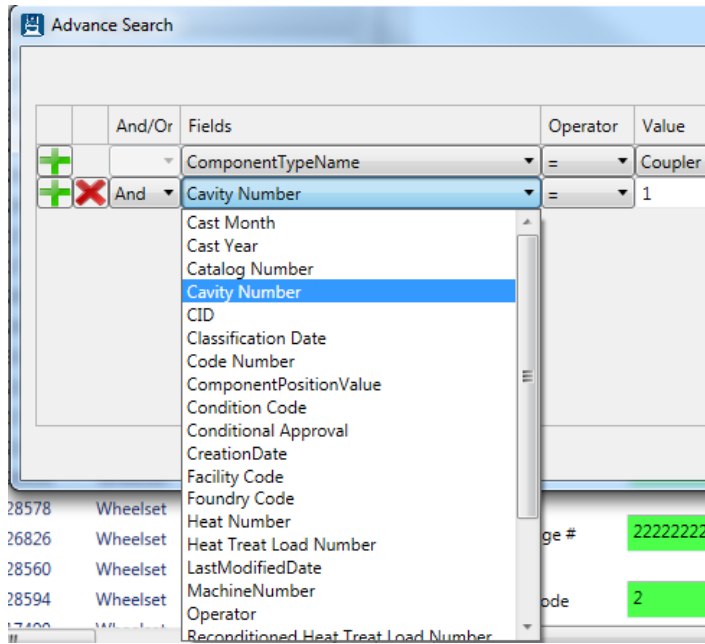
To begin creating your advanced search, select a search field from the dropdown box and enter/select a value for the field; when appropriate, you may change the operator to return a range of results instead of only those that equal the criteria. For example, the search below would return all components created AFTER the selected date; changing the operator to '<=' would return components created BEFORE the selected date.



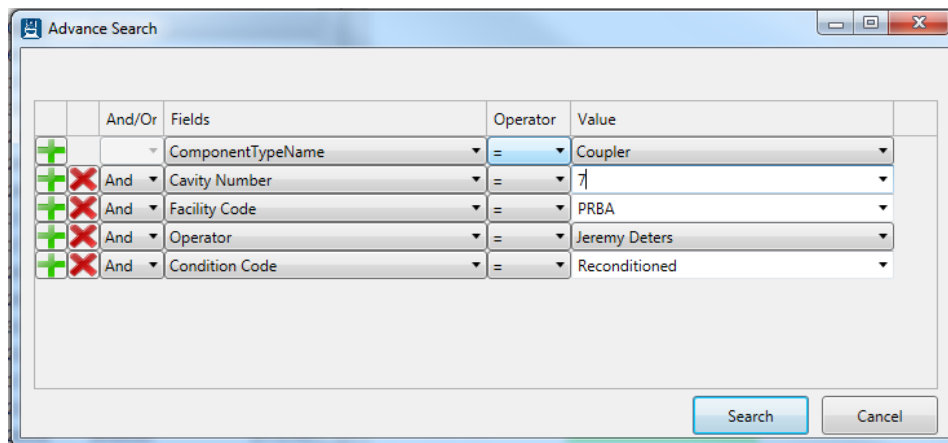
Car Manager's Advanced Search only searches certain fields by default; in order to specify a field that is not shown by default, check the 'Show All Fields' box in the bottom left corner of the pane. Editing the fields shown by default requires altering your database entries for the element descriptions; for more information about this, contact your administrator or our [support staff](#).



In order to search based on criteria that is specific to one type of component, such as a coupler's cavity number, you must first select 'ComponentTypeName' and specify the type of component to which the criteria applies. Once a component type is selected, click the green '+' button on the left of the window to add another condition to your search. Now, the Fields dropdown will include characteristics specific to the type of component selected in the first row.



When you have finished entering the desired search conditions, click Search. Your results will display in the Components List just like a standard search.



Managing Components

Car Manager currently only allows you to view, modify, and register components that have already been added using the CODEC application. Once you have located a component using the search criteria click on it to view the component data.

The screenshot shows the Car Manager application window. On the left, there is a navigation pane with categories: Equipment, Trucks, and Components. The main area displays a search results table with columns: Component ID, Component Type, Equipment ID, Truck WIP, and Last Modified Date. The table contains 15 results, with the first row selected. To the right of the table is a detailed view for the selected component (Component ID: 8R1C0002868731, Type: SIDEFRAME). This pane includes fields for Foundry AAR Facility Code (ACCO), Condition Code, Cast Month (1), Cast Year (0), Design Feature Code (123456789), AAR ID Code (8), Pattern Number (8), Drawing Number, Drawing Number Revision, Serial Number (12), Heat Number, Heat Treat Load Number, Reconditioner AAR Facility Code, Classification / Reconditioned Date, and Column Wear Plate Installer (Nn). At the bottom of the details pane are buttons for Register, Save, and Cancel.

