

Equipment Health Management System Overview

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Today's Agenda



- **What is EHMS?**
- How Does EHMS Work?
- Alert Types
- Alert Levels
- Walk-Through of EHMS
 - Permissions & Accessing EHMS
 - Querying Cars
 - Closing Alerts
 - Reporting ABT
- New Alerts Coming to EHMS
- Tools
- Helpful Tips
- References

What is EHMS?



- Equipment Health Management System (EHMS) is a web-based application that communicates the condition of railroad equipment and alerts to responsible parties
- EHMS was developed to:
 - Support Equipment Health Management Committee and is helpful to ensure:
 - Safety
 - Damage Prevention
 - Maintenance Opportunities
 - Repair History
 - Reduces costly repairs

What is EHMS?



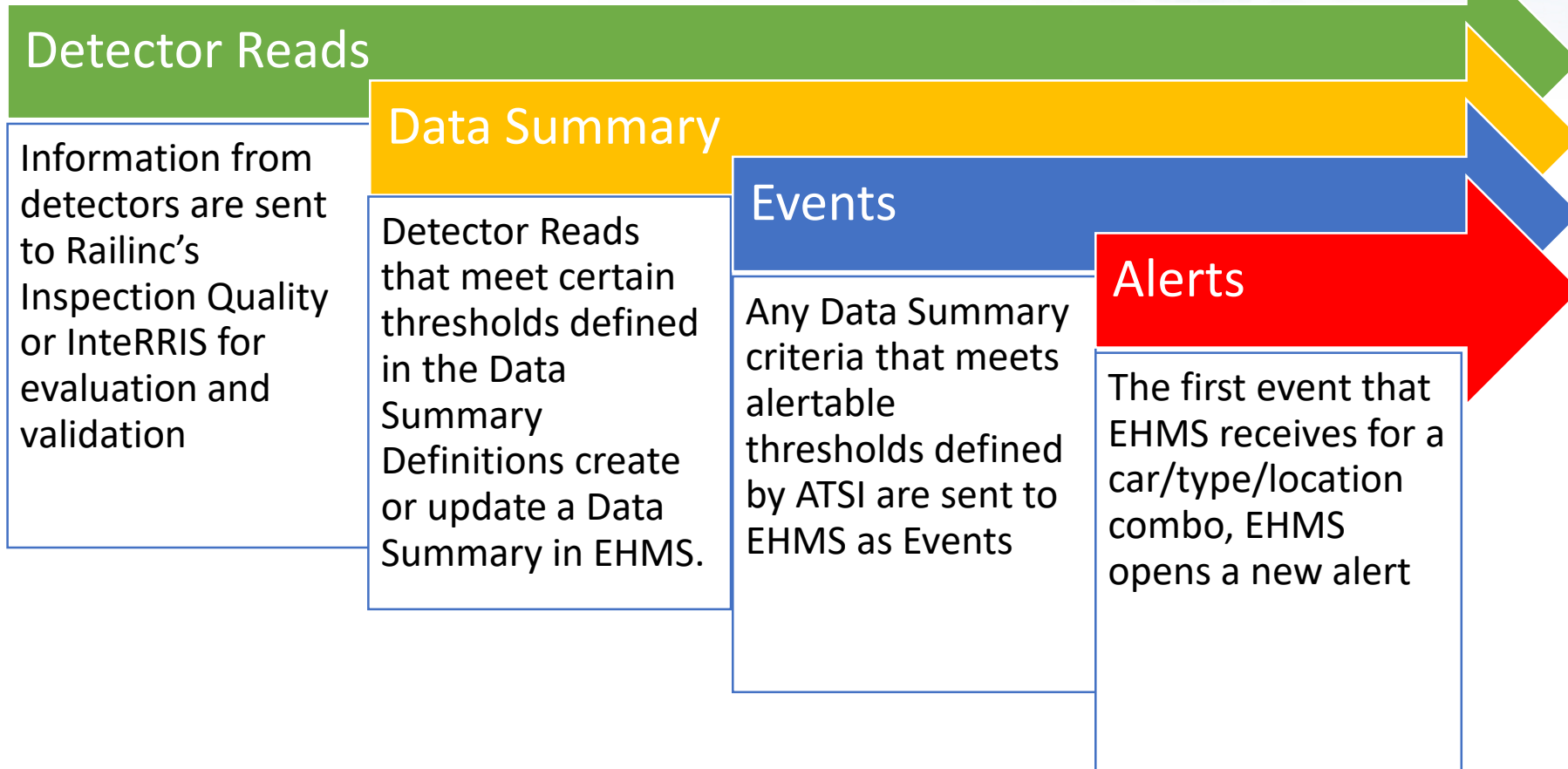
- EHMS contains alert and repair information for all equipment types excluding containers and trailers
- Utilizes information pertaining to Field Manual of the AAR Interchange Rules 3, 36, 37, 41, 43, 44 & 63
 - Rule 94 is the specific EHMS rule and is located in Office Manual of the AAR Interchange Rules
- Supports upload of calibration records per Appendix F of the Field Manual of the AAR Interchange Rules

