



Network Intelligence API Reference Guide

Revision 15

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About This Guide

Introduction

This guide describes the Connectbase Application Program Interface (API) Network Intelligence APIs.

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 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
WISP	Wireless Internet Service Provider

Customer Support Desk (CSD) Portal

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

If you face issues in logging in to Connectbase Customer Support Desk Portal, email at portalsupport@connectbase.com or contact your CSM to report the issue. We will add your domain to provide access for your organization.

About Network Intelligence V6 APIs

Get network information based on a specific address, such as broadband, cableco, nearnet, onnet, telco, wisp, etc. The APIs include the following:

- *GET all*
- *GET broadband*
- *POST Bulk Address*
- *GET Bulk Address Callback*
- *GET cableco*
- *GET Conformed Providers*
- *GET Building Providers*
- *GET Building Providers by Address*
- *GET nearnet*
- *GET onnet*
- *GET telco*
- *GET wisp*



Network Intelligence data persists in cache for up to 2 hours. If you update your instance data, and then run a Network Intelligence API call, the revised data will not display in the response until after the cache is cleared.

API Rate Limit

Network Intelligence V6 API has a rate limit of 360 calls per minute.

Network Intelligence V6 APIs

GET all

Issue this call to get **all** network finder data for a specified address.

Requirements and Special Considerations
This API call requires the address and subscription key. Other request parameters are optional, but they enable you to refine or limit your search criteria. https://api.connected2fiber.com/address-autocomplete/{address}

Request URL
https://api.connected2fiber.com/network-intelligence/v6/all[?validation][&address][&lat][&lon]

Request parameters	Characteristic	Description/Requirements
address	string	address to be located
validation	Boolean	Validates and formats the input address before processing. Defaults to “true”
lat (optional)	string	Latitude to use instead of address; however, address is still required.
lon (optional)	string	Longitude to use instead of address; however, address is still required.

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.

Get all Success Response Example
<pre>{ "status": "success", "body": { "location": { "street": "134 Flanders Rd", "city": "Westborough", "state": "MA", "country": "USA", "postal": "01581", "latitude": 42.276488, "longitude": -71.570729 }, "data": { "telco": { "type": "Telco", "building_cli": "", "swc_cli": "WSBOMASU1ED", "lata": "128", "lata_nm": "EASTERN MASS", "ocn": "9102", "ocn_name": "VERIZON NEW ENGLAND INC." } } } }</pre>

Get all Success Response Example

```
"state": "MA",
"npa": "508",
"nxx": "366",
"rate_center": "WESTBORO",
"lec": "VERIZON",
"central_office_address": {
  "status": "success",
  "message": null,
  "address": "25 Summer St",
  "city": "Westborough",
  "state": "Massachusetts",
  "zip": "01581"
}
```

Get all response attributes and data types

Response Attribute	Attribute Description	Data Type
status	<ul style="list-style-type: none">SuccessFailed	string
location	object wrapper	object
street	The street address for the location.	string
city	The city in which the location resides.	string
state	The state in which the location resides.	string
postal	The zip code in which the location resides.	int
country	The country in which the location resides.	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
data	object wrapper	object
telco	object wrapper	object
type	Telco, WISP, etc.	string
building_clli (blank/null unless specifically provided by the customer)	<p>Common Language Information Services Identifier (CLLI), used to identify the building location. Network Site codes are typically used to identify building locations, specific to an address.</p> <p>First four characters represent a geographical code, the fifth and sixth characters represent a geopolitical code. The remaining two characters are uniquely assigned by iconectiv® to identify the building location.</p>	string
swc_clli	Serving Wire Center Clli code	string

Response Attribute	Attribute Description	Data Type
lata	3-digit code that represents the boundary of the Local Access and Transport Area.	string
lata_nm	LATA provider name Local Access and Transport Area defines geographical boundaries of local telephone service networks.	string
ocn	Operating company number; a 4-character ID used to identify a company that provides local exchange telephone services.	string
ocn_name	The company name associated with the OCN,	string
state	The state in which the company resides.	string
npa	Numbering Plan Areas, each identified by a three-digit NPA code, commonly called an area code. NPAs represent an aggregation of exchange areas for which the given code is applicable. These Code/Exchange area relationships are assigned by the North American Numbering Plan Administration (NANPA) and published in the Local Exchange Routing Guide (LERG) database published monthly by 'iconectiv'.	string
nxx	Area Code/Prefix (NPA/NXX) Assignment. Valid Prefixes per NPA are published according to exchange switch specifications published in the LERG. A subset of NPA/NXX combinations are serviced by the incumbent Local Exchange Carriers (ILECS) operating Serving Wire Centers.	string
rate_center	A geographical area used to determine the boundaries for local calling, billing, and assigning specific phone numbers.	string
lec	The name of the Local Exchange Carrier	string
central_office_address	object	object wrapper
status	Success or Failed	string
message	Where applicable, displays the error message if status = Failed.	string
address	The street address for the central office.	string
city	The city in which the central office is located.	string
state	The state in which the central office is located.	string

Response Attribute	Attribute Description	Data Type
zip	The postal code in which the central office is located.	string
cableco	The name of the cable company.	object
cable_provider	The cable company provider's name	string
phone	The phone number associated with the company.	string
website	The company website URL	string
wisp	The name of the Wireless Internet Service Provider	object
count	The number of providers	int
providers	The list of providers	array
type	The type of provider, such as Telco, for example.	string
result	object	object array
access_media	<p>The medium used for connectivity to the building or specified location.</p> <ul style="list-style-type: none"> • Coax/HFC • Copper • Fiber • Wireless – Fixed • Wireless – Mobile • Wireless – Satellite • Other 	string
tech	Where provided, the technology provided, such as “Optical Carrier / Fiber to the end user”, for example.	string
max_ad_up	Maximum advertised upstream speed/ bandwidth offered by the provider in the block for Consumer service	int
max_cir_up	Maximum contractual upstream bandwidth offered by the provider in the block for Business service (filer directed to report 0 if the contracted service is sold on a “best efforts” basis without a guaranteed data-throughput rate)	int
max_ad_down	Maximum advertised downstream speed/ bandwidth offered by the provider in the block for Consumer service	int
max_cir_down	Maximum contractual downstream bandwidth offered by the provider in the block for Business service (filer directed to report 0 if the contracted service is sold on a “best efforts” basis without a guaranteed data-throughput rate)	int
provider_name	The name of the provider	string

Get all Error Response Example

```
{
  "status": "fail",
  "error": "Unable to find address."
}
```

GET broadband

Issue this call to get **broadband** network finder data for a specified location.

Requirements and Special Considerations

This API call requires the address or lat/long and subscription key.

Request URL

[https://api.connected2fiber.com/network-intelligence/v6/broadband\[?address\]\[&lat\]\[&lon\]](https://api.connected2fiber.com/network-intelligence/v6/broadband[?address][&lat][&lon])

Request parameters	Characteristic	Description/Requirements
address	string	address to be located
lat (optional)	string	Latitude to use instead of address; however, address is still required.
lon (optional)	string	Longitude to use instead of address; however, address is still required.

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.

Get broadband Success Response Example

```
{
  "status": "success",
  "body": {
    "result": [
      {
        "access_media": "Fiber",
        "tech": "Optical Carrier / Fiber to the end user",
        "max_ad_down": 1000,
        "max_ad_up": 20
      },
      {
        "access_media": "Fiber",
        "tech": "Optical Carrier / Fiber to the end user",
        "max_ad_down": 0,
        "max_ad_up": 0,
        "provider_name": "Providing The Most Reliable Internet At Verizon Fios"
      },
      {
        "access_media": "Fiber",
        "tech": "Optical Carrier / Fiber to the end user",
        "max_ad_down": 0,
        "max_ad_up": 0,
        "provider_name": "Providing The Most Reliable Internet At Verizon Fios"
      },
      {
        "access_media": "Fiber",
        "tech": "Optical Carrier / Fiber to the end user",

```

Get broadband Success Response Example

```
"max_ad_down": 0,
"max_ad_up": 0,
"provider_name": "Windstream"
}, {
  "access_media": "Copper",
  "tech": "ADSL2, ADSL2+",
  "max_ad_down": 0,
  "max_ad_up": 0,
  "provider_name": "Windstream"
}, {
  "access_media": "Copper",
  "tech": "Other Copper Wireline",
  "max_ad_down": 0,
  "max_ad_up": 0,
  "provider_name": "Windstream"
}, {
  "access_media": "Copper",
  "tech": "Other Copper Wireline",
  "max_ad_down": 0,
  "max_ad_up": 0,
  "provider_name": "Windstream"
}, {
  "access_media": "Coax/HFC",
  "tech": "Cable Modem other than DOCSIS 1, 1.1, 2.0, 3.0, or 3.1",
  "max_ad_down": 0,
  "max_ad_up": 0,
  "provider_name": "Spectrotel"
}, {
  "access_media": "Coax/HFC",
  "tech": "Cable Modem - C DOCSIS 3.0",
  "max_ad_down": 500,
  "max_ad_up": 20
}, {
  "access_media": "Wireless - Fixed",
  "tech": "Terrestrial Fixed Wireless",
  "max_ad_down": 0,
  "max_ad_up": 0,
  "provider_name": "Usai.Net"
}, {
  "access_media": "Wireless - Fixed",
  "tech": "Terrestrial Fixed Wireless",
  "max_ad_down": 0,
  "max_ad_up": 0,
  "provider_name": "Windstream"
}, {
  "access_media": "Wireless - Fixed",
  "tech": "Terrestrial Fixed Wireless",
  "max_ad_down": 50,
  "max_ad_up": 50,
  "provider_name": "Netblazr"
}, {
  "access_media": "Coax/HFC",
  "tech": "Cable Modem - C DOCSIS 3.1",
  "max_ad_down": 987,
  "max_ad_up": 35,
  "provider_name": "Comcast"
}, {
  "access_media": "Coax/HFC",
  "tech": "Cable Modem - C DOCSIS 3.1",
  "max_ad_down": 1000,
  "max_ad_up": 20
}, {
  "access_media": "Copper",
  "tech": "Asymmetric xDSL",
  "max_ad_down": 15,
  "max_ad_up": 1,
  "provider_name": "Providing The Most Reliable Internet At Verizon Fios"
}, {
```

Get broadband Success Response Example

```
    "access_media": "Copper",
    "tech": "Asymmetric xDSL",
    "max_ad_down": 0,
    "max_ad_up": 0,
    "provider_name": "Windstream"
  }, {
    "access_media": "Fiber",
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_down": 0,
    "max_ad_up": 0,
    "provider_name": "Vyvx Llc"
  }, {
    "access_media": "Fiber",
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_down": 0,
    "max_ad_up": 0,
    "provider_name": "Cogent Communications Inc"
  }, {
    "access_media": "Fiber",
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_down": 0,
    "max_ad_up": 0,
    "provider_name": "Crown Castle"
  }
],
"location": {
  "street": "800 Boylston St",
  "city": "Boston",
  "state": "MA",
  "country": "USA",
  "postal": "02199",
  "longitude": -71.08225,
  "latitude": 42.34868
}
}
```

Get broadband response attributes and data types

Response Attribute	Attribute Description	Data Type
status	<ul style="list-style-type: none">• Success• Failed	string
body	object	object wrapper
result	object	object array
access_media	<p>The medium used for connectivity to the building or specified location.</p> <ul style="list-style-type: none">• Coax/HFC• Copper• Fiber• Wireless – Fixed• Wireless – Mobile• Wireless – Satellite• Other	string
tech	Where provided, the technology provided, such as “Optical Carrier / Fiber to the end user”, for example.	string

Response Attribute	Attribute Description	Data Type
max_ad_up	Maximum advertised upstream speed/ bandwidth offered by the provider in the block for Consumer service	int
max_ad_down	Maximum advertised downstream speed/ bandwidth offered by the provider in the block for Consumer service	int
provider_name	The name of the provider	string
location	object	object wrapper
street	The street address for the location.	string
city	The city in which the location resides.	string
state	The state in which the location resides.	string
postal	The zip code in which the location resides.	int
country	The country in which the location resides.	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

Get broadband Error Response Example

```
{
  "status": "fail",
  "error": "Unable to find address."
}
```

POST Bulk Address

Use this API to request network intelligence for multiple addresses simultaneously. The request id provided in the response is used in the [Get Bulk Address Callback](#) API to retrieve the results.

