

Cancún, Q. Roo México del 11 al 13 de febrero





# Alert Management Modernization

**Expo** Rail



## Alert Management Modernization (AMM)

- Existing Early Warning System Functionality
- Why make a change
- Proposed changes
- How will the new application function
- Update on AMM Project



## Existing Early Warning System Functionality

- Notice based (severity)
- Only two types of notices
- Multiple notices for same issue
- TRAIN II messaging is difficult to change
- Manual process of throttling cars onto notices



## Why Make a Change

- Ability to view all cars on an advisory
- Remove need for duplicate advisories
- Simplification of severity codes
- Ability to prioritize/escalate individual equipment on a single advisory
- New advisories allow for improved equipment handling
- Quicker communication of notices
- Ability to refresh Equipment Advisory messages



## Proposed Changes

- New Name "Equipment Advisory"
- Advisories do not have an expiration date
- The severity is assigned to the equipment and not the notice
- There will be escalation criteria assigned to each equipment
- On-Demand Message refresh
- Enhanced messaging
- Location on car
- AAR streamlined workflow



### How will it function

- Advisory and severity assigned to equipment
- Equipment will escalate severity inside the advisory
- Advisories will not expire



## How will it function - Advisories

- Advisories created by AAR/TTCI with input from industry
  - Equipment Concern (EC)
    - ABT, Reflectorization
    - Most current EW/MAs
  - Informational (IN)
    - DDCT
    - Test cars requiring no action
  - Special Instruction (SI)
    - Car flag, Bad actor before alert
    - Test Cars requiring action, Approved waiver



## How will it function — Severity Levels

- Advisory can hold multiple severity levels
  - XX Restricted at Interchange
  - A1 Cause for attention at any time (tied to section A1 of FM for that part)
  - A2 Cause for attention when car is on shop or repair track for any reason (tied to section A2 of FM for that part)
  - A9 Informational Notices only



## Advisories

**Existing Notices** 

EW – Early Warning

MA – Maintenance Advisory

**Proposed Advisories** 

#### **Equipment Concern (EC)**

- EW/MA
- Air Brake Test
- Reflectorization
- LTCCSB

#### Special Instructions (SI)

- Car flag
- Bad Actor

#### Informational Notice (IN)

- Car Note
- DDCT Notices
- Test Cars Requiring no Action



## Severity Level Reduction

**Proposed Severity Levels** 

XX – Restricted in Interchange XX – Restricted in Interchange 1 – Stop car, loaded or empty, do not move 2 – Stop car, loaded or empty, transfer load A1 – Cause for attention at any time 3 – Stop car, loaded or empty, inspect 6 - AAR Defined 4 – Withhold empty car from loading-contact owner A2 – Cause for attention when 5 – Withhold empty car from loading-inspect car is on shop or repair track for 6 – AAR Defined any reason 6 - AAR Defined A9 – Informational Notices



## Advisory Categories with Severities

#### Current

#### Early Warning (EW)

- 1 Stop car, loaded or empty, do not move
- 2 Stop car, loaded or empty, transfer load
- 3 Stop car, loaded or empty, inspect
- 6 AAR Defined
- XX Restricted at Interchange

#### Maintenance Advisory (MA)

- 4 Withhold empty car from loading-contact owner
- 5 Withhold empty car from loading-inspect
- 6 AAR Defined

#### Proposed

#### **Equipment Concern (EC)**

- XX Restricted at Interchange
- A1 Cause for attention at any time
- A2 Cause for attention when car is on shop or repair track for any reason

#### Special Instruction (SI)

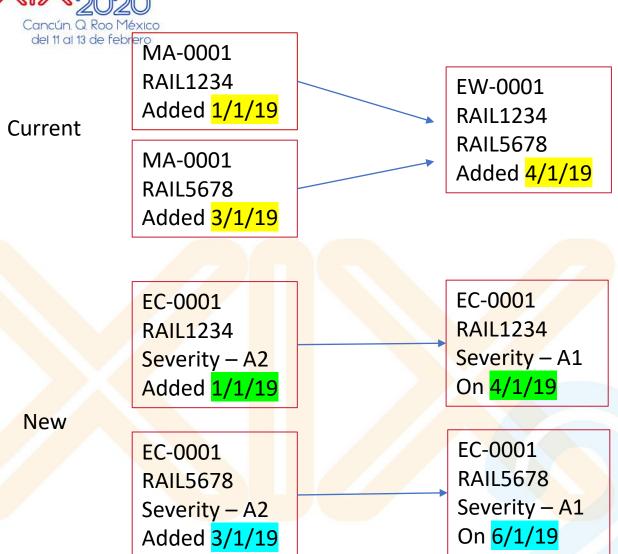
- XX Restricted at Interchange
- A1 Cause for attention at any time
- A2 Cause for attention when car is on shop or repair track for any reason

#### Informational (IN)

A9 – Informational only see notice for details

## XIX EXPORAL 2020

## Old vs New Car Flow on an Advisory



Faulty Hinges
Created 1/1/19
Escalates – 90 days
(4/1/19)



## Update on AMM Project - 2019

#### • 2019

- New application will be called Equipment Advisory
- Rule 125 was rewritten and will be distributed for comment
- Equipment centric with all pertinent information tied to the asset
- Three new advisories created to handle more scenarios in the industry
- Simplified severities from seven to four
- New XML message formats delivered to the industry for implementation



## Update on AMM Project - 2020

#### • 2020

- Railinc internal coordination with other applications (DDCT, Umler, EHV, EHMS, AIR)
- Implement new XML messaging
- Add location on car to advisories
- Revise application web site
- User acceptance testing with industry



## Questions?