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How EHMS Works?



Today's Agenda



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- New Highlights
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- Helpful Tips
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Different Alert Types



- **ABD** - Acoustic Bearing Detector
- **AEIMISMATCH** – Automatic Equipment Identification - Mismatch
- **AEITAG** – Automatic Equipment Identification - Tag
- **LORFAHS** - Line of Road Failure – Air Hose Separation (July 2019)
- **LORFNCF** - Line of Road Failure – No Cause Found
- **THD** - Truck Hunting Detector
- **TPD** - Truck Curving Performance Detector
 - TPDG – gauge-spread force
 - TPDL – lateral/vertical force
- **WILD** – Wheel Impact Load Detector
- **WILD_WPD** – Wheel Impact Load Detector- Wheel Profile Detector

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Alert Levels



	<i>Window Open</i>	<i>Opportunistic</i>	<i>Condemnable</i>	<i>Mandatory</i>
<i>Level</i>	1	2	3	4
<i>EHMS Code</i>	W	O	C	M
ABD			Growler1	
AEIMISMATCH		Two reads are processed where the equipment initial and number do not match between the left and right tags		
AEITAG		Four sequential readings missing left or right tag		
LORFAHS	12 month Raw Count =1; or 12 month Raw Count =2 and 12 month distinct pair count =0 or 1		12 month Raw Count >=3; or 12 month Raw Count =2 and 12 month distinct pair count =2	
LORFNCF			Total Croup Count ≥3	
THD			1 reading at ≥.5 or 2 readings ≥.35 (in twelve months)	
TPDG			Refer to Rule 46 A.1.F in the Field Manual of the AAR Interchange Rules	
TPDL			Refer to Rule 46 A.1.F in the Field Manual of the AAR Interchange Rules	
WILD	>65kips and <80kips	>80kips and <90kips	>90kips and <140kips	>140kips
WILD_WPD	WPD rim thickness reading ≤16/16 inch and a WILD MAX_DYANAMIC ≥50kips			

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Walk-Through – Requesting Permissions



EHMS

Request

The Equipment Health Management System (EHMS) supports the Advanced Technology Safety Initiative (ATSI). The purpose of EHMS is to proactively detect, report, and alert carriers, car owners and equipment maintenance providers of potential safety problems.

EHMS Car Repair History

RAIL - RAILINC CORPORATION

07/09/2019


EHMS Generic Access

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07/09/2019

Walk-Through – EHMS on Launch Pad



 | Launch Pad

Home

My Applications

- Asset Health Common UI
- Asset Health Strategic Initiative (Committee Site)
- CRB Committee Site
- CRB User Group Site
- Car Repair Billing
- Car Repair Billing MODAPTS
- Car Repair Management Services
- DDCT User Group Site
- DDCTS
- EHMS**
- EHMS Community Site
- EHMS User Group Site
- Early Warning

Walk-Through – EHMS Homepage



The Equipment Health Management System (EHMS) supports the Advanced Technology Safety Initiative (ATSI).

ATSI is an industry-wide predictive and proactive maintenance initiative that uses technology to identify railway equipment problems at an early stage so that they can be addressed before they result in damage to rail infrastructure and equipment.

