# Overview of the Umler® Component Registry

Presenter: Tracy Brewer

October 2024

# General Announcements

- Welcome

- Webinar Reminders
    - Attendees will be muted to reduce background noise.
    - Submit any questions you have via the Q&A box.
    - The presentation is expected to last 35 minutes.
    - During presentation, Component Registry may be referred to as Component Tracking and Component IDs may be referenced as CIDs.

- Please complete the survey at the end of the presentation

# Webinar Objectives

After this webinar, attendees will be able to:

- Access the Umler Component Registry

- Register Components
  - View Component Details
  - Edit Components
  - Delete Components

- Associate Components
  - Nullify Associations

- Query Components
  - Pre-Defined Queries
  - Advanced Query

# What Is Component Registry?

- The Component Registry product (commonly referred to as Component Tracking) is a technology tool for capturing data around railcar equipment components.

- The Component Registry provides rail industry participants visibility into rail equipment health and performance, enabling managers to make decisions that improve rail safety, reduce costs associated with equipment maintenance, and run more efficient and effective rail operations.
  - Reporting on wheel repairs
  - Wheelset Components
  - Bolsters
  - Side Frames
  - Couplers
  - Cushioning Unit
  - Brake Valves (Service & Emergency)
  - Slack Adjusters
  - Pressure Relief Valve

# Benefits of Component Registry

The Component Registry gives repair shops and equipment owners visibility into equipment and component health status and history, enabling them to identify wear and failure trends as well as defective components. This visibility delivers three primary benefits:

1.  **Safety:** The industry will achieve greater visibility into current and historical health status of rail equipment at the component level.

2.  **Productivity:** Tracking CID information from manufacture to application results in recalls being issued faster.

3.  **Reduced Costs:** Ensure more targeted recalls and reduce administrative burdens associated with recalls.

# Users of Component Registry

Who uses the Component Registry and what can they do?

- **Wheel Shops:** Query and review tagged CIDs.  Access higher quality data on CIDs that they refurbish.

- **Repair Shops:** Apply registered CIDs.  Query applied and removed CID details.

- **Equipment Owners:** Improve equipment productivity and fleet maintenance. Validate billing more effectively.

- **Third-Party Software Providers:** Integrate component registry capabilities with their products.

- **Original-Equipment Manufacturers (OEM):** Improve visibility into equipment and component health status and history. Request special reports and get greater insight into the quality and failure rate of the components.
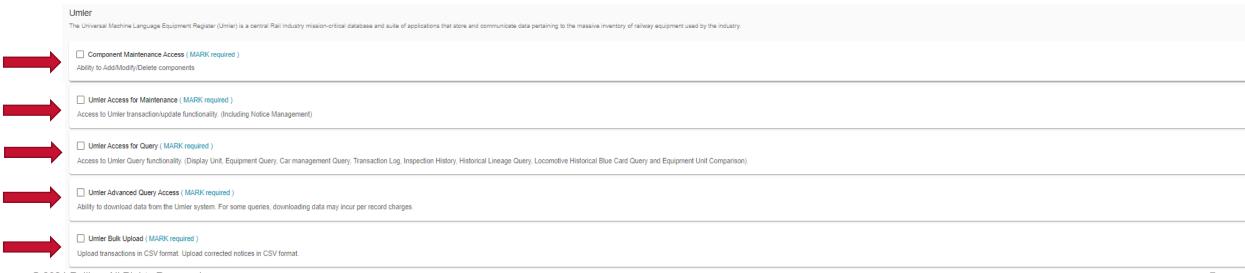
# Umler Component Registry User Roles

**RAILINC**

SSO Umler/Component Registry Access – **Full Component Registry access**

### Umler
The Universal Machine Language Equipment Register (Umler) is a central Rail Industry mission-critical database and suite of applications that store and communicate data pertaining to the massive inventory of railway equipment used by the industry.

☐ Component Maintenance Access ( MARK required )

Ability to Add/Modify/Delete components

☐ Umler Access for Query ( MARK required )

Access to Umler Query functionality. (Display Unit, Equipment Query, Car management Query, Transaction Log, Inspection History, Historical Lineage Query, Locomotive Historical Blue Card Query and Equipment Unit Comparison).

SSO Umler Permissions /Component Access - **Full Umler/Component Registry access**

### Umler
The Universal Machine Language Equipment Register (Umler) is a central Rail Industry mission-critical database and suite of applications that store and communicate data pertaining to the massive inventory of railway equipment used by the industry.

☐ Component Maintenance Access ( MARK required )

Ability to Add/Modify/Delete components

☐ Umler Access for Maintenance ( MARK required )

Access to Umler transaction/update functionality. (Including Notice Management)

☐ Umler Access for Query ( MARK required )

Access to Umler Query functionality. (Display Unit, Equipment Query, Car management Query, Transaction Log, Inspection History, Historical Lineage Query, Locomotive Historical Blue Card Query and Equipment Unit Comparison).

☐ Umler Advanced Query Access ( MARK required )

Ability to download data from the Umler system. For some queries, downloading data may incur per record charges.

☐ Umler Bulk Upload ( MARK required )

Upload transactions in CSV format. Upload corrected notices in CSV format.

