

BigRoad API v3 Reference

September 2026

Table of Contents

Getting Started	2
Authentication.....	2
Security	3
Try it out.....	3
Primary Endpoints	4
Get permitted fleets	4
Get fleet members.....	4
Get person status	6
Get DVIRs for a person	8
Get DVIRs for a fleet.....	9
Get daily driver logs for a person.....	11
Get daily driver logs for a fleet.....	14
Query for changes to daily driver logs.....	16
Get unassigned mileage information for a fleet.....	17
Get hours of service violation information for a fleet.....	18
Additional Endpoints	20
Get person details	20
Get person hours-of-service status only	21
Get person location status only	21
Get fleet members' statuses	22
Get fleet members' hours-of-service statuses only.....	23
Get fleet members' location statuses only	23
Get Fuel Receipts for a fleet.....	24
XML Schema	26

Getting Started

BigRoad offers a RESTful API for use by third-party developers. Using the API requires a basic knowledge of the HTTP protocol, web services, and XML.

All API calls are made using HTTP requests to a URL of the form:

```
https://api.bigroad.com/api/v3/<endpoint>?apiKey=<your key>
```

Breaking down this URL, you will notice a few important details:

https://	All API requests must be made over SSL. This ensures the security and authenticity of data, and keeps the API authorization key private.
api.bigroad.com	The BigRoad API host. Always use this fully qualified domain name since BigRoad may employ dynamic load balancing to multiple host IP addresses for scalability.
/api/v3	This path prefix points to a specific version of the API schema.
/<endpoint>	This path suffix will be set to a specific value based on the API endpoint you wish to use. See more about specific API endpoints below.
?apiKey=<your key>	This request parameter is used to authenticate your API client and is required for all requests, but may be mixed with other query parameters depending on the specific endpoint. See the Authentication section below for more information.

Authentication

BigRoad employs a simple authentication scheme for API clients. An API key is passed as a parameter in all requests and this key is used to determine if you are authorized to access the requested data.

Application Partners

As a BigRoad application partner, you will be given a single API key. Using this key, you may access data for any fleet that has permitted your application. Fleet administrators are responsible for enabling 3rd party API access so your company must work with the correct member of the fleet to enable integration.

Fleet Customers

As a BigRoad customer, you can request an API key by contacting our support department. Your API key only permits access to data associated with your fleet.

API Key Confidentiality

The BigRoad API uses SSL to ensure the API key you have been assigned will remain private, but you should also take precautions to safeguard your key. Do not share your key with anyone who does not need access to it for his or her day-to-day work.

If your key is compromised, you can request a new key be generated at any time. This will invalidate the old key so that it can no longer be used.

Security

The BigRoad SSL certificate was issued by a certificate authority certified by COMODO. You should have no trouble establishing a TLS session with the BigRoad API server as long as the COMODO root certificate is installed on your client host. This should be the case with virtually all up-to-date operating systems.

Try it out

You can try any API request from the command line using cURL ([get it here](#)). For example, you can get the list of people belonging to the fleet with id 1 using the following command:

```
curl "https://api.bigroad.com/api/v3/fleets?apiKey=00000000000000000000000000000000"
```

If you substitute your API key, you should get a response containing all the fleets that your API key grants access to. The response will look like:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<fleets>
  <fleet id="1">
    <name>Renegade Trucking</name>
    <phone>(410) 555-4050</phone>
    <address>
      <street>1401 Russell St</street>
      <city>Baltimore</city>
      <state>MD</state>
      <postal-code>21230</postal-code>
      <country>United States</country>
    </address>
    <contact id="1">
      <email>joe@example.com</email>
      <first-name>Joe</first-name>
      <last-name>Manager</last-name>
      <phone>555-4050</phone>
    </contact>
  </fleet>
</fleets>
```

Primary Endpoints

Endpoints are distinguished by HTTP request method and URL. When possible, the APIs follow a typical RESTful pattern of using a sensible method (i.e. GET for retrieving data, POST for inserting new data, PUT for updates, DELETE for deletes, etc), and resource path (i.e. /fleet for fleet-related data, /person for person-related data, etc).

Each endpoint documented below lists the HTTP request method, followed by a template path for the resource associated with the endpoint.

Get permitted fleets

```
GET https://api.bigroad.com/api/v3/fleets
```

Gets a list of fleets that have enabled access to your API key.

Use this API to discover which fleets have turned on integration with your application or service. You can use the id attribute from the response to perform further API requests specific to a given fleet.

Example response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<fleets>
  <fleet id="1">
    <name>Renegade Trucking</name>
    <phone>(410) 555-4050</phone>
    <address>
      <street>1401 Russell St</street>
      <city>Baltimore</city>
      <state>MD</state>
      <postal-code>21230</postal-code>
      <country>United States</country>
    </address>
    <contact id="1">
      <email>joe@example.com</email>
      <first-name>Joe</first-name>
      <last-name>Manager</last-name>
      <phone>555-4050</phone>
    </contact>
    <dotNumber>12356</dotNumber>
  </fleet>
</fleets>
```

Get fleet members

```
GET https://api.bigroad.com/api/v3/fleet/<fleet id>/people
```

Gets basic identifying information for all active members of a fleet.