EHMS takes advantage of the North American network of equipment defect detectors and other technologies to proactively detect, report, and alert carriers, car owners and equipment maintenance providers of potential safety problems. EHMS communicates this information so the carriers, car owners and equipment maintenance providers can plan for repair of the equipment before damage is done to the rail infrastructure or equipment.

News & Updates

EHMS Release October 23

Railinc is pleased to announce a release of the Equipment Health Management System (EHMS) application on Wednesday, October 23, between 09:30 and 11:00 EDT. EHMS will be available during this time; however, users experiencing connectivity issues will be required to log back into the application.

New Features Include:

- The Alert Closure Reporting Inspection radio button will be the default when selecting the Close Alert icon for an open THD, TPDG and TPDL alert
- Filtering job codes by Rule Number in the Job Code Look Up Tool in Alert Closure Reporting
- In Equipment Health View, CRB Location will auto populate to capital letters
- In Equipment Health View, no spaces or special characters will be accepted in Repair and Inspection Reporting pane

EHMS and EHV Resources Available

Visit the [EHMS](#) or [EHV](#) resource pages for more information and resources.

Walk-Through – Equipment History Query



Equipment History

Equipment Status Query

Latest ABT Query

The Equipment Health Management System (EHMS) supports the Advanced Technology Safety Initiative (ATSI).

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Walk-Through – Equipment History Query cont.

 EHMS CLAIRE4 : RAIL Launch Pad ▾ Sign Out



Home Alert Closures ▾ Equipment History ▾ Notifications ▾ Detector ▾ Equipment ▾ Documentation ▾ Equipment Health View

Equipment History Search

***Equipment ID:**

Alert Type: ABD
AEIMISMATCH
AEITAG
...

Component Type: WHEEL ▾



Date Range:  

Alert Level: ATSI Window Open
AAR Opportunistic
AAR Condemnable
...

Reporting System: All ▾


Data Set: All: Closures: Alerts: Detail Events: Reads:
 Home Shop Dispositions: EW Data: Data Summaries:


Report Format: Equipment View Event View


Train Date:  



Alert Status: All Alerts ▾

Walk-Through – Equipment History Query cont.

Alerts 

Equipment ID	Alert Type	Open Date	Location	Alert Date	Alert Status	Closed Date	Alert Level	Opening Reason	Closing Reason	Reported Closed By	Reported Closed Date	Close Alert
RAIL-0000000101	THD	08-29-2019	TRUCK=B	08-29-2019	CLOSE	10-14-2019	C	ALERT_EVENT	INSPECTION	RAIL	10-14-2019 09:36	
RAIL-0000000101	THD	08-29-2019	TRUCK=B	08-29-2019	OPEN		C	CLOSURE_NULLIFIED				
RAIL-0000000101	WILD	03-15-2016	AXLE=04; SIDE=R	03-15-2016	CLOSE	06-20-2018	C	ALERT_EVENT	INSPECTION	RAIL	06-20-2018 07:24	

Closures 

Equipment ID	Event Date	Location	Performer	Reporter	SPLC	Closure Type	Job Code	Why Made Code	Insp. Reason	Insp. Type	Timestamp	Report System	Delete Closure
RAIL-0000000101	06-20-2018	AXLE=04; SIDE=R	RAIL	BSJXG02-RAIL	123456000	Inspection			MH	WILD	06-20-2018 07:24	WSR	
RAIL-0000000101	05-17-2015	AXLE=01; SIDE=R	RAIL	RVOUGHT-RAIL	411657000	Inspection			MN	WILD	05-17-2015 11:09	CRH	

Walk-Through – Alert Closure Reporting



Alert Closure Reporting

Notes

- Only an inspection can close a LORFNCF, THD, TPDG or TPDL alert. Repairs do not close these alerts.
- An ME inspection will not close an alert.
- Submitting an ABT will generate a billable charge.
- Submitting an ABT requires that the user have proper permissions within the Umler application.
- Component Tag ID should only be entered once per axle location and Equipment ID.

