



BOES – Bad Order Equipment Status (BOES)

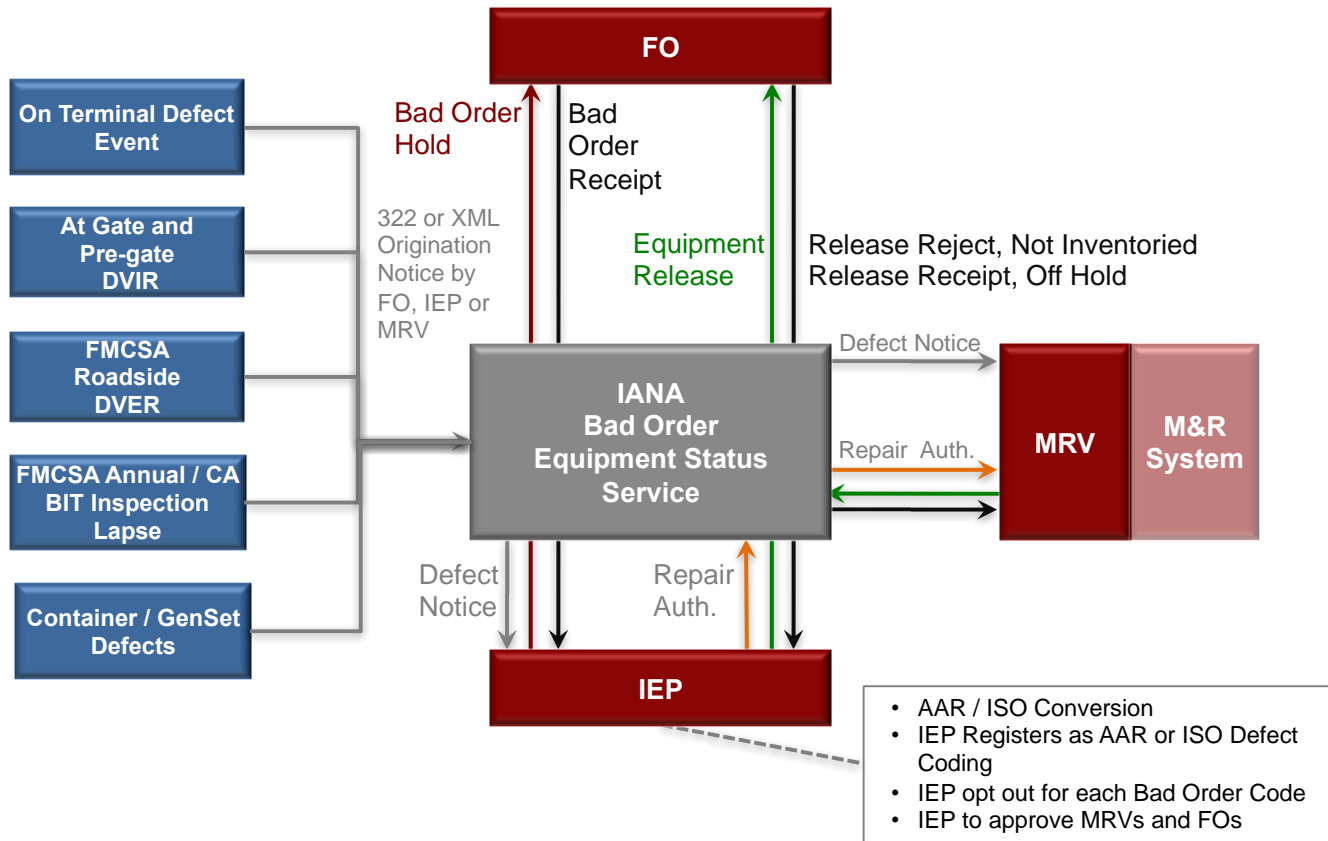
A program of the Intermodal Association of North America

Purpose of Bad Order Equipment Status (BOES) Service

- Provides an industry-sponsored clearinghouse for equipment status information (bad order, gate hold, release).
- Provides IEPs, Facility Operators and Maintenance and Repair Vendors the ability to exchange defect information and hold/release notifications using a standard format via a single clearinghouse.
- Ability to handle conversion of marine and domestic damage coding (i.e. AAR to ISO or vice versa).
- Provides key component to building a proactive systematic maintenance program that ensures bad order chassis are not mounted or moved off terminal.