# Umler Component Registry User Permission Roles

**RAILINC**

| SSO Umler / Component Registry Access – **Full Component Registry Access** |
| :---: |

- **Component Maintenance Access** – able to register, modify, associate or delete CIDs
- **Umler Access for Query** – able to use query functions

| SSO Umler Permissions / Component Access – **Full Umler / Component Registry Access** |
| :---: |

- **Component Maintenance Access** – able to register, modify, associate or delete CIDs
- **Umler Access for Maintenance** – able to add, change, modify, delete equipment, report inspections
- **Umler Access for Query** – able to use query functions
- **Umler Advanced Query** – able to download query results into a CSV
- **Umler Access for Bulk Upload** – able to upload mass adds/changes/deletes via CSV

# Umler Component Registry User Roles

# Component Registrations

- Companies have three ways to register a Component ID (CID):

| Component Registry Web User Interface (UI) | CSV Upload | Component Tracking Web Services* |
|---|---|---|
| • Input one component at a time (i.e., wheelset) | • Enter multiple component transactions at a time | • Real-time transactional integration<br><br>*Using web services will allow Wheel Shops to automate reporting of information through their own systems* |

# Welcome to Umler Component Registry

# Search/Register Components
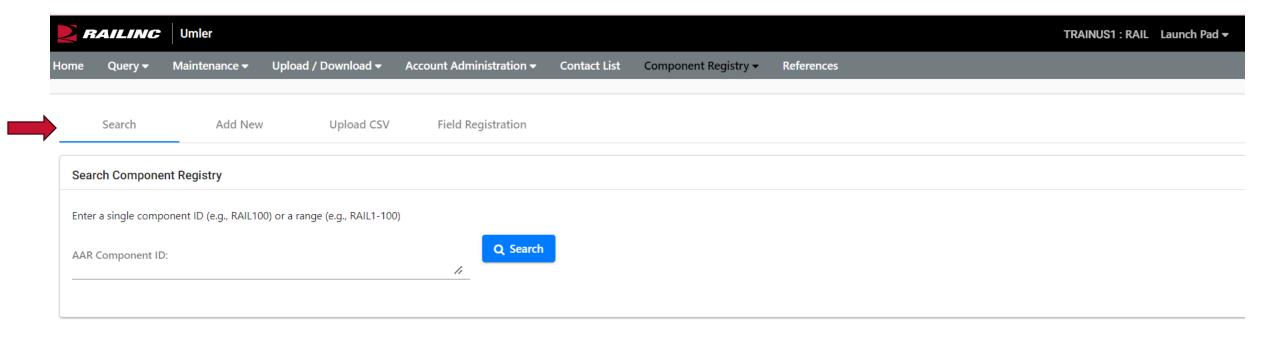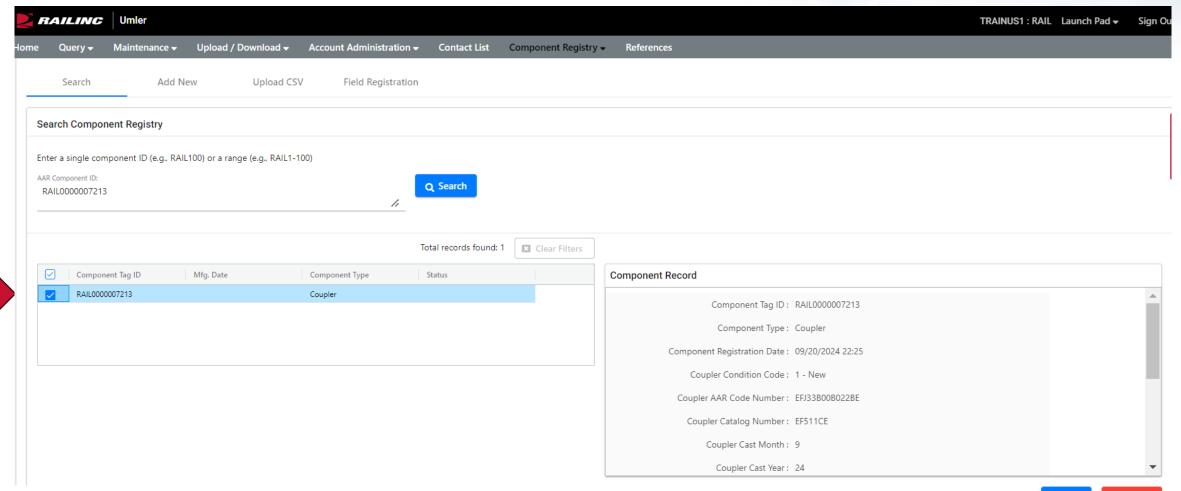
# Search Components

- Component IDs consist of a four-character Company code plus 10 numerics
- The Company Code is assigned to a Mark/Company ID and its defined location

# Search/Edit Component ID

# View/Edit Component ID

# Search/Delete Component ID
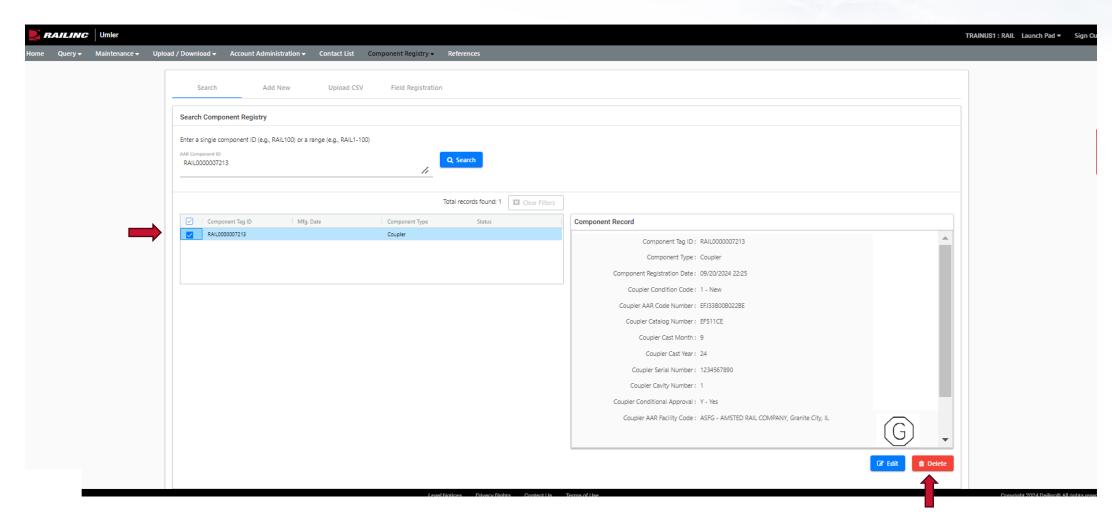
# View/Delete Component ID

# Register Component

- Enter Component ID number you want to register and select Component Type

# Register Component

- Fill in the data for each required element and click Save.

