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Learning about Equipment Health View

Equipment Health View (EHV) is a web-based application that consolidates equipment information from Railinc's Umler®, Equipment Health Management System (EHMS), Damaged and Defective Car Tracking (DDCT), and Early Warning (EW/MA) systems, as well as mileage information from the Event Repository.

Overview

Equipment Health View enables authorized users to:

- View a subset of Umler data for an Equipment ID
- Report repairs and associate component IDs
- Report inspections for an Equipment ID for Early Warnings, EHMS, and Umler
- View Early Warning notices for an Equipment ID
- View alert status for an Equipment ID
- View data summaries for an Equipment ID
- View damaged and defective status for an Equipment ID
- View mileage for an Equipment ID
- View inspection status for an Equipment ID
- View location status for an Equipment ID
- Query/filter, download, and view fleet statistics

Prerequisites

To attain full use of EHV, contact your Company Admin and request the following application-specific SSO permissions:

- EHV
  - EHV Generic Access
  - EHV Fleet Stats (by company as needed to view Fleet Stats)
  - EHV Billed Party (for exporting filtered or unfiltered Fleet Stats with more than 200 equipment IDs - see Note on page 3.)

- Umler
  - Umler Access for Maintenance
  - Umler Access for Query
  - Umler Inspection Rights (for reporting inspections)

- EHMS
  - Generic Access
  - Car Repair History (for reporting repairs and inspections)

- DDCT
  - Handling Carrier (if applicable)
  - Car Owner (if applicable)

- EW/MA
  - Early Warning Query
  - Early Warning Rept Inspections

- CRB
  - CRB Billing Repair Card User
User Tools and References

Refer to the following guides for information about application-specific reporting and requirements:

- Umler User Guide
- EHMS User Guide
- DDCT User Guide
- Component Tracking User Guide
- CRB Procedures Manual
- AAR Field Manual (link to purchase)
- AAR Office Manual (link to purchase)

System Requirements

For information about the system requirements of Railinc web applications and for information about downloading compatible web browsers and file viewers, refer to the Railinc UI Dictionary.

Accessing the Railinc Customer Success Center

The Railinc Customer Success Center provides reliable, timely, and high-level support for Railinc customers. Representatives are available to answer calls and respond to emails from 7:00 a.m. to 7:00 p.m. Eastern time, Monday through Friday, and provide on-call support via pager for all other hours to ensure support 24 hours a day, 7 days a week. Contact us toll-free by phone at 877-RAILINC (1-877-724-5462) or send an email directly to csc@railinc.com.
Getting Started

The Equipment Health View application is accessed using the Railinc Single Sign On (SSO), which can be accessed from the Railinc portal at http://www.railinc.com. The SSO log in is located at the upper right of the page.

Register to Use Railinc SSO

Before you can use Equipment Health View, you must register to use Railinc Single Sign On, which provides access to Railinc applications. Refer to the Railinc Single Sign On/Launch Pad User Guide.

Once you are registered to use SSO, you can use SSO to request access to EHV.

Requesting Equipment Health View Access

After authorization to use Railinc SSO is received, you must request access to EHV (see Exhibit 1). Refer to the Railinc Single Sign On/Launch Pad User Guide for more information.

Note: See “Prerequisites” on page 1 for additional requirements.

Exhibit 1. EHV Request Permission

Note: To export Fleet Stats of more than 200 Equipment IDs, you must have the EHV Billed Party role in addition to the EHV Fleet Stats role for the company. There can only be one EHV Billed Party permission per user ID. This identifies the Company ID to invoice for downloads exceeding 200 Equipment IDs.

When you receive e-mail notification of access to EHV, you can log on and begin using EHV.
Logging In

To log into Equipment Health View:

1. Open the browser.
3. Log in to SSO (at upper right). The Launch Pad is displayed (not shown).
4. Select Equipment Health View.

The Select Your Company popup is displayed (Exhibit 2). Use the drop-down to select the desired company, and select Submit.

Exhibit 2. Select Your Company

![Select Your Company]

The Equipment Health View Home page is displayed (Exhibit 3).

Note: The logged in user at the top of the Welcome page reflects the selected company for multi-company users.
Logging Out

Select the **Sign Out** link to end an Equipment Health View (SSO) session. You are returned to the SSO Login Page.

If multiple SSO applications are open (in separate browser windows), and you want to close only one, close the unwanted window using **X**, or **Alt+F4**. Do NOT select the **Sign Out** link—it ends the entire Single Sign On session (and all applications).

Time Out/Unauthorized

When the Equipment Health View session has been idle for 30 minutes, messages similar to those shown in **Exhibit 4** are displayed. You must log in to EHV again to continue working.

These messages also display when the user ID does not have appropriate permissions to view or submit information for the respective applications.

**Exhibit 4. Time Out Messages**

**Umler Inspections**

Either your session has timed out or you do not have the appropriate permissions for this application. Please see your application administrator for permission requests.
Using Equipment Health View

Equipment Health View is a dashboard-style interface that enables you to see pertinent information from various Railinc applications at a glance. Information from different applications is displayed in portlets as shown in Exhibit 5.

Exhibit 5. Equipment Health View Home Page (after performing a search)

Certain portlets enable you to launch the source application for the portlet. To do this, select the launch link at the bottom of the portlet. If you have authorization, the source application opens, and you can use that application. If you do not have authorization, an SSO Unauthorized Access Attempt Warning is displayed. You can launch the following applications from EHV:

- Umler
- EHMS
- Early Warning
- DDCT

**Hint:** You can right-click the launch link to open the application in a new browser window.

To return from a linked application, select the Launch Pad link at the top of the application, reselect **Equipment Health View**. The most recent search remains.
Several portlets have an Options icon (❖) in the upper right corner. Select the Options icon and then select the Refresh option to refresh the contents of that portal.