Requirements and Special Considerations

Company Id is a required parameter.



The request_id in the Request body can be any combination of letters, dashes, and/or numbers, but it must be a unique id per request. <https://api.connected2fiber.com/address-autocomplete/{address}>

Request URL
https://api.connected2fiber.com/network-intelligence/v6/ bulk_address[?companyId]

Request parameters	Characteristic	Description/Requirements
companyId	int	A unique number identifying the company.

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.

Post Bulk Address Request body
<pre>{ "addresses": [{ "address": "15323 N Scottsdale Rd", "city": "Scottsdale", "state": "AZ", "zipcode": "85254", "country": "USA" }, { "address": "2728 N 68th St", "city": "Scottsdale", "state": "AZ", "zipcode": "85254", "country": "USA" }, { "address": "1774 4th St", "city": "Berkeley", "state": "CA", "zipcode": "94710", "country": "USA" }, { "address": "6600 Topanga Canyon Blvd", "city": "Canoga Park", "state": "CA", "zipcode": "91303", "country": "USA" }, { "address": "3545 Mt Diablo Blvd", "city": "Lafayette", "state": "CA", "zipcode": "94549", "country": "USA" }, { "address": "23811 Aliso Creek Rd", "city": "Laguna Niguel", "state": "CA", "zipcode": "92677", "country": "USA" }], "request_id": "1234_command" }</pre>

Post Bulk Address Success Response Example

```
{
  "requestId": "1234_command",
  "status": "Completed",
  "body": [{
    "location": {
      "address": "15323 N Scottsdale Rd",
      "city": "Scottsdale",
      "state": "AZ",
      "postal": "85254",
      "country": "USA",
      "latitude": "33.625314",
      "longitude": "-111.923988"
    },
    "data": {
      "telco": {
        "lec": "LUMEN TECHNOLOGIES",
        "npa": "480",
        "nxx": "315",
        "ocn": "9636",
        "lata": "666",
        "type": "Telco",
        "state": "AZ",
        "lata_nm": "PHOENIX ARIZONA",
        "ocn_name": "QWEST CORPORATION",
        "swc_cli": "SCDLAZTHDS0",
        "rate_center": "PHOENIX",
        "building_cli": "",
        "central_office_address": {
          "zip": "85253",
          "city": "Paradise Valley",
          "state": "Arizona",
          "status": "success",
          "address": "6916 E Doubletree Ranch Rd",
          "message": null
        }
      },
      "cableco": {
        "type": "Cableco",
        "phone": "866-961-0027",
        "website": "cox.com",
        "cable_provider": "COX COMMUNICATIONS"
      },
      "wisp": {
        "type": "Wireless Service Providers",
        "count": 7,
        "providers": ["T-MOBILE", "MOJO BROADBAND", "TPT GLOBAL TECH", "PHOENIX INTERNET", "GUTIERREZ-PALMENBERG INC.", "TRIAD WIRELESS", "ONE RING NETWORKS"]
      },
      "broadband": [{
        "tech": "Optical Carrier / Fiber to the end user",
        "max_ad_up": 0,
        "max_cir_up": 1000,
        "max_ad_down": 0,
        "access_media": "Fiber",
        "max_cir_down": 1000,
        "provider_name": "LUMEN TECHNOLOGIES"
      }, {
        "tech": "Cable Modem - C DOCSIS 3.1",
        "max_ad_up": 35,
        "max_cir_up": 35,
        "max_ad_down": 1000,
        "access_media": "Coax/HFC",
        "max_cir_down": 1000,
        "provider_name": "COX COMMUNICATIONS"
      }, {
        "tech": "VDSL",
```

Post Bulk Address Success Response Example

```
    "max_ad_up": 10,
    "max_cir_up": 0,
    "max_ad_down": 100,
    "access_media": "Copper",
    "max_cir_down": 0,
    "provider_name": "LUMEN TECHNOLOGIES"
  }, {
    "tech": "Terrestrial Fixed Wireless",
    "max_ad_up": 5,
    "max_cir_up": 50,
    "max_ad_down": 50,
    "access_media": "Wireless - Fixed",
    "max_cir_down": 50,
    "provider_name": "GUTIERREZ-PALMENBERG INC."
  }, {
    "tech": "Terrestrial Fixed Wireless",
    "max_ad_up": 5,
    "max_cir_up": null,
    "max_ad_down": 50,
    "access_media": "Wireless - Fixed",
    "max_cir_down": null,
    "provider_name": "TRIAD WIRELESS"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 0,
    "max_cir_up": null,
    "max_ad_down": 0,
    "access_media": "Fiber",
    "max_cir_down": null,
    "provider_name": "TPX COMMUNICATIONS"
  }, {
    "tech": "Asymmetric xDSL",
    "max_ad_up": 0.5,
    "max_cir_up": 0,
    "max_ad_down": 6,
    "access_media": "Copper",
    "max_cir_down": 0,
    "provider_name": "LUMEN TECHNOLOGIES"
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0,
    "max_cir_up": 6,
    "max_ad_down": 0,
    "access_media": "Copper",
    "max_cir_down": 6,
    "provider_name": "VERIZON"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 0,
    "max_cir_up": 0,
    "max_ad_down": 0,
    "access_media": "Fiber",
    "max_cir_down": 0,
    "provider_name": "LUMEN TECHNOLOGIES"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 1000,
    "max_cir_up": 1000,
    "max_ad_down": 1000,
    "access_media": "Fiber",
    "max_cir_down": 1000,
    "provider_name": "COX COMMUNICATIONS"
  }
],
"onnet": {
  "type": "On Net",
  "count": 7,
  "providers": ["COX COMMUNICATIONS", "LUMEN TECHNOLOGIES", "ZAYO", "VERIZON", "GUTIERREZ-PALMENBERG INC.", "TRIAD WIRELESS", "PHOENIX"]
}
```

Post Bulk Address Success Response Example

```
INTERNET"]
    },
    "nearnnet": {
      "type": "Near Net",
      "count": 12,
      "providers": ["ZAYO", "VERIZON", "ONE RING NETWORKS", "MOJO BROADBAND", "T-
MOBILE", "TPT GLOBAL TECH", "PHOENIX INTERNET", "GUTIERREZ-PALMENBERG INC.", "TRIAD
WIRELESS", "COX COMMUNICATIONS", "LUMEN TECHNOLOGIES", "BLUE OCEAN"]
    }
  }, {
    "location": {
      "address": "1774 4th St",
      "city": "Berkeley",
      "state": "CA",
      "postal": "94710",
      "country": "USA",
      "latitude": "37.870259",
      "longitude": "-122.300966"
    },
    "data": {
      "telco": {
        "lec": "AT&T",
        "npa": "510",
        "nxx": "292",
        "ocn": "9740",
        "lata": "722",
        "type": "Telco",
        "state": "CA",
        "lata_nm": "SAN FRANCISCO CA",
        "ocn_name": "PACIFIC BELL",
        "swc_clli": "ALBYCALLDS0",
        "rate_center": "OKLD BKLY",
        "building_clli": "",
        "central_office_address": {
          "zip": "94707",
          "city": "Berkeley",
          "state": "California",
          "status": "success",
          "address": "1612 Solano Ave",
          "message": null
        }
      },
      "cableco": {
        "type": "Cableco",
        "phone": "800-266-2278",
        "website": "business.comcast.com",
        "cable_provider": "COMCAST"
      },
      "wisp": {
        "type": "Wireless Service Providers",
        "count": 7,
        "providers": ["TPX COMMUNICATIONS", "UNWIRED LTD", "ALPHABET", "ETHERIC
NETWORKS", "TOWERSTREAM", "WILINE NETWORKS", "T-MOBILE"]
      },
      "broadband": [{
        "tech": "Terrestrial Fixed Wireless",
        "max_ad_up": 150,
        "max_cir_up": 1000,
        "max_ad_down": 150,
        "access_media": "Wireless - Fixed",
        "max_cir_down": 1000,
        "provider_name": "UNWIRED LTD"
      }, {
        "tech": "ADSL2, ADSL2+",
        "max_ad_up": 1.5,
        "max_cir_up": 0,
        "max_ad_down": 18,
```

Post Bulk Address Success Response Example

```
    "access_media": "Copper",
    "max_cir_down": 0,
    "provider_name": "AT&T"
  }, {
    "tech": "Symmetric xDSL",
    "max_ad_up": 0.26,
    "max_cir_up": 100,
    "max_ad_down": 0.77,
    "access_media": "Copper",
    "max_cir_down": 100,
    "provider_name": "SONIC"
  }, {
    "tech": "Terrestrial Fixed Wireless",
    "max_ad_up": 150,
    "max_cir_up": 100,
    "max_ad_down": 150,
    "access_media": "Wireless - Fixed",
    "max_cir_down": 100,
    "provider_name": "ETHERIC NETWORKS"
  }, {
    "tech": "Cable Modem - C DOCSIS 3.1",
    "max_ad_up": 35,
    "max_cir_up": 0,
    "max_ad_down": 1000,
    "access_media": "Coax/HFC",
    "max_cir_down": 0,
    "provider_name": "COMCAST"
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0,
    "max_cir_up": 1.5,
    "max_ad_down": 0,
    "access_media": "Copper",
    "max_cir_down": 1.5,
    "provider_name": "VERIZON"
  }, {
    "tech": "Asymmetric xDSL",
    "max_ad_up": 0.26,
    "max_cir_up": 0,
    "max_ad_down": 0.77,
    "access_media": "Copper",
    "max_cir_down": 0,
    "provider_name": "AT&T"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 1000,
    "max_cir_up": 1000,
    "max_ad_down": 1000,
    "access_media": "Fiber",
    "max_cir_down": 1000,
    "provider_name": "SONIC"
  }, {
    "tech": "VDSL",
    "max_ad_up": 20,
    "max_cir_up": 0,
    "max_ad_down": 100,
    "access_media": "Copper",
    "max_cir_down": 0,
    "provider_name": "AT&T"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 1000,
    "max_cir_up": null,
    "max_ad_down": 2000,
    "access_media": "Fiber",
    "max_cir_down": null,
    "provider_name": "SONIC CORP"
  }, {
```