1 <input type="checkbox"/>	* Equipment Initial:	* Equipment Number:	* Closure Made By:	Closure Rptd By:	* Closure Date:	* SPLC:	<input type="checkbox"/>	ABT Performer:	ABT Reporter:
	RAIL	0000000101	RAIL	RAIL	10/14/2019	411657000			
	<input type="radio"/> Repair	<input type="radio"/> Non AAR Repair	<input checked="" type="radio"/> Inspection	* Alert / Data Summary: THD	* Reason: MR Car ins	Explanation:	* Truck: B		

Select All

+ Add

✕ Delete

✓ Save

↻ Reset

– Clear

Walk-Through – Alert Closure Reporting



Alert Closure Reporting

The closure record(s) reported was/were accepted into EHMS successfully

The closure record(s) reported closed 1 alerts

1	<input type="checkbox"/>	* Equipment Initial:	* Equipment Number:	* Closure Made By:	Closure Rptd By:	* Closure Date:	* SPLC:	<input type="checkbox"/>	ABT Performer:	ABT Reporter:	<input type="checkbox"/>
		RAIL	000000101	RAIL	RAIL	10/17/2019	411657000	<input type="checkbox"/>			<input type="checkbox"/>
		<input type="radio"/> Repair	<input type="radio"/> Non AAR Repair	<input checked="" type="radio"/> Inspection	* Alert / Data Summary: THD	* Reason: MR Car in	Explanation:	* Truck: B			

+ Enter Additional Alert Closures

✕ Done

Walk-Through – Alert Closure Reporting



Alert Closure Reporting

The closure record(s) reported was/were accepted into EHMS successfully

The closure record(s) reported closed 0 alerts

1	<input type="checkbox"/>	*Equipment Initial:	*Equipment Number:	*Closure Made By:	Closure Rptd By:	*Closure Date:	*SPLC:	<input type="checkbox"/>	ABT Performer:	ABT Reporter:	*
		RAIL	000000101	RAIL	RAIL	10/22/2019	411657000				
		<input checked="" type="radio"/> Repair	<input type="radio"/> Non AAR Repair	<input type="radio"/> Inspection	*Job Code: 3336	Why Made Code:	*Axle: 02		Component Tag Id:		

+ Enter Additional Alert Closures ✕ Done

Walk-Through – Alert Closure Reporting



Alert Closure Reporting

1 *Equipment Initial: *Equipment Number: *Closure Made By: Closure Rptd By: *Closure Date: *SPLC: ABT Performer: ABT Reporter: *

Repair Non AAR Repair Inspection *Job Code: Why Made Code: *Axle: Component Tag Id:

The following errors need to be corrected before you proceed.
• WSVLD000313 - Invalid Component location.

Walk-Through – Equipment History Query



Alerts

Export

Equipment ID	Alert Type	Open Date	Location	Alert Date	Alert Status	Closed Date	Alert Level	Opening Reason	Closing Reason	Reported Closed By	Reported Closed Date	Close Alert
RAIL-0000000101	THD	08-29-2019	TRUCK=B	08-29-2019	CLOSE	10-14-2019	C	ALERT_EVENT	INSPECTION	RAIL	10-14-2019 09:36	
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Walk Through – Equipment Status Query



- Equipment History
- Equipment Status Query
- Latest ABT Query

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Walk Through – Equipment Status Query cont...




 | EHMS BSCXS04 : [RAIL](#) Launch Pad ▾ Sign Out


Home Alert Closures ▾ Equipment History ▾ Notifications ▾ Detector ▾ Equipment ▾ Admin ▾ Documentation ▾ Equipment Health View




Q Equipment Status ^

*** Equipment ID:** **Date Range:**  

Walk Through – Equipment Status Query cont...

Alerts   

Equipment ID	Alert Type	Location	Home Shop	Alert Level	Close Alert
RAIL-0000000123	WILD	WHEEL 02L	No	ATSI Window Open	

Data Summaries   

Equipment ID	Data Summary Type	Owner	Location	Report View	Earliest Open Date	Latest Event Date	Report Repair / Inspection	Opened In Error
No Rows To Show								

Questions?