The following sections describe EHV functionality:

- “Using the Search Portlet” on page 8
- “Using the Equipment Location Portlet” on page 9
- “Using the Umler Registry Portlet” on page 10
- “Using the Repair and Inspection Reporting Portlet” on page 11
- “Using the Umler Inspections Portlet” on page 21
- “Using the Equipment Health Management System Portlet” on page 22
- “Using the Early Warning Notices Portlet” on page 23
- “Using the Damaged and Defective Car Tracking Portlet” on page 24
- “Using the Mileage Portlet” on page 25
- “Viewing Fleet Statistics” on page 26
- “Accessing the User Guide” on page 41
Using the Search Portlet

To use the Search portlet to search for a specific piece of equipment or a range of equipment:

1. Type an Equipment ID or a range of Equipment IDs in the Search box and select Search. Results, if found, are shown in (Exhibit 6).

   **Note:** You can view up to 200 IDs in the results list. Wildcards are not supported.

Exhibit 6. Search Results

If a range was submitted, the equipment list is displayed below the Search portlet. Data obtained for the first Equipment ID is displayed in the other portlets.

To change to a different ID in the list, scroll to and select another Equipment ID. The data is refreshed in the other portlets.

2. To execute a new search, overtype the Search field.
Using the Equipment Location Portlet

The Equipment Location portlet displays equipment location information from the Event Repository. This portlet displays the location (city/state) and last move information to the car owner (see Exhibit 7).

Exhibit 7. Equipment Location

![Equipment Location](image)

Loc: INTERBAY, WA
Last Move: 04/24/2009 08:24 (Empty)

Note: If no events have been reported, the Equipment Location portlet does not display any data.

If you are not the car owner, the portlet displays “Location information for equipment <car number> is confidential”.

Using the Umler Registry Portlet

The Umler Registry portlet displays information about the highlighted Equipment ID. Content varies based on the information available from Umler (Exhibit 8).

Exhibit 8. Umler Registry (sample)

<table>
<thead>
<tr>
<th>General</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stenciled Mark Owner</td>
</tr>
<tr>
<td>RAIL</td>
</tr>
<tr>
<td>Status Code</td>
</tr>
<tr>
<td>P - PRE-REGISTERED</td>
</tr>
<tr>
<td>Built Date</td>
</tr>
<tr>
<td>10/10/2000</td>
</tr>
<tr>
<td>Equipment Type Code</td>
</tr>
<tr>
<td>M550</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Car Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Restriction</td>
</tr>
<tr>
<td>X - AAR Interchange Restriction</td>
</tr>
<tr>
<td>Mech Restriction Reason</td>
</tr>
<tr>
<td>J - Restricted Due to Journal Bearing and Journal Lubrication</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Truck Count</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>Axle Count</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>Outside Length</td>
</tr>
<tr>
<td>45 ft, 1 in</td>
</tr>
</tbody>
</table>

Launch Umler

Note: Other than launching Umler, no actions are available from this portlet.

To view the complete data for the selected Equipment ID, select the Launch Umler link at the bottom of the portlet and query the Equipment ID. Refer to the Umler User Guide for information about performing an Equipment ID query in Umler.
Using the Repair and Inspection Reporting Portlet

The Repair and Inspection Reporting portlet enables authorized users to submit various inspections and repairs, including multiple entries that can be submitted at the same time (Exhibit 19 and Exhibit 20).

Note: This portlet can be used in two different ways: 1) You can use the Select Actions dropdown to select repairs or inspections. 2) This portlet is automatically invoked when you select an Inspection or Repair link in another portlet. See these links in Exhibit 21, Exhibit 22, and Exhibit 23. The Repair and Inspection Reporting portlet requires EHMS Generic Access and EHMS Car Repair History permissions.

Exhibit 9. Repair and Inspection Reporting - <Equipment ID>

For all entries, the default input fields (Equipment ID, Repair Date, SPLC, Performer, and Reporter) are required. Equipment ID and Reporter are defaulted to selected equipment and the company ID selected at sign-in.

The various repairs or inspections can be selected from the Select Action drop-down (Exhibit 10).

Exhibit 10. Repair and Inspection Reporting Actions

When an action is selected, entry fields open between the default input fields in the portlet and the Action drop-down (Exhibit 12).
Exhibit 11. Repair and Inspection Reporting (Report Repair action selected)

General Interface Description:

- The type of action is indicated at the left (Report Repair).
- For all entries, the default input fields (Equipment ID, Repair Date, SPLC, Performer, and Reporter) are required.
- If action was selected in error, it can be removed using the minus icon (⁻) at the right.
- The Submit button submits the input to the appropriate system.
- The Clear button removes all selected actions from the portlet (including processed actions).
- Input fields for each action vary. These are described in the following sections:
  - Report Repair (page 13)
  - Report EHMS Inspection (page 14)
  - Report EW/MA Inspection (page 15)

Umler Inspections:

- Report ABT (page 16)
  - Report Door Lube Inspection (same as Report ABT)
  - Report Vehicular Flat Car Certification (same as Report ABT)
  - Report Autorack Certification (same as Report ABT)
  - Report Autorack Repair (same as Report ABT)
  - Report Reflectorization Event (same as Report ABT)
- Report Autorack Inspection (page 17)
- Report Car Grade Inspection (page 18)
Report Repair

**Note:** You must have CRB and/or EHMS Car Repair History SSO permissions to report car repairs.

When you select **Report Repair** from the drop-down, the Report Repair fields open (**Exhibit 12**).

**Exhibit 12. Repair and Inspection Reporting (Report Repair)**

1. Use the calendar icon ( ) to select the repair date to be reported.

2. Type in the SPLC where the repair was done, or use the lookup icon ( ) to search for the SPLC.

3. Type in the MARK of the performer (e.g., a shop mark).

4. The Reporter defaults to your company.

5. Complete the following fields in accordance with the *AAR Field Manual* and the *AAR Office Manual*:
   a. Job code
   b. (conditional) Applied Qualifier
   c. (conditional) Why Made
   d. CRB Location
   e. (conditional) Component ID—from Umler Component Registry

6. When the input fields are complete, select **Submit**. The portlet displays the reported repair (**Exhibit 13**) and success or error messages. For errors messages (error messages are in red), correct the inputs and **Submit** again. For more message examples, see **Exhibit 19** and **Exhibit 20**.
Exhibit 13. Repair and Inspection Reporting (with Reported Repair)

Note: No further edits can be done to the submitted entry. A new action can be selected.