Post Bulk Address Success Response Example

```
    "tech": "Other Copper Wireline",
    "max_ad_up": 0.26,
    "max_cir_up": 12,
    "max_ad_down": 0.77,
    "access_media": "Copper",
    "max_cir_down": 12,
    "provider_name": "SONIC"
  }],
  "onnet": {
    "type": "On Net",
    "count": 6,
    "providers": ["AT&T", "COMCAST", "UNWIRED LTD", "ZAYO", "PAXIO", "ETHERIC
NETWORKS"]
  },
  "nearnet": {
    "type": "Near Net",
    "count": 20,
    "providers": ["UNION PACIFIC RAILROAD", "WINDSTREAM", "LUMEN
TECHNOLOGIES", "WILINE NETWORKS", "VERIZON", "CISCO", "ZAYO", "TELIA
COMPANY", "SONIC", "GEOLINKS", "ETHERIC NETWORKS", "UNWIRED LTD", "T-
MOBILE", "ALPHABET", "TOWERSTREAM", "COMCAST", "AT&T", "CALLONE", "PAXIO", "EXTENET
SYSTEMS"]
  }
}, {
  "location": {
    "address": "23811 Aliso Creek Rd",
    "city": "Laguna Niguel",
    "state": "CA",
    "postal": "92677",
    "country": "USA",
    "latitude": "33.556231",
    "longitude": "-117.716885"
  },
  "data": {
    "telco": {
      "lec": "AT&T",
      "npa": "949",
      "nxx": "249",
      "ocn": "9740",
      "lata": "730",
      "type": "Telco",
      "state": "CA",
      "lata_nm": "LOS ANGELES CA",
      "ocn_name": "PACIFIC BELL",
      "swc_clli": "LGNGCA12DS0",
      "rate_center": "CAPITRNVLY",
      "building_clli": "",
      "central_office_address": {
        "zip": "92677",
        "city": "Laguna Niguel",
        "state": "California",
        "status": "success",
        "address": "24421 Aliso Creek Rd",
        "message": null
      }
    },
    "cableco": {
      "type": "Cableco",
      "phone": "866-961-0027",
      "website": "cox.com",
      "cable_provider": "COX COMMUNICATIONS"
    },
    "wisp": {
      "type": "Wireless Service Providers",
      "count": 3,
      "providers": ["TPX COMMUNICATIONS", "T-MOBILE", "GEOLINKS"]
    }
  }
}
```

Post Bulk Address Success Response Example

```
    "broadband": [{
      "tech": "Cable Modem - C DOCSIS 3.1",
      "max_ad_up": 35,
      "max_cir_up": 35,
      "max_ad_down": 1000,
      "access_media": "Coax/HFC",
      "max_cir_down": 1000,
      "provider_name": "COX COMMUNICATIONS"
    }, {
      "tech": "ADSL2, ADSL2+",
      "max_ad_up": 1.5,
      "max_cir_up": 0,
      "max_ad_down": 18,
      "access_media": "Copper",
      "max_cir_down": 0,
      "provider_name": "AT&T"
    }, {
      "tech": "Optical Carrier / Fiber to the end user",
      "max_ad_up": 0,
      "max_cir_up": null,
      "max_ad_down": 0,
      "access_media": "Fiber",
      "max_cir_down": null,
      "provider_name": "WHITESKY"
    }, {
      "tech": "Asymmetric xDSL",
      "max_ad_up": 0.51,
      "max_cir_up": 0,
      "max_ad_down": 6,
      "access_media": "Copper",
      "max_cir_down": 0,
      "provider_name": "AT&T"
    }
  ],
  "onnet": {
    "type": "On Net",
    "count": 4,
    "providers": ["AT&T", "COX COMMUNICATIONS", "LUMEN TECHNOLOGIES", "VIASAT COMMUNICATIONS"]
  },
  "nearnet": {
    "type": "Near Net",
    "count": 12,
    "providers": ["EDISON CARRIER SOLUTIONS", "CROWN CASTLE", "SOUTHERN CALIFORNIA EDISON COMPANY", "GEOLINKS", "MHO", "T-MOBILE", "AT&T", "EDISON INTERNATIONAL", "COX COMMUNICATIONS", "VERIZON", "LUMEN TECHNOLOGIES", "STRUCTURAL ENGINEERS"]
  }
}, {
  "location": {
    "address": "2728 N 68th St",
    "city": "Scottsdale",
    "state": "AZ",
    "postal": "85257",
    "country": "USA",
    "latitude": "33.478885",
    "longitude": "-111.935394"
  },
  "data": {
    "telco": {
      "lec": "LUMEN TECHNOLOGIES",
      "npa": "480",
      "nxx": "312",
      "ocn": "9636",
      "lata": "666",
      "type": "Telco",
      "state": "AZ",
      "lata_nm": "PHOENIX ARIZONA",
```

Post Bulk Address Success Response Example

```
    "ocn_name": "QWEST CORPORATION",
    "swc_clli": "SCDLAZMADS0",
    "rate_center": "PHOENIX",
    "building_clli": "",
    "central_office_address": {
      "zip": "85251",
      "city": "Scottsdale",
      "state": "Arizona",
      "status": "success",
      "address": "7145 E 1st St",
      "message": null
    }
  },
  "cableco": {
    "type": "Cableco",
    "phone": "866-961-0027",
    "website": "cox.com",
    "cable_provider": "COX COMMUNICATIONS"
  },
  "wisp": {
    "type": "Wireless Service Providers",
    "count": 4,
    "providers": ["GUTIERREZ-PALMENBERG INC.", "PHOENIX INTERNET", "TRIAD WIRELESS", "T-MOBILE"]
  },
  "broadband": [{
    "tech": "Terrestrial Fixed Wireless",
    "max_ad_up": 50,
    "max_cir_up": null,
    "max_ad_down": 300,
    "access_media": "Wireless - Fixed",
    "max_cir_down": null,
    "provider_name": "TRIAD WIRELESS"
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0,
    "max_cir_up": 1.5,
    "max_ad_down": 0,
    "access_media": "Copper",
    "max_cir_down": 1.5,
    "provider_name": "VERIZON"
  }, {
    "tech": "Terrestrial Fixed Wireless",
    "max_ad_up": 1,
    "max_cir_up": 5,
    "max_ad_down": 15,
    "access_media": "Wireless - Fixed",
    "max_cir_down": 20,
    "provider_name": "GUTIERREZ-PALMENBERG INC."
  }, {
    "tech": "Cable Modem - C DOCSIS 3.1",
    "max_ad_up": 35,
    "max_cir_up": 35,
    "max_ad_down": 1000,
    "access_media": "Coax/HFC",
    "max_cir_down": 1000,
    "provider_name": "COX COMMUNICATIONS"
  }, {
    "tech": "VDSL",
    "max_ad_up": 10,
    "max_cir_up": 0,
    "max_ad_down": 100,
    "access_media": "Copper",
    "max_cir_down": 0,
    "provider_name": "LUMEN TECHNOLOGIES"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 940,
```

Post Bulk Address Success Response Example

```
        "max_cir_up": 1000,
        "max_ad_down": 940,
        "access_media": "Fiber",
        "max_cir_down": 1000,
        "provider_name": "LUMEN TECHNOLOGIES"
    }, {
        "tech": "Optical Carrier / Fiber to the end user",
        "max_ad_up": 940,
        "max_cir_up": 0,
        "max_ad_down": 940,
        "access_media": "Fiber",
        "max_cir_down": 0,
        "provider_name": "LUMEN TECHNOLOGIES"
    }],
    "onnet": {
        "type": "On Net",
        "count": 6,
        "providers": ["LUMEN TECHNOLOGIES", "COX COMMUNICATIONS", "T-MOBILE", "GUTIERREZ-PALMENBERG INC.", "TRIAD WIRELESS", "ZAYO"]
    },
    "nearnet": {
        "type": "Near Net",
        "count": 9,
        "providers": ["SRP TELECOM", "ZAYO", "VERIZON", "T-MOBILE", "PHOENIX INTERNET", "GUTIERREZ-PALMENBERG INC.", "TRIAD WIRELESS", "COX COMMUNICATIONS", "LUMEN TECHNOLOGIES"]
    }
}, {
    "location": {
        "address": "3545 Mt Diablo Blvd",
        "city": "Lafayette",
        "state": "CA",
        "postal": "94549",
        "country": "USA",
        "latitude": "37.891697",
        "longitude": "-122.119982"
    },
    "data": {
        "telco": {
            "lec": "AT&T",
            "npa": "925",
            "nxx": "283",
            "ocn": "9740",
            "lata": "722",
            "type": "Telco",
            "state": "CA",
            "lata_nm": "SAN FRANCISCO CA",
            "ocn_name": "PACIFIC BELL",
            "swc_clli": "LFYTCAL1DS0",
            "rate_center": "LAFAYETTE",
            "building_clli": "",
            "central_office_address": {
                "zip": "94549",
                "city": "Lafayette",
                "state": "California",
                "status": "success",
                "address": "3610 Happy Valley Rd",
                "message": null
            }
        },
        "cableco": {
            "type": "Cableco",
            "phone": "800-266-2278",
            "website": "business.comcast.com",
            "cable_provider": "COMCAST"
        },
        "wisp": {
```

Post Bulk Address Success Response Example

```
    "type": "Wireless Service Providers",
    "count": 3,
    "providers": ["T-MOBILE", "ETHERIC NETWORKS", "TPX COMMUNICATIONS"]
  },
  "broadband": [{
    "tech": "Terrestrial Fixed Wireless",
    "max_ad_up": 80,
    "max_cir_up": 100,
    "max_ad_down": 80,
    "access_media": "Wireless - Fixed",
    "max_cir_down": 100,
    "provider_name": "ETHERIC NETWORKS"
  }, {
    "tech": "Cable Modem - C DOCSIS 3.1",
    "max_ad_up": 35,
    "max_cir_up": 0,
    "max_ad_down": 1000,
    "access_media": "Coax/HFC",
    "max_cir_down": 0,
    "provider_name": "COMCAST"
  }],
  "onnet": {
    "type": "On Net",
    "count": 4,
    "providers": ["COMCAST", "AT&T", "WILINE NETWORKS", "ETHERIC NETWORKS"]
  },
  "nearnet": {
    "type": "Near Net",
    "count": 10,
    "providers": ["LUMEN TECHNOLOGIES", "ZAYO", "WAVE
BAND", "GEOLINKS", "ETHERIC NETWORKS", "T-MOBILE", "COMCAST", "AT&T", "EXTENET
SYSTEMS", "UNWIRED LTD"]
  }
}, {
  "location": {
    "address": "6600 Topanga Canyon Blvd",
    "city": "Canoga Park",
    "state": "CA",
    "postal": "91303",
    "country": "USA",
    "latitude": "34.190029",
    "longitude": "-118.605659"
  },
  "data": {
    "telco": {
      "lec": "AT&T",
      "npa": "818",
      "nxx": "226",
      "ocn": "9740",
      "lata": "730",
      "type": "Telco",
      "state": "CA",
      "lata_nm": "LOS ANGELES CA",
      "ocn_name": "PACIFIC BELL",
      "swc_clli": "CNPKCA01DS0",
      "rate_center": "CANOGAPARK",
      "building_clli": "",
      "central_office_address": {
        "zip": "91303",
        "city": "Canoga Park",
        "state": "California",
        "status": "success",
        "address": "22012 Vanowen St",
        "message": null
      }
    }
  },
  "cableco": {
```

