

Welcome to Railinc's Umler Training Resources

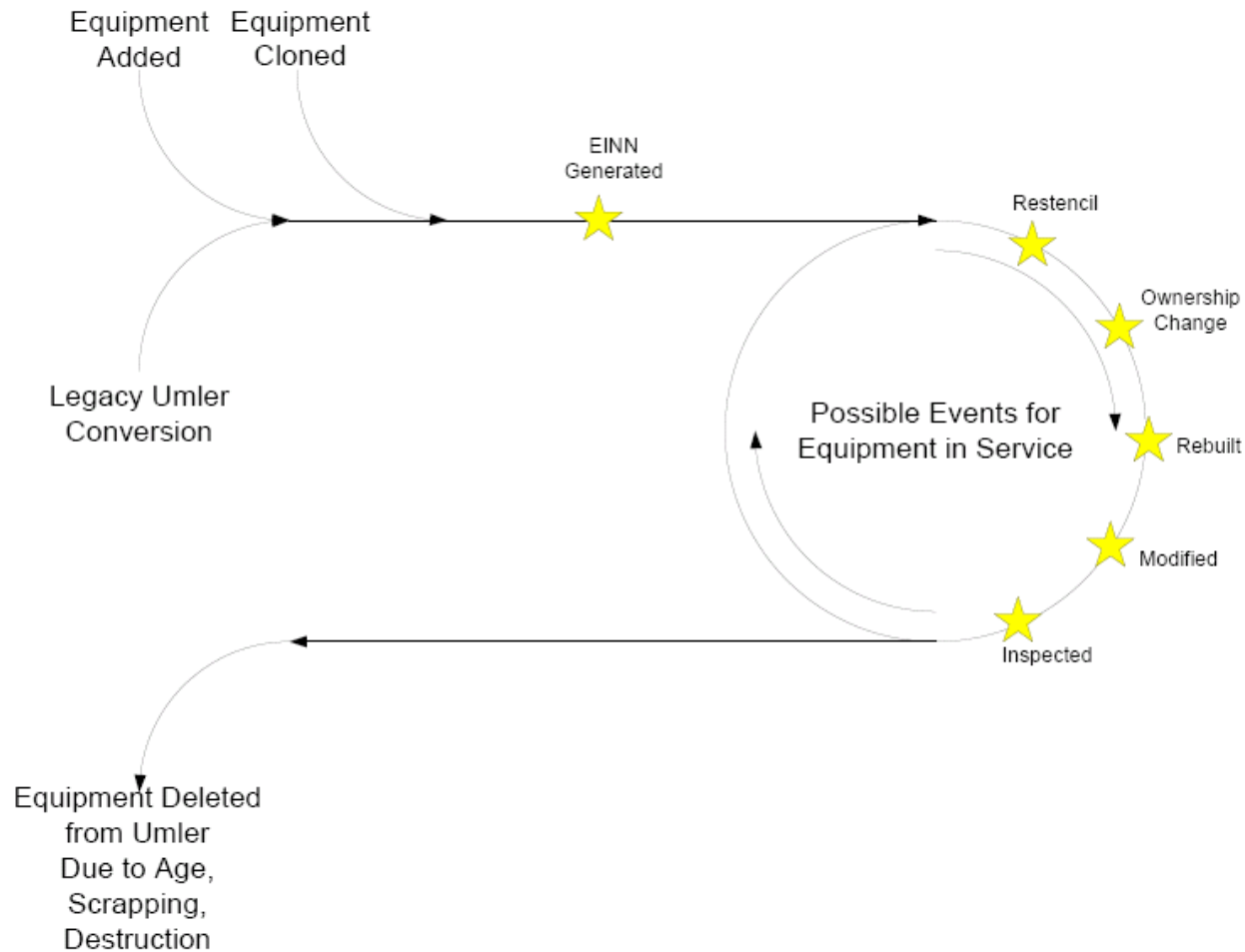
- Training Module Series
 - Umler: Getting Started
 - **Umler: Core Functions 1**
 - Umler: Core Functions 2
 - Umler: Administration Functions
- Training Module Slide Sets
- Web demos on Railinc.com

Umler: Core Functions 1 Agenda

- Introduction & Review
- Lifecycle of Piece of Equipment
- Add/Clone Equipment
- Modify Equipment
- Restencil Equipment
- Query Equipment
- Summary

Introduction

Lifecycle of Piece of Equipment



Equipment Status

Pre-registered – Equipment being built that is not yet active

Active – The Umler record defines a physical car with the matching equipment ID stenciled on the asset

Inactive – Umler records for equipment that do not carry a matching stencil mark.