- Any company that registers a component has the ability to query and view the details that they have registered for 90 days.

# Register/Edit Component ID

# Field Registration/Search of Component ID

- Select the Component Type you want to Field Register. Enter the minimum amount of required data to search

# Field Register Component ID

- If no matching component is found, select Register to continue registering the Component

# Field Register Component ID

- Fill in the mandatory elements that have an asterisk

- Always use the Calendar icons to select dates

- Use the drop-down lists if provided

# Field Register Component ID

- If the validation is successful, the application generates a unique component ID
- All field registered components will begin with 8RIC (couplers, wheelsets, etc.)

# Associate Component ID to Equipment

- Any authorized user can associate a component to an equipment record.

- This reporting can be done using the Web UI or through Railinc's Car Repair Billing or Equipment Health Management System using Repair Services.

# Associate Component ID to Equipment

**RAILINC**

Associate Component | Upload CSV

## Search for Equipment ID

Note: Use Nullify only to remove an association that was entered incorrectly. Use Associate to associate a component to a piece of equipment.

Equipment ID

RAIL6184

**Q Search**

| | | | |
|---|---|---|---|
| Equipment Group: | BOXC | | Equipment Type Code: | A403 |
| Mechanical Designation: | XP | 2 | |
| Umler Owner: | RAIL | 4 | Stenciled Shipping Spec: |

BOLSTER

COUPLER

CUSHIONING UNIT

BRAKE VALVE CONTROL EMERGENCY

PRESSURE RELIEF VALVE

BRAKE VALVE CONTROL SERVICE

## Select Component for Association

# Associate Component ID to Equipment

# Associate Component ID to Equipment

# View Details (after Association)

Coupler: 8RIC0003550769  Location: B  Car Number: RAIL6184

| Coupler: 8RIC0003550769  Location: B  Car Number: RAIL6184 | |
| --- | --- |
| Condition | New |
| Foundry Facility | AMSTED RAIL COMPANY, Granite City, IL |
| Trademark |  |
| Reconditioner Foundry Facility | |
| Cast Month/Cast Year | 8/24 |
| Catalog Number | EF511CA |
| Serial Number | 8766541 |
| Cavity Number | 23 |

**OK**

# Associate Component - Duplicate Warning

# View All Associated Component IDs

- To view all Component IDs associated to a piece of equipment, type in the Equipment ID and click search. Then, in the component type drop down menu, select View All.

# View All Associated Component IDs

- Once the Component is associated to an Equipment ID, the Component is considered a part of the equipment and all details regarding the component are available to the Stenciled Mark Owner.

- Components associated to multiple Equipment IDs will appear with a red icon symbol and the other associated Equipment IDs.

# Save As PDF/Print - View All Associated Components

- Users can print/Save As PDF any components they associated to equipment.

- Owners can print/Save Ad PDF all components associated to their equipment using View All.

# Equipment with Component ID Conflicts

- From the Umler Homepage, on the bottom right side of the screen, notice there is a link that will take users to the Equipment with Component ID conflicts.

- CID conflicts are Informational ONLY.

- CID conflicts alone will not restrict a car from movement or via interchange.

- Duplicate components will require physical verification of the CID that is associated to the equipment.

- Without physical verification, owners cannot be certain if the component listed in Umler is the same as on the actual equipment.

- To resolve component ID conflicts, the car owner that confirms the component ID is not physically on their railcar, should nullify the incorrect association.

- Equipment where there are multiple car owners using the same CID will require additional outreach to multiple owners.

- Please use FindUs.Rail to locate Umler contact information for car owners and/or their agents.

# Nullify CID Association from Equipment

- The equipment owner or the company who associated the Component ID to the equipment can nullify an association

- Select Associate Component

- Enter the Equipment ID and search

# Nullify CID Association from Equipment

# Nullify CID Association from Equipment

# Nullify CID Association from Equipment

# Register Components (via CSV Upload)

- CSV uploads can be used to quickly add multiple components, modify a group of components, or delete a number of Component IDs

- Select link, Retrieve CSV format templates

# Register Components (via CSV Upload)

- The Transaction Type indicates what action the user wants done for each row of information entered

- AC = Add Component, CC = Change Component, DC = Delete Component

# Register Components (via CSV Upload)



**Railinc Component Registry - Your CSV upload file status**

N — NoReply@railinc.com
To ● Brewer, Tracy

Reply | Reply All | Forward

Mon 9/23/2024 4:59 PM

Retention Policy   Inbox - Delete older than 90 days (90 days)        Expires   12/22/2024

3 of 3 records were submitted successfully to Component Registry. See below for details.

Add Component        RAIL0000621700        :COUPLER-1- - -1000000019-Submitted transaction successfully completed.
Add Component        RAIL0000621701        :COUPLER-1- - -1000000019-Submitted transaction successfully completed.
Add Component        RAIL0000621702        :COUPLER-1- - -1000000019-Submitted transaction successfully completed.

