Overview of IANA’s Intermodal Driver Database (IDD) and Bad Order Equipment Status Service (BOES)
IANA Information Services

- BOES: Bad Order Equipment Status
- IDD: Intermodal Driver Database
- DVER: Driver Vehicle Examination Report
- UIIA: Uniform Intermodal Interchange and Facilities Access Agreement
- DVIR: Driver Vehicle Inspection Reporting
- GIER: Global Intermodal Equipment Registry
- TFS: Terminal Feed Service
- SIA: Street Interchange Application
IANA’s Intermodal Driver Database (IDD)

- **Benefits of the Intermodal Driver Database include:**
  - **Assists with Preventing Fraudulent Use of SCAC Codes** – When a driver enters a facility a simple check of the IDD will confirm if that driver is currently employed by MC SCAC they are accessing the facility on behalf of and if they have a valid license.
  - **Potential to Increase Cargo/Unit Visibility and Theft Prevention**
  - **Increases Motor Carrier and Facility efficiencies by reducing vehicle queue time.**
  - **Centralized Web Interface** - Provides centralized user interface linked to the UIIA for Motor Carriers to manage and update their drivers as well as their interchange status with UIIA EPs.
  - **Provides real-time access to driver information on over 450,000 active drivers representing over 7,800 Motor Carriers.**
Benefits of the Intermodal Driver Database include:

- **Check of License State Formatting** – Validates driver license numbers entered to ensure they are meet the state formatting requirements.

- **Automated Notifications to Drivers of Upcoming License Expiration** – Motor Carriers are notified 30 days in advance of an upcoming license expiration. It is the Motor Carrier’s responsibility to update this information for the drivers it has registered in the IDD.

- **No Activity Notifications** – The IDD tracks activity on accounts and if it sees that a Motor Carrier has not logged into its account within the past 30 days a notice is generated to the company reminding them to ensure their driver information is up-to-date.
IANA Intermodal Driver Database Overview

- Centralized and secured database for Motor Carriers to register and manage their drivers.

- Drivers registered through online web interface (through the Motor Carrier’s UIIA account access) or electronically via FTP.

- IDD links directly with Terminal Feed Service program to validate a MC’s interchange status with an EP and confirm whether the driver is active for the MC that is accessing the facility.

- Four Class I Railroads currently use the IDD for confirmation of driver information for intermodal facility access:
  - BNSF Railway
  - CSX Intermodal
  - Norfolk Southern
  - Union Pacific

- Communication methods available:
  - API/Web Service via XML
  - Web Portal
# Sample Intermodal Driver Database Record Layout

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Format</th>
<th>Length of Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCAC</td>
<td>Character</td>
<td>10</td>
<td>SCAC Code</td>
</tr>
<tr>
<td>DV_HIRE</td>
<td>Date</td>
<td>8 – ccymmmdd</td>
<td>Driver Hired Date</td>
</tr>
<tr>
<td>DV_TERM</td>
<td>Date</td>
<td>8 – ccymmmdd</td>
<td>Driver Termination Date</td>
</tr>
<tr>
<td>DSP_OFFICE</td>
<td>Character</td>
<td>13</td>
<td>Driver Dispatch Office</td>
</tr>
<tr>
<td>FIRSTNAME</td>
<td>Character</td>
<td>20</td>
<td>First Name of Driver</td>
</tr>
<tr>
<td>MID</td>
<td>Character</td>
<td>1</td>
<td>Middle Initial of Driver</td>
</tr>
<tr>
<td>LASTNAME</td>
<td>Character</td>
<td>20</td>
<td>Last Name of Driver</td>
</tr>
<tr>
<td>LICENSE</td>
<td>Character</td>
<td>20</td>
<td>Driver’s License Number</td>
</tr>
<tr>
<td>LIC_STATE</td>
<td>Character</td>
<td>2</td>
<td>State License Issued</td>
</tr>
<tr>
<td>LIC_CNTRY</td>
<td>Character</td>
<td>3</td>
<td>Country</td>
</tr>
<tr>
<td>LIC_EXPIRE</td>
<td>Date</td>
<td>8 – ccymmmdd</td>
<td>License Expiration Date</td>
</tr>
<tr>
<td>TIMESTAMP</td>
<td>Character</td>
<td>14 – ccymmmddmmss</td>
<td>Timestamp of Record Activity</td>
</tr>
</tbody>
</table>
Sample API Query/Return – Driver Lookup