BOES Process Flow

Data Flow Order: Gray > Red > Black > Orange > Green



How does BOES work?

Terminal Defect Events (**Bad Order Notice – Report of any identifiable equipment damage**)

- FO or IEP transmits an inbound 322 EDI or XML transaction advising that a unit is bad ordered.
- BOES matches the alpha/numeric chassis ID against GIER to identify the responsible IEP and Chassis Pool ID if provided.
- BOES generates an outbound 322, XML or e-mail transaction and sends it to the designated recipients (IEP, FO and/or MRV) identified by the IEP in the system to place the equipment on hold for repair.
- The outbound notice would only be transmitted if IEP is a registered user in BOES. If not, original inbound notice would be rejected and sent back to sender.

How does BOES work?

Driver Vehicle Inspection Report (DVIR) (Report of Pre-Gate or At-Gate DVIR Roadability Compliance Defects)

- Follows process of IANA's current DVIR application.
- FO transmits DVIR 322 transaction to IANA
- IANA parses transactions to identify whether transaction is for an OCEMA IEP
- If for OCEMA IEP – IANA does not process but forwards transaction to chassis.com for processing.
- Non-OCEMA 322 DVIR transactions are processed by matching against GIER, UIIA and IDD databases to identify the responsible IEP, MC and driver's electronic signature.
- IANA sends an outbound 322 or XML to the responsible IEP and selected FOs and MRVs advising of the DVIR roadability compliance defects.

How does BOES work?

Driver Vehicle Examination Report (DVER)

- Offers ability to receive DVER via EDI
- Notifies responsible IEP that DVER has been issued and includes the following:
 - IEP and MC DOT Numbers
 - Alpha/numeric equipment ID
 - Date of inspection
 - License Plate/License State
 - Chassis Pool ID (if provided)
- Provided via 322 EDI, XML or e-mail to the responsible IEP and selected FOs and/or MRVs
- This capability does not replace the physical copy of page 2 of the DVER sent via e-mail thru IANA's DVER application.

How does BOES work?

Driver Vehicle Examination Report (DVER)

- **IANA's DVER Reporting System**
 - ✓ Email, storage & retrieval of PDF of DVER page 2 – IEP Report
- **BOES**
 - All DVERs
 - DVERs Parsed, to id:
 - ✓ Class 1 & 5
 - ✓ Vehicle 1 or 2
 - ✓ Violation type / code
 - ✓ Attribution: Driver, MC, IEP
 - ✓ OOS
 - ✓ Repeat for multiple violations
- **DVER reporting & metrics available**

How does BOES work?

Repair/Release Events

- MRV associated with IEP comes into the web interface or sends via EDI that equipment has been repaired
- BOES system generates outbound 322 to the FO and IEP
- Ability to send multiple releases via 322 EDI
- BOES Repair also notifies DVER System for State / Federal compliance

Release Reject/Receipt, Not Inventoried or Off Hold Events

- If Release Reject/Receipt, Not Inventoried or Off Hold event received via inbound 322 EDI transaction, equipment alpha/numeric will be matched against GIER to identify the IEP.
- BOES system will generate outbound 322 transaction and transmit to IEP and FO/MRV if selected by IEP.

All above transactions are also available via XML and e-mail also.

BOES Welcome Page - Dashboard

BOES
IANA's Bad Order Equipment Status Service

Bnsf Railway Company | 281683 | BNSF

Home Profile Settings Users Bad Order Search Mapping Reports Logout

John Smith

Dashboard

Welcome to IANA's Bad Order Equipment Status Service

Today's transaction

BOES 0	DVIR 0	DVER 0
-----------	-----------	-----------

Total transaction

BOES 5	DVIR 0	DVER 0
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Dashboard Screen –

Home Tab – displays current day and overall total counts for all three types of transactions.