Use this API to get a list of all people that currently belong to a fleet. You may wish to map BigRoad person IDs to identifiers in your system, or use the employee number or email address fields (user-editable through the BigRoad web application) as common identifiers for mapping purposes.

You can retrieve all members of a fleet, or use one of the optional request parameters to restrict results based on email address, role, or employee number.

Request parameters

Required Parameter	Usage	Description
<fleet id>	URL path (see above)	BigRoad identifier for fleet whose members will be fetched.

Optional Parameter	Usage	Description
email	URL query parameter: &email=joe@example.com	Email address for member to be fetched (case insensitive).
employeeNum	URL query parameter: &employeeNum=1234567	Employee number for member to be fetched.
role	URL query parameter: &role=driver	Role of employees to be fetched. One of: driver, dispatcher, safety-manager or admin.

Example response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<people>
  <person id="14124">
    <email>angus@example.com</email>
    <first-name>Angus</first-name>
    <last-name>McMillan</last-name>
    <phone>1-555-555-5555</phone>
    <fleet-membership>
      <employee-number>A141</employee-number>
      <role name="admin"/>
      <role name="dispatcher"/>
    </fleet-membership>
    <dotNumber>23467</dotNumber>
  </person>
  <person id="15243">
    <email>jen@example.com</email>
    <first-name>Jennifer</first-name>
    <last-name>Ruiz</last-name>
    <fleet-membership>
      <role name="driver"/>
    </fleet-membership>
  </person>
</people>
```

```
</person>
</people>
```

The `id` attribute is the canonical BigRoad person identifier and may be subsequently used with any of the person API endpoints.

The role elements may include any combination of driver, dispatcher, safety-manager and admin.

Get person status

```
GET http://api.bigroad.com/api/v3/person/<person id>/status
```

Gets latest hours-of-service and location information for a single person.

Request Parameters

Required Parameter	Usage	Description
<person id>	URL path (see above)	BigRoad identifier for person whose status will be fetched.

Optional Parameter	Usage	Description
hardwareOnly	URL query parameter: <code>&hardwareOnly=true</code>	Set to true to fetch only hardware (DashLink) sourced GPS locations.

Example response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<person id="15243">
  <hos-status as-of="2013-09-27T20:25:62.634Z">
    <duty-status>OF</duty-status>
    <availability>
      <drive>3600000</drive>
      <shift>4800000</shift>
      <cycle>97200000</cycle>
    </availability>
    <rest-break>
      <max-drive>2400000</max-drive>
      <rest-remaining>1380000</rest-remaining>
    </rest-break>
    <daily-log-summary date="2013-09-27">
      <duty-status code="OF">15962634</duty-status>
      <duty-status code="SL">0</duty-status>
      <duty-status code="DR">36000000</duty-status>
      <duty-status code="ON">43200000</duty-status>
    </daily-log-summary>
    <daily-log-summary date="2013-09-26">
```

```

    <duty-status code="OF">86400000</duty-status>
    <duty-status code="SL">0</duty-status>
    <duty-status code="DR">0</duty-status>
    <duty-status code="ON">0</duty-status>
    <duty-status code="WT">0</duty-status>
  </daily-log-summary>
</hos-status>
<location as-of="2013-09-27T20:21:15.522Z">
  <position lat="42.312178" lon="-80.502228" accuracy="15"/>
  <speed>13.89</speed>
  <bearing>27</bearing>
</location>
</person>

```

Duty status will be one of the following:

- OF** Off duty
- SL** Sleeper berth
- DR** Driving
- ON** On duty (not driving)
- WT** Waiting at oilfield (for oilfield exception only)

All hours-of-service availability data is specified in milliseconds. Availability values are defined as:

- drive** Total time available to drive at the moment the API request was made. For example, a U.S. property-carrying driver qualifying for no special exceptions would have a value of 39600000 (11 hours) if this request was made right after a shift or cycle reset.
- shift** Total time available to be on-duty before the end of the current duty shift. For example, a U.S. property-carrying driver qualifying for no special exceptions would have a value of 50400000 (14 hours) if this request was made right after a shift or cycle reset.
- cycle** Total time available to be on-duty before the next cycle reset or the end of the current day. For example, a U.S. property-carrying driver using the 70hr/8day cycle would have a value of 252000000 (70 hours) if this request was made right after a cycle reset.

