



**Please mute your  
mobile phones  
and other electronic  
devices at this time.**

*Thank you for your cooperation.*



**IANA**  
INTERMODAL ASSOCIATION  
OF NORTH AMERICA



INTERMODAL OPERATIONS  
SAFETY & MAINTENANCE  
BUSINESS MEETING



# Operations Committee Meeting

Wednesday, May 10, 2023

1:00 – 2:00 PM Central

Grand Ballroom

Hilton Chicago/Oak Brook Hills  
Resort and Conference Center



# Call to Order

- Welcome
- Reminder of expectation for Committee members
  - Meetings include deliberation of issues, education, and discussion of recommended practices
  - Solicitation of business is not allowed during meetings
  - Members must abide by antitrust guidelines
  - Actively participate in Committee
    - Committee participation is reviewed throughout the year

# Housekeeping

- Turn Cell Phones to Vibrate or Off
- **Please** No Side Bar Conversations
- When Speaking
  - Use a Microphone
  - Identify Yourself and Company Affiliation

# Safety Briefing

- Current Location:
  - Hilton Chicago/Oak Brook Hills Resort and Conference Center, Grand Ballroom, 3500 Midwest Rd, Oak Brook, IL 60523
- Hotel Security: See Front Desk
- 911: See Front Desk
- AED: See Front Desk
- First Aid Kit: See Front Desk
- CPR Assignments: Volunteers?

# Safety Briefing - Continued

- Evacuation:
  - Evacuation Route: Exit out the North Foyer and directly out to the parking lot
  - Rally point: Northeast side of parking lot
  - Tornado Evacuation Route: Down the stairs by Ballroom G, follow instructions from staff
  - Chairs pushed in - **Avoid tripping hazards**
- Fire extinguishers: Located in hallway
- Drills scheduled or planned for the day: None

# Call to Order

- Antitrust Guidelines
- Determination of Quorum





# Task Force & Working Group Reports

---







# Geofence Task Force

---

Ted Prince, Tiger Cool Express  
May 10, 2023  
Grand Ballroom  
Hilton Chicago/Oak Brook Hills  
Resort and Conference Center



# Objectives

- Create, maintain, and resolve a standard compendium of intermodal terminal geofences
- Geofences can be used to
  - Universally define terminal boundaries and limits
  - Support performance KPIs
  - Sub-terminal geofences to identify terminal sub processes and data collection points

# Thank You to the Members

- Andy Adams, Railinc
- John Allen, FlexiVan
- Dakota Anderson, Virginia International Terminals, Inc.
- Nicole Bailey, DCLI
- Stephanie Bewick, NavTrac
- Gerry Bisailon, REMPRES, LLC
- Ryan Bivinetto, BlackBerry Radar
- Chris Brickley, NASCENT Technology, LLC
- Mike Burton, C & K Trucking, LLC
- Tolga Cankurtaran, NC State Ports Authority
- Dave Clifford, Ventura Transfer Company
- Chuck Connors, H & M International Transportation, Inc.
- Nate Graglia, Wallport Transit Xpress, Inc.
- Jeremy Hayden, Union Pacific Railroad Company
- Walter Kemmsies, The Kemmsies Group
- Hampton Lee, South Carolina Ports Authority
- Chris Machut, SiteTrax.io by Netarus
- Mark McKendry, NFI Industries
- Douglas Owen, Bureau International Des Containers
- James Palmer, CSX Intermodal Terminals, Inc.
- Christopher Plaat, BlackBerry Radar
- Ted Prince, Tiger Cool Express, LLC
- Mark Ratkiewicz, NASCENT Technology, LLC
- David Roff, Bureau International Des Containers
- Aaron Rossiter, BNSF Railway
- Leif Rush, CSX Intermodal Terminals, Inc.
- Stan Scofield, FlexiVan
- Matthew Wafer, Union Pacific Railroad Company

