



# Geocode API Reference Guide

Revision 02

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## Table of Contents

About This Guide .....	1
Introduction .....	1
Accessing the Portal .....	1
Related Documentation .....	1
Acronym List .....	2
Contact Customer Support .....	2
Geocode API .....	3
POST Bulk Reverse Geocoding .....	3
POST Geocode address .....	5
GET Reverse Geocoding .....	7
Revision History .....	10

# About This Guide

## Introduction

This guide describes the Connectbase Application Program Interface (API) Address Geocode.

## Accessing the Portal

Using any standard web browser, you can access the Connectbase API portal by entering the following URL: <https://developer.connectbase.com>.

- If this is your first time visiting the site, click [Sign up](#) to register as a new API user.
- If you are already a registered user, [Sign in](#) using your API login and password.

## Related Documentation

Refer to the following documents for detailed information about each of the supported Connectbase API products:

- *Address Autocomplete API Reference Guide*
- *Address Validation API Reference Guide*
- *Advanced CPQ API Reference Guide*
- *Building Competitive Rating API Reference Guide*
- *Connectbase Developer Portal Overview Guide*
- *Connected World Availability API Reference Guide*
- *Connected World Account API Reference Guide*
- *Connected World Building API Reference Guide*
- *Connected World Building Lists API Reference Guide*
- *Connected World Contacts API Reference Guide*
- *Connected World Distributions API Reference Guide*
- *CPQ API Reference Guide*
- *CPQ Components Management API Reference Guide*
- *Demand Engine API Reference Guide*
- *International Processor API Reference Guide*
- *Locations Intelligence API Reference Guide*
- *Network Intelligence API Reference Guide*
- *Network Path API Reference Guide*
- *NNI Management API Reference Guide*
- *Rate Card Management API Reference Guide*
- *Route Management API Reference Guide*
- *Tenant API Reference Guide*

## Acronym List

This document uses the following acronyms.

Acronym	Description
API	Application Program Interface
HTTP	Hyper Text Transfer Protocol
JSON	JavaScript Object Notation
N/A	Not applicable
URL	Uniform Resource Locator
USPS	United States Postal Service

## Contact Customer Support

If you require technical assistance or wish to report an issue to the Connectbase Support team, please log into the Connectbase Customer Support portal at <https://support.connectbase.com> and log a ticket.

For other general information, you can contact Customer Support by email at [support@connectbase.com](mailto:support@connectbase.com) or by phone at (508) 202-1807 between the hours of 8:00 a.m. and 5:00 p.m. EST.

# Geocode API

The Geocode API enables developers to pass a location in a request body and have returned the latitude and longitude of the given location. The response also indicates an accuracy rating and accuracy type.

## POST Bulk Reverse Geocoding

### Requirements and Special Considerations

The Company Id is a required input parameter.

### Request URL

[https://api.connected2fiber.com/geocode/v1/reverse/bulk\[?company\\_id\]](https://api.connected2fiber.com/geocode/v1/reverse/bulk[?company_id])

Request headers	Characteristic	Description/Requirements
Ocp-Apim-Subscription-Key	string	The subscription key that provides access to this API, which can be found in your Profile.

Request Body Attributes	Mandatory	Values/Requirements
company_id	Yes	The ID used to identify the company instance.

### Request body

```
{
  "coordinates": [
    {
      "lat": 33.459122,
      "lon": -96.098494
    },
    {
      "lat": 9.518889,
      "lon": 77.696541
    }
  ]
}
```

### Success Response Example

```
[{
  "seq_id": 0,
  "global_location_id": "US8655FW52+82JPS00",
  "source": "md_location",
  "input_latitude": 33.459122,
  "input_longitude": -96.098494,
  "latitude": "33.458349",
  "longitude": "-96.099986",
  "address": "1078 County Rd 3715",
  "city": "Wolfe City",
  "state": "TX",
```