EHMS Inspection

When you select EHMS Inspection from the drop-down, the EHMS Inspection fields are displayed (Exhibit 14).

1. Use the calendar icon ( ) to select the repair/inspection date to be reported.

2. Type in the SPLC where the repair was done, or use the lookup icon ( ) to search for the SPLC.

3. Type in the MARK of the performer (e.g., a shop mark).

4. The Reporter defaults to your company.

5. Select the Inspection Type and Reason. Refer to the EHMS User Guide and the AAR Field Manual.

6. Type in the CRB location (refer to AAR Field Manual, Rule 83).

7. When the input fields are complete, select Submit. The portlet displays the reported repair (similar to Exhibit 13).
EW/MA Inspection

When you select EW/MA Inspection from the drop-down, the EHMS Inspection fields are displayed (Exhibit 15).

**Exhibit 15. Repair and Inspection Reporting (EW/MA Inspection)**

1. Use the calendar icon ( ) to select the repair/inspection date to be reported.

2. Type in the SPLC where the repair was done, or use the lookup icon ( ) to search for the SPLC.

3. Type in the MARK of the performer (e.g., a shop mark).

4. The Reporter defaults to your company.

5. Select the Notice Type (EW or MA).

6. Enter the Notice Number.


8. When the input fields are complete, select Submit. The portlet displays the reported repair (similar to Exhibit 13).
ABT Inspection

When you select **Report ABT** from the drop-down, the Report ABT fields are displayed (Exhibit 16).

*Exhibit 16. Repair and Inspection Reporting (ABT Inspection)*

![Repair and Inspection Reporting - RAIL0000000346](image)

**Note:** This interface is also used for the following:

- Door Lube
- Vehicular Flat Car Certification
- Autorack Certification
- Autorack Repair
- Reflectorization Event
- Autorack Inspection
- Car Grade Inspection

1. Use the calendar icon ( ) to select the inspection date to be reported.

2. Type in the SPLC where the inspection was done, or use the lookup icon ( ) to search for the SPLC date.

3. Type in the MARK of the performer (e.g., a shop mark).

4. The Reporter defaults to your company.

5. Select the Device Type (Manual, Automatic, or 4-Port) – refer to the *Umler User Guide* for more information on device types.

6. When the input fields are complete, select **Submit**. EHV displays the reported inspection (similar to Exhibit 13). You can then select new actions.
Autorack Inspection

When you select Autorack Inspection from the drop-down, the Report Autorack Inspection fields are displayed (Exhibit 17).

**Exhibit 17. Repair and Inspection Reporting (Autorack Inspection)**

1. Use the calendar icon ( ) to select the inspection date to be reported.

2. Type in the SPLC where the inspection was done, or use the lookup icon ( ) to search for the SPLC date.

3. Type in the MARK of the performer (e.g., a shop mark).

4. The Reporter defaults to your company.

5. Enter the Inspector's ID.

6. Enter the inspector's grades for each of the nine specified car parts/areas. Refer to the *Umler User Guide* for more information.

7. When the input fields are complete, select Submit. The portlet displays the reported inspection (similar to Exhibit 13).
Car Grade Inspection

When you select **Car Grade Inspection** from the drop-down, the Report Car Grade Inspection fields are displayed ([Exhibit 18](#)).

*Exhibit 18. Repair and Inspection Reporting (Car Grade Inspection)*

![Repair and Inspection Reporting (Car Grade Inspection)](image)

1. Use the calendar icon (📅) to select the inspection date to be reported.
2. Type in the SPLC where the inspection was done, or use the lookup icon (🔍) to search for the SPLC date.
3. Type in the MARK of the performer (e.g., a shop mark).
4. The Reporter defaults to your company.
5. Enter the Inspection Time in 12-hour format.
6. Select AM or PM
7. Select the inspector's car grade from the drop-down. Refer to *Umler User Guide*.
8. When the input fields are complete, select **Submit**. The portlet displays the reported inspection (similar to [Exhibit 13](#)).
Multiple Actions in One Submission

You can enter both repairs and various inspections in a single submission. You can do this within the Repair and Inspection Reporting portlet (by selecting from the drop-down list), or by selecting a Repair or Inspection link in another portlet (Exhibit 19).

Exhibit 19. Multiple Repairs and Inspection (ready for submission)

This example shows one inspection (selected Umler Inspections link), one repair (selected from the EHMS links), and one repair (selected from the Select Action drop-down in the Repair and Inspection Reporting portlet), with all required data—ready for submission. Exhibit 20 shows the portlet after submission.
Using the Repair and Inspection Reporting Portlet

### Exhibit 20. Multiple Repairs and Inspection (after submission)

The messages with green check icons show that the transactions were successful and closures executed (you should look for responses from applications as shown above for EHMS). Notice also, that the other portlets reflect the recent updates (Umler), or removal of completed transactions (only three alerts remain in EHMS).

Although no further actions can be taken on the submitted repairs and inspections, you can enter additional inspections or repairs by using the Select Action drop-down, or by selecting a link in another portlet.

If the portlet becomes crowded, select **Clear** to remove the entries (whether processed or not).
Using the Umler Inspections Portlet

The Umler Inspections portlet displays Umler Inspection information. Inspections are listed by type (Exhibit 21).