This value will decrease as time elapses in an on-duty status, but may increase after each day's end if a day with any on-duty time rolls off the beginning of the cycle window.

Rest break data is included where applicable (i.e. where the currently chosen hours-of-service rules require breaks, and when a rest break is still required in the remaining drive and duty hours). Rest break values are defined as:

- max-drive** Maximum time available to drive before a rest break is required, from the moment the API request was made. For example, a U.S. property-carrying driver qualifying for no

special exceptions would have a value of 28800000 (8 hours) if this request was made right after a shift or cycle reset.

rest-remaining Total time remaining before a driver completes their rest break. For example, a U.S. property-carrying driver qualifying for no special exceptions would have a value of 1800000 (30 minutes) before going off duty to take a rest break.

All location data is specified with the following units:

accuracy meters

speed meters/second

bearing degrees from true north

Get DVIRs for a person

```
GET https://api.bigroad.com/api/v3/person/<person id>/dvirs
```

Gets a list of DVIRs for a given person over a range of days.

Request parameters

Required Parameter	Usage	Description
<person id>	URL path (see above)	BigRoad identifier for person whose DVIRs will be fetched.
startDate	URL query parameter: &startDate=2014-01-07	First date for which DVIRs will be fetched.
endDate	URL query parameter: &endDate=2014-01-13	Last date for which DVIRs will be fetched.

Optional Parameter	Usage	Description
requireDefect	URL query parameter: &requireDefect=true	Set to true to fetch only DVIRs that include at least one defect. Defaults to false (all DVIRs returned).

Example response

```
<dvirs>
  <dvir id="210789" fleet-id="1" person-id="1" date="2014-01-07">
    <carrier-name>Renegade Trucking</carrier-name>
    <inspector-name>Lee Payne</inspector-name>
    <inspection>
      <vehicle id="2" type="Truck">
        <number>133</number>
        <license>N1N J45</license>
      </vehicle>
      <occurred-at>2014-01-07T12:08:00.000Z</occurred-at>
      <location-name>Kitchener, ON</location-name>
      <odometer unit="KM">105124</odometer>
      <found-defects>true</found-defects>
      <remarks>Cracked brake hose on power unit side.</remarks>
    </inspection>
    <inspection>
      <vehicle type="Trailer">
        <number>4121200</number>
        <license>CT 41291</license>
      </vehicle>
      <occurred-at>2014-01-07T12:24:00.000Z</occurred-at>
      <location-name>Kitchener, ON</location-name>
      <odometer unit="MI">521352</odometer>
      <found-defects>false</found-defects>
    </inspection>
  </dvir>
</dvirs>
```

Vehicle type will be one of:

Truck power unit (truck or bus)

Trailer trailer

Each odometer value may or may not have units specified. When specified, the unit will be one of:

KM kilometers

MI miles

Get DVIRs for a fleet

```
GET https://api.bigroad.com/api/v3/fleet/<fleet id>/dvirs
```

Gets the list of DVIRs for a given fleet over a range of days. The response uses the same format as the person version of this API call, but may include data for any person in the fleet who submitted a DVIR in the given date range.

Request parameters

Required Parameter	Usage	Description
--------------------	-------	-------------

<fleet id>	URL path (see above)	BigRoad identifier for fleet whose DVIRs will be fetched.
startDate	URL query parameter: &startDate=2014-01-07	First date for which DVIRs will be fetched.
endDate	URL query parameter: &endDate=2014-01-13	Last date for which DVIRs will be fetched.

Optional Parameter	Usage	Description
requireDefect	URL query parameter: &requireDefect=true	Set to true to fetch only DVIRs that include at least one defect. Defaults to false (all DVIRs returned).

Example response

```

<dvir>
  <dvir id="210789" fleet-id="1" person-id="1" date="2014-01-07">
    <carrier-name>Renegade Trucking</carrier-name>
    <inspector-name>Lee Payne</inspector-name>
    <inspection>
      <vehicle id="2" type="Truck">
        <number>133</number>
        <license>N1N J45</license>
      </vehicle>
      <occurred-at>2014-01-07T12:08:00.000Z</occurred-at>
      <location-name>Kitchener, ON</location-name>
      <odometer unit="KM">105124</odometer>
      <found-defects>true</found-defects>
      <remarks>Cracked brake hose on power unit side</remarks>
    </inspection>
    <inspection>
      <vehicle type="Trailer">
        <number>4121200</number>
        <license>CT 41291</license>
      </vehicle>
      <occurred-at>2014-01-07T12:24:00.000Z</occurred-at>
      <location-name>Kitchener, ON</location-name>
      <odometer unit="MI">521352</odometer>
      <found-defects>false</found-defects>
    </inspection>
  </dvir>
  <dvir id="210823" fleet-id="1" person-id="2"
    date="2014-01-13">
    <carrier-name>Renegade Trucking</carrier-name>
    <inspector-name>Marcia Herteis</inspector-name>
    <inspection>
      <vehicle id="2" type="Truck">
        <number>133</number>
        <license>N1N J45</license>
      </vehicle>
      <occurred-at>2014-01-13T21:14:00.000Z</occurred-at>
      <found-defects>false</found-defects>
    </inspection>
  </dvir>