### Success Response Example

```
"zipcode": "75496",
"primary_number": "1078",
"street_name": "County Road 3715",
"street_predirection": "",
"street_suffix": "",
"zip": "",
"county_name": "",
"country": "USA"
}, {
  "seq_id": 1,
  "global_location_id": "IN6JXVGM9W+HJ3RS00",
  "source": "here",
  "input_latitude": 9.518889,
  "input_longitude": 77.696541,
  "latitude": "9.52348",
  "longitude": "77.7037",
  "address": "Dhandabani Cottages and Hotels",
  "city": "Rajapalayam Sub-District",
  "state": "Tamil Nadu",
  "zipcode": "626138",
  "primary_number": "",
  "street_name": "",
  "street_predirection": "",
  "street_suffix": "",
  "zip": "",
  "county_name": "",
  "country": "IND"
}]
```

### Response Attributes and Data Types

Response Attribute	Attribute Description	Data Type
seq_id	Indicates the sequence in which the response appears for bulk locations.	int
global_location_id	Connectbase's proprietary ID system that provides a unique identification code for every location within the seven continents.	string
source	Indicates the source of the data in the response.	string
input_latitude	The latitude coordinates as was input by the user, which may or may not differ from the returned latitude.	string
input_longitude	The longitude coordinates as was input by the user, which may or may not differ from the returned longitude.	string
latitude	The angular distance of a place north or south of the earth's equator, or of a celestial object north or south of the celestial equator, usually expressed in degrees and minutes.  -90 to +90  Default coordinate system is WGS1984.	string
longitude	The angular distance of a place east or west of the meridian at Greenwich, England, or west of the standard meridian	string

Response Attribute	Attribute Description	Data Type
	of a celestial object, usually expressed in degrees and minutes. -180 to +180  Default coordinate system is WGS1984.	
address	The street level address of the location.	string
city	The city of the location.	string
state	The state of the location.	string
zipcode	The zip code of the location.	string
primary_number	Primary address information such as the building number in a street address.	string
street_name	The street name of the location.	string
street_predirection	An address element that indicates geographic location such as N, S, E, W, NE, NW, SE, and SW that is placed to the left of (before) the street name such as E HOOVER ST.	string
street_suffix	Identifies the type of roadway in abbreviated format, such as St., Blvd., etc.	string
zip	The zip code in which the location resides.	string
country	The country of the location.	string

#### Error Response Example

```
{
  "status": "fail",
  "message": "Something went wrong, please try again later. If the problem persists,
please contact support@Connectbase.com"
}
```

## POST Geocode address

#### Requirements and Special Considerations

Accuracy scores range from a confidence level of 0-1 where the higher value indicates more accurate results. Accuracy type values include the following: country, state, county, city, district, street, intersection, house number.

#### Request URL

<https://api.connected2fiber.com/geocode/v1/>

Request headers	Characteristic	Description/Requirements
Ocp-Apim-Subscription-Key	string	The subscription key that provides access to this API, which can be found in your Profile.



Request Body Attributes	Mandatory	Values/Requirements
address	Yes	The street level address of the location.
city	Yes	The city of the location.
state	Yes	The state of the location.
country	Yes	The country of the location.

Request body
<pre>{   "address": "53 Sumner St",   "city": "Milford",   "state": "MA",   "country": "USA" }</pre>

Success Response Example
<pre>{   "status": "success",   "data": {     "latitude": 42.153816,     "longitude": -71.519359,     "accuracy": 1,     "accuracy_type": "house number"   } }</pre>

## Response Attributes and Data Types

Response Attribute	Attribute Description	Data Type
latitude	The angular distance of a place north or south of the earth's equator, or of a celestial object north or south of the celestial equator, usually expressed in degrees and minutes.	string
longitude	The angular distance of a place east or west of the meridian at Greenwich, England, or west of the standard meridian of a celestial object, usually expressed in degrees and minutes.	string
accuracy	Accuracy scores range from a confidence level of 0-1 where the higher value indicates more accurate results.	int
accuracy_type	Accuracy type values include the following: country, state, county, city, district, street, intersection, house number.	string

Error Response Example
<pre>{   "status": "fail",   "message": "Something went wrong, please try again later. If the problem persists," }</pre>

### Error Response Example

```
please contact support@Connectbase.com"
}
```

## GET Reverse Geocoding

### Requirements and Special Considerations

The Company Id, Latitude, and Longitude are required input parameters.

### Request URL

```
https://api.connected2fiber.com/geocode/v1/coord[?company_id][&lat][&lon]
```

Request headers	Characteristic	Description/Requirements
Ocp-Apim-Subscription-Key	string	The subscription key that provides access to this API, which can be found in your Profile.