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New Alerts in EHMS - 2019



July 2019:

- LORFAHS – Line of Road Failure - Air Hose Separation

December 2019:

- MVECOUPLER – Machine Vision - E Coupler
- MVFCOUPLER – Machine Vision - F Coupler
- AEIUMLER – Automatic Equipment Identification - Umler
- WPDWHEEL – Wheel Profile Detector - Wheel
- WPDAXLE – Wheel Profile Detector - Axle

New EHMS Alerts - LORFAHS



- Line of Road Failure - Air Hose Separation (LORF-AHS) is a line-of-road event where a train goes into emergency brake application that is caused by an uncoupling of two air hoses at the glad hand not attributable to other causes (such as a train separation)
- The LORFAHS alert brings visibility to cars that experience air hose separations with no verified cause and allows repairing facilities to correct the issue helping prevent future train emergency events

LORFAHS Opening Criteria



- Two alert levels: Window Open and Condemnable
- Raw count indicates when a single car receives a LORFAHS event
- Distinct pair count indicates when a pair of cars receive a LORFAHS event

Opening Criteria	Alert Level
12 month Raw Count = 1	ATSI Window Open (Level 1)
12 Month Raw Count = 2 and 12 month distinct pair count = 0,1	ATSI Window Open (Level 1)
12 Month Raw Count = 2 and 12 month distinct pair count = 2	AAR Condemnable (Level 3)
12 Month Raw Count \geq 3	AAR Condemnable (Level 3)

LORFAHS Closing Criteria



- AUTOCLOSE- 36 months with no LORFAHS event
- Umler[®] Equipment Delete
- Repair with job code 1128
- Inspection AR - Repaired and Released

New EHMS Alerts - MVECOUPLER



- Machine Vision systems detect possible defects on the E coupler securement on a car. These potential defects are manually reviewed. When a defect is verified, the MVECOUPLER alert is created in the Equipment Health Management System (EHMS).
- The alert has only one level: ATSI Window Open

MVECOUPLER Opening Criteria



- BRK_COTTER_KEY Event: A clearly broken cotter key (Rule 16.A.1.t)
- MIS_COTTER_KEY Event: A clearly missing cotter key (Rule 16.A.1.t)
- MIS_RETAINER Event: A clearly missing retainer (Rule 16.A.1.t)
- MIS_RET_LOCK Event: A clearly missing retainer lock (Rule 16.A.1.s)

MVECOUPLER Closing Criteria



- The alert will only close when an inspection is reported for the coupler through the following existing EHMS reporting methods:
- Administrative Inspection reported
 - MN – Incorrectly Added
- Inspection reported
 - MR – Car inspected returned to service
 - MH – Car repaired returned to service

New EHMS Alerts - MVFCOUPLER



- Machine Vision systems detect possible defects on the F coupler securement on a car. These potential defects are manually reviewed. When a defect is verified, the MVFCOUPLER alert is created in the Equipment Health Management System (EHMS).
- The alert has only one level: ATSI Window Open

MVFCOUPLER Opening Criteria



- SING_MIS_FAS Event: One clearly missing fastener (Rule 18.A.1.q)
- DOUB_MS_FAS_TWO_SIDE Event: Two clearly missing fasteners, one each on the left and right sides (Rule 18.A.1.q)
- DOUB_MS_FAS_SAME Event: Two clearly missing fasteners on the same side (right or left) (Rule 18.A.1.q)

MVFCOUPLER Opening Criteria cont.



- GT_TWO_MIS_FAS4 Event: Greater than two clearly missing fasteners on a 4 fastener carrier plate (Rule 18.A.1.q)
- GT_TWO_MIS_FAS6: Greater than two clearly missing fasteners on a 6 fastener carrier plate (Rule 18.A.1.q)
- ROTATED_PLATE Event: A carrier plate with multiple missing fasteners that has rotated out of position (Rule 18.A.1.n)

MVFCOUPLER Closing Criteria



- The alert will only close when an inspection is reported for the coupler through the following existing EHMS reporting methods:
- Administrative Inspection Code reported
 - MN – Incorrectly Added
- Inspection Reason Code reported
 - MR – Car inspected and returned to service
 - MH – Car repaired and returned to service

New EHMS Alerts - AEIUMLER



- The AEIUMLER alert brings visibility to cars that do not have matching data associated between the AEI Tag read and the Umler[®] Equipment Registry. There are two types of events that can open an AEIUMLER alert in the Equipment Health Management System (EHMS). This alert should be addressed by the car mark owner.
- The alert has one alert level: ATSI Window Open