Exhibit 21. Umler Inspections (four in this sample)

<table>
<thead>
<tr>
<th>Umler Inspections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Brake Test</td>
</tr>
<tr>
<td>Inspection Date Done 09/24/2012</td>
</tr>
<tr>
<td>ABT 12-Month Due Date 09/24/13</td>
</tr>
<tr>
<td>ABT 5/9-Year Due Date 09/01/17</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Autorack Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspection Date Done 09/03/2012</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Autorack Inspection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspection Date Done 09/04/2012</td>
</tr>
<tr>
<td>SS Inspection Due Date 09/03/2020</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flat Car Inspection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspection Date Done 07/04/2012</td>
</tr>
</tbody>
</table>

Note: When you select an Inspection link, the Repair and Inspection Reporting portlet opens the corresponding inspection entry field to allow you to input a new inspection (refer to Exhibit 16 after selecting the Inspection link for ABT).

Select the refresh icon (⟳) to update the Umler Inspections portlet after submitting inspections.

To view the complete data for the selected Equipment ID, select the Launch Umler link at the bottom of the portlet and query the Equipment ID. Refer to the Umler User Guide for information about performing an Equipment ID query in Umler.
The Equipment Health Management System portlet displays EHMS alerts and data summaries for the highlighted Equipment ID. A typical listing of alerts and data summaries is shown in Exhibit 22.

Exhibit 22. Equipment Health Management System (sample)

<table>
<thead>
<tr>
<th>Alert Type</th>
<th>Location</th>
<th>Alert Level</th>
<th>At Level Since</th>
<th>Action</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Truck Hunting</td>
<td>Truck A</td>
<td>AAR Condensible</td>
<td>08/22/2011</td>
<td>Inspection</td>
<td>Repair</td>
</tr>
<tr>
<td>WILD ALERTS</td>
<td>Wheel 01R</td>
<td>ATSI Window Open</td>
<td>08/21/2007</td>
<td>Inspection</td>
<td>Repair</td>
</tr>
<tr>
<td>WILD ALERTS</td>
<td>Wheel 04L</td>
<td>AAR Opportunistic</td>
<td>05/27/2007</td>
<td>Inspection</td>
<td>Repair</td>
</tr>
<tr>
<td>WILD ALERTS</td>
<td>Wheel 04R</td>
<td>AAR Opportunistic</td>
<td>05/11/2007</td>
<td>Inspection</td>
<td>Repair</td>
</tr>
<tr>
<td>WILD ALERTS</td>
<td>Wheel 01L</td>
<td>ATSI Window Open</td>
<td>05/03/2005</td>
<td>Inspection</td>
<td>Repair</td>
</tr>
</tbody>
</table>

Data Summary

<table>
<thead>
<tr>
<th>Location</th>
<th>Status</th>
<th>Maximum Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acoustic RailBAM</td>
<td>Wheel Bearing 04L</td>
<td>No alert</td>
</tr>
<tr>
<td>SALIENT WHEEL Impact</td>
<td>Wheel 04R</td>
<td>Autoclose in progress</td>
</tr>
<tr>
<td>Acoustic RailBAM</td>
<td>Wheel Bearing 04R</td>
<td>No alert</td>
</tr>
<tr>
<td>SALIENT WHEEL Impact</td>
<td>Wheel 01R</td>
<td>No alert</td>
</tr>
<tr>
<td>SALIENT WHEEL Impact</td>
<td>Wheel 02R</td>
<td>No alert</td>
</tr>
<tr>
<td>SALIENT WHEEL Impact</td>
<td>Wheel 02L</td>
<td>No alert</td>
</tr>
<tr>
<td>SALIENT WHEEL Impact</td>
<td>Wheel 03L</td>
<td>No alert</td>
</tr>
</tbody>
</table>

Note: When you select an Inspection link, the Repair and Inspection Reporting portlet opens the EHMS Inspection entry field to enable you to input a new inspection (see Exhibit 14). When the Repair link is selected, the Repair and Inspection Reporting portlet opens the Report Repair entry field to enable you to input a new repair (see Exhibit 12).

Select the refresh icon ( ) to update the EHMS portlet after submitting inspections or repairs.

To view the complete EHMS data for the selected Equipment ID, select the Launch EHMS link at the bottom of the portlet and query the Equipment ID in EHMS. Refer to the EHMS User Guide for more information about EHMS Equipment ID queries as well as details about EHMS alerts and data summaries.
Using the Early Warning Notices Portlet

The Early Warning Notices portlet displays Early Warning notices for the highlighted Equipment ID. Representative Early Warnings are shown in Exhibit 23.

Exhibit 23. Early Warning (sample)

<table>
<thead>
<tr>
<th>Notice</th>
<th>Sev Cd</th>
<th>Exp Date</th>
<th>Eff Date</th>
<th>Title</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>EW 5277</td>
<td>XX</td>
<td>11/05/2011</td>
<td>08/05/2011</td>
<td>test2</td>
<td>Inspection</td>
</tr>
</tbody>
</table>

Note: When you select an Inspection link, the Repair and Inspection Reporting portlet opens the EW/MA Inspection entry field to enable you to input a new inspection (refer to Exhibit 15).

Select the refresh icon (🔄) to update the Early Warning Notices portlet after submitting inspections or repairs.

To view the complete Early Warning data for the selected Equipment ID, select the Launch Early Warning Notices link at the bottom of the portlet and query the Equipment ID. Refer to the EW/MA Advisory Procedures Manual/User Guide for information about performing an Equipment ID query in Early Warning.
Using the Damaged and Defective Car Tracking Portlet

The Damaged and Defective Car Tracking portlet displays DDCT information if you are party to the incident as shown in Exhibit 24. If you are not party to the incident, no results are displayed.