# Register Edit/Delete Components (via CSV Upload)

- A single upload file can contain all three types of transactions

- Edit transactions require a Component ID and only those fields with changes



| | A | B | C | D | E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | TransactionType | ComponentID | ComponentType | COUPLER-C601 | COUPLER-C602 | COUPLER-C603 | COUPLER-C604 | COUPLER-C605 | COUPLER-C606 | COUPLER-C607 | COUPLER-C608 | COUPLER-C609 |
| 2 | AC | RAIL0000621703 | COUPLER | 1 | 96 | FROTARY | 9 | 24 | 563476 | 11 | Y | CHOT |
| 3 | CC | RAIL0000621701 | COUPLER | | 82 | | | | | | | |
| 4 | DC | RAIL0000621702 | COUPLER | 1 | 96 | FR210E | 9 | 24 | 563378 | 11 | Y | CHOT |

Search          Add New          Upload CSV          Field Registration

Browse files to find a components CSV

Filename.csv: [Choose File] No file chosen          Retrieve csv format templates

☑ Submit

Railinc Component Registry - Your CSV upload file status

NoReply@railinc.com
To  Brewer, Tracy                                                                    Mon 9/23/2024 5:25 PM
Retention Policy  Inbox - Delete older than 90 days (90 days)          Expires  12/22/2024
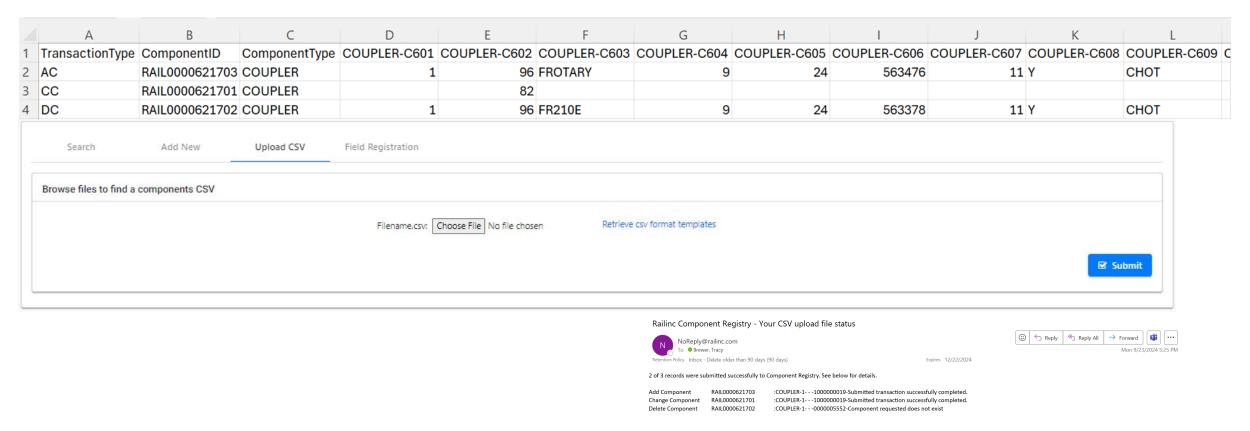
2 of 3 records were submitted successfully to Component Registry. See below for details.

Add Component          RAIL0000621703          :COUPLER-1- - -1000000019-Submitted transaction successfully completed.
Change Component       RAIL0000621701          :COUPLER-1- - -1000000019-Submitted transaction successfully completed.
Delete Component       RAIL0000621702          :COUPLER-1- - -0000005552-Component requested does not exist

# Associate Components or Nullify Associations (via CSV Upload)



- Transaction types CA = Component Association and CN = Nullify Association can be submitted in the same file



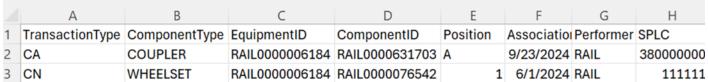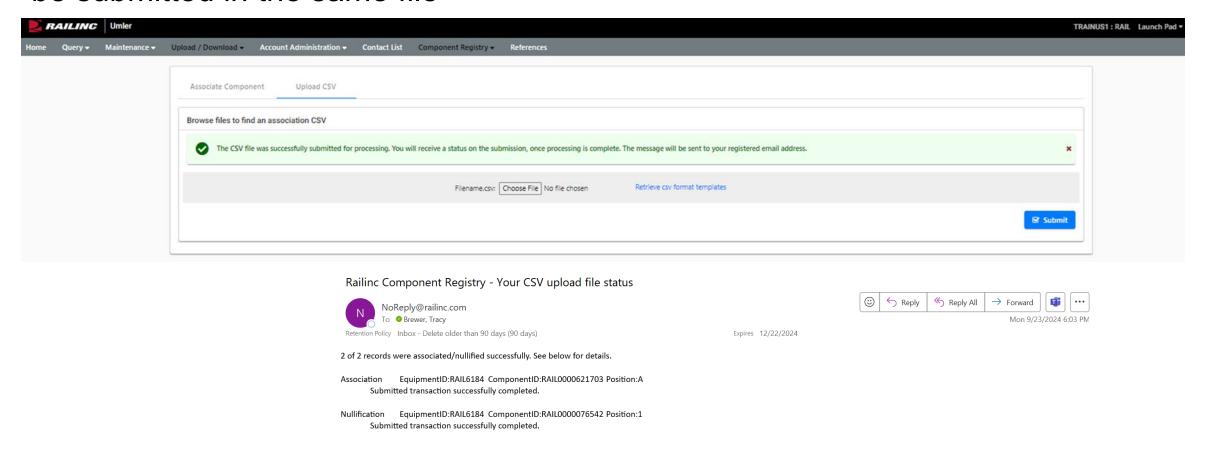|   | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| 1 | TransactionType | ComponentType | EquipmentID | ComponentID | Position | Associatio | Performer | SPLC |
| 2 | CA | COUPLER | RAIL0000006184 | RAIL0000631703 | A | 9/23/2024 | RAIL | 380000000 |
| 3 | CN | WHEELSET | RAIL0000006184 | RAIL0000076542 | 1 | 6/1/2024 | RAIL | 111111 |

# Associate Components or Nullify Associations (via CSV Upload)

- Transaction types CA = Component Association and CN = Nullify Association can be submitted in the same file
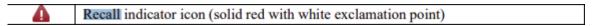
# Component Registry Reminders

- Field Registered CIDs start with '8RIC' – regardless of the shop/company.