Input Params

```json
{
  "accessToken": "Your Access Token",
  "driverLicenseNo": "Provide driver License No",
  "licenseState": "Provide license State",
  "iddPin": "Provide driver PIN",
  "mcSCAC": "Provide MC SCAC"
}
```

JSON Response

```json
[
  {
    "firstName": "First Name",
    "lastName": "Last Name",
    "driverLicenseNo": "Driver License No",
    "licenseState": "License State",
    "licenseExpiryDate": "License Expiry Date",
    "status": "Status",
    "mcSCAC": "Motor Carrier SCAC",
    "iddPin": "IDD PIN"
  }
]
```

XML Response

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<APIRESPONSE>
  <IDDDRIVERS>
    <IDDDRIVER>
      <FIRSTNAME>First Name</FIRSTNAME>
      <LASTNAME>Last Name</LASTNAME>
      <LICENSENUMBER>License No</LICENSENUMBER>
      <LICENSESTATE>License State</LICENSESTATE>
      <LICENSE_EXPIRYDATE>License Expiry Date</LICENSE_EXPIRYDATE>
      <STATUS>Status</STATUS>
      <MCSCAC>Motor Carrier SCAC</MCSCAC>
      <IDDPIN>IDD PIN</IDDPIN>
    </IDDDRIVER>
  </IDDDRIVERS>
</APIRESPONSE>
```
Sample API Query/Return – Driver Lookup/UIIA TFS
Regional IDD Driver Registration

(As of Tue Feb 12 13:19:06 EST 2019)

Total Records: 453483

- additional drivers registered:
  - Canada - 10973 / 2.4%
  - Mexico - 3682 / 0.8%
  - Puerto Rico - 4 / 0.0%
  - AK and HI included in regional counts

- regional counts:
  - 16795 / 3.7%
  - 80632 / 17.8%
  - 81983 / 18.1%
  - 84033 / 18.5%
  - 112461 / 24.8%
  - 62919 / 13.9%
IDD Driver Registration

Driver Search Screen

Add Dispatch Office
### IDD Driver Registration

#### Add/Edit Driver Detail Record

**Note:** Hyphenated Last Names - Please enter full hyphenated last name in the LAST NAME field. Do NOT put a portion of the hyphenated last name in the Middle Initial field. Please also be careful to make sure that you enter the driver’s first name in the FIRST NAME field and driver’s last name in the Driver’s LAST NAME field.

Driver Updates to Rails - Please note driver updates are currently transmitted electronically to Union Pacific, CSX Intermodal & BNSF every 15-30 minutes. Upon receipt of the update, each rail may take up to 30-45 minutes to process the driver update within their own internal system.

<table>
<thead>
<tr>
<th>Company Details</th>
<th>Company</th>
<th>Sasco Trucking &amp; Distribution</th>
<th>SCAC Code</th>
<th>TTTT</th>
<th>DNSF Pin Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver Details</td>
<td>Driver No.</td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>First Name</td>
<td></td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last Name</td>
<td></td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date of Birth</td>
<td></td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lic No.</td>
<td></td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>License State</td>
<td>-- Select --</td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hiring Date</td>
<td></td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disp Phone</td>
<td>-- Select --</td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ramp Details</td>
<td>Click here to select ramps for EPs</td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Details</td>
<td>CDL Yes/No</td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazardous Material</td>
<td>Yes/No</td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Double Endorsement</td>
<td>Yes/No</td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tractor Details</td>
<td>Tractor/Truck License Plate No.</td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tractor RFID</td>
<td></td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address Details</td>
<td>Address 1</td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Address 2</td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zip</td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>State</td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phone No. 1</td>
<td></td>
<td>DNSF Pin Number</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**_save**  **_back_**  **_close_**
IANA assigns login credentials to subscriber to access web portal. Only Account Number & Password are required for Master Users. Secondary users would also need to have a user name that would be assigned by the Master Users.