Profile Tab – update profile information and change password.

Settings Tab – manage configuration and opt-out of defects.

Users Tab – manage secondary users and ability to upload bulk registrations of secondary users via XLS Template.

Mapping – FO and MRV selection

Reports – identifies reports available.

BOES Settings Tab

The screenshot shows the 'Manage Configuration Details' page in the BOES system. The page title is 'Manage Configuration Details'. Below the title, there are four expandable sections for EDI Setup Information: 'BOES', 'DVIR', 'DVER', and 'Miscellaneous'. The 'Miscellaneous' section is expanded, showing two configuration options: 'Is your company an OCEMA member?' with a 'Yes' radio button selected, and 'Does your company want to Opt out of Pre-gate DVIR?' with a 'No' radio button selected. A 'Save Changes' button is located at the bottom right of the page.

The screenshot shows the 'Manage Opt-Out Of Defects' page in the BOES system. The page title is 'Manage Opt-Out Of Defects'. Below the title, there is a 'Select Defect Category' dropdown menu. The dropdown is open, showing a list of defect categories: 'DVR-Airlines&Connections', 'DVR-Bolsters', 'DVR-BrakeSystemComponents', 'DVR-ChassisLocks', 'DVR-KingPinUpperCoupling', 'DVR-LightingDevices', 'DVR-MainRails&SupportFrames', 'DVR-SlidingMechanisms', 'DVR-Wheels,Rims,Tires', 'Other Regulatory', and 'Other'. Below the dropdown, there is a link that says 'Your Opted-Out Of Defects Click to view'. At the bottom of the page, there is a copyright notice: 'Copyright © 2016 Intermodal Association of North America. All Rights Reserved. 11785 Beltsville Drive, Suite 1100, Calverton, MD 20705 info@svshelpdesk@intermodal.org'.

Settings Tab –

The Setting Tab provides two functionalities –

Manage Configuration Details – This identifies how your company wishes to receive notifications from the BOES System.

Manage Opt-Out Defects – Allows user to select specific defects that it wishes to opt out of receiving notifications from BOES.

