Route Management API Reference Guide

Revision 02

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About This Guide

Introduction
This guide describes the Connectbase Application Program Interface (API) Route Management API.

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*
- *Geocode 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*
- *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
WISP	Wireless Internet Service Provider

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* or by phone at (508) 202-1807 between the hours of 8:00 a.m. and 5:00 p.m. EST.

About Shareable Routes API

The Shareable Routes API enables customers to retrieve route information from The Connected World platform's US Shareable Routes and International Shareable Routes data points.

The response provides the fiber routes within a radius given as a value (siteDistance) as well as the provider of those routes.

Route Management API

GET shareable-routes

Issue this call to retrieve route data from The Connected World platform. You can use this API to find the nearest routes within the defined request parameters.

Requirements and Special Considerations
All request parameters are optional; however, it is recommended that you enter/ the site distance to limit your results to a specific area and avoid returning a large response.

Request URL
https://api.connected2fiber.com/v1/shareable-routes/shareable-routes[?lat][&lon][&address][&siteDistance]

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 parameters	Characteristic	Description/Requirements
lat (optional)	float	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.
lon (optional)	float	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.
address (optional)	string	Enter the full address as street, city, state, country, zip
siteDistance (optional)	string	Site distance in feet. Site distance must be <= 52800

Sample Request using a single address

This sample request uses a single address and site distance as input. Alternatively, you can enter a latitude and longitude.

siteDistance is optional, but recommended, to avoid returning an excessively large response.

Success Response Example

> If you want to view the precise location of coordinates returned on The Connected World map, you can search by coordinates in TCW. Note that the API response returns the coordinates in the order of longitude,latitude. However, when entering coordinates into the Search by Coordinates function in TCW, you must enter the coordinates in the order of latitude, longitude.

```
{
  "status": "success",
  "message": "1 route found within site distance",
  "data": {
    "type": "FeatureCollection",
    "features": [{
      "type": "Feature",
      "geometry": {
        "type": "MultiLineString",
        "coordinates": [
          [
            [-71.569133561, 42.275804477],
            [-71.57059, 42.2757]
          ],
          [
            [-71.570605, 42.275713],
            [-71.570618, 42.275752],
            [-71.570353, 42.27625],
            [-71.570295, 42.276328]
          ],
          [
            [-71.572287172, 42.275761632],
            [-71.571701, 42.275689],
            [-71.571027, 42.275673],
            [-71.570632, 42.275703]
          ],
          [
            [-71.57033, 42.276379],
            [-71.570295, 42.276346]
          ],
          [
            [-71.569890127, 42.27770289],
            [-71.570738, 42.276871]
          ],
          [
            [-71.570738, 42.276871],
            [-71.570193, 42.276542]
          ],
          [
            [-71.570193, 42.276542],
            [-71.570246, 42.276383]
          ],
          [
            [-71.570246, 42.276383],
            [-71.570283, 42.276337]
          ],
```

Success Response Example

```
            [
                [-71.570327, 42.27638],
                [-71.570251, 42.27652],
                [-71.570761, 42.276798],
                [-71.570795, 42.276872],
                [-71.570778469, 42.276887446]
            ],
            [
                [-71.570778469, 42.276887446],
                [-71.570125, 42.277498],
                [-71.569912359, 42.277711084]
            ],
            [
                [-71.570778469, 42.276887446],
                [-71.570784, 42.276905]
            ],
            [
                [-71.570784, 42.276905],
                [-71.570629, 42.277045]
            ],
            [
                [-71.570629, 42.277045],
                [-71.569945663, 42.277723359]
            ],
            [
                [-71.570778469, 42.276887446],
                [-71.570761, 42.276832]
            ],
            [
                [-71.570761, 42.276832],
                [-71.570224, 42.276529]
            ],
            [
                [-71.570224, 42.276529],
                [-71.570288, 42.27633]
            ],
            [
                [-71.572335583, 42.275824265],
                [-71.571903, 42.275761],
                [-71.571568, 42.275737],
                [-71.570961, 42.275725],
                [-71.570666, 42.275735],
                [-71.570623, 42.275708]
            ]
        ]
    },
    "properties": {
        "provider": "CROWN CASTLE"
    }
}]
    }
}
```

Response Attributes and Data Type

Response Attribute	Attribute Description	Data Type
status	Indicates status of API completion. • Success • Failed	string
message	Indicates the number of routes found within the site distance.	string

Response Attribute	Attribute Description	Data Type
data	object wrapper	object
type		string
features		string
geometry		string
coordinates	array wrapper of longitude and latitude coordinates.	array
properties	object wrapper	object
provider	Provider name	string

Error Response Examples

```
{
 "statusCode": 400,
 "error": "Bad Request",
 "message": "A valid address or lat/lon pair is required"
}
```

```
{
  "statusCode": 400,
  "error": "Bad Request",
  "message": "querystring.siteDistance should be <= 52800"
}
```

Revision History

Revision	Date	Description
00	June 23, 2022	This is the initial release of this document.
01	September 27, 2022	Added response attributes and data types.
02	September 25, 2023	New publication of the document with minor editorial updates.