```

```
</inspection>
</dvir>
</dvirs>
```

Get daily driver logs for a person

GET <https://api.bigroad.com/api/v3/person/<person id>/daily-logs>

Gets a list of daily logs for a given person over a range of days.

Request parameters

Required Parameter	Usage	Description
<person id>	URL path (see above)	BigRoad identifier for person whose daily logs will be fetched.
startDate	URL query parameter: &startDate=2014-01-07	First date for which daily logs will be fetched.
endDate	URL query parameter: &endDate=2014-01-13	Last date for which daily logs will be fetched.
isCertified	URL query parameter: &isCertified=true	Optional: if set – only either certified, or uncertified logs will be return
manualVin	URL query parameter: &manualVin=true	Optional: if set to true, the manually-entered VIN is returned in every <vin> element; if set to false, the ECM-reported VIN is returned. Defaults to false (ECM-reported VIN) when omitted or when the value cannot be parsed as a boolean.

Example response

```
<daily-logs>
  <daily-log person-id="1" date="2014-05-23" revision="515">
    <driver-name>Lee Payne</driver-name>
    <co-drivers>Dan Collens</co-drivers>
    <carrier-name>Renegade Trucking</carrier-name>
    <carrier-address>1401 Russell St, Baltimore, MD, 21230</carrier-address>
    <home-terminal-address>123 Another St</home-terminal-address>
    <is-certified>true</is-certified>
    <truck truck-id="22" platform-id="6123b3d5-e367-46bf-89c2-ff3739898da0">
```

```

    <number>133i0S</number>
    <license>ALYJ 633</license>
    <start-odometer unit="KM">123456</start-odometer>
    <end-odometer unit="KM">123556</end-odometer>
    <distance unit="KM">100</distance>
    <vin>1GKEC13T61J230960</vin>
  </truck>
  <trailers>4127 &lt;ACPS 412&gt;</trailers>
  <shipments>Q109A88667</shipments>
  <remarks>Extreme weather caused unusual delay on this date.</remarks>
  <hos-settings>
    <home-timezone>US/Eastern</home-timezone>
    <cycle>U.S. 70hr/8day</cycle>
    <vehicle-type>Property</vehicle-type>
    <exception name="US-24h-reset"/>
    <exception name="US-oilfield-wait"/>
  </hos-settings>
  <driver-approved-at>2014-05-27T20:53:49.386Z</driver-approved-at>
  <last-modified-at>2014-05-27T20:53:49.386Z</last-modified-at>
  <event continuation="true">
    <occurred-at>2014-05-23T00:00:00.000-04:00</occurred-at>
    <duration>720</duration>
    <duty-status>SL</duty-status>
  </event>
  <event>
    <occurred-at>2014-05-23T12:00:00.000-04:00</occurred-at>
    <duration>179</duration>
    <duty-status>ON</duty-status>
    <location-name>Kitchener, ON</location-name>
    <position lat="43.421225" lon="-80.502228" accuracy="5"/>
    <remarks>Extra note</remarks>
  </event>
  <event>
    <occurred-at>2014-05-23T14:59:00.000-04:00</occurred-at>
    <duration>541</duration>
    <duty-status>DR</duty-status>
    <location-name>Kitchener, ON</location-name>
    <position lat="43.421225" lon="-80.502228" accuracy="5"/>
    <remarks/>
  </event>
  <certification-event>
    <occurred-at>2014-05-23T18:58:36.232-04:00</occurred-at>
  </certification-event>
  <certification-event>
    <occurred-at>2014-05-23T18:52:56.489-04:00</occurred-at>
  </certification-event>
</daily-log>
</daily-logs>

```

Any fields without data will be omitted from the response.

The truck element may be repeated if multiple trucks were added to the daily log header. In the case of older versions of the BigRoad mobile app, it was possible to enter any text in a “trucks” field. This text will be parsed into multiple trucks if possible, but may yield undefined results in the response. You are encouraged to use the latest version of the mobile app to avoid this issue.