AEIUMLER Opening Criteria



- **AXLE_COUNT** – This event is created when 4 consecutive reads are recorded where the number of axles in Umler[®] does not match the number of axles of the car (i.e., data from the wheel sensor) in a train pass
- **NOT_IN_UMLER** – This event is created when 1 read is recorded where the equipment initial and number of the AEI Tag is not recorded in Umler[®]

AEI UMLER Closing Criteria



- The AXLE_COUNT Event based alert will automatically close when an AEI reading is received that match the following:
 - 4 consecutive reads are recorded where the number of axles of the car in a train pass (per wheel sensor) match the number of axles in Umler[®] (MK)
- The NOT_IN_UMLER Event based alert will automatically close when an AEI reading is received that match the following:
 - When an AEI read is received that updates the data summary and the equipment is now registered in Umler[®] (MK)
 - The equipment initial and number is registered in Umler[®] and the equipment is marked as active (MU)
 - 1-year aging where there are no more NOT_IN_UMLER reads (MK)

AEIUMLER Closing Criteria cont.



- The alert can also be closed through the following existing reporting methods:
 - Administrative closure
 - MN – Incorrectly Added
 - Inspection Reason Code reported
 - MR – Car inspected and returned to service

New EHMS Alerts - WPDWHEEL



- The WPDWHEEL alert brings visibility to cars that have individual wheels that do not meet the industry standard wheel profile measurements. There are four types of events that can open a WPDWHEEL alert in the Equipment Health Management System (EHMS).
- The data from all readings that support the alert will be available in the WHEELPROFILE data summary in EHMS.
- The WPDWHEEL alert has only one level: ATSI Window Open

WPDWHEEL Opening Criteria



- **FLANGE_HEIGHT** –This event is created on a railcar when the wheel profile detector reads an event with the Flange_Height measurement of ≥ 1.5 in. The event is also created on a locomotive when the measurement is ≥ 1.5 in. (Rule 41.A.1.c)
- **FLANGE_THICKNESS** –This event is created on a railcar when the wheel profile detector reads an event with the Flange_Thickness measurement of ≤ 0.938 in. The event is also created on a locomotive when the measurement is ≤ 0.875 in. (Rule 41.A.1.a)

WPDWHEEL Opening Criteria



- **RIM_THICKNESS** –This event is created on a railcar when the wheel profile detector reads an event with the Rim_Thickness measurement on a 30-in or 33-in wheel of ≤ 0.75 in. and on 28-in, 36-in and 38-in wheel a measurement of ≤ 0.875 in. The event is also created on a locomotive when the measurement is ≤ 1.0 in. (Rule 41.A.1.h)
- **HOLLOW_TREAD_A_1** –This event is created on a railcar when the wheel profile detector reads an event with the Hollow_Tread measurement of ≥ 5 mm. The event is also created on a locomotive when the measurement is ≥ 0.313 mm. (Rule 41.A.1.y)

WPDWHEEL Closing Criteria



- The alert *will not automatically close* and will require a repair or inspection to close out the alert when the following actions are reported following existing EHMS reporting methods:
 - All repairs with a job code in rule numbers 41, 43, and 44, excluding 3399 and 6999, if reported on the same axle as the open alert
 - All repairs with a valid rule 36 job code if reported on the same axle as the open alert
(2814, 2816, 2820, 2822, 2830, 2848, 2861, 2862, 2863, 2864, 2865, 2866, 2867)
 - An inspection with a reason code of MH, MI, MN, or MR if it is on the same wheel as the open alert
 - Administrative closure

New EHMS Alerts - WPDAXLE



- The WPDAXLE alert brings visibility into cars that have two wheels that do not meet the industry standard wheel profile measurement back to back. There are two types of events that can open a WPDAXLE alert in the Equipment Health Management System (EHMS).
- The data from all readings that support this alert will be available in the WHEELPROFILE data summary in EHMS.
- The alert has one alert level: ATSI Window Open