Post Bulk Address Success Response Example

```
    "type": "Cableco",
    "phone": "203-905-7801",
    "website": "spectrum.com",
    "cable_provider": "SPECTRUM"
  },
  "wisp": {
    "type": "Wireless Service Providers",
    "count": 5,
    "providers": ["ONE RING NETWORKS", "GEOLINKS", "GO CREATIVE
WIRELESS", "STARRY INC", "T-MOBILE"]
  },
  "broadband": [{
    "tech": "Terrestrial Fixed Wireless",
    "max_ad_up": 40,
    "max_cir_up": null,
    "max_ad_down": 100,
    "access_media": "Wireless - Fixed",
    "max_cir_down": null,
    "provider_name": "GO CREATIVE WIRELESS"
  }, {
    "tech": "Terrestrial Fixed Wireless",
    "max_ad_up": 200,
    "max_cir_up": null,
    "max_ad_down": 200,
    "access_media": "Wireless - Fixed",
    "max_cir_down": null,
    "provider_name": "STARRY INC"
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0,
    "max_cir_up": 20,
    "max_ad_down": 0,
    "access_media": "Copper",
    "max_cir_down": 20,
    "provider_name": "TPX COMMUNICATIONS"
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0.51,
    "max_cir_up": 1.5,
    "max_ad_down": 6,
    "access_media": "Copper",
    "max_cir_down": 1.5,
    "provider_name": "KINETIC"
  }, {
    "tech": "Cable Modem - C DOCSIS 3.1",
    "max_ad_up": 35,
    "max_cir_up": 0,
    "max_ad_down": 940,
    "access_media": "Coax/HFC",
    "max_cir_down": 0,
    "provider_name": "SPECTRUM"
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0.51,
    "max_cir_up": 1.5,
    "max_ad_down": 6,
    "access_media": "Copper",
    "max_cir_down": 1.5,
    "provider_name": "CYBERNET COMMUNICATIONS INC."
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0.51,
    "max_cir_up": 6,
    "max_ad_down": 6,
    "access_media": "Copper",
    "max_cir_down": 6,
    "provider_name": "FUSION CONNECT"
  }, {
  }
```

Post Bulk Address Success Response Example

```
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 0,
    "max_cir_up": 1,
    "max_ad_down": 0,
    "access_media": "Fiber",
    "max_cir_down": 6,
    "provider_name": "SPECTROTEL"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 0,
    "max_cir_up": 8,
    "max_ad_down": 0,
    "access_media": "Fiber",
    "max_cir_down": 100,
    "provider_name": "WINDSTREAM"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 0,
    "max_cir_up": 100,
    "max_ad_down": 0,
    "access_media": "Fiber",
    "max_cir_down": 100,
    "provider_name": "TPX COMMUNICATIONS"
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0,
    "max_cir_up": 11,
    "max_ad_down": 0,
    "access_media": "Copper",
    "max_cir_down": 11,
    "provider_name": "VERIZON"
  }, {
    "tech": "Terrestrial Fixed Wireless",
    "max_ad_up": 1000,
    "max_cir_up": 1000,
    "max_ad_down": 1000,
    "access_media": "Wireless - Fixed",
    "max_cir_down": 1000,
    "provider_name": "GEOLINKS"
  }, {
    "tech": "ADSL2, ADSL2+",
    "max_ad_up": 0,
    "max_cir_up": null,
    "max_ad_down": 0,
    "access_media": "Copper",
    "max_cir_down": null,
    "provider_name": "KINETIC"
  }, {
    "tech": "Terrestrial Fixed Wireless",
    "max_ad_up": 100,
    "max_cir_up": null,
    "max_ad_down": 100,
    "access_media": "Wireless - Fixed",
    "max_cir_down": null,
    "provider_name": "ONE RING NETWORKS"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 0,
    "max_cir_up": 300,
    "max_ad_down": 0,
    "access_media": "Fiber",
    "max_cir_down": 300,
    "provider_name": "VERIZON"
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0,
    "max_cir_up": 1.5,
    "max_ad_down": 0,
```

Post Bulk Address Success Response Example

```

    "access_media": "Copper",
    "max_cir_down": 1.5,
    "provider_name": "NETFORTRIS INC."
  }, {
    "tech": "Asymmetric xDSL",
    "max_ad_up": 0.51,
    "max_cir_up": 1.5,
    "max_ad_down": 6,
    "access_media": "Copper",
    "max_cir_down": 1.5,
    "provider_name": "KINETIC"
  }, {
    "tech": null,
    "max_ad_up": 0,
    "max_cir_up": 0,
    "max_ad_down": 0,
    "access_media": "Fiber",
    "max_cir_down": 0,
    "provider_name": "EARTHLINK LLC"
  }],
  "onnet": {
    "type": "On Net",
    "count": 11,
    "providers": ["AT&T", "SPECTRUM", "HARGRAY", "FRONTIER COMMUNICATIONS CORPORATION", "GEOLINKS", "GO CREATIVE WIRELESS", "STARRY INC", "SOUTHERN CALIFORNIA EDISON COMPANY", "T-MOBILE", "COMCAST", "CROWN CASTLE"]
  },
  "nearnet": {
    "type": "Near Net",
    "count": 17,
    "providers": ["EDISON CARRIER SOLUTIONS", "VERIZON", "EDISON INTERNATIONAL", "ZAYO", "SOUTHERN CALIFORNIA EDISON COMPANY", "STRUCTURAL ENGINEERS", "GEOLINKS", "MHO", "ONE RING NETWORKS", "STARRY INC", "T-MOBILE", "GO CREATIVE WIRELESS", "FRONTIER COMMUNICATIONS CORPORATION", "AT&T", "SPECTRUM", "CROWN CASTLE", "CALLONE"]
  }
},
  "totalRecords": 6,
  "invalidRecords": 0,
  "duplicateRecords": 0,
  "failedRecords": 0,
  "inProgressRecord": 0,
  "completedRecord": 6
}

```

POST Bulk Address response attributes and data types

Response Attribute	Attribute Description	Data Type
requestId	A unique identifier for the request	string
status	Indicates that status of API completion.	string
body	object	object wrapper
location	object	object wrapper
address	The street address of the location.	string
city	The city in which the location resides.	string
state	The state in which the location resides.	string
postal	The postal code of the location	string

Response Attribute	Attribute Description	Data Type
country	The country in which the location resides.	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
data	object	object wrapper
telco	object	object wrapper
lec	Local Exchange Carrier	string
npa	<p>Numbering Plan Areas, each identified by a three-digit NPA code, commonly called an area code.</p> <p>NPAs represent an aggregation of exchange areas for which the given code is applicable. These Code/Exchange area relationships are assigned by the North American Numbering Plan Administration (NANPA) and published in the Local Exchange Routing Guide (LERG) database published monthly by 'iconectiv'.</p>	string
nxx	<p>Area Code/Prefix (NPA/NXX) Assignment.</p> <p>Valid Prefixes per NPA are published according to exchange switch specifications published in the LERG. A subset of NPA/NXX combinations are serviced by the incumbent Local Exchange Carriers (ILECS) operating Serving Wire Centers.</p>	string
ocn	Operating company number; a 4-character ID used to identify a company that provides local exchange telephone services.	string
lata	3-digit code that represents the boundary of the Local Access and Transport Area.	string
type	Identifies the type of carrier, such as Telco, for example.	string
state	The name of the state	string
lata_nm	LATA provider name	string

Response Attribute	Attribute Description	Data Type
	Local Access and Transport Area defines geographical boundaries of local telephone service networks.	
ocn_name	The name of the provider associated with the OCN number.	string
swc_clli	Serving Wire Center clli code	string
rate_center	In the North American Numbering Plan , a rate center (rate centre in Canada) is a geographically-specified area used for determining mileage and/or usage dependent rates in the public switched telephone network.	string
building_clli (blank/null unless specifically provided by the customer)	Common Language Information Services Identifier (CLLI), used to identify the building location. Network Site codes are typically used to identify building locations, specific to an address. First four characters represent a geographical code, the fifth and sixth characters represent a geopolitical code. The remaining two characters are uniquely assigned by iconectiv® to identify the building location.	string
central_office_address	object wrapper	object
zip	The zip code for the central office location.	string
city	The city in which the location resides.	string
state	The state in which the location resides.	string
status	Success or fail	string
address	The street address of the central office location.	string
message	Any additional information provided by the customer.	string
cableco	Object wrapper for cableco data	object
type	The type of service provider, such as Cableco or Wireless Service Providers, etc.	string
phone	The phone number of the provider.	string
website	The website for the providers	string
cable_provider	The name of the cable provider	string
wisp	Object wrapper for wisp data	object
type	The type of service provider, such as Cableco or Wireless Service Providers, etc.	string
count	The number of providers found	int
providers	Lists the provider names found	string

Response Attribute	Attribute Description	Data Type
broadband	object	object wrapper
tech	Indicates the technology, such as "Optical Carrier / Fiber to the end user",	string
max_ad_up	Maximum advertised upstream speed/ bandwidth offered by the provider in the block for Consumer service	int
max_cir_up	Maximum contractual upstream bandwidth offered by the provider in the block for Business service (filer directed to report 0 if the contracted service is sold on a "best efforts" basis without a guaranteed data-throughput rate)	int
max_ad_down	Maximum advertised downstream speed/ bandwidth offered by the provider in the block for Consumer service	int
access_media	The medium used for connectivity to the building or specified location. <ul style="list-style-type: none"> • Coax/HFC • Copper • Fiber • Wireless – Fixed • Wireless – Mobile • Wireless – Satellite • Other 	string
max_cir_down	Maximum contractual downstream bandwidth offered by the provider in the block for Business service (filer directed to report 0 if the contracted service is sold on a "best efforts" basis without a guaranteed data-throughput rate)	int
provider_name	The name of the provider	string
tech	Indicates the technology, such as "Optical Carrier / Fiber to the end user",	string
onnet	Object wrapper for onnet data	object
type	The type of service provider, such as Cableco or Wireless Service Providers, etc.	string
count	The number of providers found	int
providers	Lists the provider names found	string
nearnet	Object wrapper for nearnet data	object
type	The type of service provider, such as Cableco or Wireless Service Providers, etc.	string
count	The number of providers found	int
providers	Lists the provider names found	string

Response Attribute	Attribute Description	Data Type
totalRecords	The total number of records found	int
invalidRecords	The number of invalid records found	int
duplicateRecords	The number of duplicate records found.	int
failedRecords	The number of failed records.	int
inProgressRecord	The number of records still in progress.	int
completedRecord	The number of completed records.	int

POST Bulk Address Error Response Example
<pre>{ "status": "fail", "message": "Request Id already exists" }</pre>

GET Bulk Address Callback

Use this API to call back the results for a given request id. The request id is returned in the response of the [POST Bulk Address](#) API.