Add Equipment Records to Umler

Users add equipment records to Umler through one of the following methods;

- Add – equipment is added from scratch
- Clone – Equipment is copied from an existing record. Any actual differences are recorded before submitting to Umler.
- Restencil – Creates a new equipment record for the new equipment id with a link to prior equipment id. Records share the same EIN.

Add/Clone Equipment Records

The Add/Clone web demo provides an overview of how to add equipment from scratch and how to copy a record to create a new equipment record.

The User Guide and specification manual are important tools to assist user in completing this type of transaction.

Requires the 'Add Equipment' right

Umler Equipment Management Information System

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Clone Equipment

✓ Validation succeeded. Click the Submit button to go to the next screen.

*Source Equipment ID:

*New Equipment ID(s):

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Clone Equipment

[Validate](#) [Submit](#) [Reset](#) [Clear](#) [Suspend](#) [Cancel](#)New Equipment ID(s): [Collapse All](#) [Expand All](#)

Source Equipment ID: BNSF0000010001 Equipment Group: BOXC

[General](#) [Weight](#) [Dimension](#) [Door](#) [Specification](#) [Feature](#) [CarManagement](#) [Train_Service](#) [Truck_Components](#) [Draft_System_Components](#) [Unit_Segment_Components](#) [Miscellaneous](#) [Inspection](#)

General

Element Name	ID	Flag	Source	Del	Value	Error
Status Code	USCD	P			P - PRE-REGISTER	
Mechanical Designation	UMMD	XL			XL - Box-Non-Insulat	
Equipment Type Code	UMET	A432				
Built Date	BLDT	Confidential				
Rebuilt Date	RBDT	Confidential				
Rebuilt Flag	RBFL	Confidential				
Owner	UMOW	BNSF				
Lessee	LESE					
Maintenance Party	MNPT	BNSF			BNSF	
Mark Owner Category	B201					
Prior Equipment ID	PRID					
Original Cost	A184	Confidential				usd
Ind for Pos/Neg A&B	A128	Confidential				
Addition & Betterment	A003	Confidential				usd
Ledger Value	A150	Confidential				usd

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Add/Clone Equipment Records


When adding equipment records, there are certain data types to consider;

- Mandatory data
- Data used in Rating
- System Generated Elements
- Data used to generate ETC Codes
- Confidential Data

Mandatory Data

Axle Count	Outside Extreme Height
Axle Spacing Distance	Outside Extreme Width
Brake Shoe Type	Outside Height Extreme
Built Date	Width Outside Length
Coupler Style	Plate Code
Draft Gear Type	Status Code
Gross Rail Load/Gross Weight	Tare Weight
Journal Size	Umler Owner
Load Limit	Weighing Status
Mechanical Designation	Wheel Bearing Type

Mandatory Data

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Add Equipment

Validate | Submit | Reset | Clear | Suspend | Cancel

*Equipment ID (s):

Equipment Group: Number of Equipment Units:

[General](#) [Weight](#) [Dimension](#) [Door](#) [Specification](#) [Feature](#) [CarManagement](#) [Train_Service](#) [Truck_Components](#) [Draft_System_Components](#) [Unit_Segment_Components](#) [Miscellaneous](#) [Inspection](#)

- General

Element Name	ID	Flag	Value	Error
Status Code	USCD		<input type="text" value="P - PRE-REGISTERED"/>	
Mechanical Designation	UMMD		<input type="text"/>	
Equipment Type Code	UMET		<input type="text"/>	
Built Date	BLDT		<input type="text"/>	
Rebuilt Date	RBDT		<input type="text"/>	
Rebuilt Flag	RBFL		<input type="text"/>	
Owner	UMOW		<input type="text"/>	

Mandatory Data

Built Date *Mandatory*

BLDT

The date the construction of the equipment is complete. For tanks, this is the date of the underframe

Data is Confidential. Used for Transportation Codes. Affects Rating. Value does not carry forward for SingleClone MultiClone.