WPDAXLE Opening Criteria



- **BACK_TO_BACK_GT** –This event is created on a railcar when the wheel profile detector reads an event with the Back_to_Back measurement of > 53.188 in. The event is also created on a locomotive when the measurement is > 53.5 in. (Rule 41.A.1.q)
- **BACK_TO_BACK_LT** –This event is created on a railcar when the wheel profile detector reads an event with the Back_to_Back measurement of < 52.938 in. The event is also created on a locomotive when the measurement is < 53.0 in. (Rule 41.A.1.q)

WPDAXLE Closing Criteria



- The alert will *not automatically close* and will require a repair or inspection to close out the alert when the following actions are reported following existing EHMS reporting methods:
 - All repairs with a job code in rule numbers 41, 43, and 44, excluding 3399 and 6999, if reported on the same axle as the open alert
 - All repairs with a valid rule 36 job code if reported on the same axle as the open alert.
(2814, 2816, 2820, 2822, 2830, 2848, 2861, 2862, 2863, 2864, 2865, 2866, 2867)
 - An inspection with a reason code of MH, MI, MN, or MR if it is on the same wheel as the open alert.
 - Administrative closure

New Features in EHMS UI – Equipment History change to EHMS Query



RAILINC | EHMS

BSCXK02 : RAIL Launch Pad Sign Out

Home Alert Closures EHMS Query Notifications Detector Equipment Admin Documentation Equipment Health View

Equipment Status
Equipment History
Latest ABT

Welcome

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New Features in EHMS UI – Equipment History Search with Alert Event Details



RAILINC | EHMS BSJXG02 : UP Launch Pad ▾ Sign Out

Home Alert Closures ▾ EHMS Query ▾ Notifications ▾ Detector ▾ Equipment ▾ Admin ▾ Documentation ▾ Equipment Health View

Equipment History Search

***Equipment ID:**

Alert Type: ABD
 AEIMISMATCH
 AEITAG
 AEIUMLER

Component Type:

Date Range:

Alert Level: ATSI Window Open
 AAR Opportunistic
 AAR Condemnable
 ATSI Mandator

Reporting System:

Data Set: All: Closures: Alerts: Detail Events: Reads:
 Home Shop Dispositions: EW Data: Data Summaries:

Report Format: Equipment View Event View

Train Date:

Alert Status:

Alerts

	Equipment ID	Alert Type	Open Date	Location	Alert Date	Alert Status	Closed Date	Alert Level	Opening Reason	Closing Reason	Reported Closed By	Reported Closed Date	Close Alert
<input type="button" value="Q"/>	RAIL-0000000089	AEIUMLER	05-02-2019		05-02-2019	OPEN		W	ALERT_EVENT				<input type="button" value="Q"/>

Closures

Equipment ID	Event Date	Location	Performer	Reporter	SPLC	Closure Type	Job Code	Why Made Code	Insp. Reason	Insp. Type	Timestamp	Report System	Delete Closure
No Rows To Show													

New Features in EHMS UI – Equipment History Search with Alert Event Details



RAILINC | EHMS BSJXG02 : UP Launch Pad Sign Out

Home Alert Closures EHMS Query Notifications Detector Equipment Admin Documentation Equipment Health View

Equipment History Search

***Equipment ID:** RAIL89

Alert Type: ABD
AEIMISMATCH
AEITAG
AEIUMLER

Component Type:

Date Range:

Alert Level: ATSI Window Open
AAR Opportunistic
AAR Condemnable
ATSI Mandates

Reporting System: All

Data Set: All: Closures: Alerts: Detail Events: Reads:
 Home Shop Dispositions: EW Data: Data Summaries:

Report Format: Equipment View Event View

Train Date:

Alert Status: All Alerts

Search Reset Clear Print All

Alerts

Equipment ID	Alert Type	Open Date	Location	Alert Date	Alert Status	Closed Date	Alert Level	Opening Reason	Closing Reason	Reported Closed By	Reported Closed Date	Close Alert
RAIL-0000000089	AEIUMLER	05-02-2019		05-02-2019	OPEN		W	ALERT_EVENT				

Export

Closures

Equipment ID	Insp. Type	Timestamp	Report System	Delete Closure

Alert Event Details

Equipment ID: RAIL0000000089 Location: Alert Type: AEIUMLER

Event Date	Event Name	Alert Level	Opened Alert	Timestamp	Site Name	Meas. Value
05-02-2019	NOT_IN_UMLER	W		05-02-2019 10:30	RAIL_TEST_SITE	1