Requirements and Special Considerations
Request Id is a required parameter. https://api.connected2fiber.com/address-autocomplete/{address}

Request URL
https://api.connected2fiber.com/network-intelligence/v6/bulk_address/{requestId}

Request parameters	Characteristic	Description/Requirements
requestId	string	Request Id that is passed to the Bulk Address API.

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.

Get Bulk Address Callback Success Response Example
<pre>{ "requestId": "1234_command", "status": "Completed", "body": [{ "location": { "address": "15323 N Scottsdale Rd", "city": "Scottsdale", "state": "AZ", "postal": "85254", "country": "USA", "latitude": "33.625314", "longitude": "-111.923988" }] },</pre>

Get Bulk Address Callback Success Response Example

```
"data": {
  "telco": {
    "lec": "LUMEN TECHNOLOGIES",
    "npa": "480",
    "nxx": "315",
    "ocn": "9636",
    "lata": "666",
    "type": "Telco",
    "state": "AZ",
    "lata_nm": "PHOENIX ARIZONA",
    "ocn_name": "QWEST CORPORATION",
    "swc_clli": "SCDLAZTHDS0",
    "rate_center": "PHOENIX",
    "building_clli": "",
    "central_office_address": {
      "zip": "85253",
      "city": "Paradise Valley",
      "state": "Arizona",
      "status": "success",
      "address": "6916 E Doubletree Ranch Rd",
      "message": null
    }
  },
  "cableco": {
    "type": "Cableco",
    "phone": "866-961-0027",
    "website": "cox.com",
    "cable_provider": "COX COMMUNICATIONS"
  },
  "wisp": {
    "type": "Wireless Service Providers",
    "count": 7,
    "providers": ["T-MOBILE", "MOJO BROADBAND", "TPT GLOBAL TECH", "PHOENIX INTERNET", "GUTIERREZ-PALMENBERG INC.", "TRIAD WIRELESS", "ONE RING NETWORKS"]
  },
  "broadband": [
    {
      "tech": "Optical Carrier / Fiber to the end user",
      "max_ad_up": 0,
      "max_cir_up": 1000,
      "max_ad_down": 0,
      "access_media": "Fiber",
      "max_cir_down": 1000,
      "provider_name": "LUMEN TECHNOLOGIES"
    },
    {
      "tech": "Cable Modem - C DOCSIS 3.1",
      "max_ad_up": 35,
      "max_cir_up": 35,
      "max_ad_down": 1000,
      "access_media": "Coax/HFC",
      "max_cir_down": 1000,
      "provider_name": "COX COMMUNICATIONS"
    },
    {
      "tech": "VDSL",
      "max_ad_up": 10,
      "max_cir_up": 0,
      "max_ad_down": 100,
      "access_media": "Copper",
      "max_cir_down": 0,
      "provider_name": "LUMEN TECHNOLOGIES"
    },
    {
      "tech": "Terrestrial Fixed Wireless",
      "max_ad_up": 5,
      "max_cir_up": 50,
      "max_ad_down": 50,
      "access_media": "Wireless - Fixed",
      "max_cir_down": 50,
      "provider_name": "GUTIERREZ-PALMENBERG INC."
    }
  ]
}
```

Get Bulk Address Callback Success Response Example

```

    "tech": "Terrestrial Fixed Wireless",
    "max_ad_up": 5,
    "max_cir_up": null,
    "max_ad_down": 50,
    "access_media": "Wireless - Fixed",
    "max_cir_down": null,
    "provider_name": "TRIAD WIRELESS"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 0,
    "max_cir_up": null,
    "max_ad_down": 0,
    "access_media": "Fiber",
    "max_cir_down": null,
    "provider_name": "TPX COMMUNICATIONS"
  }, {
    "tech": "Asymmetric xDSL",
    "max_ad_up": 0.5,
    "max_cir_up": 0,
    "max_ad_down": 6,
    "access_media": "Copper",
    "max_cir_down": 0,
    "provider_name": "LUMEN TECHNOLOGIES"
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0,
    "max_cir_up": 6,
    "max_ad_down": 0,
    "access_media": "Copper",
    "max_cir_down": 6,
    "provider_name": "VERIZON"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 0,
    "max_cir_up": 0,
    "max_ad_down": 0,
    "access_media": "Fiber",
    "max_cir_down": 0,
    "provider_name": "LUMEN TECHNOLOGIES"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 1000,
    "max_cir_up": 1000,
    "max_ad_down": 1000,
    "access_media": "Fiber",
    "max_cir_down": 1000,
    "provider_name": "COX COMMUNICATIONS"
  }],
  "onnet": {
    "type": "On Net",
    "count": 7,
    "providers": ["COX COMMUNICATIONS", "LUMEN
TECHNOLOGIES", "ZAYO", "VERIZON", "GUTIERREZ-PALMENBERG INC.", "TRIAD WIRELESS", "PHOENIX
INTERNET"]
  },
  "nearnet": {
    "type": "Near Net",
    "count": 12,
    "providers": ["ZAYO", "VERIZON", "ONE RING NETWORKS", "MOJO BROADBAND", "T-
MOBILE", "TPT GLOBAL TECH", "PHOENIX INTERNET", "GUTIERREZ-PALMENBERG INC.", "TRIAD
WIRELESS", "COX COMMUNICATIONS", "LUMEN TECHNOLOGIES", "BLUE OCEAN"]
  }
}, {
  "location": {
    "address": "1774 4th St",
    "city": "Berkeley",
    "state": "CA",

```

Get Bulk Address Callback Success Response Example

```
    "postal": "94710",
    "country": "USA",
    "latitude": "37.870259",
    "longitude": "-122.300966"
  },
  "data": {
    "telco": {
      "lec": "AT&T",
      "npa": "510",
      "nxx": "292",
      "ocn": "9740",
      "lata": "722",
      "type": "Telco",
      "state": "CA",
      "lata_nm": "SAN FRANCISCO CA",
      "ocn_name": "PACIFIC BELL",
      "swc_clli": "ALBYCALLDS0",
      "rate_center": "OKLD BKLY",
      "building_clli": "",
      "central_office_address": {
        "zip": "94707",
        "city": "Berkeley",
        "state": "California",
        "status": "success",
        "address": "1612 Solano Ave",
        "message": null
      }
    },
    "cableco": {
      "type": "Cableco",
      "phone": "800-266-2278",
      "website": "business.comcast.com",
      "cable_provider": "COMCAST"
    },
    "wisp": {
      "type": "Wireless Service Providers",
      "count": 7,
      "providers": ["TPX COMMUNICATIONS", "UNWIRED LTD", "ALPHABET", "ETHERIC NETWORKS", "TOWERSTREAM", "WILINE NETWORKS", "T-MOBILE"]
    },
    "broadband": [{
      "tech": "Terrestrial Fixed Wireless",
      "max_ad_up": 150,
      "max_cir_up": 1000,
      "max_ad_down": 150,
      "access_media": "Wireless - Fixed",
      "max_cir_down": 1000,
      "provider_name": "UNWIRED LTD"
    }, {
      "tech": "ADSL2, ADSL2+",
      "max_ad_up": 1.5,
      "max_cir_up": 0,
      "max_ad_down": 18,
      "access_media": "Copper",
      "max_cir_down": 0,
      "provider_name": "AT&T"
    }, {
      "tech": "Symmetric xDSL",
      "max_ad_up": 0.26,
      "max_cir_up": 100,
      "max_ad_down": 0.77,
      "access_media": "Copper",
      "max_cir_down": 100,
      "provider_name": "SONIC"
    }, {
      "tech": "Terrestrial Fixed Wireless",
      "max_ad_up": 150,
      "max_cir_up": 100,
```

Get Bulk Address Callback Success Response Example

```

        "max_ad_down": 150,
        "access_media": "Wireless - Fixed",
        "max_cir_down": 100,
        "provider_name": "ETHERIC NETWORKS"
    }, {
        "tech": "Cable Modem - C DOCSIS 3.1",
        "max_ad_up": 35,
        "max_cir_up": 0,
        "max_ad_down": 1000,
        "access_media": "Coax/HFC",
        "max_cir_down": 0,
        "provider_name": "COMCAST"
    }, {
        "tech": "Other Copper Wireline",
        "max_ad_up": 0,
        "max_cir_up": 1.5,
        "max_ad_down": 0,
        "access_media": "Copper",
        "max_cir_down": 1.5,
        "provider_name": "VERIZON"
    }, {
        "tech": "Asymmetric xDSL",
        "max_ad_up": 0.26,
        "max_cir_up": 0,
        "max_ad_down": 0.77,
        "access_media": "Copper",
        "max_cir_down": 0,
        "provider_name": "AT&T"
    }, {
        "tech": "Optical Carrier / Fiber to the end user",
        "max_ad_up": 1000,
        "max_cir_up": 1000,
        "max_ad_down": 1000,
        "access_media": "Fiber",
        "max_cir_down": 1000,
        "provider_name": "SONIC"
    }, {
        "tech": "VDSL",
        "max_ad_up": 20,
        "max_cir_up": 0,
        "max_ad_down": 100,
        "access_media": "Copper",
        "max_cir_down": 0,
        "provider_name": "AT&T"
    }, {
        "tech": "Optical Carrier / Fiber to the end user",
        "max_ad_up": 1000,
        "max_cir_up": null,
        "max_ad_down": 2000,
        "access_media": "Fiber",
        "max_cir_down": null,
        "provider_name": "SONIC CORP"
    }, {
        "tech": "Other Copper Wireline",
        "max_ad_up": 0.26,
        "max_cir_up": 12,
        "max_ad_down": 0.77,
        "access_media": "Copper",
        "max_cir_down": 12,
        "provider_name": "SONIC"
    }
  ],
  "onnet": {
    "type": "On Net",
    "count": 6,
    "providers": [ "AT&T", "COMCAST", "UNWIRED LTD", "ZAYO", "PAXIO", "ETHERIC
NETWORKS" ]
  },
  "nearnet": {