BOES Settings Tab – Manage Opt-Out Defects

BOES
IANA's Bad Order Equipment Status Service

Demo Account | 0000000 | IAN

Home Profile Settings Users Bad Order Search Mapping Reports Logout Demo Account

Manage Opt-Out Of Defects

Select Defect Category : DVR-Wheels,Rims,Tires

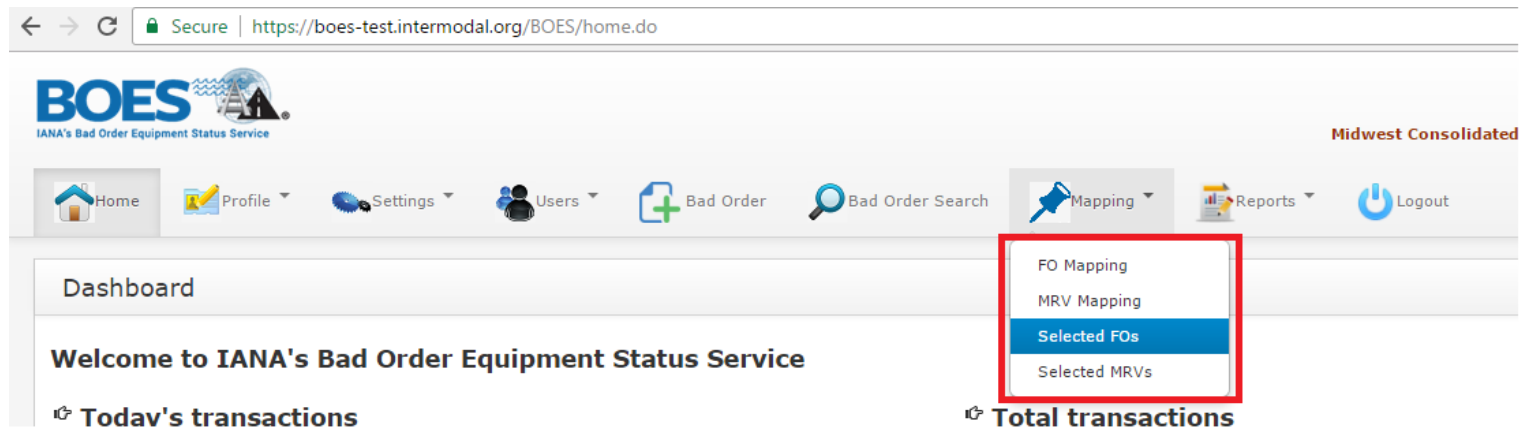
Select Defect : FlatTireRepair

<input type="checkbox"/>	AAR Job Code	AAR Job Description	AAR WM Code	AAR WM Description	Action
<input type="checkbox"/>	1100	FlatTireRepair	16	FlatTire	View
<input checked="" type="checkbox"/>	1100	FlatTireRepair	16	FlatTire	View
<input checked="" type="checkbox"/>	1100	FlatTireRepair	16	FlatTire	View
<input checked="" type="checkbox"/>	1100	FlatTireRepair	16	FlatTire	View

Manage Opt-Out Defect

- Select Defect Category
- Select Specific Defect from drop down menu
- Click the checkbox next to the specific defects that user does not want to receive notifications on and then click “Add”.
- Specific defects shown are based on the Defect Codes that you choose under the Manage Configuration Details – AAR or ISO
- User can delete selections at any time by clicking on the checkbox next to the defect and then clicking Delete.