New Features in EHMS UI – Equipment History Search with Detailed Events



RAILINC | EHMS BSJXG02 : UP Launch Pad Sign Out

Home Alert Closures EHMS Query Notifications Detector Equipment Admin Documentation Equipment Health View

Equipment History Search

***Equipment ID:**

Alert Type: ABD AEIMISMATCH AEITAG BaseTest

Component Type:

Date Range:

Alert Level: ATSI Window Open AAR Opportunistic AAR Condemnable ATSI Mandatory

Reporting System: All

Data Set: All Closures Alerts Detail Events Reads
 Home Shop Dispositions EW Data Data Summaries

Report Format: Equipment View Event View

Train Date:

Alert Status:

[Search](#) [Reset](#) [Clear](#) [Print All](#)

Alerts

[Export](#)

Equipment ID	Alert Type	Open Date	Location	Alert Date	Alert Status	Closed Date	Alert Le...	Opening Reason	Closing Reason	Reported Closed By	Reported Closed Date	Close Alert
RAIL-0000000089	AEIUMLER	05-02-2019		05-02-2019	OPEN		W	ALERT_EVENT				

Closures

[Export](#)

Equipment ID	Event Date	Location	Performer	Reporter	SPLC	Closure Type	Job Code	Why Made Co...	Insp. Reason	Insp. Type	Timestamp	Report System	Delete Closure
No Rows To Show													

Detail Events

[Export](#)

Equipment ID	Alert Type	Event Date	Location	Alert Level	Opened Alert	Closed Alert	Timestamp	Site Name	Event Name	Measurement
RAIL-0000000089	AEIUMLER	05-02-2019		W			05-02-2019 10:30	RAIL_TEST_SITE_1	NOT_IN_UMLER	1

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New Features in EHMS UI – Equipment Status Search with Event Name



Q Equipment Status ▲

*Equipment ID: Date Range:

Alerts

Equipment ID	Alert Type	Event Name	Location	Home Shop	Date	Alert Level	Close Alert
CCLX-0000004396	WPDAXLE	BACK_TO_BACK_GT	AXLE 01	No	08-05-2019 16:24	ATSI Window Open	<input type="button" value="Close"/>
	WPDAXLE	BACK_TO_BACK_GT	AXLE 01		08-06-2019 11:45		

Today's Agenda



- What is EHMS?
- How Does EHMS Work?
- Alert Types
- Alert Levels
- Walk-Through of EHMS
 - Permissions & Accessing EHMS
 - Querying Cars
 - Closing Alerts
 - Reporting ABT
- New Alerts Coming to EHMS
- **Tools**
- Helpful Tips
- References

Additional Tools



- The following tools are also available:
 - **EHMS Web Services** – utilizes a standard format with requirements for querying or reporting to EHMS
 - **EHMS Notifications** – subscription-based service that notifies customers with alert and data summary information that they want to track via MQ or FTP
 - **Equipment Health View** – EHV (a separate Railinc application) – provides users a consolidated view of equipment health information from the EHMS, Umler, DDCT and Early Warning systems, as well as mileage data from the Event Repository

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Helpful Tips



- Helpful documents are located in the tab, “Documentation”, on the homepage in EHMS
- Only an Inspection can close THD, TPDG and TPDL alerts
- You’re able to Export your searched cars into Excel via the Export button in Equipment History
- You need proper Umler[®] permissions and access rights to submit an ABT
- Submitting an ABT will generate a billable charge
- You’re able to query 500 cars at a time
- You can access Equipment Health View (EHV) through the EHMS application

Today's Agenda



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- **References**

Guides and References



- **Equipment Health Management System Product Page**

<https://www.railinc.com/rportal/equipment-health-management-system>

- **EHMS User Guide**

https://www.railinc.com/rportal/documents/18/260627/EHMS_UG.pdf

- **EHMS Notification Message Format**

<https://www.railinc.com/rportal/equipment-health-management-system>

- **Notification Flow Chart**

https://www.railinc.com/rportal/documents/18/260627/EHMS_NotificationFlowChart.pdf

Questions?

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