Valid Range of Date Values for BLDT

Minimum	Maximum
1/1/1900	12/31/9999

Validation Rules for BLDT-Built date must be within the last 99 years

For connected unit cars report the oldest car in the set.

Data is confidential for private cars

System Generated Data

Conflict Status
Date of Next Conflict Status
Date of Original Conflict Status
EIN (Equipment Identification Number)
EIN Duplication Flag
Equipment Add Date
Equipment Add Reporter Company
Equipment Type Code
First Movement Date
Inspection Due Date
Last Update Date
Rate Indicator
Rebuilt Flag Status
Change Date Status
Change Reason
Stencil Mark Owner Category/Class
Umler Transportation Code
Umler Transportation Condition Code

System Generated Data

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Add Equipment

[Validate](#) [Submit](#) [Reset](#) [Clear](#) [Suspend](#) [Cancel](#)

*Equipment ID (s):

[Collapse All](#) [Expand All](#) Equipment Group: BOXC Number of Equipment Units: 1

[General](#) [Weight](#) [Dimension](#) [Door](#) [Specification](#) [Feature](#) [CarManagement](#) [Train_Service](#) [Truck_Components](#) [Draft_System_Components](#) [Unit_Segment_Components](#) [Miscellaneous](#) [Inspection](#)

General

Element Name	ID	Flag	Value	Error
Status Code	USCD		<input type="text" value="P - PRE-REGISTERED"/>	
Mechanical Designation	UMMD		<input type="text"/>	
Equipment Type Code	UMET		<input type="text"/>	
Built Date	BLDT		<input type="text"/>	
Rebuilt Date	RBDT		<input type="text"/>	
Rebuilt Flag	RBFL		<input type="text"/>	
Owner	UMOW		<input type="text"/>	

System Generated Data

Status Change Reason

USCR

Identifies the reason for the current operational state

System Generated Field. This element is not eligible for Input. Does not Carry Forward.

Permissible Values for USCR

- I Initial Load
- M Movement
- O Status Changed Manually
- R Restencil

If movement is detected on equipment, status is changed to Active.

If an equipment record is changed to Active, any prior equipment record is placed in Inactive status.

Data used in Rating

Axle Count
Axles Spacing Distance
Built Date
Connected Unit
Count Coupler Style
Draft Gear Type
Gross Rail Load/Gross Weight
Inches of Travel
Journal Size
Outside Extreme Height
Outside Extreme Width
Outside Length
Plate Code
Stability Device Equipped
Star Code
Tare Weight
Truck Center Length
Wheel Bearing Type

Data used in Rating

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Add Equipment

Equipment ID (s):



Equipment Group: Number of Equipment Units:

[General](#) [Weight](#) [Dimension](#) [Door](#) [Specification](#) [Feature](#) [CarManagement](#) [Train_Service](#) [Truck_Components](#) [Draft_System_Components](#) [Unit_Segment_Components](#) [Miscellaneous](#) [Inspection](#)

General

Element Name	ID	Flag	Value	Error
Status Code	USCD		<input type="text" value="P - PRE-REGISTERED"/>	
Mechanical Designation	UMMD		<input type="text"/>	
Equipment Type Code	UMET		<input type="text"/>	
Built Date	BLDT		<input type="text"/>	
Rebuilt Date	RBDT		<input type="text"/>	
Rebuilt Flag	RBFL		<input type="text"/>	
Owner	UMOW		<input type="text"/>	

Data used in Rating

Built Date <i>Mandatory</i>	BLDT
The date the construction of the equipment is complete. For tanks, this is the date of the underframe	 

Data is Confidential. Used for Transportation Codes. Affects Rating. Value does not carry forward for SingleClone MultiClone.