Component ID	Component Type	Equipment ID	Truck WIP	Last Modified Date
8R1C0002868731	SideFrame			9/26/2013 4:30 PM -05:00
AARE9540300001	Coupler			9/24/2013 2:30 PM -05:00
test4123412341	Unknown			
test4123412341	Unknown			
test4123412341	Unknown			
test4123412341	Unknown			
test4234123412	Unknown			
test8578975298	Unknown			
test9923942342	Unknown			
test9919249239	Unknown			
test2394234239	Unknown			
AARE9540100025	SideFrame			
AARE9540100026	SideFrame			
test4123412341	Unknown			
AARE000000401	Unknown			

If the user has the appropriate permissions you can modify any or all values except the Component ID; the Component ID can only be modified if the selected component has not been registered through Railinc. If the selected component's CID value can be modified, it will be displayed as a textbox instead of plain text in the top of the details pane.

Component ID:

Click Save to apply your changes.

Click Cancel to undo changes.

Click the '>' button next to Save to delete the selected component from the database; this can only be done if the component has not been registered or the registration has been removed.

Registration

Once you have entered all required component data it must be reported to Railinc. This reporting process is referred to as component Registration.

Click the Register button to report the component Registration to Railinc.

When a component is registered it is sent to the RIMS Service which verifies the required information has been entered and then forwards the information to Railinc using their registration Web Service. Once a response has been received by the RIMS Service it is forwarded back to Car Manager where it will display the status as Success or ERROR.

Component ID: 8RIC0002868731	Registration Status: Success
Type: SIDEFRAME	Association Status: Not Associated
Equipment ID:	Disposition: <input type="text" value="Good"/>
Truck WIP Tag:	Comment: <input type="text"/>

A status of Success indicates the registration was successfully reported.

A status of ERROR indicates the registration was not reported. Click the ERROR link to display the error message that was returned.

For help with warnings and errors refer to Appendix A- [Frequently Asked Questions](#) below.

To remove a registration from the selected component, click the '>' button next to Register in the bottom-right corner of the screen. This must be done before you will be able to remove a component from your database.

Component Shipping

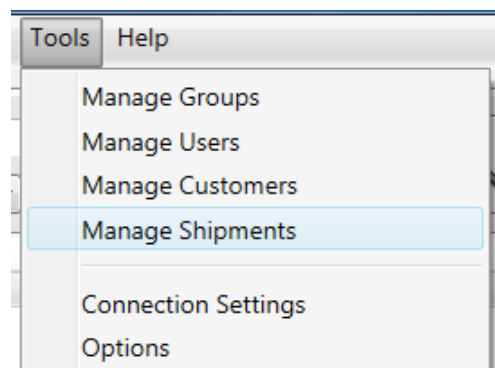
Receiving #	Location	Status	Type
1	One	In Progress	OUTBOUND
2	One	In Progress	OUTBOUND
3	One	In Progress	OUTBOUND
4500	One	In Progress	INBOUND
7	One	In Progress	INBOUND
6	One	In Progress	INBOUND
333	One	In Progress	OUTBOUND
777	One	In Progress	OUTBOUND
1121	One	In Progress	OUTBOUND
5445		In Progress	OUTBOUND
5322		In Progress	OUTBOUND
12	One	In Progress	INBOUND
777		In Progress	INBOUND
20	two	In Progress	OUTBOUND
21	two	In Progress	OUTBOUND
778	two	In Progress	INBOUND
779	One	In Progress	INBOUND
25	One	In Progress	INBOUND
22	One	In Progress	OUTBOUND

Buttons: Add, Delete, Import, Export, Save, Cancel

Car Manager allows you to manage incoming and outgoing shipments, via the Manage Shipments window. Shipping features include the ability to import and export shipment details, so if you work with another company that uses Car Manager, component shipments can be easily tracked and added to the database.

The Inbound and Outbound handheld apps are offered as part of RIMS to handle shipments in the field. The Manage Shipments window in Car Manager is intended primarily for tracking and review.

The Manage Shipments window can be accessed by selecting Manage Shipments from the Tools menu.



Shipment Info

Once you have selected a shipment for review, the right pane of the Manage Shipments window will display the stored information about the selected shipment. You can add Carriers by clicking on the green '+' plus sign on the Shipment Info tab.