Exhibit 24. Damaged and Defective Car Tracking (sample)

<table>
<thead>
<tr>
<th>Incident ID</th>
<th>Incident Date</th>
<th>Originating Road</th>
<th>Car Mark Owner</th>
<th>Interchange Rule</th>
<th>Defect</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAIL00022425</td>
<td>08/15/2012</td>
<td>RAL</td>
<td>RAL</td>
<td>1</td>
<td>A - Body</td>
<td>Open</td>
</tr>
<tr>
<td>RAIL00022428</td>
<td>08/15/2012</td>
<td>RAL</td>
<td>RAL</td>
<td>107</td>
<td>A - Body</td>
<td>Open</td>
</tr>
</tbody>
</table>

**Note:** No actions are available from this portlet. You must report repairs in DDCT.

To view the complete DDCT incident data for the selected Equipment ID, select the Launch DDCT link at the bottom of the portlet and query the Equipment ID. Refer to the DDCT User Guide for information about Equipment ID queries and incident queries.
Using the Mileage Portlet

The Mileage portlet displays mileage information from the Event Repository to the car owner. This portlet can show the actual computed mileage, “No Data”, or “Very Few Miles” (if the data is confidential).

- Application Dt (Date) is the repair date reported by the customer.
- From Dt (Date) is the earliest recorded movement date
- To Dt (Date) is the latest recorded movement.

If Components have been added to an Equipment ID, mileage and dates of component application are shown (Exhibit 25).

Exhibit 25. Mileage (with applied Wheelset Components)

<table>
<thead>
<tr>
<th>Component</th>
<th>Miles</th>
<th>Application Dt</th>
<th>From Dt</th>
<th>To Dt</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHEELSET 1</td>
<td>24010</td>
<td>09/28/2011</td>
<td>10/12/2011</td>
<td>01/11/2012</td>
</tr>
<tr>
<td>WHEELSET 2</td>
<td>53092</td>
<td>10/01/2010</td>
<td>01/11/2012</td>
<td>01/11/2012</td>
</tr>
<tr>
<td>WHEELSET 4</td>
<td>11739</td>
<td>12/15/2011</td>
<td>01/11/2012</td>
<td>01/11/2012</td>
</tr>
</tbody>
</table>

**Note:** This information is confidential and is only available to the car owner. No actions other than sorting are available from this portlet. You can obtain detailed component data from Umler. Refer to the Umler User Guide and the Component Tracking User Guide for more information.
Viewing Fleet Statistics

To view Fleet Statistics for your company mark, select **Fleet Stats** from the menu bar. Visibility to fleet data is limited to the equipment owner and authorized designees. The default (collapsed) Fleet Stats page is shown in **Exhibit 27**. These statistics are retained on the screen unless filtering has been performed.

**Note:** Different messages are displayed on the Fleet Stats page to assist with filtering and to provide clarification. When the Fleet Stats page is first displayed, a note indicating “Nothing to display” appears below the Filtered Results. This message is re-displayed if the **Clear** button is selected following a successful filter. For a successful filter, the message “Results are filtered based on selections on the left” is displayed below the filtered results view. If the filtering is unsuccessful, the message "No results were found that matched your filter criteria" is displayed.

**Note:** Fleet Stats can only be viewed by those users who have been authorized in SSO for Fleet Stats for the specified company (**Exhibit 1**). Multiple companies can be authorized and selected using the Equipment data for drop-down (**Exhibit 26**). The default company is determined by selection when entering EHV (**Exhibit 2**). You must have the EHV Billed Party permission to download Fleet Stats that exceed 200 cars.

**Exhibit 26. Equipment data for Drop-Down (for multiple company authorized users)**

**Exhibit 27. Fleet Stats (collapsed)**
Note: Each directory can be expanded to show the breakdowns (Exhibit 28). You can paste a list (up to 500) or specify a range of Equipment IDs in the left Equipment Filter field. See Exhibit 40 and Exhibit 42.

Information provided about the fleet (for company name) includes:

- **Equipment Status**—Shows number of cars in fleet (expands to Active, Pre-Registered, and Inactive).
- **Marks**—Expands to show marks included in company.
- **Equipment Group**—Shows the counts of cars (expands by Equipment Groups in company).
- **EHMS Alerts**—Shows the number of alerts (this shows three cars, expands to show the types of alert).
- **Early Warning Type**—Expands to show early warnings (EW) and maintenance advisories (MA).
- **DDCT Incidents**—Expands to show DDCT incidents by Rule number.
- **Inspection Past Due**—Shows total Umler overdue inspections (expands to show inspections by type).
- **Restricted from I/C**—Shows the Umler car counts restricted from interchange (expands to show X and Y categories).
- **Conflicts**—Shows number of cars in conflict (expands to Conflicts and Info Conflicts).

The default Fleet Stats Export Jobs is blank. A Refresh icon at the lower left of the Export Jobs table enables you to refresh the display for new queries that have finished processing. The newest query is at the top of the display. When the table contains more than four jobs, a scroll bar is provided at the right (Exhibit 39).
### Exhibit 28. Fleet Stats (fully expanded except for Marks)