Request Body Attributes	Mandatory	Values/Requirements
company_id	Yes	The ID used to identify the company instance.
lat	Yes	Latitude coordinates
lon	Yes	Longitude coordinates

### Success Response Example

```
{
  "addresses": [{
    "globalId": "US8655FW52+82JPS00",
    "address": "954 County Road 3715",
    "city": "Leonard",
    "state": "TX",
    "country": "United States",
    "zipcode": "75452",
    "latitude": "33.458368",
    "longitude": "-96.097958",
    "addresskey": "954 COUNTY ROAD 3715|LEONARD|TX|USA",
    "distance": 320,
    "source": "md_location",
    "primary_number": "",
    "street_name": "954 County Road 3715",
    "street_predirection": "",
    "street_postdirection": "",
    "street_suffix": ""
  }], {
    "globalId": "US8655FW62+5G4BS00",
    "address": "832 County Road 3715",
    "city": "Leonard",
    "state": "TX",
    "country": "United States",
    "zipcode": "75452",
    "latitude": "33.460377",
    "longitude": "-96.098636",
    "addresskey": "832 COUNTY ROAD 3715|LEONARD|TX|USA",
    "distance": 460,
```

### Success Response Example

```

"source": "md_location",
"primary_number": "",
"street_name": "832 County Road 3715",
"street_predirection": "",
"street_postdirection": "",
"street_suffix": ""
}, {
"globalId": "US8655FW52+82JPS00",
"address": "1078 County Rd 3715",
"city": "Wolfe City",
"state": "TX",
"country": "USA",
"zipcode": "75496",
"latitude": "33.458349",
"longitude": "-96.099986",
"addresskey": "1078 COUNTY RD 3715|WOLFE CITY|TX|USA",
"distance": 613,
"source": "md_location",
"primary_number": "1078",
"street_name": "County Road 3715",
"street_predirection": "",
"street_postdirection": "",
"street_suffix": ""
}]
}

```

### Response Attributes and Data Types

Response Attribute	Attribute Description	Data Type
addresses	object wrapper	object
globalId	Connectbase's proprietary ID system that provides a unique identification code for every location within the seven continents.	
address	The street level address of the location.	string
city	The city of the location.	string
state	The state of the location.	string
country	The country in which the location resides.	string
zipcode	The zip code for the location.	string
latitude	The angular distance of a place north or south of the earth's equator, or of a celestial object north or south of the celestial equator, usually expressed in degrees and minutes.	string
longitude	The angular distance of a place east or west of the meridian at Greenwich, England, or west of the standard meridian of a celestial object, usually expressed in degrees and minutes.	string
addresskey	The complete address including street, city, state, zip, and country	string
distance	Identifies buildings within a certain distance range for Near Net analysis.  • 0 – 500 feet	string

Response Attribute	Attribute Description	Data Type
	<ul style="list-style-type: none"> <li>• 501 - 1000 feet</li> <li>• 1001 - 1500 feet</li> <li>• 1501+ feet</li> </ul>	
source	Indicates the source of the data in the response.	string
primary_number	Primary address information such as the building number in a street address.	string
street_name	The street name of the location.	string
street_predirection	An address element that indicates geographic location such as N, S, E, W, NE, NW, SE, and SW that is placed to the left of (before) the street name such as E HOOVER ST.	string
street_postdirection	An address element that indicates geographic location such as N, S, E, W, NE, NW, SE, and SW that is placed to the right of (after) the street name such as BAY DRIVE W.	string
street_suffix	Identifies the type of roadway in abbreviated format, such as St., Blvd., etc.	string

#### Error Response Example

```
{
  "status": "fail",
  "message": "Something went wrong, please try again later. If the problem persists,
please contact support@Connectbase.com"
}
```

# Revision History

Revision	Date	Description
00	January 20, 2023	The information in this guide was extracted from the original “Connected World Address Processor API Reference Guide” to act as a standalone reference guide going forward.
01	April 07, 2023	Added the following two endpoints:  <i>POST Bulk Reverse Geocoding</i>  <i>GET Reverse Geocoding</i>
02	September 25, 2023	New publication of the document with minor editorial updates.