Valid Range of Date Values for BLDT

Minimum	Maximum
1/1/1900	12/31/9999

Validation Rules for BLDT-Built date must be within the last 99 years
For connected unit cars report the oldest car in the set.
Data is confidential for private cars

Data used in ETC Generation

Connected Unit Count
Coupler Style
Cubic Feet Capacity
Draft Gear Type
Inches of Travel
Inside Length/Inside Platform Length
Inside Width/Inside Platform Width
Light Density
Load Limit
Mechanical Designation
Outside Extreme Height
Outside Extreme Width
Outside Length
Platform Height Above Rail
Undercarriage Width

Data used in ETC generation

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Add Equipment

[Validate](#) [Submit](#) [Reset](#) [Clear](#) [Suspend](#) [Cancel](#)

*Equipment ID (s):

[Collapse All](#) [Expand All](#) Equipment Group: **BOXC** Number of Equipment Units: **1**

[General](#) [Weight](#) [Dimension](#) [Door](#) [Specification](#) [Feature](#) [CarManagement](#) [Train_Service](#) [Truck_Components](#) [Draft_System_Components](#) [Unit_Segment_Components](#) [Miscellaneous](#) [Inspection](#)

General

Element Name	CD	Flag	Value	Error
Status Code	USCD		<input type="text" value="P - PRE-REGISTERED"/>	
Mechanical Designation	UMMD		<input type="text"/>	
Equipment Type Code	UMET		<input type="text"/>	
Built Date	BLDT		<input type="text"/>	
Rebuilt Date	RBDT		<input type="text"/>	
Rebuilt Flag	RBFL		<input type="text"/>	
Owner	UMOW		<input type="text"/>	

Data used in ETC Generation

Inside Length/Inside Platform Length <i>Mandatory</i>	A135
The length of the equipment inside walls - or - inside platform length	● ▲

Used in ETC Generation. Online this field is abbreviated as 'Inside Length'.
Displayed in Ft and inches. Stored in inches. Use Total Inches in Equipment
Queries and CSV upload.

Valid Range of Numeric Values for A135

Minimum	Maximum
25 ft 0 inches	93 ft 11 inches

Validation Rules for A135

- Inside Length/Inside Platform Length must be less than or equal to Outside Length
- No Inside Length/Inside Platform Length for Trailer/Container - Bulk Hopper, Tank or Flat (Mechanical Designation of UH, UTK, ZBH or ZTK)

For connected unit cars report the shortest dimension of a unit in the set.

Confidential Data

Addition & Betterment
Autorack Score
Built Date
Ledger Value
Original Certificate of Construction
No.
Original Cost
Rebuilt Date
Rebuilt Flag
Superstructure Addition &
Betterment
Superstructure Built Date
Superstructure Original Cost
Superstructure Rebuilt Date

Confidential Data

[General](#) [Weight](#) [Dimension](#) [Door](#) [Specification](#) [Feature](#) [CarManagement](#) [Train_Service](#) [Truck_Components](#) [Draft_System_Components](#)
[Unit_Segment_Components](#) [Miscellaneous](#) [Inspection](#)

General				
Element Name	ID	Flag	Value	Conflict
Status Code	USCD	🔴	A - ACTIVE	
Mechanical Designation	UMMD	🔴 🚩	XP - Box-Non-Insulated, Specially Equipped for Specific Commodities	
Equipment Type Code	UMET		A402	
Built Date	BLDT	🔴 📅	03/01/1964	
Rebuilt Date	RBDT		03/01/1979	
Rebuilt Flag	RBFL		Y	
Owner	UMOW	🔴	BNSF	
Lessee	LESE			
Maintenance Party	MNPT		BNSF	
Mark Owner Category	B201		U	
Prior Equipment ID	PRID			
Original Cost	A184		Confidential	usd
Ind for Pos/Neg A&B	A128		Confidential	
Addition & Betterment	A003		Confidential	
Ledger Value	A150		Confidential	usd
Last Update Date	B122		02/22/2009	
Equipment Add Date	B082		01/01/1900	
Status Change Reason	USCR		M - Movement	
Status Change Date	USCT		05/21/2008	

Confidential Data

Built Date <i>Mandatory</i>	BLDT
The date the construction of the equipment is complete. For tanks, this is the date of the underframe	

Data is Confidential. Used for Transportation Codes. Affects Rating. Value does not carry forward for SingleClone MultiClone.

Valid Range of Date Values for BLDT

Minimum	Maximum
1/1/1900	12/31/9999

Validation Rules for BLDT-Built date must be within the last 99 years

For connected unit cars report the oldest car in the set.

Data is confidential for private cars

Modify Equipment

The Modify Equipment webdemo provides an overview of making changes to equipment.