#### Fleet Stats

<table>
<thead>
<tr>
<th>Select</th>
<th>Item Count</th>
<th>Equip Count</th>
<th>Export</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment Status</td>
<td>80005</td>
<td>90035</td>
<td></td>
</tr>
<tr>
<td>Active</td>
<td>97109</td>
<td>97159</td>
<td></td>
</tr>
<tr>
<td>Pro-registered</td>
<td>886</td>
<td>886</td>
<td></td>
</tr>
<tr>
<td>Inactive</td>
<td>780</td>
<td>780</td>
<td></td>
</tr>
<tr>
<td>Marks</td>
<td>80005</td>
<td>90035</td>
<td></td>
</tr>
<tr>
<td>Equipment Groups</td>
<td>80025</td>
<td>80065</td>
<td></td>
</tr>
<tr>
<td>BOXC</td>
<td>2741</td>
<td>8741</td>
<td></td>
</tr>
<tr>
<td>CSS</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>CONT</td>
<td>1029</td>
<td>1029</td>
<td></td>
</tr>
<tr>
<td>COTD</td>
<td>6522</td>
<td>6522</td>
<td></td>
</tr>
<tr>
<td>FLAT</td>
<td>3755</td>
<td>3755</td>
<td></td>
</tr>
<tr>
<td>GOND</td>
<td>13669</td>
<td>13669</td>
<td></td>
</tr>
<tr>
<td>HOPP</td>
<td>45044</td>
<td>45044</td>
<td></td>
</tr>
<tr>
<td>IFIT</td>
<td>9753</td>
<td>9753</td>
<td></td>
</tr>
<tr>
<td>LOC0</td>
<td>7181</td>
<td>7181</td>
<td></td>
</tr>
<tr>
<td>NSIC</td>
<td>4705</td>
<td>4705</td>
<td></td>
</tr>
<tr>
<td>PSQR</td>
<td>42</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>STWH</td>
<td>40</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>TANK</td>
<td>458</td>
<td>458</td>
<td></td>
</tr>
<tr>
<td>VFLT</td>
<td>878</td>
<td>878</td>
<td></td>
</tr>
<tr>
<td>EUMS Alerts</td>
<td>102627</td>
<td>98989</td>
<td></td>
</tr>
<tr>
<td>ADD-C</td>
<td>451</td>
<td>352</td>
<td></td>
</tr>
<tr>
<td>THO-C</td>
<td>172</td>
<td>163</td>
<td></td>
</tr>
<tr>
<td>TRD-W</td>
<td>13337</td>
<td>10551</td>
<td></td>
</tr>
<tr>
<td>WLD-G</td>
<td>3163</td>
<td>3723</td>
<td></td>
</tr>
<tr>
<td>WLD-M</td>
<td>72</td>
<td>72</td>
<td></td>
</tr>
<tr>
<td>WLD-D</td>
<td>13604</td>
<td>11633</td>
<td></td>
</tr>
<tr>
<td>WLD-W</td>
<td>69458</td>
<td>34661</td>
<td></td>
</tr>
<tr>
<td>ERWA</td>
<td>2049</td>
<td>2012</td>
<td></td>
</tr>
<tr>
<td>EN</td>
<td>191</td>
<td>1940</td>
<td></td>
</tr>
<tr>
<td>NA</td>
<td>1087</td>
<td>1084</td>
<td></td>
</tr>
<tr>
<td>DOCT Incidents</td>
<td>725</td>
<td>725</td>
<td></td>
</tr>
<tr>
<td>Rule 1</td>
<td>340</td>
<td>340</td>
<td></td>
</tr>
<tr>
<td>Rule 55</td>
<td>165</td>
<td>165</td>
<td></td>
</tr>
<tr>
<td>Rule 107</td>
<td>212</td>
<td>212</td>
<td></td>
</tr>
<tr>
<td>Rule 103</td>
<td>5</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Inspections Fail Due</td>
<td>8111</td>
<td>8111</td>
<td></td>
</tr>
<tr>
<td>AFT 56 VR</td>
<td>1765</td>
<td>1765</td>
<td></td>
</tr>
<tr>
<td>Door Lube</td>
<td>2328</td>
<td>2328</td>
<td></td>
</tr>
<tr>
<td>Restricted from UC</td>
<td>6193</td>
<td>6193</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>4199</td>
<td>4199</td>
<td></td>
</tr>
<tr>
<td>Y</td>
<td>1555</td>
<td>1555</td>
<td></td>
</tr>
<tr>
<td>Conflicts</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

#### Fleet Stats Export Jobs

No export jobs found for you.
Simple Filter

This section describes an example of a simple fleet stats filtering process. By expanding Equipment Groups, you can see that there are 42 passenger cars and 458 tank cars in the company and you want to see activity pertaining to Equipment IDs for the two groups.

1. Expand the Equipment Groups directory (Exhibit 29).

Exhibit 29. Simple Unfiltered Query for Tank Cars in RAIL (company mark)

Exporting Stats (up to 200)

2. Select the Export icon at the far right of PSGR. Since the number of Equipment IDs is 42, the following confirmation panel is displayed (Exhibit 30).
Viewing Fleet Statistics

**Exhibit 30. Export Fleet Stats CSV File Confirmation (no charge)**

If you are unsure about the export, select **Cancel**. Otherwise, select **OK**. The Fleet Stats Export Jobs table shows the job IN_PROGRESS. When the processing is complete, an e-mail is sent to your SSO profile e-mail address (similar to Exhibit 33). Continue with Downloading/Viewing Results on page 31.

### Exporting Stats (Over 200)

**Note:** Unauthorized users are not allowed to export files over 200 equipment IDs (Exhibit 31). Authorized users are charged a per record fee for filtered or unfiltered exports of over 200 Equipment IDs (refer to the Railinc Price List for more information). You must have the EHV Billed Party permission to download Fleet Stats that exceed 200 cars. Upon selecting export, a panel indicates the estimated cost for the export and allows you to continue or cancel the export (Exhibit 32).

3. Select the Export icon ( ) at the far right of TANK.
   a. If you do not have the required EHV Billed Party role, the following confirmation panel is displayed (Exhibit 31).

**Exhibit 31. Export Fleet Stats CSV File Confirmation (unauthorized)**

Select **OK** to close the panel. Request SSO permission as needed.
b. If you have the required EHV Billed Party role, the following confirmation panel is displayed (Exhibit 32).

**Exhibit 32. Export Fleet Stats CSV File Confirmation (with estimated cost)**

If you are unsure about the export (or its cost), select Cancel. Otherwise, select OK. The Fleet Stats Export Jobs table shows the job IN PROGRESS. When the processing is complete, an e-mail is sent to your SSO profile e-mail address (Exhibit 33).

**Exhibit 33. Export Completion Notification E-Mail**

Continue with Downloading/Viewing Results on page 31.

**Downloading/Viewing Results**

4. Go to the Fleet Stats Export Jobs table at the bottom of the Fleet Stats page and locate the exported job (Exhibit 34).
5. Select the download icon ( ). The File Download panel is displayed (Exhibit 35).

Exhibit 35. File Download (for Fleet Stats Reports)

6. Choose one of the following options:
   a. To save the CSV file in a specified location, select Save. The Save As panel is displayed. Navigate to the directory where the report is to be saved, rename as needed, and select Save. The file is saved in the selected location.
   b. To open the file immediately for viewing on the File Download panel, select Open. An Explorer page opens with the zipped file displayed (Exhibit 36).