Each odometer and distance value may or may not have units specified. When specified, the unit will be one of:

KM kilometers

MI miles

Hours of service settings are included in order to better interpret the context for duty status times and durations. The format follows the same conventions as that of the person details API endpoint.

The first event may include a **continuation** attribute, if necessary, to indicate that the event is actually a continuation of an event triggered on a previous daily log. These events will never include **location** or **position** elements because the **occurred-at** timestamp does not coincide with the timestamp when the location and/or position of the event was recorded.

Duty status will be one of the following:

OF Off duty

SL Sleeper berth

DR Driving

ON On duty (not driving)

WT Waiting at oilfield (for oilfield exception only)

The **accuracy** attribute of the position element is specified in meters.

Additions to versions 2 and 3

The duty-status element is followed by additional elements specifying the driving-mode, truck information, and event distance (in that order)

Driving-mode will attain one of the following values:

DRIVING

PERSONAL_CONVEYANCE

YARD_MOVE

NONE

```
...
  <event>
    ...
    <duty-status>DR</duty-status>
    <driving-mode>DRIVING</driving-mode>
    <truck truck-id="22" platform-id="6123b3d5-e367-46bf-89c2-ff3739898da0">
      <number>1234</number>
      <odometer unit="KM">145223</odometer>
      <vin>1GKEC13T61J230960</vin>
    </truck>
    <distance unit="KM">8900</distance>
```

```
...  
</event>  
...
```

Get daily driver logs for a fleet

GET <https://api.bigroad.com/api/v3/fleet/<fleet id>/daily-logs>

Gets the list of daily logs for a given fleet over a range of days. The response uses the same format as the person version of this API call, but includes data for any person in the fleet who has ever submitted a daily log or made a duty status change using the mobile app.

Request parameters

Required Parameter	Usage	Description
<fleet id>	URL path (see above)	BigRoad identifier for fleet whose daily logs will be fetched.
startDate	URL query parameter: &startDate=2014-01-07	First date for which daily logs will be fetched.
endDate	URL query parameter: &endDate=2014-01-13	Last date for which daily logs will be fetched.
isCertified	URL query parameter: &isCertified=true	Optional: if set – only either certified, or uncertified logs will be return
manualVin	URL query parameter: &manualVin=true	Optional: if set to true, the manually-entered VIN is returned in every <vin> element; if set to false, the ECM-reported VIN is returned. Defaults to false (ECM-reported VIN) when omitted or when the value cannot be parsed as a boolean.

Example response

```
<daily-logs>
  <daily-log person-id="1" date="2014-05-23" revision="515">
    <driver-name>Lee Payne</driver-name>
    <co-drivers>Dan Collens</co-drivers>
    <carrier-name>Renegade Trucking</carrier-name>
    <carrier-address>1401 Russell St, Baltimore, MD, 21230</carrier-address>
    <home-terminal-address>123 Another St</home-terminal-address>
    <truck truck-id="22" platform-id="6123b3d5-e367-46bf-89c2-ff3739898da0">
      <number>133i0S</number>
      <license>ALYJ 633</license>
      <start-odometer unit="KM">123456</start-odometer>
      <end-odometer unit="KM">123556</end-odometer>
      <distance unit="KM">100</distance>
      <vin>1GKEC13T61J230960</vin>
    </truck>
    <trailers>4127 &lt;ACPS 412&gt;</trailers>
    <shipments>Q109A88667</shipments>
    <remarks>Extreme weather caused unusual delay on this date.</remarks>
    <hos-settings>
      <home-timezone>US/Eastern</home-timezone>
      <cycle>U.S. 70hr/8day</cycle>
      <vehicle-type>Property</vehicle-type>
      <exception name="US-24h-reset"/>
      <exception name="US-oilfield-wait"/>
    </hos-settings>
    <driver-approved-at>2014-05-27T20:53:49.386Z</driver-approved-at>
    <last-modified-at>2014-05-27T20:53:49.386Z</last-modified-at>
    <event continuation="true">
      <occurred-at>2014-05-23T00:00:00.000-04:00</occurred-at>
      <duration>720</duration>
      <duty-status>SL</duty-status>
      <truck truck-id="22" platform-id="6123b3d5-e367-46bf-89c2-ff3739898da0">
        <odometer unit="MI">2387564</odometer>
        <vin>2GNALAEK1E6312944</vin>
      </truck>
    </event>
    <event>
      <occurred-at>2014-05-23T12:00:00.000-04:00</occurred-at>
      <duration>179</duration>
      <duty-status>ON</duty-status>
      <location-name>Kitchener, ON</location-name>
      <position lat="43.421225" lon="-80.502228" accuracy="5"/>
      <truck truck-id="22" platform-id="6123b3d5-e367-46bf-89c2-ff3739898da0">
        <odometer unit="MI">2387567</odometer>
        <vin>2GNALAEK1E6312944</vin>
      </truck>
      <remarks>Extra note</remarks>
    </event>
    <event>
      <occurred-at>2014-05-23T14:59:00.000-04:00</occurred-at>
      <duration>541</duration>
      <duty-status>DR</duty-status>
      <location-name>Kitchener, ON</location-name>
      <position lat="43.421225" lon="-80.502228" accuracy="5"/>
      <truck truck-id="22" platform-id="6123b3d5-e367-46bf-89c2-ff3739898da0">
        <odometer unit="MI">2387584</odometer>
        <vin>2GNALAEK1E6312944</vin>
      </truck>
      <remarks/>
    </event>
  </daily-log>
  <daily-log person-id="2" date="2014-05-23">
    <hos-settings>
      <home-timezone>Canada/Eastern</home-timezone>
```

```

    <cycle>U.S. 70hr/8day</cycle>
    <vehicle-type>Property</vehicle-type>
  </hos-settings>
  <event>
    <occurred-at>2014-05-23T00:00:00.000-04:00</occurred-at>
    <duration>1440</duration>
    <duty-status>OF</duty-status>
    <remarks/>
  </event>
</daily-log>
</daily-logs>