```

Get Bulk Address Callback Success Response Example

```

        "type": "Near Net",
        "count": 20,
        "providers": ["UNION PACIFIC RAILROAD", "WINDSTREAM", "LUMEN
TECHNOLOGIES", "WILINE NETWORKS", "VERIZON", "CISCO", "ZAYO", "TELIA
COMPANY", "SONIC", "GEOLINKS", "ETHERIC NETWORKS", "UNWIRED LTD", "T-
MOBILE", "ALPHABET", "TOWERSTREAM", "COMCAST", "AT&T", "CALLONE", "PAXIO", "EXTENET
SYSTEMS"]
    }
}, {
    "location": {
        "address": "23811 Aliso Creek Rd",
        "city": "Laguna Niguel",
        "state": "CA",
        "postal": "92677",
        "country": "USA",
        "latitude": "33.556231",
        "longitude": "-117.716885"
    },
    "data": {
        "telco": {
            "lec": "AT&T",
            "npa": "949",
            "nxx": "249",
            "ocn": "9740",
            "lata": "730",
            "type": "Telco",
            "state": "CA",
            "lata_nm": "LOS ANGELES CA",
            "ocn_name": "PACIFIC BELL",
            "swc_clli": "LGNGCA12DS0",
            "rate_center": "CAPITRNVLY",
            "building_clli": "",
            "central_office_address": {
                "zip": "92677",
                "city": "Laguna Niguel",
                "state": "California",
                "status": "success",
                "address": "24421 Aliso Creek Rd",
                "message": null
            }
        },
        "cableco": {
            "type": "Cableco",
            "phone": "866-961-0027",
            "website": "cox.com",
            "cable_provider": "COX COMMUNICATIONS"
        },
        "wisp": {
            "type": "Wireless Service Providers",
            "count": 3,
            "providers": ["TPX COMMUNICATIONS", "T-MOBILE", "GEOLINKS"]
        },
        "broadband": [{
            "tech": "Cable Modem - C DOCSIS 3.1",
            "max_ad_up": 35,
            "max_cir_up": 35,
            "max_ad_down": 1000,
            "access_media": "Coax/HFC",
            "max_cir_down": 1000,
            "provider_name": "COX COMMUNICATIONS"
        }, {
            "tech": "ADSL2, ADSL2+",
            "max_ad_up": 1.5,
            "max_cir_up": 0,
            "max_ad_down": 18,
            "access_media": "Copper",
            "max_cir_down": 0,

```

Get Bulk Address Callback Success Response Example

```

        "provider_name": "AT&T"
    }, {
        "tech": "Optical Carrier / Fiber to the end user",
        "max_ad_up": 0,
        "max_cir_up": null,
        "max_ad_down": 0,
        "access_media": "Fiber",
        "max_cir_down": null,
        "provider_name": "WHITESKY"
    }, {
        "tech": "Asymmetric xDSL",
        "max_ad_up": 0.51,
        "max_cir_up": 0,
        "max_ad_down": 6,
        "access_media": "Copper",
        "max_cir_down": 0,
        "provider_name": "AT&T"
    }],
    "onnet": {
        "type": "On Net",
        "count": 4,
        "providers": ["AT&T", "COX COMMUNICATIONS", "LUMEN TECHNOLOGIES", "VIASAT COMMUNICATIONS"]
    },
    "nearnet": {
        "type": "Near Net",
        "count": 12,
        "providers": ["EDISON CARRIER SOLUTIONS", "CROWN CASTLE", "SOUTHERN CALIFORNIA EDISON COMPANY", "GEOLINKS", "MHO", "T-MOBILE", "AT&T", "EDISON INTERNATIONAL", "COX COMMUNICATIONS", "VERIZON", "LUMEN TECHNOLOGIES", "STRUCTURAL ENGINEERS"]
    }
}, {
    "location": {
        "address": "2728 N 68th St",
        "city": "Scottsdale",
        "state": "AZ",
        "postal": "85257",
        "country": "USA",
        "latitude": "33.478885",
        "longitude": "-111.935394"
    },
    "data": {
        "telco": {
            "lec": "LUMEN TECHNOLOGIES",
            "npa": "480",
            "nxx": "312",
            "ocn": "9636",
            "lata": "666",
            "type": "Telco",
            "state": "AZ",
            "lata_nm": "PHOENIX ARIZONA",
            "ocn_name": "QWEST CORPORATION",
            "swc_clli": "SCDLAZMADS0",
            "rate_center": "PHOENIX",
            "building_clli": "",
            "central_office_address": {
                "zip": "85251",
                "city": "Scottsdale",
                "state": "Arizona",
                "status": "success",
                "address": "7145 E 1st St",
                "message": null
            }
        },
        "cableco": {
            "type": "Cableco",

```

Get Bulk Address Callback Success Response Example

```
    "phone": "866-961-0027",
    "website": "cox.com",
    "cable_provider": "COX COMMUNICATIONS"
  },
  "wisp": {
    "type": "Wireless Service Providers",
    "count": 4,
    "providers": [ "GUTIERREZ-PALMENBERG INC.", "PHOENIX INTERNET", "TRIAD
WIRELESS", "T-MOBILE" ]
  },
  "broadband": [{
    "tech": "Terrestrial Fixed Wireless",
    "max_ad_up": 50,
    "max_cir_up": null,
    "max_ad_down": 300,
    "access_media": "Wireless - Fixed",
    "max_cir_down": null,
    "provider_name": "TRIAD WIRELESS"
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0,
    "max_cir_up": 1.5,
    "max_ad_down": 0,
    "access_media": "Copper",
    "max_cir_down": 1.5,
    "provider_name": "VERIZON"
  }, {
    "tech": "Terrestrial Fixed Wireless",
    "max_ad_up": 1,
    "max_cir_up": 5,
    "max_ad_down": 15,
    "access_media": "Wireless - Fixed",
    "max_cir_down": 20,
    "provider_name": "GUTIERREZ-PALMENBERG INC."
  }, {
    "tech": "Cable Modem - C DOCSIS 3.1",
    "max_ad_up": 35,
    "max_cir_up": 35,
    "max_ad_down": 1000,
    "access_media": "Coax/HFC",
    "max_cir_down": 1000,
    "provider_name": "COX COMMUNICATIONS"
  }, {
    "tech": "VDSL",
    "max_ad_up": 10,
    "max_cir_up": 0,
    "max_ad_down": 100,
    "access_media": "Copper",
    "max_cir_down": 0,
    "provider_name": "LUMEN TECHNOLOGIES"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 940,
    "max_cir_up": 1000,
    "max_ad_down": 940,
    "access_media": "Fiber",
    "max_cir_down": 1000,
    "provider_name": "LUMEN TECHNOLOGIES"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 940,
    "max_cir_up": 0,
    "max_ad_down": 940,
    "access_media": "Fiber",
    "max_cir_down": 0,
    "provider_name": "LUMEN TECHNOLOGIES"
  }
  ],
  "onnet": {
```

Get Bulk Address Callback Success Response Example

```
    "type": "On Net",
    "count": 6,
    "providers": ["LUMEN TECHNOLOGIES", "COX COMMUNICATIONS", "T-
MOBILE", "GUTIERREZ-PALMENBERG INC.", "TRIAD WIRELESS", "ZAYO"]
  },
  "nearnert": {
    "type": "Near Net",
    "count": 9,
    "providers": ["SRP TELECOM", "ZAYO", "VERIZON", "T-MOBILE", "PHOENIX
INTERNET", "GUTIERREZ-PALMENBERG INC.", "TRIAD WIRELESS", "COX COMMUNICATIONS", "LUMEN
TECHNOLOGIES"]
  }
}, {
  "location": {
    "address": "3545 Mt Diablo Blvd",
    "city": "Lafayette",
    "state": "CA",
    "postal": "94549",
    "country": "USA",
    "latitude": "37.891697",
    "longitude": "-122.119982"
  },
  "data": {
    "telco": {
      "lec": "AT&T",
      "npa": "925",
      "nxx": "283",
      "ocn": "9740",
      "lata": "722",
      "type": "Telco",
      "state": "CA",
      "lata_nm": "SAN FRANCISCO CA",
      "ocn_name": "PACIFIC BELL",
      "swc_clli": "LFYTCAL1DS0",
      "rate_center": "LAFAYETTE",
      "building_clli": "",
      "central_office_address": {
        "zip": "94549",
        "city": "Lafayette",
        "state": "California",
        "status": "success",
        "address": "3610 Happy Valley Rd",
        "message": null
      }
    },
    "cableco": {
      "type": "Cableco",
      "phone": "800-266-2278",
      "website": "business.comcast.com",
      "cable_provider": "COMCAST"
    },
    "wisp": {
      "type": "Wireless Service Providers",
      "count": 3,
      "providers": ["T-MOBILE", "ETHERIC NETWORKS", "TPX COMMUNICATIONS"]
    },
    "broadband": [{
      "tech": "Terrestrial Fixed Wireless",
      "max_ad_up": 80,
      "max_cir_up": 100,
      "max_ad_down": 80,
      "access_media": "Wireless - Fixed",
      "max_cir_down": 100,
      "provider_name": "ETHERIC NETWORKS"
    }, {
      "tech": "Cable Modem - C DOCSIS 3.1",
      "max_ad_up": 35,
```

Get Bulk Address Callback Success Response Example

```

        "max_cir_up": 0,
        "max_ad_down": 1000,
        "access_media": "Coax/HFC",
        "max_cir_down": 0,
        "provider_name": "COMCAST"
    }],
    "onnet": {
        "type": "On Net",
        "count": 4,
        "providers": ["COMCAST", "AT&T", "WILINE NETWORKS", "ETHERIC NETWORKS"]
    },
    "nearnnet": {
        "type": "Near Net",
        "count": 10,
        "providers": ["LUMEN TECHNOLOGIES", "ZAYO", "WAVE
BAND", "GEOLINKS", "ETHERIC NETWORKS", "T-MOBILE", "COMCAST", "AT&T", "EXTENET
SYSTEMS", "UNWIRED LTD"]
    }
}, {
    "location": {
        "address": "6600 Topanga Canyon Blvd",
        "city": "Canoga Park",
        "state": "CA",
        "postal": "91303",
        "country": "USA",
        "latitude": "34.190029",
        "longitude": "-118.605659"
    },
    "data": {
        "telco": {
            "lec": "AT&T",
            "npa": "818",
            "nxx": "226",
            "ocn": "9740",
            "lata": "730",
            "type": "Telco",
            "state": "CA",
            "lata_nm": "LOS ANGELES CA",
            "ocn_name": "PACIFIC BELL",
            "swc_clli": "CNPKCA01DS0",
            "rate_center": "CANOGAPARK",
            "building_clli": "",
            "central_office_address": {
                "zip": "91303",
                "city": "Canoga Park",
                "state": "California",
                "status": "success",
                "address": "22012 Vanowen St",
                "message": null
            }
        },
        "cableco": {
            "type": "Cableco",
            "phone": "203-905-7801",
            "website": "spectrum.com",
            "cable_provider": "SPECTRUM"
        },
        "wisp": {
            "type": "Wireless Service Providers",
            "count": 5,
            "providers": ["ONE RING NETWORKS", "GEOLINKS", "GO CREATIVE
WIRELESS", "STARRY INC", "T-MOBILE"]
        },
        "broadband": [{
            "tech": "Terrestrial Fixed Wireless",
            "max_ad_up": 40,
            "max_cir_up": null,