Exhibit 36. Explorer Page (with zipped Fleet Stats Report file)
7. Double-click the file to open. The file opens in your spreadsheet application (Exhibit 37).

Exhibit 37. Simple Query (with data for first 20 TANK records shown in Excel)

The query results appear in the order determined by the various databases accessed. The layout of the data and sources are shown in Exhibit 38. Scroll to the right to view additional data. There can be multiple lines for each Equipment ID in the spreadsheet. Sorting by Equipment Initial and Number can make evaluation of each car's data simpler.

Exhibit 38. Fleet Stats Spreadsheet Layout (Excel column headings shown)

<table>
<thead>
<tr>
<th>Column</th>
<th>Label</th>
<th>Column</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Equipment Initial</td>
<td>AC</td>
<td>Umler FRA Locomotive Date Done</td>
</tr>
<tr>
<td>B</td>
<td>Equipment Number</td>
<td>AD</td>
<td>Umler Locomotive RCL Due Date</td>
</tr>
<tr>
<td>C</td>
<td>Umler Status</td>
<td>AE</td>
<td>Umler Locomotive RCL Scheduled Date</td>
</tr>
<tr>
<td>D</td>
<td>Umler SMOW</td>
<td>AF</td>
<td>Umler Locomotive RCL Date Done</td>
</tr>
<tr>
<td>E</td>
<td>Umler Equip Type Code UMET</td>
<td>AG</td>
<td>Umler Locomotive Periodic Due Date</td>
</tr>
<tr>
<td>F</td>
<td>Umler Equipment Group</td>
<td>AH</td>
<td>Umler Locomotive Periodic Scheduled Date</td>
</tr>
<tr>
<td>G</td>
<td>Umler Conflicts B050</td>
<td>AI</td>
<td>Umler Locomotive Periodic Date Done</td>
</tr>
<tr>
<td>H</td>
<td>Umler Info Conflicts B355</td>
<td>AJ</td>
<td>Umler Annual Locomotive Due Date</td>
</tr>
<tr>
<td>I</td>
<td>Umler Restricted from Interchange TCME</td>
<td>AK</td>
<td>Umler Annual Locomotive Scheduled Date</td>
</tr>
<tr>
<td>J</td>
<td>Umler Restricted from Interchange Reason TCMR</td>
<td>AL</td>
<td>Umler Annual Locomotive Date Done</td>
</tr>
<tr>
<td>K</td>
<td>Umler ABT Inspection Dt Dn</td>
<td>AM</td>
<td>Umler QMi Daily Due Date</td>
</tr>
<tr>
<td>L</td>
<td>Umler ABT 12 Mo Due Dt</td>
<td>AN</td>
<td>Umler QMi Daily Scheduled Date</td>
</tr>
<tr>
<td>M</td>
<td>Umler ABT 5/8 Yr Due Dt</td>
<td>AO</td>
<td>Umler QMi Daily Date Done</td>
</tr>
<tr>
<td>N</td>
<td>Umler AFMC Due Date</td>
<td>AP</td>
<td>Umler Reflectorization Date Done</td>
</tr>
<tr>
<td>O</td>
<td>Umler AFMC Scheduled Date</td>
<td>AQ</td>
<td>Umler Flat Car Date Done</td>
</tr>
<tr>
<td>P</td>
<td>Umler AFMC Date Done</td>
<td>AR</td>
<td>EHMS Alert Type</td>
</tr>
<tr>
<td>Q</td>
<td>Umler Autorack Certification</td>
<td>AS</td>
<td>EHMS Alert Level</td>
</tr>
<tr>
<td>R</td>
<td>Umler Autorack Due Date</td>
<td>AT</td>
<td>EHMS Alert Date</td>
</tr>
<tr>
<td>S</td>
<td>Umler Autorack Date Done</td>
<td>AU</td>
<td>EHMS Alert Date EHMS Location</td>
</tr>
<tr>
<td>T</td>
<td>Umler Autorack Repair Date Done</td>
<td>AV</td>
<td>EW Notice Type</td>
</tr>
<tr>
<td>U</td>
<td>Umler Car Grade</td>
<td>AW</td>
<td>EW Notice Number</td>
</tr>
<tr>
<td>V</td>
<td>Umler Cab Signals Due Date</td>
<td>AX</td>
<td>EW Effective Date</td>
</tr>
<tr>
<td>W</td>
<td>Umler Cab Signals Scheduled Date</td>
<td>AY</td>
<td>EW Expiration Date</td>
</tr>
<tr>
<td>X</td>
<td>Umler Cab Signals Date Done</td>
<td>AZ</td>
<td>DDCT Rule 1</td>
</tr>
<tr>
<td>Y</td>
<td>Umler Door Lube Due Date</td>
<td>BA</td>
<td>DDCT Rule 95</td>
</tr>
<tr>
<td>Z</td>
<td>Umler Door Lube Date Done</td>
<td>BB</td>
<td>DDCT Rule 107</td>
</tr>
<tr>
<td>AA</td>
<td>Umler FRA Locomotive Due Date</td>
<td>BC</td>
<td>DDCT Rule 108</td>
</tr>
<tr>
<td>AB</td>
<td>Umler FRA Locomotive Scheduled Date</td>
<td>BD</td>
<td>Last Move Date (from Event Repository)</td>
</tr>
</tbody>
</table>
8. (optional) Use the spreadsheet tools to sort the data to cluster the Equipment IDs for easier viewing (Exhibit 45). Removing duplicates Equipment IDs within the spreadsheet can also help with obtaining accurate "counts".

9. When you have finished viewing the data:

   a. Save the data file (and any customizations) using the spreadsheet Save function and close the spreadsheet application window.

   or

   b. Close the spreadsheet application window without saving.