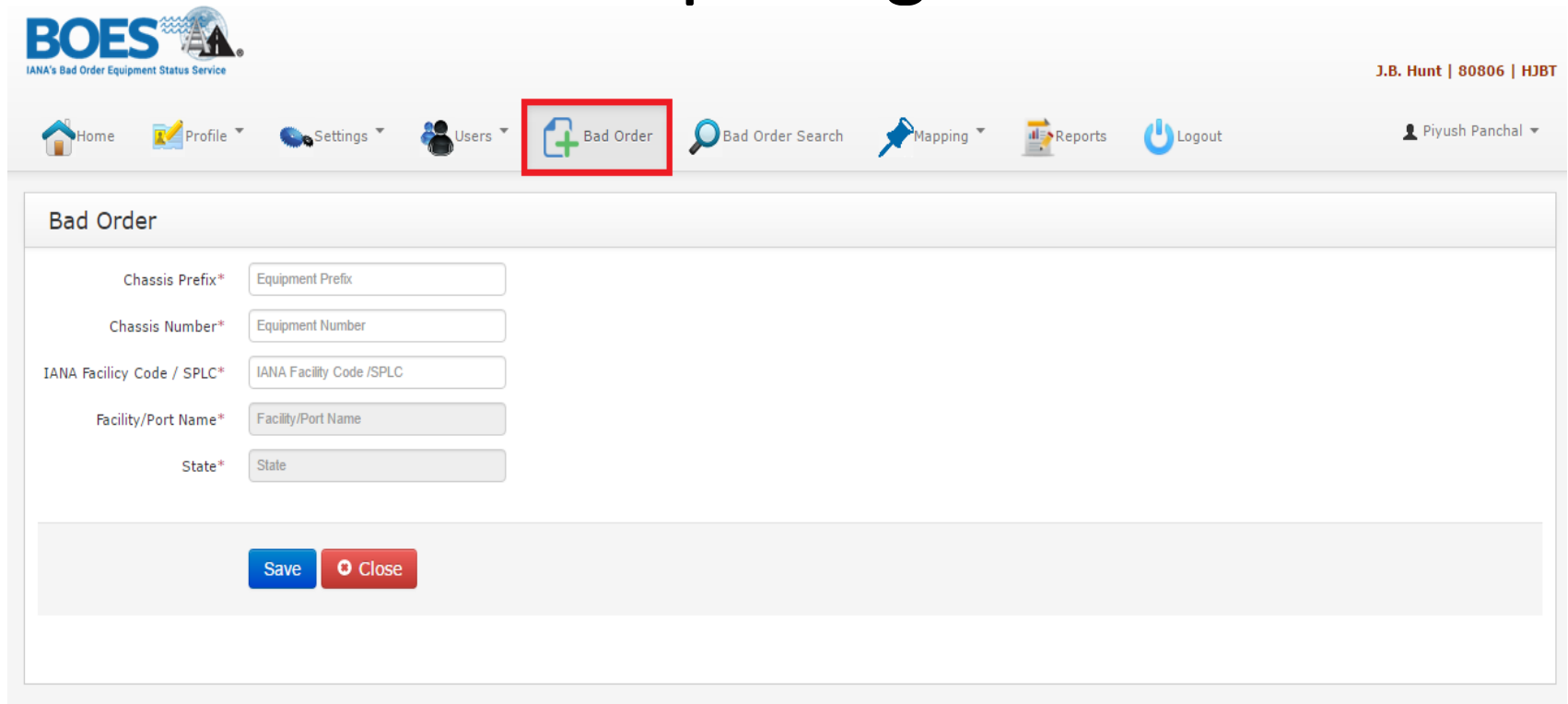
BOES – Mapping of Facility Op/MRVs



Under Mapping tab, the IEP will select the Facility Operator(s) and Maintenance and Repair Vendors for a specific location if they want IANA to send bad order and release notifications to these parties on the IEP's behalf.

In addition, IEP will be able to quickly view selected Facility Operators and Maintenance & Repair Vendors. When Facility Operators and Maintenance & Repair Vendors are logged in then will also be able to quickly view IEPs that have selected them from this screen as well

BOES – Bad Order Reporting



The screenshot displays the BOES (Bad Order Equipment Status) web application interface. At the top left is the BOES logo with the tagline 'IANA's Bad Order Equipment Status Service'. The top right shows the user 'J.B. Hunt | 80806 | HJBT'. The navigation bar includes links for Home, Profile, Settings, Users, Bad Order (highlighted with a red box), Bad Order Search, Mapping, Reports, and Logout. The user 'Piyush Panchal' is logged in.

The main content area is titled 'Bad Order' and contains a form with the following fields:

- Chassis Prefix* (Equipment Prefix)
- Chassis Number* (Equipment Number)
- IANA Facility Code / SPLC* (IANA Facility Code /SPLC)
- Facility/Port Name* (Facility/Port Name)
- State* (State)

At the bottom of the form are two buttons: 'Save' and 'Close'.

Bad Order Reporting

IEP, MRV or FO can report bad order equipment via web interface by providing the following info:

- Chassis Prefix
- Equipment Number
- IANA Location Code or SPLC Code (system will then pre-populate Facility/Port Name and State)

BOES – Bad Order Search Tab

The screenshot shows the BOES (Bad Order Equipment Status Service) web application interface. The browser address bar displays the URL: <https://boes-test.intermodal.org/BOES/badOrderSearchIndex.do>. The page title is "Bad Order Search". The navigation menu includes: Home, Profile, Settings, Users, Bad Order Search (active), Mapping, Reports, and Logout. The main content area is titled "Bad Order Search" and contains a search form with the following fields:

- Select Transaction Type :
- From Transaction Date :
- To Transaction Date :
- EqPrefix :
- EqNumber :
- IANA Location Code :
- Rail Facility/SPLC Code :
- Pool Id :
- Status :

Below the form are two buttons: "Search" (blue) and "Clear Search" (red). A "Notes:" section follows, listing:

- OUT OF SERVICE:** Transaction received for your company, successfully processed at IANA and transmitted to your company and/or designated MRV & FO if any.
- RELEASED:** Equipment has been marked as repaired/released by your company or your designated MRV.
- REJECTED:** Transaction received from your company and has been rejected due to format error OR Equipment or IEP not found in GIER OR identified IEP is not currently receiving transaction from IANA.

