Open API Reference Guide for Version 1.1

October 8, 2017

Contents

Register

Contact david@geowiz.biz to register for API access. You will need to be a current Geowiz PRO customer, or provide written approvals from a current Geowiz PRO customer to receive access. Upon approvals, you will be provided a unique API key for each Geowiz PRO customer account you require access to, and you will need to provide the IP address you will be accessing the API from.

Terms and Conditions

Use of the Geowiz PRO XML API is subject to fees as set out in our license agreement. All terms and conditions of use of the API are also governed by the license agreement which you agree to by using the Geowiz PRO XML API.

Support

Support is provided via the GeoSpace Labs help desk ticket system located here:
http://geospacelabs.com/ticket.php

Calculating UTC Time

Time provided are local times based upon the terminals time zone offset. The system uses UTC and GMT interchangeably. To calculate GMT/UTC from provided local time apply the provided time zone offset associated with the drivers terminal.

API Structure

The Geowiz PRO XML API is provided over https using GET parameters that returns an XML document with the requested data.

Parameters

Name	Format	Method	Description
geokey	Single string no spaces	ALL	This is the unique API provided for each Geowiz PRO customer. The key is associated with an internal customer account and an external requesting IP address.
method	Single string no spaces	ALL	This identifies the data set the API will return.
driverid	Single string no spaces	position, eld	This is the driver ID returned from the activedrivers API call and it is required to provide specific driver information.
logdate	YYYY-MM-DD	eld	This is an optional parameter, if provided the log for the requested date will be provided, if omitted the log for the current date will be provided.
assetid	Single string no spaces	assets	The asset a driver was using is provided as part of the ELD information. It is a unique ID for each asset in the system.

https://eldxml.cloud/api/xmlapi_1.1.php?geokey=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx&meth
od=eld&driverid=99P5214&logdate=2017-07-21

NOTE: the xmlapi_1.1.php denotes the API version being used.

Currently Supported API Methods

1. Active Drivers Information (activedrivers)
2. GeoLocation (position)
3. Power Unit Information (assets)
4. Terminal Information (terminals)
5. Hours of Service/Record of Duty (eld)

Active Drivers Information (activedrivers)

Returns a list of all currently licenses ELD drivers along with HOS summary information.

Call

method=activedrivers

Returns

```
<drivers>
        <driver>
                <id> //the internal driver ID, can be used to request other API data
                <name> //full drivers name
                <currentduty> //The current duty status of the driver
                <driverhours> //remaining driving hours for the driver
                <shifthours> //remaining shift hours for the driver
                <cyclehours>//remaining cycle hours for the driver
                <eldnotes> //notes including upcoming violation warnings (i.e. breaks, ending times)
                <violations> //any noted current log violations
                <lastcomm> //last time field device talked to server
                <appversion> //current version of APP the driver is using
                <terminalid> //the ID to look up the drivers home terminal
        </driver>
</drivers>
```

GeoLocation (position)

Returns GPS data for the current position of the driver.

Call

method=position&driverid=xxxxxxxx

Returns

```
<gps>
        <gpsid> //a unique system ID for this GPS data
        <driverid> //driver ID used to request data, the internal system driver ID
        <assetid> //the asset ID, can be used to get assets details
```

```
            <latlon> //the gps coordinates
            <datetime> //local date and time the gps point was captured
            <accuracy> //reports accuracy in meters
            <bearing> //direction of movement
            <mph> //ground speed
            <weather> //local weather report
            <temp> //temperature in F
            <windspeed> //reported wind speed in MPH
            <clouds> //cloud cover as a percentage
            <odometer> //odometer in miles
            <city> //closest city to the GPS point
            <state> //state the GPS point is in
</gps>
```

Power Unit Information (assets)

Returns a list of all currently active power units along with basic unit information.

Call

method=assets&assetid=1234567

Returns

```
<assets>
        <asset>
                <id> //the assetid
                <name> //company name for the asset (shows on ELD)
                <info> //any company notes for additional asset information
                <make> //as entered by the company
                <model> //as entered by the company
                <year> //as entered by the company
                <vin> //from ECU
                <odometer> //from ECU
                <modem> //modem address if available
        </asset>
</assets>
```

Terminal Information (terminals)

Returns a list of all terminals as entered by the company.

Call

method=terminals

Returns

```
<terminals>
        <terminal>
                <id> //internal ID
                <name>  //terminal name or description
                <address>  //address
                <city>
                <state>
                <zipcode>
```

```
            <dot> //DOT number, company DOT will be overridden with terminal DOT if entered
            <metric> //0=US system, 1=Metric system for this terminal. NOTE: all data is always
            returned in US system, if this is set to 1 convert from US to metric
            <timezone> //the number of hours from GMT
            <subjecttosavingstime> //YES or NO
        </terminal>
</terminals>
```

Hours of Service/Record of Duty (eld)

This is the ELD log for this driver for this day or a past day if you pass in a log date request. Generally the system keeps driver logs for six months.

Call

method=eld&driverid=12345P87654&logdate=2017-07-21

Returns

```
<rods>
        <logdate> //date of the requested log
        <driver> //similar driver info from the activedriver request
        <id>
                <name>
                <license> //number abd state of license
                <carrier>
                <dotnumber> //all shipping documents and manifests IDs entered in the log may be
                separated by a comma if multiple documents
                <carrieraddress>
                <logstart>
                <timezone>
                <codriver>
                <codriverid>
                <exempt> //Yes or no, if Yes then follows the air radius exemption rules
        </driver>
        <summary>
                <onduty> //minutes
                <sleeper>//minutes
                <driving>//minutes
                <offduty>//minutes
                <worked>//onduty+driving in minutes
                <timetotal>//all 4 catigories added together in minutes
        </summary>
        <vendor>
                <mfgcert>FF44EE, 0008</mfgcert>
                <manufacturer>GeoSpace Labs</manufacturer>
                <diagnostics> //OK or a diagnostic code (see drivers manual)
                <malfunctions> //None or an error code (see drivers manual)
                <comments> //log comments supplied by driver
                <displaydate> //date the report was run
        </vendor>
        <trip>
```

```
        <assetid>
        <shippingdocs>
        <odometerstart> //OD is always in miles, can check terminal to see if kilometer
        conversion needed
        <odometerend>
        <miles>
        <unidentifiedrecords> //any driving miles for this asset for this day that have not been
        assigned to a drivers log (not necessarily this driver)
    </trip>
    <recap>
        <minus0> //hours onduty+driving for today as an hour& percentage i.e. 8.75 = 8 hours
        and 75% of on hour (45 minutes)
        <minus1> //summary for one day back
        <minus2> //and so on
        <minus3>
        <minus4>
        <minus5>
        <minus6>
        <minus7>
    </recap>
    <hoursofservice>
        <duty>
            <number> //sequential number of the duty entry. If the number repeats it is
            because there were additional activities during that duty like a yard move, dvir,
            fuel stop, so on
            <status> //text status of duty followed by a dash and any notes or other data. If
            this is a repeating number additional information like yard move could be here
            <start> //start time of this duty status in identified time zone (may be different
            from local time zone)
            <minutes> //duration of the duty in minutes
            <location> //closest city and state along with directional markers
        </duty>
    </hoursofservice>
    <violations>
        <violation> //description of any log violations here as test
    </violations>
    <signature> //Yes=signed, No=not yet signed
</rods>
```