- Repair Shops that associate the CID have up to 90 days to view the association details.

- The component ID conflicts are informational only and will not restrict the car at interchange.

- The component conflict can be cleared once another component is associated to either car. It may also be cleared if either association is nullified.

- Component IDs consist of a four-character Company code plus 10 numerics. If a Company Reporting Mark is 2 or 3 characters, don't forget to allow for the extra space(s) before entering the 10-digit number.  (i.e., AAR 0123456789)
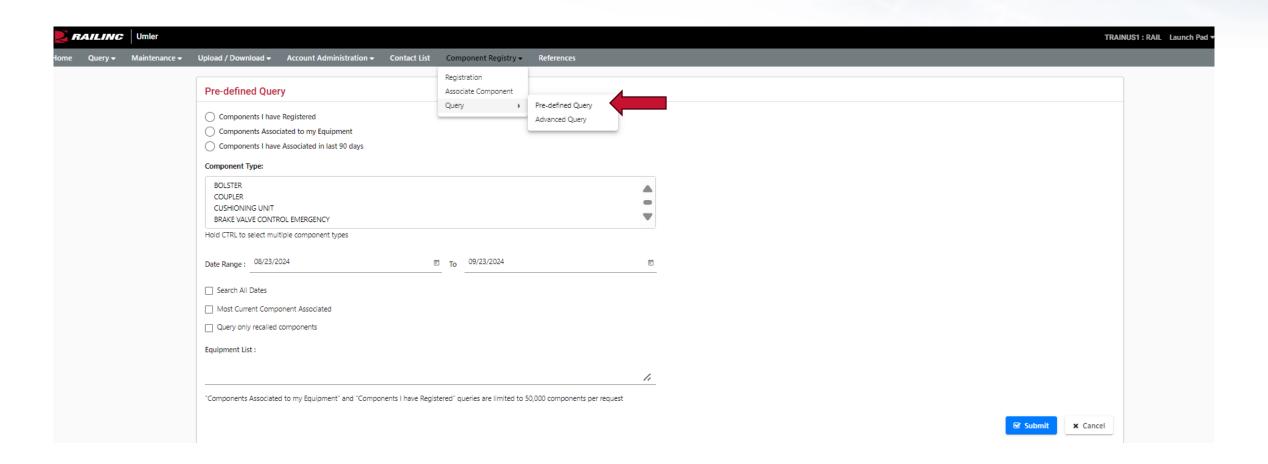
# Query Recalled Components

- Railinc will maintain component details through existing systems that support criteria related to recall requests.

- If a recall is requested, Railinc will identify all equipment with components that match the recall criteria and provide this information to the AAR, which will file an Equipment Advisory for inspection of the component identified for recall.

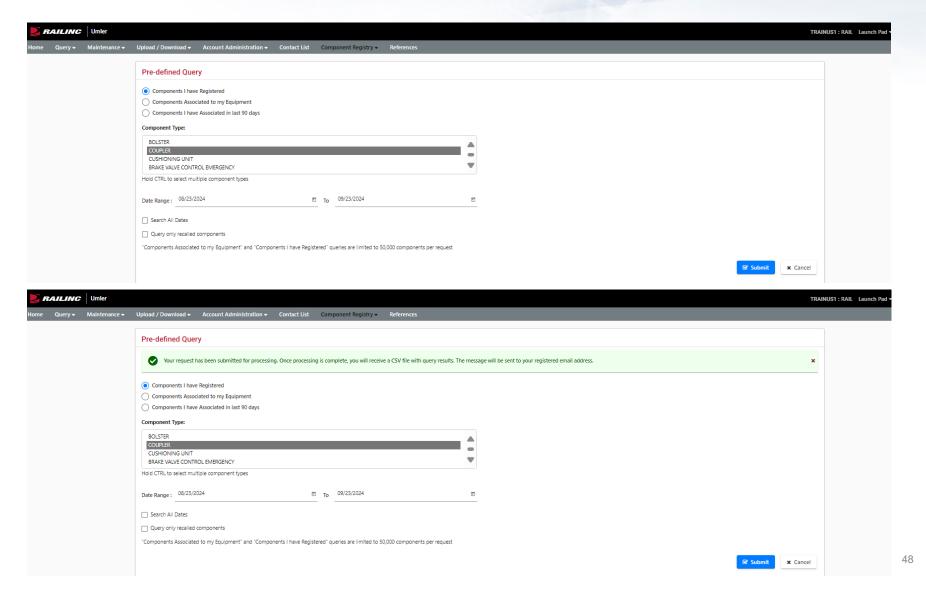| ⚠ | **Recall** indicator icon (solid red with white exclamation point) |

# Query Components/Predefined Query

# Predefined Query (Components I Have Registered)

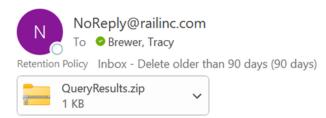- User must select the specific query, Component Type and Date range when using Pre-Defined Queries.

# Predefined Query (Components I Have Registered)

**Your Registered Components**

N  NoReply@railinc.com

To  ● Brewer, Tracy

Reply | Reply All | Forward

Mon 9/23/2024 7:10 PM

Retention Policy  Inbox - Delete older than 90 days (90 days)

Expires  12/22/2024

📁 QueryResults.zip
1 KB

Your query has resulted in 11 records.