The query remains available in the Fleet Stats Export Jobs table for 60 days. After five or more queries have been run, the table displays a scroll bar (Exhibit 39). The most recent export is always at the top of the table.

Exhibit 39. Fleet Stats Report Job (with more than four queries)

Filtered Queries

Filtering can be done several ways:

- Based on Equipment IDs
- Based on Category
- Based on Equipment ID and Category

Based on Equipment IDs

If you are responsible for a group of equipment identified by IDs, you can paste up to 500 of those IDs into the Equipment Filter field, or you can enter the IDs individually or in ranges separated by commas. Exhibit 40 shows a range entry. Exhibit 42 shows a pasted entry after filtering.
When you have made the appropriate entries, select **Filter**. Of the original 460 pieces of equipment in this fleet, only 51 are in the specified Equipment ID range in the Filtered Results panel **at the right** (Exhibit 41). Of those 51 cars, data was identified in the EW/MA, Inspections Past Due, Restricted from I/C, and Conflict categories. You can choose to export the entire 51 cars, or just those in the categories of concern.
You can type over the Equipment filter to examine other Equipment IDs or ranges (or the next 500 of a known set pasted). Results are shown in Filtered Results at the right (Exhibit 42).

Exhibit 42. Fleet Stats with Pasted Equipment ID list (after filtering)
Based on Category

This is an example of a filtered query, where multiple characteristics are being sought in the output. A pool manager for "tank cars" wants to know if any of the tank cars are restricted from interchange.

**Hint:** Start the query on the left by selecting the *smallest* of the two criteria (TANK = 458, Restricted = 6101) to give the fewest possible results. To compare results entered in the opposite order, see Filter Based on Reversed Category on page 39.

1. Set up the query on left portlet of the Fleet Stats page by expanding the Equipment Groups directory and checking TANK.
2. Select **Filter**. The resultant query would appear as shown in **Exhibit 43**. Only the yellow highlighted entries will be included in the export (when the corresponding export icon in the right portlet is selected).

**Exhibit 43. Filtered Query (tank cars with expanded restricted from I/C at right)**
3. In the filtered right portlet, expand Restricted from I/C. This shows 51 tank cars (of the original 458) are restricted from interchange. Further, there are 16 in the X category, and 35 in the Y category.

4. Select the export icon ( ) beside Restricted from I/C. You see the same panels and receives e-mails as for the simple queries. Refer to Step 2 beginning on page 29 through Step 7. When the report is displayed, it might look as shown in Exhibit 44.

**Exhibit 44. Fleet Stats Report (sorted for restricted tanks—in Excel spreadsheet)**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Equipment</td>
<td>Equipment</td>
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<td>A</td>
<td>X</td>
<td>A</td>
<td>X</td>
<td>A</td>
<td>X</td>
<td>A</td>
</tr>
</tbody>
</table>

This file contained almost 150 lines of data for the 51 tank cars, but only 51 lines show the restrictions for I/C.

The sort used in this Excel spreadsheet is shown in Exhibit 45.

**Exhibit 45. Spreadsheet Sort Example**

5. When you have finished viewing the data, save or close as described in the last section.

6. To modify the existing query (for example to check box cars that are have restrictions for I/C issues), deselect TANK on the left portlet and select BOXC and Filter. Expand the Restricted from I/C on the right and export.

7. To create another new filtered query from scratch, select Clear. The left portlet clears for a new query.
Filter Based on Reversed Category

1. Alternatively, set up the query on left portlet of the Fleet Stats page by checking Restricted from I/C (the directory expands and the two values are automatically selected).

   **Note:** When a main directory checkbox is selected, the directory opens with ALL entries checked.

2. Select **Filter**. The resultant query would appear as shown in **Exhibit 46** with 6101 for the filtered restricted equipment count.

   **Exhibit 46. Filtered Query (cars restricted from I/C with Equipment Group expanded at right)**

3. Expand the Equipment Groups directory at the right. Note that the number of tank cars with restrictions is 51 (same as shown in **Exhibit 43**). However, there is no breakdown by the X and Y categories. Export the TANK selection. You can download and sort as described in the previous section.
Based on Equipment ID and Category

Exhibit 47 is an example of a combined query using Equipment Filter of 100 Equipment IDs and DDCT Rule 107 category. This can be the most efficient method of confining the number of expected results.

Exhibit 47. Fleet Stats Equipment ID and Category Filtering

The results are limited to 2 Equipment IDs from an initial group of 100 Equipment IDs entered. Export and Save or View as described previously.
Accessing the User Guide

To open the user guide for Equipment Health View, select User Guide from the menu bar. The user guide opens in a new browser window (Exhibit 48). You can view, search, or print the user guide.

When finished, close the browser window (×) to return to the Home page.

Exhibit 48. Equipment Health View User Guide

Note: Other reference materials (webinar slides, demos, and FAQs) are also available on the Railinc web portal at https://www.railinc.com/rportal/equipment-health-view.
Glossary

AAR—Association of American Railroads

DDCT—Damaged and Defective Cat Tracking system. A damaged car is one governed by Interchange Rule 107. Such cars are badly damaged or destroyed. A defective car is one governed by Interchange Rule 108. Such cars require general repairs in excess of 36 hours including trucks or 25 hours excluding trucks.

Early Warning—System that handles AAR notices for Early Warnings and Maintenance Advisories against railroad equipment.

EHMS—Equipment Health Management System.

Equipment Health View (EHV)—A dashboard-style application that provides data from several Railinc applications regarding the health status for specified equipment IDs.

Event Repository—Railinc database of train movements and billing data.

Fleet Stats—The data in the Fleet Statistics report may not contain the most recent events related to the equipment. The intent of this report is to provide equipment owners with information related to their fleet and not for day to day operations. Refer to Railinc's Terms of Service for further information on use of data.

Mileage—Mileage information from the Event Repository. Can also show mileage and dates of component application.

Repair Service—Railinc process that sends data from EHV to corresponding Railinc system.

Umler®—Universal Machine Language Equipment Register (UMLER)
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