```

Query for changes to daily driver logs

```
GET https://api.bigroad.com/api/v3/fleet/<fleet id>/daily-log-changes
```

Gets a list of drivers and dates for which log data has changed. Changes include new daily logs, logs with modified headers, or logs whose duty status events have been modified, updated, or deleted.

The response also includes a revision number to be provided as the “after” parameter value for the next call. If nothing has changed since the provided revision number, the response will simply contain the same revision number and an empty list of changes.

The basic usage pattern for clients is:

1. Make the first request using **after=0**
2. Process the response and persist the returned **fleet-revision** attribute in a single transaction
3. Make the next request using **after=<last persisted fleet-revision>**
4. Repeat steps 2-3 once per day (or at any reasonable frequency)

Request parameters

Required Parameter	Usage	Description
<fleet id>	URL path (see above)	BigRoad identifier for fleet to be checked for new daily logs.
after	URL query parameter: &after=12398712	Last revision number of successfully processed daily logs changes for the fleet. The same after parameter may result in a different response as more changes are made over time.

Example response

```
<daily-log-changes fleet-revision="19">
  <daily-log-change person-id="1" date="2014-05-23" revision="515">
    <last-modified-at>2014-05-27T20:53:49.386Z</last-modified-at>
  </daily-log-change>
</daily-log-changes>
```

For each change included in the response, the client can use the person daily logs API endpoint to fetch the full details for the changed log, if necessary. If many changes are returned for a person, it may be better to batch up the subsequent daily log queries by using a single query over a wider date range. Similarly, if many different people have changes, use the fleet daily logs endpoint to fetch for all members of the fleet and ignore any unchanged logs returned.

Get unassigned mileage information for a fleet

V2 and 3 only

```
GET https://api.bigroad.com/api/v3/fleet/<fleet id>/unassigned-driving
```

Gets a list of unassigned mileage information for a fleet.

Request parameters

Required Parameter	Usage	Description
<fleet id>	URL path (see above)	BigRoad identifier for fleet whose unassigned mileage information will be fetched.
startDate	URL query parameter: &startDate=2014-01-07	First date for which unassigned mileage information will be fetched.
endDate	URL query parameter: &endDate=2014-01-13	Last date for which unassigned mileage information will be fetched.

Example response

```
<unassigned-driving>
  <segment id="00001111222233334444555566667777">
    <truck truck-id="4497">
      <number>133</number>
      <odometer unit="MI">145223</odometer>
    </truck>
    <start-time>2019-03-21T21:02:53Z</start-time>
```

```

<end-time>2019-03-21T21:04:05Z</end-time>
<distance unit="MI">178</distance>
<state>ANNOTATED</state>
<notes>Annotated here</notes>
<start>
  <location-name>Kitchener, ON</location-name>
  <position lat="43.421225" lon="-80.502228" accuracy="5"/>
  <previous-driver-id>13</previous-driver-id>
</start>
<end>
  <location-name>Toronto, ON</location-name>
  <position lat="43.021225" lon="-80.502228" accuracy="5"/>
  <next-driver-id>13</next-driver-id>
</end>
</segment>
</unassigned-driving>

```

Any fields without data will be omitted from the response.

State will be one of the following:

UNASSIGNED

ANNOTATED

PENDING_APPROVAL

IN_DRAFT

The **accuracy** attribute of the position element is specified in meters.