Please see the attachment below for the Components you have registered.

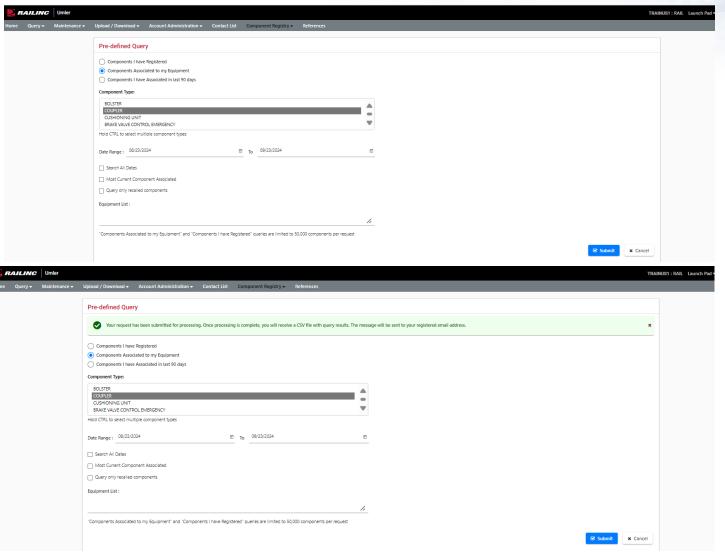| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Transacti | ComponentID | ComponentTy | Componer | Componer | Partial Reg | Component Regis | Coupler Cc | Coupler AAR Code | Coupler Catalog N | Coupler Cast | Coupler Ca | Coupler Serial I | Coupler Ca | Coupler | Coupler |
| 2 | CC | 8RIC0003550016 | COUPLER | | | P | 9/12/2024 16:25 | | | 2930344 | 3 | 22 | 2230204318 | | | ASFG |
| 3 | CC | 8RIC0003550017 | COUPLER | | | P | 9/12/2024 16:26 | | | 298330 | 1 | 22 | 440492092 | | | BDPM |
| 4 | CC | 8RIC0003550025 | COUPLER | | | P | 9/12/2024 16:38 | | | C123456AA | 12 | 10 | 868530 | 12 | | WCNG |
| 5 | CC | 8RIC0003550026 | COUPLER | | | P | 9/12/2024 16:38 | 1 | | C123456AA | 12 | 21 | 868530 | 12 | | WCNG |
| 6 | CC | 8RIC0003550027 | COUPLER | | | P | 9/12/2024 16:38 | 2 | | C123456AA | 12 | 21 | 868530 | 12 | | WCNG |
| 7 | CC | 8RIC0003550042 | COUPLER | | | P | 9/12/2024 17:47 | 1 | | E32524 | 9 | 24 | 2557747444 | 11 | | ASFG |
| 8 | CC | RAIL0000007213 | COUPLER | | | | 9/21/2024 2:25 | 1 | EFJ33B00B022BE | EF511CE | 9 | 24 | 1234567890 | 1 | Y | ASFG |
| 9 | CC | 8RIC0003550769 | COUPLER | | | P | 9/21/2024 4:26 | 1 | | EF511CA | 8 | 24 | 8766541 | 23 | N | ASFG |
| 10 | CC | RAIL0000621700 | COUPLER | | | | 9/24/2024 0:59 | 1 | 96 | FROTARY | 9 | 24 | 563476 | 11 | Y | CHOT |
| 11 | CC | RAIL0000621701 | COUPLER | | | | 9/24/2024 1:24 | 1 | 82 | FR201E | 9 | 24 | 563278 | 11 | Y | CHOT |
| 12 | CC | RAIL0000621703 | COUPLER | | | | 9/24/2024 1:24 | 1 | 96 | FROTARY | 9 | 24 | 563476 | 11 | Y | CHOT |

# Predefined Query (Components Associated to My Equipment)

# Predefined Query (Components Associated to My Equipment)



## Components Associated to Your Equipment

**NoReply@railinc.com**
To: Brewer, Tracy

☺ | ↩ Reply | ↩ Reply All | → Forward | [Teams] | ···

Mon 9/23/2024 7:15 PM

Retention Policy: Inbox - Delete older than 90 days (90 days)

Expires 12/22/2024

📁 QueryResults.zip
1 KB

Your query has resulted in 6 records.

Please see the attachment below for the Components associated to your Equipment.

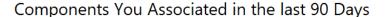| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Transactio | ComponentID | Componer | Compc | Compc | Partial Reg | Component Registratio | Coupler ( | Coupler A/ | Coupler Ca | Coupler Ca | Coupler Ca | Coupler Serial Nur | Coupler Ca | Coupler Co | Coupler A/ | Coupler H | Coup |
| 2 | CC | 8RIC0003546924 | COUPLER | | | P | 8/7/2024 0:52 | | | 3.73E+08 | 3 | 20 | | | | CKCR | | |
| 3 | CC | 8RIC0003550016 | COUPLER | | | P | 9/12/2024 16:25 | | | 2930344 | 3 | 22 | 2230204318 | | | ASFG | | |
| 4 | CC | 8RIC0003550017 | COUPLER | | | P | 9/12/2024 16:26 | | | 298330 | 1 | 22 | 440492092 | | | BDPM | | |
| 5 | CC | 8RIC0003550042 | COUPLER | | | P | 9/12/2024 17:47 | 1 | | E32524 | 9 | 24 | 2557747444 | 11 | | ASFG | | |
| 6 | CC | 8RIC0003550769 | COUPLER | | | P | 9/21/2024 4:26 | 1 | | EF511CA | 8 | 24 | 8766541 | 23 | N | ASFG | | |
| 7 | CC | RAIL0000621703 | COUPLER | | | | 9/24/2024 1:24 | 1 | 96 | FROTARY | 9 | 24 | 563476 | 11 | Y | CHOT | | 13 |