# Update Since March Meeting and Next Steps



# Questions & Discussion



# Railroad APIs Working Group

---

Jeremy Hayden, Union Pacific

May 10, 2023

Grand Ballroom

Hilton Chicago/Oak Brook Hills

Resort and Conference Center





# Thank You to the Members

- Duke Acors, Georgia Ports Authority
- Andy Adams, Railinc
- Frank Amelio, C & K Trucking, LLC
- Christopher Anderson, REMPRES, LLC
- Ryan Bivinetto, BlackBerry Radar
- Mike Burton, C & K Trucking, LLC
- Dave Clifford, Ventura Transfer Company
- Chuck Connors, H & M International Transportation, Inc.
- Danny Dever, Railinc
- Jeffrey Dudenhefer, North American Chassis Pool Cooperative (NACPC)
- Nate Graglia, Wallport Transit Xpress, Inc.
- Bill Hamlin, Gray Wolf Group LLC
- Jeremy Hayden, Union Pacific Railroad Company
- Joe Hite, CIE Manufacturing
- Steve Kemp, South Carolina Ports Authority
- Srinivas Kunapareddy, TRAC Intermodal
- Phil Lucier, FlexiVan
- Chris Machut, SiteTrax.io by Netarus
- Tom Martucci, Consolidated Chassis Management, LLC
- Lynda Parillo, NASCENT Technology, LLC
- Albert Perez, BNSF Railway
- Christopher Plaat, BlackBerry Radar
- Ted Prince, Tiger Cool Express, LLC
- Mark Ratkiewicz, NASCENT Technology, LLC
- Steve Rauch, South Carolina Ports Authority
- Jennifer Reiser, Kansas City Southern
- John Stringer, BNSF Logistics
- Matthew Wafer, Union Pacific Railroad Company
- Jay Windsor, Virginia International Terminals, Inc.
- Matthew Wittemeier, INFORM Software Corporation



# API Introduction

---

- What is an API?
  - The Basics:  
Application Programming Interface – a ‘contract’ that allows two programs to communicate with each other
  - The Sizzle:  
Web APIs – allow connections and data exchange over the public internet
- Information Delivery Channel
  - Complimentary to core technical capability
- How are they beneficial?
  - Technology agnostic
  - Directly connect business partners, automating processes, eliminating manual touches
- Types
  - Public, Partner, Private



# So what – we’ve already got EDI.....

- APIs can be either complimentary or duplicative of EDI
  - EDI defines documents to be exchanged – regardless of how they are produced
  - APIs expose core tech capabilities
- Originally requested as a standardization of Railroad APIs
  - Standardization would be a challenge
    - Public Web APIs are relatively young in the market
      - Period of growth and innovation
    - Varying business processes and tech capabilities among Class 1’s



CP FastPass

# Working Group Scope of Evaluation

---

- What can we do?
  - Framework for self-evaluation
    - Focused on Public Web APIs in support of the standard Shipment Cycle
    - Can I / Should I even play in the API space?
  - Share Best Practices
- Expanded to All Intermodal Parties
  - Shippers
  - Dray
  - Railroad / Steamship Lines
  - Terminal Operations

# Identified Use Cases

---

- Pre-Gate Validation
  - Rail Billing Received & Valid
  - Reservation / Appointment Confirmed
  - Pickup / Release Number Valid
  - Unit Ready for Pickup
  - Seal Number Verification
- Gate
  - Driver Arrived in Queue
  - Damage Notation
  - DVIR Notation
  - Gate Complete
- Flip
  - Flip Request
  - Flip Completed
- Transit
  - Load Plan, Spot for Load, Loaded
  - Car / Vessel Released
  - Car / Vessel Departed
  - Car / Vessel Arrived
  - Car / Vessel Spotted for Unload
  - Unit Grounded
  - Unit Stacked
  - Storage Approaching Limit
- Exceptions
  - Driver Queued to Roadability
  - Hold Applied / Hold Removed