- Report changes to physical asset that you need to communicate
- Correct equipment errors or omissions

Requires the 'Modify Equipment' right

The Data Specification manual is designed to assist with specific data element changes

Restencil Equipment

The Restencil equipment demo provides an overview of recording the restencil of a physical asset in the Umler system.

Restencil Equipment

The new Umler system provides restencil capabilities that record equipment changes over time even through ownership changes.

The EIN, or Equipment Identification Number, links equipment records together. This enables inspections and other equipment information to be maintained over time.



RAIL 401 – EIN 945654

AARE 401 – EIN 945654

RAIL 999 – EIN 945654

AARE 123 – EIN 945654

Umler Owner - AARE

Gross Rail Load – 263,000 lbs

Air Brake Inspection – 2/1/2009

Prior Equipment ID – RAIL 999

- RAIL

d – 263,000 lbs

ection – 2/1/2009

ent ID – AARE 401

- AARE

d – 263,000 lbs

ection – 2/1/2009

ent ID – RAIL 401

- RAIL

d – 263,000 lbs

ection – 2/1/2009

ent ID -

Confidential Data is the key to Restencil

As the default, confidential data is only viewable by the Umler Owner and the Stencil Mark Owner

In order to complete restencil, the owner could share confidential data via phone or email

-or-

For large restencil transactions or to automate restencil transactions, provide the receiving mark with the 'View Confidential Data' right.