# Predefined Query (Components I Have Associated in the Last 90 Days)

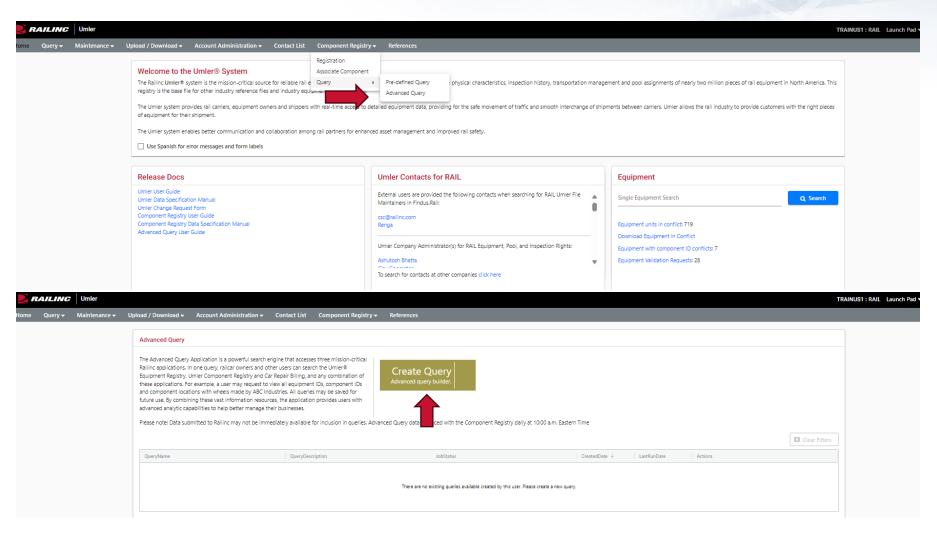# Predefined Query (Components I Have Associated in the Last 90 Days)



Components You Associated in the last 90 Days

N  NoReply@railinc.com
To ● Brewer, Tracy

Reply | Reply All | Forward

Mon 9/23/2024 7:18 PM

Retention Policy  Inbox - Delete older than 90 days (90 days)

Expires  12/22/2024

QueryResults.zip
1 KB

Your query has resulted in 8 records.

Please see the attachment below for Components you have associated in the last 90 days

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Transactio | ComponentID | Componer | Comp | Comp | Partial Reg | Component Registratio | Coupler Co | Coupler A | Coupler Catalo | Coupler Ca | Coupler Ca | Coupler Ser | Coupler Ca | Coupl | Coupler A | Coupler | Coupler | Coupl |
| 2 | CC | 8RIC0003545048 | COUPLER | | | P | 7/17/2024 22:02 | | | 882727272 | 3 | 20 | | | | ASFA | | | |
| 3 | CC | 8RIC0003545048 | COUPLER | | | P | 7/17/2024 22:02 | | | 882727272 | 3 | 20 | | | | ASFA | | | |
| 4 | CC | 8RIC0003546924 | COUPLER | | | P | 8/7/2024 0:52 | | | 373384849 | 3 | 20 | | | | CKCR | | | |
| 5 | CC | 8RIC0003550016 | COUPLER | | | P | 9/12/2024 16:25 | | | 2930344 | 3 | 22 | 2230204318 | | | ASFG | | | |
| 6 | CC | 8RIC0003550017 | COUPLER | | | P | 9/12/2024 16:26 | | | 298330 | 1 | 22 | 440492092 | | | BDPM | | | |
| 7 | CC | 8RIC0003550042 | COUPLER | | | P | 9/12/2024 17:47 | 1 | | E32524 | 9 | 24 | 2.558E+09 | 11 | | ASFG | | | |
| 8 | CC | 8RIC0003550769 | COUPLER | | | P | 9/21/2024 4:26 | 1 | | EF511CA | 8 | 24 | 8766541 | 23 | N | ASFG | | | |
| 9 | CC | RAIL0000621703 | COUPLER | | | | 9/24/2024 1:24 | 1 | 96 | FROTARY | 9 | 24 | 563476 | 11 | Y | CHOT | 13 | 8899 | |