Bad Order Search

Search types of transactions by providing various criteria

- From/To Transaction Date
- Equipment Prefix/Number
- IANA Location Code or Rail Facility/SPLC
- Chassis Pool ID
- Status

BOES – Bad Order Search Results

BOES
IANA's Bad Order Equipment Status Service

Trac Intermodal | 1521807 | TAXZ

Home Profile Settings Users Bad Order Search Mapping Reports Logout Piyush Panchal

Bad Order Search Result

Search criteria : Transaction Type : BOES [Modify Search](#)

<input type="checkbox"/>	Sender	Tran. Date	Tran. Type	Chassis Id	IEP	Defects	Status
<input checked="" type="checkbox"/>	TAXZ	06/27/2016	BOES	NSPZ151279	TAXZ	1. ...	RELEASED
<input type="checkbox"/>	TAXZ	06/27/2016	BOES	TNPZ200037	TAXZ	1. ...	OUTOFSERVICE
<input checked="" type="checkbox"/>	TAXZ	06/27/2016	BOES	TNPZ200029	TAXZ		RELEASED
<input checked="" type="checkbox"/>	TAXZ	06/27/2016	BOES	TNPZ200030	TAXZ		RELEASED
<input type="checkbox"/>	TAXZ	06/29/2016	BOES	TNPZ200029	TAXZ	1. ...	OUTOFSERVICE
<input type="checkbox"/>	TAXZ	06/29/2016	BOES	TNPZ200030	TAXZ	1. ...	OUTOFSERVICE
<input type="checkbox"/>	TAXZ	06/29/2016	BOES	TNPZ200026	TAXZ	1. ...	OUTOFSERVICE
<input type="checkbox"/>	TAXZ	06/29/2016	BOES	TNPZ200025	TAXZ	1. ...	OUTOFSERVICE
<input type="checkbox"/>	TAXZ	06/29/2016	BOES	TNPZ200024	TAXZ	1. ...	OUTOFSERVICE
<input type="checkbox"/>	TAXZ	06/29/2016	BOES	TNPZ200037	TAXZ	1. ...	OUTOFSERVICE

[Release All Selected Equip.](#)

Bad Order Search Results

Results are returned based on the search criteria entered. Results return the following:

- Sender
- Transaction Date
- Transaction Type
- Chassis ID
- IEP
- Defects
- Status (Bad Order, Released or Rejected)

BOES – Bad Order Search Results

BOES
IANA's Bad Order Equipment Status Service

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Home Profile Settings Users Bad Order Search Mapping Reports Logout Piyush Panchal

Bad Order Search Result

Search criteria : Transaction Type : BOES [Modify Search](#)

<input type="checkbox"/>	Sender	Tran. Date	Tran. Type	Chassis Id	IEP	Defects	Status
<input checked="" type="checkbox"/>	TAXZ	06/27/2016	BOES	NSPZ151279	TAXZ	1. ...	RELEASED
<input type="checkbox"/>	TAXZ	06/27/2016	BOES	TNPZ200037	TAXZ	1. ...	OUTOFSERVICE
<input checked="" type="checkbox"/>	TAXZ	06/27/2016	BOES	TNPZ200029	TAXZ		RELEASED
<input checked="" type="checkbox"/>	TAXZ	06/27/2016	BOES	TNPZ200030	TAXZ		RELEASED
<input type="checkbox"/>	TAXZ	06/29/2016	BOES	TNPZ200029	TAXZ	1. ...	OUTOFSERVICE
<input type="checkbox"/>	TAXZ	06/29/2016	BOES	TNPZ200030	TAXZ	1. ...	OUTOFSERVICE
<input type="checkbox"/>	TAXZ	06/29/2016	BOES	TNPZ200026	TAXZ	1. ...	OUTOFSERVICE
<input type="checkbox"/>	TAXZ	06/29/2016	BOES	TNPZ200025	TAXZ	1. ...	OUTOFSERVICE
<input type="checkbox"/>	TAXZ	06/29/2016	BOES	TNPZ200024	TAXZ	1. ...	OUTOFSERVICE
<input type="checkbox"/>	TAXZ	06/29/2016	BOES	TNPZ200037	TAXZ	1. ...	OUTOFSERVICE

[Release All Selected Equip.](#)

Bad Order Status Breakdown

Bad Order – System received transaction identifying unit was bad ordered.