Restencil – Best Practice

Joe



Ann



JOE 123 – EIN 945654

Built Date – 2/9/2005

Status - Active

Air Brake Inspection – 2/1/2009

Prior Equipment ID –

Restencil – Best Practice

Joe



Ann



JOE 123 – EIN 945654

Built Date – 2/9/2005

Status - Active

Air Brake Inspection – 2/1/2009

Prior Equipment ID –

Restencil – Best Practice

Joe



Ann



JOE 123 – EIN 945654

Built Date – 2/9/2005

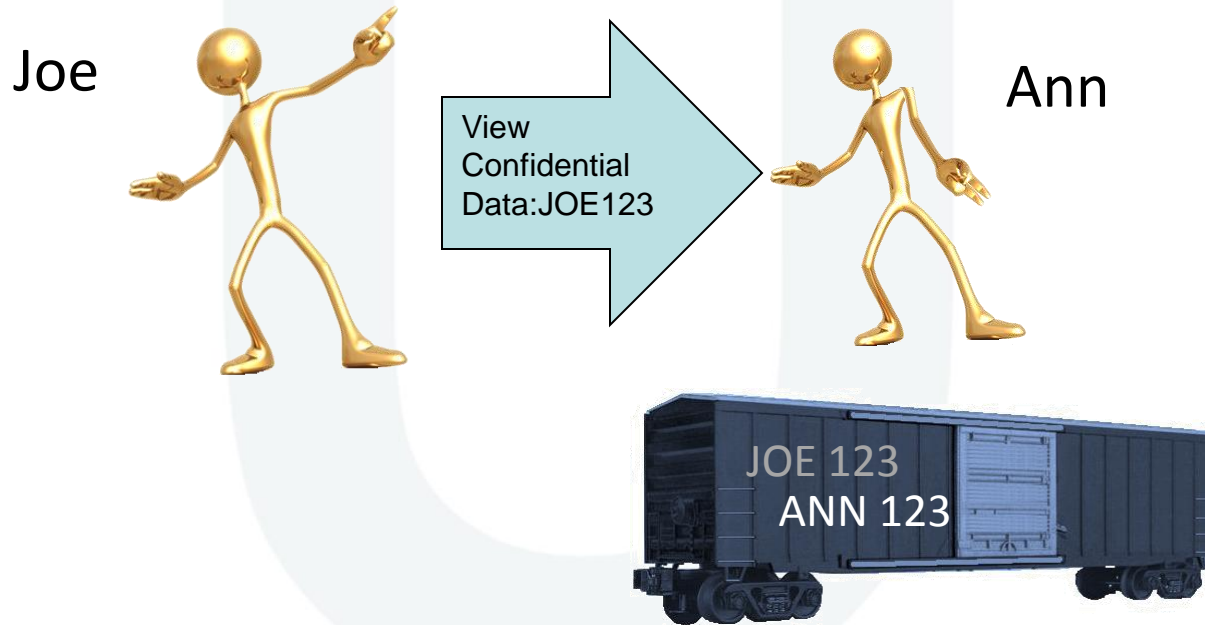
Status - Active

Air Brake Inspection – 2/1/2009

Prior Equipment ID –

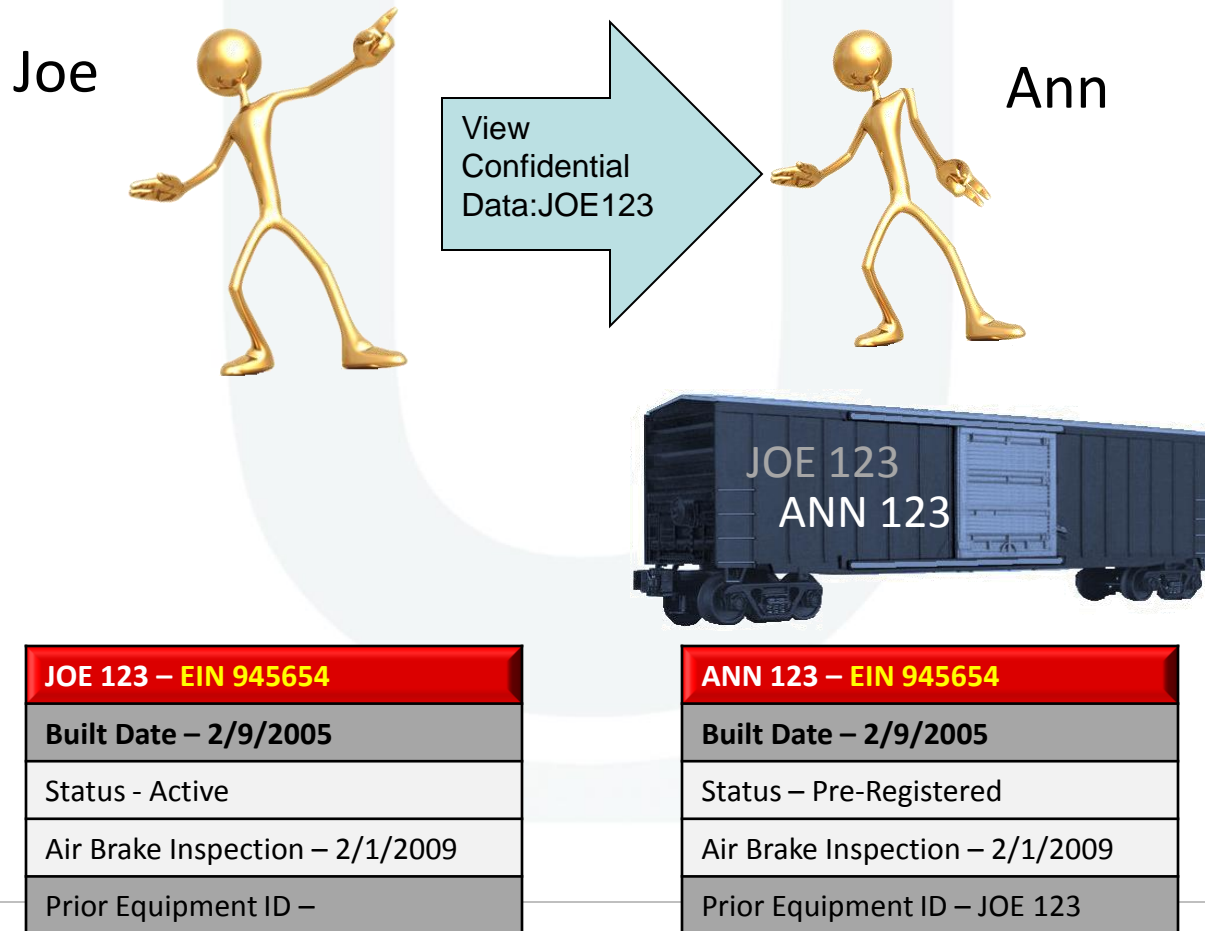
Confidential

Restencil – Best Practice



JOE 123 – EIN 945654
Built Date – 2/9/2005
Status - Active
Air Brake Inspection – 2/1/2009
Prior Equipment ID –