# Advanced Query

# Advanced Query

# Advanced Query

# Advanced Query

# Advanced Query



## Advanced Query

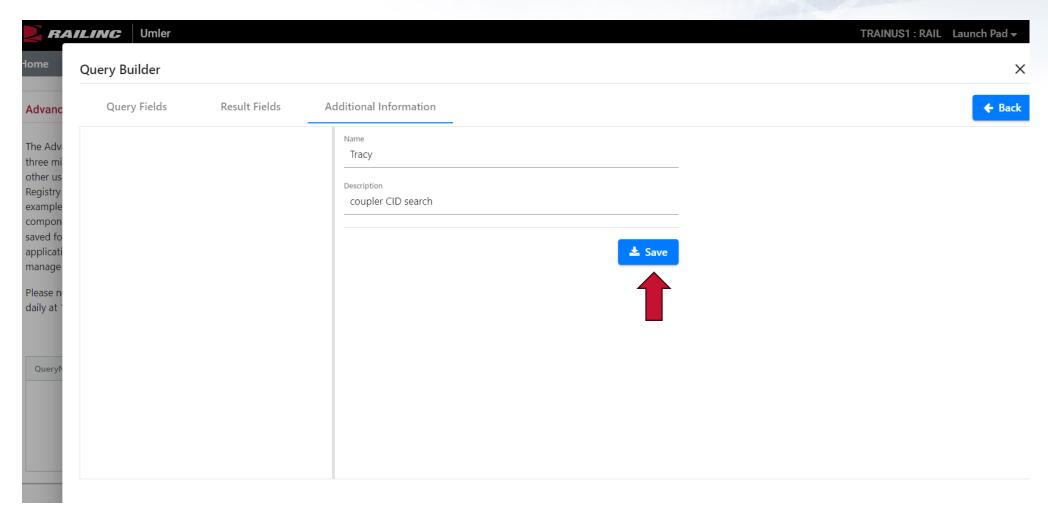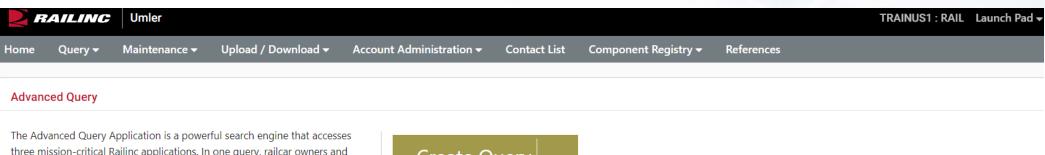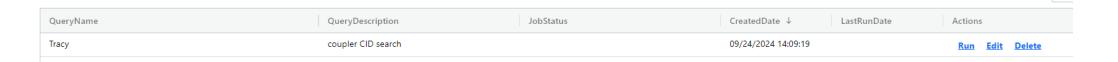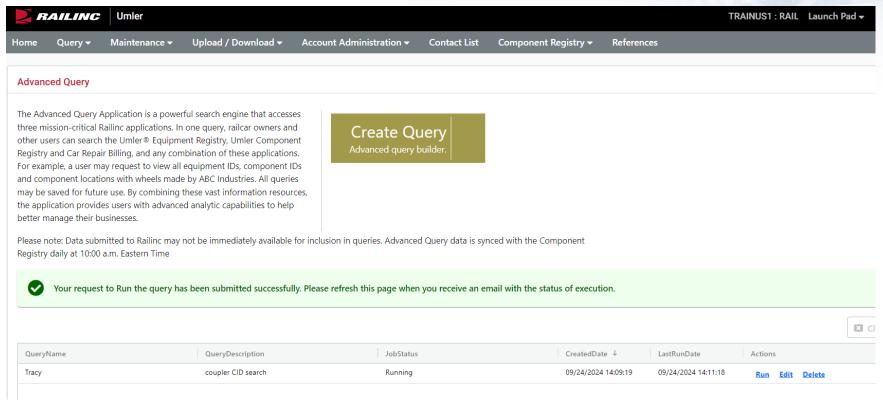The Advanced Query Application is a powerful search engine that accesses three mission-critical Railinc applications. In one query, railcar owners and other users can search the Umler® Equipment Registry, Umler Component Registry and Car Repair Billing, and any combination of these applications. For example, a user may request to view all equipment IDs, component IDs and component locations with wheels made by ABC Industries. All queries may be saved for future use. By combining these vast information resources, the application provides users with advanced analytic capabilities to help better manage their businesses.

**Create Query**
Advanced query builder.

Please note: Data submitted to Railinc may not be immediately available for inclusion in queries. Advanced Query data is synced with the Component Registry daily at 10:00 a.m. Eastern Time

| QueryName | QueryDescription | JobStatus | CreatedDate ↓ | LastRunDate | Actions |
|---|---|---|---|---|---|
| Tracy | coupler CID search | | 09/24/2024 14:09:19 | | Run  Edit  Delete |

# Advanced Query

# Advanced Query

# Advanced Query

# Component Tracking Web Services Integration

- Web services is a method of system-to-system communication that takes place outside of the manual updating via the web user interface.

- If your company is interested in the technical specifications for integrating your products with the Umler Component Registry, please contact the Railinc Customer Success Center at 877-724-5462 or csc@railinc.com.

- See the Railinc Price List for applicable fees.

# Common Questions & Answers

**Q:** Am I charged for running queries in the Component Registry?

**A.** No, there are no query fees associated with Component Registry.

**Q:** Is there a way to see if a component ID is associated to a car?

**A:** The Advanced Query tool can be used to pull back the Equipment ID if the CID is associated to your equipment.

**Q:** If I need to nullify an association beyond 90 days, how can that be done?

**A:** The Umler Product Support team can assist with nullifications beyond 90 days.

**Q:** How can I resolve Equipment with Component ID conflicts?

**A:** Users can contact the Stenciled Mark Owner (using FindUs.Rail) to inquire if the component ID in conflict is physically associated to their equipment. If the Owner confirms there's a different CID associated than what is listed in Umler/Component Registry, the incorrect association should be nullified.

# User Guide and Data Specifications Manual

# Access the Component Tracking Resource Page

Go to www.railinc.com.

# Industry Products

# Component Tracking Resource Page

# What's Upcoming for Component Registry

- Customer Satisfaction Survey **– September 23rd - October 7th**

- Q4 2024 Umler Release **– December 5th**

- 2025 Component Tracking Data Quality Improvements Project

- New Component types coming in 2025/2026:
  - Vacuum Relief Valve
  - Rupture Disc Device
  - Combination Device

# Railinc Customer Success Center

- The Railinc Customer Success Center (CSC) provides reliable, timely and high-level support for Railinc customers. Specialists are available to answer calls and respond to emails from 7:00 a.m. to 7:00 p.m. (ET), Monday through Friday.

- Contact the Railinc Customer Success Center at csc@railinc.com or 877-724-5462.

*Railinc Keeps You Moving.*

**Railinc Customer Support**

1-877-724-5462
csc@railinc.com

RAILINC

@Railinc    /railinc    /railinc1    www.railinc.com