Released – Equipment has been marked as repaired/released by user or designated MRV.

Rejected – System received transaction, however its been rejected due to format error, IEP not found or IEP found but not setup to receive transactions from BOES system.

BOES – Bad Order Release

Bad Order Search Results

Search criteria : Transaction Type

<input type="checkbox"/>	Sender	Transaction	Status
<input checked="" type="checkbox"/>	TAXZ	06/27/2016	OUT OF SERVICE
<input checked="" type="checkbox"/>	TAXZ	06/27/2016	OUT OF SERVICE
<input checked="" type="checkbox"/>	TAXZ	06/27/2016	OUT OF SERVICE
<input checked="" type="checkbox"/>	TAXZ	06/27/2016	OUT OF SERVICE
<input type="checkbox"/>	TAXZ	06/29/2016	OUT OF SERVICE
<input type="checkbox"/>	TAXZ	06/29/2016	OUT OF SERVICE
<input type="checkbox"/>	TAXZ	06/29/2016	OUT OF SERVICE
<input type="checkbox"/>	TAXZ	06/29/2016	OUT OF SERVICE
<input type="checkbox"/>	TAXZ	06/29/2016	OUT OF SERVICE
<input type="checkbox"/>	TAXZ	06/29/2016	OUT OF SERVICE

Bad Order Release

Repair Completed : *

Authorized By : *

Comments : *

Equipment Release Via Web Portal (IEP, MRV or FO)

To release equipment via web portal, simply click on checkbox next to the unit to be released and then click on **RELEASE ALL SELECTED EQUIP** at the bottom of the page. (Note multiple units can be released at the same time)

Party verifying the repair completes Repair Completed, Authorized By and any addl. comments related to the repair. Then clicks **SUBMIT**.

BOES – Bad Order Reporting

Reports

Number of Bad Orders Received

Defects trend

From Transaction Date :

To Transaction Date :

Search

Clear Search

IEP Name	Trans Date	Total BadOrders Received
Trac Intermodal	01-07-2016	164
Trac Intermodal	01-08-2016	4
Trac Intermodal	02-08-2016	4

Using Bad Orders Received As Report Criteria

Reports

Number of Bad Orders Received

Defects trend

From Transaction Date :

To Transaction Date :

Select Transaction Type :

Select Defect :