Shipment Info
Components

Shipment Type: OUTBOUND

Load #: 1

Customer: Joe

Location: One

Carrier: Fedex - Truck +

Weight: 10000

Date Received: Select a date 15

Date Unloaded: Select a date 15

Received by: aic

Trailer #: 1

Bill of Landing: 9540

PO #: 1

Comment: test1

Save
Cancel

Shipment Info
Components

Add/Create CID...
Add
Remove

CID	Type	Status
AARE954030000	COUPLER	
AARE000000040	UNKNOWN	

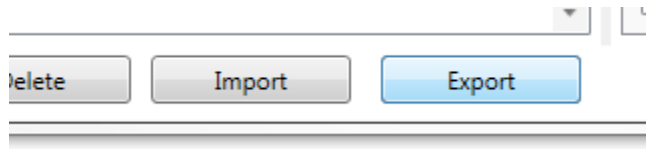
Components

The components tab displays the components on the selected shipment.

Import/Export

The import and export features allow shipments to be accepted automatically via a shipment file.

To export a shipment, select the shipment and click the 'Export' button.

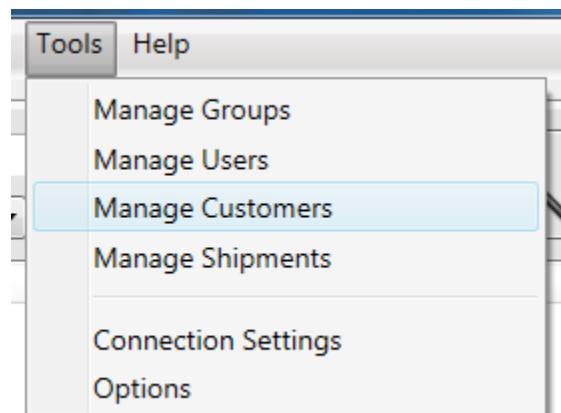


This will open a Save As window where a user can select the file name and save destination. The exported shipment file will be an .xml file type.

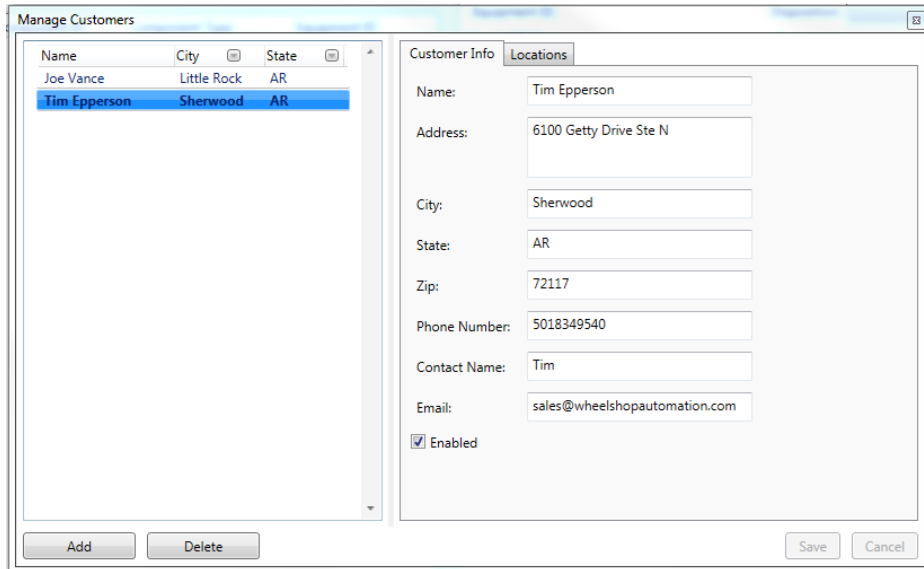
If you receive a shipment file with an incoming shipment, you can import the shipment information by clicking the Import button and selecting the incoming shipment file. Imported shipments are defaulted to INBOUND shipment types. Once the shipment has been imported, the components on the shipment are added to the RIMS database automatically.