Get hours of service violation information for a fleet

V2 and 3 only

```
GET https://api.bigroad.com/api/v3/fleet/<fleet id>/violations
```

Gets a list of hours of service violations for a fleet.

Request parameters

Required Parameter	Usage	Description
<fleet id>	URL path (see above)	BigRoad identifier for fleet whose violation information will be fetched.
startDate	URL query parameter: &startDate=2014-01-07	First date for which violation information will be fetched.
endDate	URL query parameter: &endDate=2014-01-13	Last date for which violation information will be fetched.

If no start/end date are specified, the output will match what is present in the Roadside Risk Dashboard in the BigRoad Web App.

Example response

```
<violations>
  <days at-risk="3" safe="27"/>
  <drivers at-risk="2" safe="93"/>
  <at-risk-drivers>
    <driver person-id="15">
      <daily-log date="2014-01-05">
        <violation category="DRIVE_TIME" count="2">Driving after 70 hours of
accumulated on-duty time in the last 8 days</violation>
        ...
      </daily-log>
      ...
    </driver>
    ...
  </at-risk-drivers>
  <unvalidated-drivers>
    <unvalidated-driver person-id="113" name="Lee Payne"/>
    ...
  </unvalidated-drivers>
</violations>
```

Any fields without data will be omitted from the response.

Only drivers with at least one log day violation and daily logs with at least one violation are included in the response.

The violation category will be one of the following (ordered by severity of violation):

DRIVE_TIME

SENSOR_FAILURE

FORM_AND_MANNER

NOT_SUBMITTED

MISSING_SIGNATURE

MILEAGE_GAP

SUSPICIOUS_LOGS

Additional Endpoints

The following endpoints augment the information available through the primary endpoints, or allow for bulk fetching of data in a single API request to improve performance.

Get person details

```
GET https://api.bigroad.com/api/v3/person/<person id>
```

Gets all properties of a single person, including contact info, hours-of-service settings, etc.

Request Parameters

Required Parameter	Usage	Description
<person id>	URL path (see above)	BigRoad identifier for person whose details will be fetched

Optional Parameter	Usage	Description
hardwareOnly	URL query parameter: &hardwareOnly=true	Set to true to fetch only hardware (DashLink) sourced GPS locations.

Example response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<person id="15243">
  <email>jen@example.com</email>
  <first-name>Jennifer</first-name>
  <last-name>Ruiz</last-name>
  <phone>1-555-555-5555</phone>
  <dotNumber>12356</dotNumber>
  <hos-settings>
    <home-timezone>US/Eastern</home-timezone>
    <cycle>U.S. 70hr/8day</cycle>
    <vehicle-type>Property</vehicle-type>
    <exception name="US-24hr-reset"/>
    <exception name="US-oilfield-wait"/>
  </hos-settings>
  <hos-status as-of="2013-09-27T20:25:62.634Z">
    <duty-status>OF</duty-status>
    <availability>
      <drive>3600000</drive>
      <shift>4800000</shift>
      <cycle>97200000</cycle>
    </availability>
    <daily-log-summary date="2013-09-27">
      <duty-status code="OF">15962634</duty-status>
```

```

    <duty-status code="SL">0</duty-status>
    <duty-status code="DR">36000000</duty-status>
    <duty-status code="ON">43200000</duty-status>
  </daily-log-summary>
  <daily-log-summary date="2013-09-26">
    <duty-status code="OF">86400000</duty-status>
    <duty-status code="SL">0</duty-status>
    <duty-status code="DR">0</duty-status>
    <duty-status code="ON">0</duty-status>
    <duty-status code="WT">0</duty-status>
  </daily-log-summary>
</hos-status>
<location as-of="2013-09-27T20:21:15.522Z">
  <position lat="42.312178" lon="-80.502228" accuracy="15"/>
  <speed>13.89</speed>
  <bearing>27</bearing>
</location>
</person>

```

Get person hours-of-service status only

GET <https://api.bigroad.com/api/v3/person/<person id>/status/hos>

Gets latest hours-of-service information for a single person.

Request parameters

Required Parameter	Usage	Description
<person id>	URL path (see above)	BigRoad identifier for person whose status will be fetched

Example response

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<person id="15243">
  <hos-status as-of="2013-09-27T20:25:62.634Z">
    <duty-status>OF</duty-status>
    <availability>
      <drive>3600000</drive>
      <shift>4800000</shift>
      <cycle>97200000</cycle>
    </availability>
  </hos-status>
</person>

```

Get person location status only

GET <https://api.bigroad.com/api/v3/person/<person id>/status/location>

Gets real-time location information for a single person.