# Scorecard for Self-Evaluation

Subject Area	Type	Sender	Receiver	Description	Supported Channels		
					Website	Mobile	API
Pre-gate (in)	Inquiry	Shipper, Dray	Transit Provider	Railroad confirms valid billing has been received and processed			
Pre-gate (in)	Inquiry	Shipper, Dray	Terminal Operator	Planned in-gate has dedicated reservation			
Pre-gate (in)	Inquiry	Shipper, Dray	Terminal Operator	Planned in-gate has ## remaining reservations			
Pre-gate (out)	Inquiry	Shipper, Dray	Terminal Operator	Pickup Number / Release Number Validation			
Pre-gate (out)	Inquiry	Shipper, Dray	Terminal Operator	Unit Mounted on Chassis unable to leave ramp			
Pre-gate (out)	Inquiry	Shipper, Dray	Terminal Operator	Seal Validation			
Pre-gate (out)	Inquiry	Shipper, Dray	Terminal Operator	Unit Cleared for pickup (with reasons if not)			
Gate	Event	Terminal Operator	Dray, Asset Owner	Damage Noted at Ingate			
Gate	Event	Dray	Terminal Operator, Asset Owners	Damage Noted at Outgate			
Gate	Event	Dray, Chassis Owner	Terminal Operator	Chassis DVIR			
Gate	Event	Dray	Terminal Operator	Driver Arrived in Terminal Queue			
Gate	Event	Terminal Operator	Shipper, Dray	In Gate Complete			
Gate	Event	Terminal Operator	Shipper, Dray	Out Gate Complete			
Terminal (origin)	Event	Terminal Operator	Shipper, Consignee	Container Planned for outbound loading (Train, Car, Spot, Vessel)			
Terminal (origin)	Event	Terminal Operator	Shipper, Consignee	Container Planned for inbound grounding (Chassis, planned spot)			
Terminal (origin)	Event	Terminal Operator	Shipper, Consignee	Container Spotted for Loading			
Terminal (origin)	Event	Terminal Operator	Shipper, Consignee	Container Loaded to Car			
Transportation	Event	Transit Provider	Shipper, Consignee	Car pulled from ramp			
Transportation	Event	Transit Provider	Shipper, Consignee	Container departed on train / vessel			
Transportation	Event	Transit Provider	Shipper, Consignee	Train / Vessel arrival at Destination			
Transportation	Event	Transit Provider	Shipper, Consignee	Car spotted to ramp			
Terminal (dest)	Event	Terminal Operator	Shipper, Consignee	Unit Grounded to chassis (with ID and parking spot)			
Terminal (dest)	Event	Terminal Operator	Shipper, Consignee	Unit Grounded without chassis			
Terminal (dest)	Event	Terminal Operator	Shipper, Consignee	Unit Stacked			
Terminal (dest)	Event	Dray	Terminal Operator, Chassis Owner	Driver Queued for Roadability			
Terminal (dest)	Event	Terminal Operator	Shipper, Consignee	Hold Applied to Container (e.g. Customs Hold)			
Terminal (dest)	Event	Terminal Operator	Shipper, Consignee	Hold Released from Container (e.g. Customs Hold)			
Terminal (dest)	Event	Terminal Operator	Shipper, Consignee, Dray	Container approaching Storage Limit - Storage Begins XX			
Flip	Request	Shipper, Dray	Terminal Operator	Request Flip			
Flip	Event	Terminal Operator	Shipper, Asset Owners	Flip Performed			



# Recommended Practices – API Formatting

- Data Format

XML

```
<Container>
  <ISOID>UMXU100100</ISOID>
  <length>53</length>
  <length-uom>ft</length-uom>
  <reefer>N</reefer>
</Container>
```

JSON

```
"Container": {
  "ISOID" : 'UMXU100100',
  "length" : 53,
  "length-uom" : 'ft',
  "reefer" : 'n'
}
```

- Developer Center / Documentation

- BNSF - <https://www.bnsf.com/ship-with-bnsf/support-services/customer-api/>
- CN - <https://www.cn.ca/en/customer-centre/tools/api/>
- CP - <https://www.cpr.ca/en/customer-resources/customer-api>
- NS - <https://developer.nscorp.com/#/>
- UPRR - <https://www.up.com/customers/all/api-developer/index.htm>
- Railinc - <https://public.railinc.com/developers>

- Sandbox / Test scenarios

- Allows client developers to test API functionality
- Known, Repeatable Scenarios

# Recommended Practices - Security

- Security Levels
  - Level 1 - Authentication
  - Level 2 - Authorization
  - Level 3 – Fine-grained Authorization
- Security Approaches
  1. API Tokens
  2. OAuth & Open ID
  3. SAML (Security Assertion Markup Language)
    - Most Commonly used for SSO (Single Sign On)



Authentication  
"You are who you say you are"



Authorization  
"What you can do once you're in"





# Questions & Discussion



# Old Business

---



# Old Business

- Carbon Credits Program
- Toll Violations Attribution in New Jersey
- Operations Committee Roadmap



# New Business

---



# New Business

- Operational Impact of Side Underride Guards
  - [Federal Register :: Side Underride Guards](#)
  - NHTSA Advance Notice of Proposed Rulemaking Seeks Comments on
    - Other benefits NHTSA failed to consider that could justify a mandate for side underride guards
    - The effects of side underride guards on trailer and semitrailer operations
    - Information on the effects of side underride guards on intermodal equipment, freight mobility, freight capacity, and port operations



# Housekeeping

---





# IANA Info

- Intermodal Recommended Practices page
  - <https://www.intermodal.org/resource-center/committee-recommended-practices>
- Industry Tools & Resources
  - <https://www.intermodal.org/resource-center/industry-tools-resources>
- IANA Education Program *Advancing Intermodal*
  - <https://www.intermodal.org/upcoming-education>
- Next Committee Meeting
  - In person – September 11, 2023 at EXPO in Long Beach





# Adjournment

---