Restencil – Best Practice



Restencil – Best Practice

Joe



Ann



JOE 123 – EIN 945654

Built Date – 2/9/2005

Status – In-Active

Air Brake Inspection – 2/1/2009

Prior Equipment ID –

ANN 123 – EIN 945654

Built Date – 2/9/2005

Status – Active

Air Brake Inspection – 2/1/2009

Prior Equipment ID – JOE 123

Query Equipment

Railinc provides many query options for users of the Umler system;

- Inspection History
- Equipment Query
- Historical Lineage Query
- Transaction Log
- Notice Management

Inspection History Query

Enables users to answer questions;

What equipment in my fleet has inspections due in the next 90 days?

What is the history of inspections on a particular equipment id?

What inspections have been completed in the last 30 days?

Equipment Query

Umler maintains over 500 data elements for equipment in the Umler database.

Each data element increases communications between equipment owners, railroads, and shops to improve safety or operations.

Users can query all registered equipment in the North American fleet


Equipment Query

Users can query all registered equipment in the North American fleet

Comprehensive equipment data provides a central resource for your company to communicate equipment information

Comprehensive equipment data increases the chance that equipment characteristics will stand out for a shippers needs.

Equipment Query as a Launch Pad

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Equipment Query Results

Search Criteria

Search Results

Select one or more equipment IDs, and an action, for pool management/equipment management. You may also click an equipment ID to display it.
15 matches found. 15 available for display. 15 matches displayed on this page.

Select All / Unselect All	Equipment Id	Pool Number	Equipment Group	Equipment Type Code	Mechanical De	
<input type="checkbox"/>						
<input type="checkbox"/>	AARE 100	0000000	GOND	G410	GB	
<input type="checkbox"/>	AARE 101	0000000	BOXC	R510	RBL	
<input type="checkbox"/>	AARE 201	0000000	BOXC	R510	RBL	
<input type="checkbox"/>	AARE 301	0000000	BOXC	R510	RBL	
<input type="checkbox"/>	AARE 401	0000000	BOXC	R510	RBL	
<input type="checkbox"/>	AARE 556	0000000	TANK	T108	T	
<input type="checkbox"/>	AARE 601	0000000	BOXC	R510	RBL	
<input type="checkbox"/>	AARE 777	0000000	HOPP	C313	LO	
<input type="checkbox"/>	AARE 999 	0000000	BOXC	R510	RBL	
<input type="checkbox"/>	AARE 80000	0000000	BOXC	R510	RBL	
<input type="checkbox"/>	AARE 91000	0000000	BOXC	R510	RBL	
<input type="checkbox"/>	AARE 107582	0000000	BOXC	R510	RBL	

Add to pool

Add to pool

Air Brake Test

Autorack Certification

Autorack Inspection

Autorack Repair

Car Grade Inspection

Change Equipment Group

Clone equipment

Delete equipment

Door Lube Inspection

Locomotive Air Brake Inspection

Locomotive Annual Inspection

Locomotive Cab Signals Inspection

Locomotive Inspection Due Date Update

Locomotive Quarterly Inspection

Locomotive RCL Inspection

Locomotive Storage Event

Modify equipment

Reflectorization Event

Remove from pool

Remove lessee

Update equipment maintenance party

Update equipment management codes

Vehicular Flat Car Certification

AARE

OK

Historical Lineage Query

Users can identify all equipment with a shared EIN.

Users can look back at previous ownership to view ETC codes, effective and discontinue dates, and originating transactions (Clone, Add, Restencil).

Transaction Log Query

Users can review every change made to an equipment record.

- When was data changed?
- Who changed the data?
- What was the value previous to change?

Users can now audit and report on updates to data elements.

Notice Management Query

Review all notices provided to system users

- Informational messages
- Warnings
- Errors

Review problems that users are encountering when entering information. Identify why data changes were not made.

More information in Webinar #3

Umler: Core Functions 1 Summary

- Introduction & Review
- Lifecycle of Piece of Equipment
- Add/Clone Equipment
- Modify Equipment
- Restencil Equipment
- Query Equipment
- Summary

Additional Training Resources

- Training Module Series
 - Umler: Getting Started
 - Umler: Core Functions 2
 - Umler: Administration Functions
- Training Module Slide Sets
- Web demos on Railinc.com