Request parameters

Required Parameter	Usage	Description
<person id>	URL path (see above)	BigRoad identifier for person whose status will be fetched

Optional Parameter	Usage	Description
hardwareOnly	URL query parameter: &hardwareOnly=true	Set to true to fetch only hardware (DashLink) sourced GPS locations.

Example response

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<person id="15243">
  <location as-of="2013-09-27T20:21:15.522Z">
    <position lat="42.312178" lon="-80.502228" accuracy="15"/>
    <speed>13.89</speed>
    <bearing>27</bearing>
  </location>
</person>
```

Get fleet members' statuses

GET <https://api.bigroad.com/api/v3/fleet/<fleet id>/people/status>

Gets latest hours-of-service and location information for all active members of a fleet.

Request parameters

Required Parameter	Usage	Description
<fleet id>	URL path (see above)	BigRoad identifier for fleet whose members' statuses will be fetched

Optional Parameter	Usage	Description
role	URL query parameter: &role=driver	Role of employees to be fetched. One of: driver, dispatcher, safety-manager or admin.

hardwareOnly	URL query parameter: &hardwareOnly=true	Set to true to fetch only hardware (DashLink) sourced GPS locations.
---------------------	--	--

Get fleet members' hours-of-service statuses only

GET <https://api.bigroad.com/api/v3/fleet/<fleet id>/people/status/hos>

Gets latest hours-of-service information for all active members of a fleet.

Request Parameters

Required Parameter	Usage	Description
<fleet id>	URL path (see above)	BigRoad identifier for fleet whose members' statuses will be fetched

Optional Parameter	Usage	Description
role	URL query parameter: &role=driver	Role of employees to be fetched. One of: driver, dispatcher, safety-manager or admin.

Get fleet members' location statuses only

GET <https://api.bigroad.com/api/v3/fleet/<fleet id>/people/status/location>

Gets latest location information for all active members of a fleet.

Request parameters

Required Parameter	Usage	Description
<fleet id>	URL path (see above)	BigRoad identifier for fleet whose members' statuses will be fetched

Optional Parameter	Usage	Description
role	URL query parameter: &role=driver	Role of employees to be fetched. One of: driver, dispatcher, safety-

	manager or admin.	
hardwareOnly	URL query parameter: &hardwareOnly=true	Set to true to fetch only hardware (DashLink) sourced GPS locations.

Get Fuel Receipts for a fleet

GET <https://api.bigroad.com/api/v3/fleet/<fleet id>/fuel-receipts>

Gets the list of fuel receipts for a given fleet over a range of days.

Request parameters

Required Parameter	Usage	Description
<fleet id>	URL path (see above)	BigRoad identifier for fleet whose fuel receipts will be fetched.
startDate	URL query parameter: &startDate=2014-01-07	First date for which fuel receipts will be fetched.
endDate	URL query parameter: &endDate=2014-01-13	Last date for which fuel receipts will be fetched.
manualVin	URL query parameter: &manualVin=true	Optional: if set to false, the ECM-reported VIN is returned in every <vin> element; if set to true, the manually-entered VIN is returned. Defaults to true (manually-entered VIN) when omitted or when the value cannot be parsed as a boolean.

Example response

```
<fuel-receipts>
  <fuel-receipt id="210789" fleet-id="1" person-id="1" date="2021-01-07">
    <person-name>Lee Payne</person-name>
    <purchased-at>2021-01-07T12:08:00.000Z</purchased-at>
    <last-updated-at>2021-01-07T12:08:00.000Z</last-updated-at>
    <creator-person-id>12</creator-person-id>
    <truck truck-id="2" platform-id="6123b3d5-e367-46bf-89c2-ff3739898da0">
      <number>133</number>
      <license>N1N J45</license>
      <vin>2GNALAEK1E6312944</vin>
    </truck>
    <fuel-quantity>123.4</fuel-quantity>
  </fuel-receipt>
</fuel-receipts>
```

```
<fuel-unit>GALLON</fuel-unit>
<fuel-type>GASOLINE</fuel-type>
<total-cost-cents>27380</total-cost-cents>
<tax-cost-cents>1320</tax-cost-cents>
<currency>USD</currency>
<jurisdiction>CA</jurisdiction>
<vendor-name>Shell</vendor-name>
<vendor-address>180 Columbia St., Waterloo, ON</vendor-address>
<odometer-meters>65213800</odometer-meters>
<notes>purchased at the gas station</notes>
<images>
  <image-url>https://.....a23c</image-url>
  <image-url>https://.....d451</image-url>
</images>
</fuel-receipt>
.....
</fuel-receipts>
```

XML Schema

The XML schema definition (BigRoad.xsd) is available upon request from BigRoad.