IDD Subscriber Web Portal Access

Click on WEB QUERY once logged in: **Driver Lookup Only**

Subscriber would enter MC SCAC, Driver’s License Number & License State (optional) and system would return:
- Status of Driver for MC SCAC
- Hired Date/Termination Date (if applicable)
- Status of MC SCAC in the UIIA (for base Agreement requirements)
- MC SCAC Contact Details
IDD Subscriber Web Portal Access

Click on WEB QUERY once logged in: Driver License Search

Subscriber may also enter UIIA in the MC SCAC field and then the first seven digits of a driver’s license number and hit GENERATE QUERY. The system will return any driver’s license in the IDD that meets the criteria entered.

Return Results include: MC SCAC, Driver First Name, Driver Last Name, License Number, License State, Hired Date, Termination Date
IDD Subscriber Web Portal Access

Click on WEB QUERY once logged in: Driver & UIIA Search

IDD Subscriber that also is receiving UIIA status information under the Terminal Feed Service may use the portal to query both a driver and the UIIA information by entering MC SCAC, Driver’s License, License State and EP SCAC.

Results return will include: Driver Status for MC SCAC, Driver’s Hired/Termination Date (if applicable), MC UIIA Status w/EP, MC Contact Details and Expiration Dates of the four primary insurance policies.
Bad Order Equipment Status Service (BOES)
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.

• Handles 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

- **On Terminal Defect Event**
  - Bad Order Hold
  - 322 or XML Origination Notice by FO, IEP or MRV

- **At Gate and Pre-gate DVIR**
  - Equipment Release
  - Release Reject, Not Inventoried

- **FMCSA Roadside DVER**
  - Defect Notice
  - Repair Auth.

- **FMCSA Annual / CA BIT Inspection Lapse**
  - Defect Notice
  - Repair Auth.

- **Container / GenSet Defects**
  - Defect Notice
  - Repair Auth.

**IANA Bad Order Equipment Status Service**

**FO**
- Bad Order Receipt
- Equipment Release

**MRV**
- MRV System

**IEP**
- IEP
- Repair Auth.

- AAR / ISO Conversion
- IEP Registers as AAR or ISO Defect Coding
- IEP opt out for each Bad Order Code
- IEP to approve MRVs and FOs
How does BOES work?

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

- FO or IEP transmits an inbound 322 EDI, XML transaction or via BOES web portal 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 the DVIR 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.
- IANA does check incoming DVIR for out of service violation. If defect found on DVIR transaction for a BOES Subscriber, IANA will generate bad order transaction in BOES notifying the appropriate IEP and any of its designated FOs and MRVs.
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.
Functionalities Available in BOES

- Addition of web portal for all BOES activities.
- Ability to report bulk bad order and release notifications on equipment using simple Excel template via the BOES web portal.
- 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. Note IEP would need to be a subscriber of BOES to utilize this functionality.
- Addition of optional ability to release all outstanding BOES request IDs on a piece of equipment.
Functionalities Available in BOES

- 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.
- BOES mobile application is available to provide MRVs on terminal with another efficient method to report equipment status information.
IEP, MRV or FO can report bad order equipment via web interface by providing the following info:

- Chassis Prefix
- Equipment Number
- IANA Location Code/SPLC Code or Facility Name (dropdown will appear based on parameters entered for user to select and populate field with the correct Facility/Port Name and State. Note: Only those locations associated with the logged in user will be displayed.)
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**.
Questions regarding the IDD or BOES programs should be directed to:

**General Questions**
Debbie Sasko
Tel: 301-982-3400 ext. 352
Email: debbie.sasko@intermodal.org

Technical Questions
Piyush Panchal
Tel: 301-982-3400 ext. 325
Email: ppanchal@intermodal.org

Sherry Parnell
Tel: 301-982-3400 ext. 348
Email: sherry.parnell@intermodal.org

Stacie Fagan
Tel: 301-982-3400 ext. 369
Email: stacie.fagan@intermodal.org