```

Get Bulk Address Callback Success Response Example

```
    "max_ad_down": 100,
    "access_media": "Wireless - Fixed",
    "max_cir_down": null,
    "provider_name": "GO CREATIVE WIRELESS"
  }, {
    "tech": "Terrestrial Fixed Wireless",
    "max_ad_up": 200,
    "max_cir_up": null,
    "max_ad_down": 200,
    "access_media": "Wireless - Fixed",
    "max_cir_down": null,
    "provider_name": "STARRY INC"
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0,
    "max_cir_up": 20,
    "max_ad_down": 0,
    "access_media": "Copper",
    "max_cir_down": 20,
    "provider_name": "TPX COMMUNICATIONS"
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0.51,
    "max_cir_up": 1.5,
    "max_ad_down": 6,
    "access_media": "Copper",
    "max_cir_down": 1.5,
    "provider_name": "KINETIC"
  }, {
    "tech": "Cable Modem - C DOCSIS 3.1",
    "max_ad_up": 35,
    "max_cir_up": 0,
    "max_ad_down": 940,
    "access_media": "Coax/HFC",
    "max_cir_down": 0,
    "provider_name": "SPECTRUM"
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0.51,
    "max_cir_up": 1.5,
    "max_ad_down": 6,
    "access_media": "Copper",
    "max_cir_down": 1.5,
    "provider_name": "CYBERNET COMMUNICATIONS INC."
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0.51,
    "max_cir_up": 6,
    "max_ad_down": 6,
    "access_media": "Copper",
    "max_cir_down": 6,
    "provider_name": "FUSION CONNECT"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 0,
    "max_cir_up": 1,
    "max_ad_down": 0,
    "access_media": "Fiber",
    "max_cir_down": 6,
    "provider_name": "SPECTROTEL"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 0,
    "max_cir_up": 8,
    "max_ad_down": 0,
    "access_media": "Fiber",
    "max_cir_down": 100,
    "provider_name": "WINDSTREAM"
```

Get Bulk Address Callback Success Response Example

```
{
  {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 0,
    "max_cir_up": 100,
    "max_ad_down": 0,
    "access_media": "Fiber",
    "max_cir_down": 100,
    "provider_name": "TPX COMMUNICATIONS"
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0,
    "max_cir_up": 11,
    "max_ad_down": 0,
    "access_media": "Copper",
    "max_cir_down": 11,
    "provider_name": "VERIZON"
  }, {
    "tech": "Terrestrial Fixed Wireless",
    "max_ad_up": 1000,
    "max_cir_up": 1000,
    "max_ad_down": 1000,
    "access_media": "Wireless - Fixed",
    "max_cir_down": 1000,
    "provider_name": "GEOLINKS"
  }, {
    "tech": "ADSL2, ADSL2+",
    "max_ad_up": 0,
    "max_cir_up": null,
    "max_ad_down": 0,
    "access_media": "Copper",
    "max_cir_down": null,
    "provider_name": "KINETIC"
  }, {
    "tech": "Terrestrial Fixed Wireless",
    "max_ad_up": 100,
    "max_cir_up": null,
    "max_ad_down": 100,
    "access_media": "Wireless - Fixed",
    "max_cir_down": null,
    "provider_name": "ONE RING NETWORKS"
  }, {
    "tech": "Optical Carrier / Fiber to the end user",
    "max_ad_up": 0,
    "max_cir_up": 300,
    "max_ad_down": 0,
    "access_media": "Fiber",
    "max_cir_down": 300,
    "provider_name": "VERIZON"
  }, {
    "tech": "Other Copper Wireline",
    "max_ad_up": 0,
    "max_cir_up": 1.5,
    "max_ad_down": 0,
    "access_media": "Copper",
    "max_cir_down": 1.5,
    "provider_name": "NETFORTRIS INC."
  }, {
    "tech": "Asymmetric xDSL",
    "max_ad_up": 0.51,
    "max_cir_up": 1.5,
    "max_ad_down": 6,
    "access_media": "Copper",
    "max_cir_down": 1.5,
    "provider_name": "KINETIC"
  }, {
    "tech": null,
    "max_ad_up": 0,
    "max_cir_up": 0,
  }
}
```

Get Bulk Address Callback Success Response Example

```

        "max_ad_down": 0,
        "access_media": "Fiber",
        "max_cir_down": 0,
        "provider_name": "EARTHLINK LLC"
    }],
    "onnet": {
        "type": "On Net",
        "count": 11,
        "providers": ["AT&T", "SPECTRUM", "HARGRAY", "FRONTIER COMMUNICATIONS CORPORATION", "GEOLINKS", "GO CREATIVE WIRELESS", "STARRY INC", "SOUTHERN CALIFORNIA EDISON COMPANY", "T-MOBILE", "COMCAST", "CROWN CASTLE"]
    },
    "nearnet": {
        "type": "Near Net",
        "count": 17,
        "providers": ["EDISON CARRIER SOLUTIONS", "VERIZON", "EDISON INTERNATIONAL", "ZAYO", "SOUTHERN CALIFORNIA EDISON COMPANY", "STRUCTURAL ENGINEERS", "GEOLINKS", "MHO", "ONE RING NETWORKS", "STARRY INC", "T-MOBILE", "GO CREATIVE WIRELESS", "FRONTIER COMMUNICATIONS CORPORATION", "AT&T", "SPECTRUM", "CROWN CASTLE", "CALLONE"]
    }
}],
    "totalRecords": 6,
    "invalidRecords": 0,
    "duplicateRecords": 0,
    "failedRecords": 0,
    "inProgressRecord": 0,
    "completedRecord": 6
}

```

Get Bulk Address Callback response attributes and data types

Response Attribute	Attribute Description	Data Type
requestId	A unique identifier for the request	string
status	Indicates that status of API completion.	string
body	object	object wrapper
location	object	object wrapper
address	The street address of the location.	string
city	The city in which the location resides.	string
state	The state in which the location resides.	string
postal	The postal code of the location	string
country	The country in which the location resides.	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

Response Attribute	Attribute Description	Data Type
data	object	object wrapper
telco	object	object wrapper
lec	Local Exchange Carrier	string
npa	<p>Numbering Plan Areas, each identified by a three-digit NPA code, commonly called an area code.</p> <p>NPAs represent an aggregation of exchange areas for which the given code is applicable. These Code/Exchange area relationships are assigned by the North American Numbering Plan Administration (NANPA) and published in the Local Exchange Routing Guide (LERG) database published monthly by 'iconectiv'.</p>	string
nxx	<p>Area Code/Prefix (NPA/NXX) Assignment.</p> <p>Valid Prefixes per NPA are published according to exchange switch specifications published in the LERG. A subset of NPA/NXX combinations are serviced by the incumbent Local Exchange Carriers (ILECS) operating Serving Wire Centers.</p>	string
ocn	Operating company number; a 4-character ID used to identify a company that provides local exchange telephone services.	string
lata	3-digit code that represents the boundary of the Local Access and Transport Area.	string
type	Identifies the type of carrier, such as Telco, for example.	string
state	The name of the state	string
lata_nm	<p>LATA provider name</p> <p>Local Access and Transport Area defines geographical boundaries of local telephone service networks.</p>	string
ocn_name	The name of the provider associated with the OCN number.	string
swc_clli	Serving Wire Center clli code	string
rate_center	In the North American Numbering Plan , a rate center (rate centre in Canada) is a geographically-specified area used for determining mileage and/or usage dependent rates in the public switched telephone network.	string

Response Attribute	Attribute Description	Data Type
building_clli (blank/null unless specifically provided by the customer)	Common Language Information Services Identifier (CLLI), used to identify the building location. Network Site codes are typically used to identify building locations, specific to an address. First four characters represent a geographical code, the fifth and sixth characters represent a geopolitical code. The remaining two characters are uniquely assigned by iconectiv® to identify the building location.	string
central_office_address	object wrapper	object
zip	The zip code for the central office location.	string
city	The city in which the location resides.	string
state	The state in which the location resides.	string
status	Success or fail	string
address	The street address of the central office location.	string
message	Any additional information provided by the customer.	string
cableco	Object wrapper for cableco data	object
type	The type of service provider, such as Cableco or Wireless Service Providers, etc.	string
phone	The phone number of the provider.	string
website	The website for the providers	string
cable_provider	The name of the cable provider	string
wisp	Object wrapper for wisp data	object
type	The type of service provider, such as Cableco or Wireless Service Providers, etc.	string
count	The number of providers found	int
providers	Lists the provider names found	string
broadband	object	object wrapper
tech	Indicates the technology, such as "Optical Carrier / Fiber to the end user",	string
max_ad_up	Maximum advertised upstream speed/ bandwidth offered by the provider in the block for Consumer service	int
max_cir_up	Maximum contractual upstream bandwidth offered by the provider in the block for Business service (filer directed to report 0 if the contracted service is sold on a	int

Response Attribute	Attribute Description	Data Type
	“best efforts” basis without a guaranteed data-throughput rate)	
max_ad_down	Maximum advertised downstream speed/ bandwidth offered by the provider in the block for Consumer service	int
access_media	<p>The medium used for connectivity to the building or specified location.</p> <ul style="list-style-type: none"> • Coax/HFC • Copper • Fiber • Wireless – Fixed • Wireless – Mobile • Wireless – Satellite • Other 	string
max_cir_down	Maximum contractual downstream bandwidth offered by the provider in the block for Business service (filer directed to report 0 if the contracted service is sold on a “best efforts” basis without a guaranteed data-throughput rate)	int
provider_name	The name of the provider	string
tech	Indicates the technology, such as "Optical Carrier / Fiber to the end user",	string
onnet	Object wrapper for onnet data	object
type	The type of service provider, such as Cableco or Wireless Service Providers, etc.	string
count	The number of providers found	int
providers	Lists the provider names found	string
nearnet	Object wrapper for nearnet data	object
type	The type of service provider, such as Cableco or Wireless Service Providers, etc.	string
count	The number of providers found	int
providers	Lists the provider names found	string
totalRecords	The total number of records found	int
invalidRecords	The number of invalid records found	int
duplicateRecords	The number of duplicate records found.	int
failedRecords	The number of failed records.	int
inProgressRecord	The number of records still in progress.	int
completedRecord	The number of completed records.	int

Get Bulk Address Callback Error Response Example

```
{
  "status": "fail",
  "message": "Request Id already exists"
}
```

GET cableco

Issue this call to retrieve the cable provider data for a specified address,

Requirements and Special Considerations

This API call requires the address and subscription key. The validation parameter is an optional parameter, but it enables you to utilize address validation.<https://api.connected2fiber.com/address-autocomplete/{address}>

Request URL

<https://api.connected2fiber.com/network-intelligence/v6/cableco> [?validation][&address][&lat][&lon]

Request parameters	Characteristic	Description/Requirements
address	string	Address
validation	Boolean	Validates and formats the input address before processing. Defaults to “true”
lat (optional)	string	Latitude to use instead of address; however, address is still required.
lon (optional)	string	Longitude to use instead of address; however, address is still required.