Search

Clear Search

Using Defect Trends – Available by both DVIR or Bad Order Transaction Type

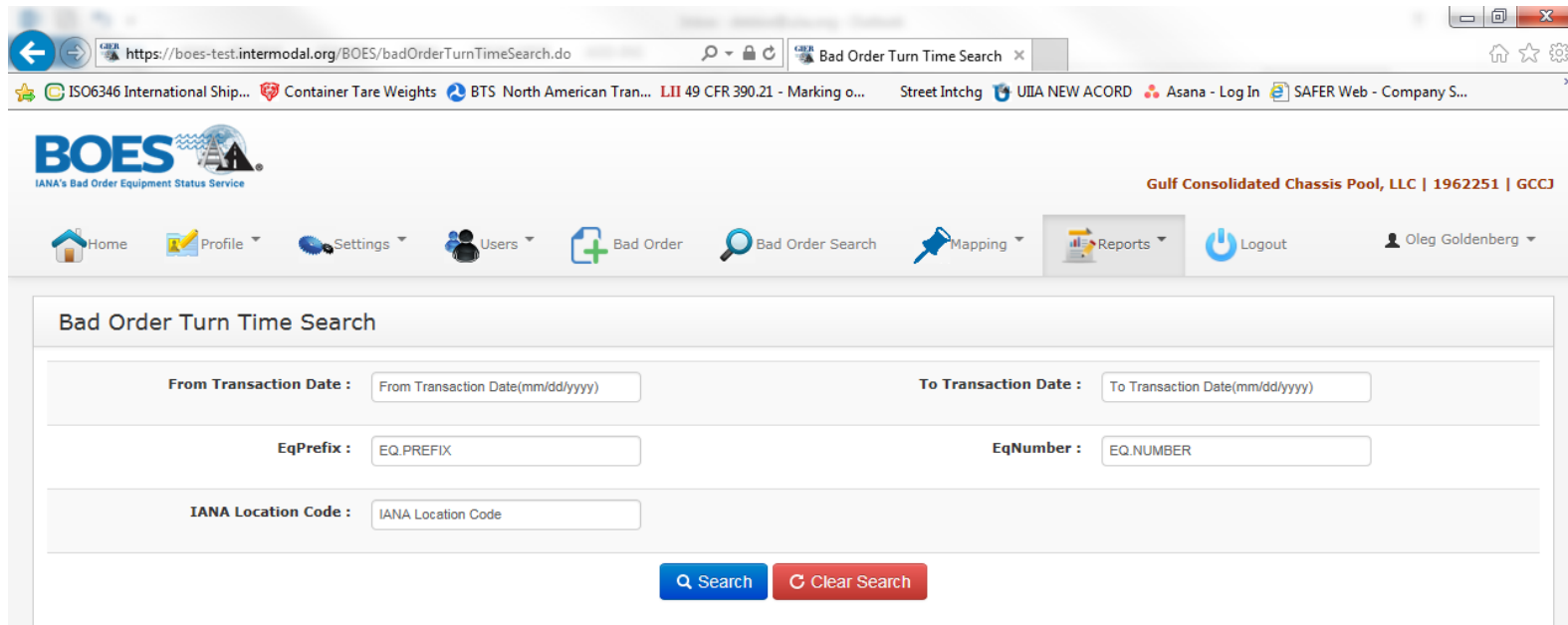
Reporting – available by

- Number of Bad Orders Received by date range
- Defects Trend – pulls statistics on defects by date range, transaction type or defect. This applies to BOES and DVIR only.

BOES – Bad Order Reporting – cont'd

Bad Order Turn Time Report – This report will allow user to track the time when a unit is placed in bad order and then released. Reporting parameters are:

- 1) By Date
- 2) By Equipment ID
- 3) By Location Code



The screenshot shows a web browser window with the URL <https://boes-test.intermodal.org/BOES/badOrderTurnTimeSearch.do>. The browser's address bar and tabs are visible at the top. Below the browser, the BOES logo is displayed on the left, and the text "Gulf Consolidated Chassis Pool, LLC | 1962251 | GCCJ" is on the right. A navigation menu includes Home, Profile, Settings, Users, Bad Order, Bad Order Search, Mapping, Reports, Logout, and a user profile for Oleg Goldenberg. The main content area is titled "Bad Order Turn Time Search" and contains a search form with the following fields:

- From Transaction Date :** From Transaction Date(mm/dd/yyyy)
- To Transaction Date :** To Transaction Date(mm/dd/yyyy)
- EqPrefix :** EQ.PREFIX
- EqNumber :** EQ.NUMBER
- IANA Location Code :** IANA Location Code

At the bottom of the form, there are two buttons: a blue "Search" button and a red "Clear Search" button.

Recent New BOES Features

- Addition of web portal for all BOES activities.
- BOES to advise a (Y/N) BOES field in GIER. In this way, if a piece of equipment had an outstanding BOES bad order, the GIER BOES field would indicate (Y) if the BOES user selected GIER as a notification means.
- Addition of optional ability to release all outstanding BOES request IDs on a piece of equipment.
- Addition of the ability to process container/Genset bad order and repair notifications.
- Addition of the ability to track repair turn time from original notification through release.
- Maintain IEP's fleet file where bi-lateral agreement exists on unit.

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