Manage Customers

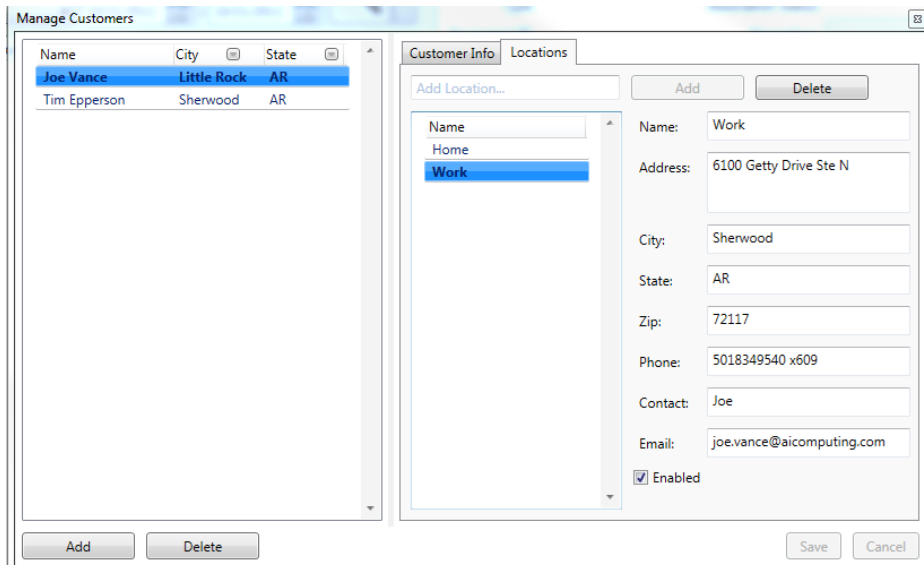
To add a customer and customer location to the RIMS shipping system, select 'Manage Customers' from the tools menu.



The Customer Info tab lets you set default information for customers as well as adding and deleting them.



The Locations tab allows you to set shipping information for multiple locations on a single customer.



Once you have finished entering customer information, click save. The newly entered customer should now appear in the appropriate dropdown lists in Car Manager and the Inbound and Outbound handheld shipping applications.

Appendix A: Frequently Asked Questions (FAQ)

Q. Why does Car Manager crash when trying to set the database connection information?

A. The most common cause is that the Windows user does not have permission to access the area of the Windows Registry where Car Manager saves some of its settings. [Contact us](#) or a member of your IT department for assistance.

Q. I receive the following warning when attempting to associate a component: "One or more Component Tag ID has not changed on the equipment unit."

A. This message is returned from Railinc's web service. It means that you have attempted to associate a component that has already been associated. This is usually the result of clicking the Submit button multiple times.

Q. I receive the following warning when attempting to associate a component: "The equipment unit is not found in Umler on the particular association date, so the component association request is recorded as received, but not applied."

A. This message is returned from Railinc's web service. It means that the equipment ID is invalid, or it cannot be found in Umler. Verify the equipment ID is correct. If it is incorrect you can [edit the equipment ID](#) and Submit again.

Q. I receive the following error(s) when attempting to associate a component: "Failed to associate component to car...Component requested does not exist".

A. The component ID is incorrect or the component was not registered. Verify the component ID has been entered correctly. If the component ID is correct you will need to contact the company that you purchased the component from to verify the component was registered.

Q. I receive the following error when attempting to associate a component: "Communications error".

A. This message indicates the RIMS Service could not connect to Railinc's web service, or an error occurred when trying to send the report to Railinc. [Contact us](#) or a member of your IT department for assistance.

Q. I am receiving a message that says “The ability to associate components to equipment is currently unavailable, but the connection will be retried again each time the Submit button is clicked”. What does this mean?

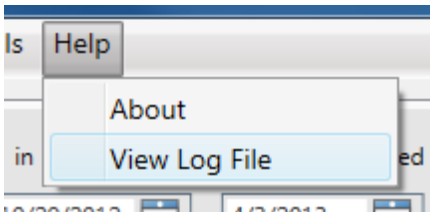
A. Component Association requires a connection to a computer running the RIMS Service application. If Car Manager is unable to communicate with the RIMS Service application the associations cannot be reported to Railinc. If the communications failure is temporary then you don’t have to do anything. If you receive this message frequently you need to contact your IT department or our support team for assistance. Refer to the section on [RIMS Service settings](#) for more information.

Q. I am receiving a message that says “The ability to register components is currently unavailable, but the connection will be retried again each time the Register button is clicked”. What does this mean?

A. Component Registration requires a connection to a computer running the RIMS Service application. If Car Manager is unable to communicate with the RIMS Service application the component registration cannot be reported to Railinc. If the communications failure is temporary then you don’t have to do anything. If you receive this message frequently you need to contact your IT department or our support team for assistance. Refer to the section on [RIMS Service settings](#) for more information.

Q. How can I view/retrieve the Car Manager log files?

A.



In the event that the Car Manager application does not function properly and you require technical support, you may be asked to submit the Car Manager Log File. A copy of this log can be obtained by selecting Help->View Log File from the Car Manager menu. This will open a .txt file that can be saved and attached to support emails.

Appendix B: License

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Appendix C: Contact Information

AIC Rail
6100 Getty Drive
Suite N
Sherwood, AR 72117

Online Support

Visit our website at www.aicrail.com 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)