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.

Get cableco Success Response Example

```
{
  "status": "success",
  "body": {
    "cableProvider": "COMCAST",
    "phone": "800-391-3000",
    "type": "Cableco",
    "website": "xfinity.com",
    "location": {
      "street": "800 Boylston St",
      "city": "Boston",
      "state": "MA",
      "country": "USA",
      "postal": "02199",
      "longitude": -71.08225,
      "latitude": 42.34868
    }
  }
}
```

Get cableco attributes and data types

Response Attribute	Attribute Description	Data Type
status	<ul style="list-style-type: none">• Success• Failed	string
cableProvider	The name of the cable provider.	string
phone	The phone number of the cable provider.	string
type	The type of cable provider.	string
website	The website of the cable provider.	string
location	object wrapper	object
street	The street address for the location.	string
city	The city in which the location resides.	string
state	The state in which the location resides.	string
postal	The zip code in which the location resides.	int
country	The country in which the location resides.	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

Get cableco Error Response Example
<pre>{ "status": "fail", "error": "Unable to find address." }</pre>

GET Conformed Providers

Issue this call to get the Connectbase conformed provider name for a specific carrier.

Requirements and Special Considerations
This API call requires the address and subscription key. Special characters such as the ampersand (IE AT&T) should be omitted or URL-encoded when being passed. https://api.connected2fiber.com/address-autocomplete/{address}

Request URL
https://api.connected2fiber.com/network-intelligence/v6/providers[?name]

Request parameters	Characteristic	Description/Requirements
name	string	Name of desired carrier.

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.

Get Conformed Providers Success Response Example

```
{
  "status": "found",
  "input_name": "ATT",
  "confirmed_name": "AT&T"
}
```

Get Conformed Providers response attributes and data types

Response Attribute	Attribute Description	103BData Type
status	<ul style="list-style-type: none"> Success Failed 	string
input_name	The user entered provider name to be conformed by Connectbase.	string
confirmed_name	The conformed provider name returned in the response.	string

Get Conformed Providers Error Response Example

```
{
  "statusCode": 401,
  "message": "Access denied due to invalid subscription key. Make sure to provide a valid key for an active subscription."
}
```

GET Building Providers

Issue this call to return a list of building providers from Network Finder data and client building data. This API returns both domestic and international locations, where applicable.

Requirements and Special Considerations

This call requires that you input either the address or lat/longs, companyid and subscription key. Other request parameters are optional such as validation and siteDistance, but they enable you to refine or limit your search criteria.

Note: The response will include the top ten responses based on the supplier, access medium, connection status, and network connection status.

Request URL

<https://api.connected2fiber.com/network-intelligence/v6/> [?companyid][&validation][&siteDistance][&address][&lat][&lon]

Request parameters	Characteristic	Description/Requirements
address	string	Address

Request parameters	Characteristic	Description/Requirements
validation (optional)	Boolean	Specifies whether address validation is utilized by the API. True or False.
companyid	number	Company id related to the provider/building results needed to filter results.
siteDistance (optional)	number	Site distance from the location/address. You can enter a number between 0 – 5000 (ft). If no number is entered, the system will return results based on the default value of 2000 ft.
lat (optional)	number	Latitude. Range is -90 to 90.
lon (optional)	number	Longitude. Range is -180 to 180.

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.

Success Response Example 1 – Pull NI by Addresses



The following sample responses show only a subset of returned providers. These examples are intended to show the response attributes that will be returned for each provider in the response. The actual response will include the top ten responses based on the supplier, access medium, connection status, and network connection status.

```
{
  "status": "success",
  "body": {
    "location": {
      "street": "53 Sumner St",
      "city": "Milford",
      "state": "MA",
      "country": "USA",
      "postal": "01757",
      "latitude": "42.153816",
      "longitude": "-71.519359",
      "streetPostDirection": "",
      "streetPreDirection": ""
    },
    "inputAddress": "53 Sumner Street, Milford, MA, 01757",
    "data": [
      {
        "closestSite": "53 Sumner St, Milford, MA, 01757",
        "siteDistance": 0,
        "latitude": "42.153816",
        "longitude": "-71.519359",
        "connectionStatus": "OnNet",
        "provider": "COMCAST",
        "providerType": "Market",
        "source": "C2F Network Finder",
        "accessMedium": "Fiber",
        "networkConnectionStatus": "Connected"
      },
      {
        "closestSite": "53 Sumner St, Milford, MA, 01757",
        "siteDistance": 0,
        "latitude": "42.153816",
```

Success Response Example 1 – Pull NI by Addresses

```
{
  "longitude": "-71.519359",
  "connectionStatus": "OnNet",
  "provider": "COMCAST",
  "providerType": "Market",
  "source": "C2F Network Finder",
  "accessMedium": "Coax/HFC",
  "networkConnectionStatus": "Connected"
}]
}
```

Get Building Providers Error Response Example 1– Pull NI by Addresses

```
{
  "statusCode": 400,
  "message": "Please enter the address in below order:  
Street name, City, State, Country"
}
```

Get Building Providers Success Response Example 2 – Pull NI by Latlong

```
{
  "status": "success",
  "message": "",
  "body": {
    "location": {
      "street": "53 Sumner St",
      "city": "Milford",
      "state": "MA",
      "country": "US",
      "postal": "01757",
      "latitude": "42.15381",
      "longitude": "-71.519359",
      "streetPostDirection": "",
      "streetPreDirection": ""
    },
    "data": [{
      "closestSite": "53 Sumner St, Milford, MA, 01757",
      "siteDistance": 2,
      "latitude": "42.153816",
      "longitude": "-71.519359",
      "connectionStatus": "OnNet",
      "provider": "VERIZON",
      "providerType": "Market",
      "source": "CB Network Finder",
      "accessMedium": "Fiber",
      "networkConnectionStatus": "Connected"
    }, {
      "closestSite": "53 Sumner St, Milford, MA, 01757",
      "siteDistance": 2,
      "latitude": "42.153816",
      "longitude": "-71.519359",
      "connectionStatus": "Near Net",
      "provider": "GTT",
      "providerType": "Market",
      "source": "CB Network Finder",
      "accessMedium": "Fiber",
      "networkConnectionStatus": "Not Connected"
    }
  ]
}
```

Get Building Providers Error Response Example 2 – Pull NI by Latlongs

```
{
  "statusCode": 400,
  "message": "Please enter the address in below order:
Street name, City, State, Country"
}
```

Get Building Providers response attributes and data types

Response Attribute	Attribute Description	Data Type
status	<ul style="list-style-type: none">• Success• Failed	string
message	Where applicable, displays the error message if status = Failed.	string
body	object wrapper	object
location	object wrapper	object
street	The street address for the location.	string
city	The city in which the location resides.	string
state	The state in which the location resides.	string
postal	The zip code in which the location resides.	int
country	The country in which the location resides.	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
StreetPostDirection	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
streetPreDirection	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
inputAddress	The address entered to retrieve building providers.	string
data	object wrapper	object
closestSite	Identifies the closest site to the provider.	string
siteDistance	Identifies the distance to the provider, in feet.	int

Response Attribute	Attribute Description	Data Type
connectionStatus	<p>A metric used to identify the connectivity status of fiber-connected buildings.</p> <p>Range of valid values:</p> <p>Near Net</p> <p>OffNet</p> <p>On Net–Limited Access</p> <p>OnNet</p> <p>Prospect</p>	string
provider	<p>The name of the provider.</p> <p>The source of the provider name is sourced as follows:</p> <p>If locations were published from Network Radar or are otherwise known as supplier buildings:</p> <ul style="list-style-type: none"> • If Supplier Name can be standardized properly from the Connectbase reference table, returns the Supplier Name as the provider; • Else, returns Provider Name <p>If locations are NOT supplier buildings, returns the Company Name as provider.</p>	string
providerType	<p>If locations were published from Network Radar, or otherwise known as supplier building, checks if the supplier is in the Competitor Supplier List:</p> <ul style="list-style-type: none"> • If competitor flag is true, returns “Competitor” • If competitor flag is false, returns “Provider”. <p>If locations were NOT published from Network Radar, or known as supplier buildings, checks for the company of the user:</p> <ul style="list-style-type: none"> • If user has access to that location in the TCW, return “Our Access” • Else, “Market” <p>Range of valid values:</p> <ul style="list-style-type: none"> • Our Access • Market • Competitor 	string


Response Attribute	Attribute Description	Data Type
	<ul style="list-style-type: none"> Provider 	
source	<p>If locations were published from Network Radar, or otherwise known as a supplier building, return “Network Radar”;</p> <p>If it is not from Supplier Building, check for the following:</p> <ul style="list-style-type: none"> if it is from My Buildings if it is known as service providers’ footprint or inventory <p>Returns “My Building”;</p> <ul style="list-style-type: none"> If it is from Connectbase serviceability warehouse <p>Returns “CB Serviceability”;</p> <p>Else would be “CB Network Finder”.</p> <p>Range of valid values:</p> <ul style="list-style-type: none"> My Building CB Network Finder CB Serviceability Network Radar 	string
accessMedium	<p>The medium used for connectivity to the building or specified location.</p> <p>Range of valid values:</p> <ul style="list-style-type: none"> Coax/HFC Copper Fiber Wireless – Fixed Wireless – Mobile Wireless – Satellite Other 	string
networkConnectionStatus	<p>A metric used to identify the connectivity status of fiber-connected buildings.</p> <p>Range of valid values:</p> <ul style="list-style-type: none"> Near Net OffNet On Net–Limited Access OnNet Prospect 	string

GET Building Providers by Address

Issue this call to return a list of building providers from network finder data and client building data, which includes support for international locations.

Requirements and Special Considerations

This call requires the address and subscription key. Other request parameters are optional, but they enable you to refine or limit your search criteria.



The response will include the top ten responses based on the supplier, access medium, connection status, and network connection status.


Request URL

https://api.connected2fiber.com/network-intelligence/v5/{address}?
companyid={companyid}[&validation]

Request parameters	Characteristic	Description/Requirements
address	string	address
validation (optional)	Boolean	Specifies whether address validation is utilized by the API
companyid	number	Company id related to the provider/ building results needed to filter results.
siteDistance (optional)	number	Site distance from the location/address. You can enter a number between 0 – 5000 (ft). If no number is entered, the system will return results based on the default value of 2000 ft.

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.

Get Building Providers by Address Success Response Example



The following sample response shows only a subset of returned providers. The example is intended to show the response attributes that will be returned for each provider in the response. The actual response will include the top ten responses based on the supplier, access medium, connection status, and network connection status.

```
{
  "status": "success",
  "body": {
    "location": {
      "street": "53 Sumner St",
      "city": "Milford",
      "state": "MA",
```

Get Building Providers by Address Success Response Example

```
"country": "USA",
"postal": "01757",
"latitude": "42.153816",
"longitude": "-71.519359",
"streetPostDirection": "",
"streetPreDirection": ""
},
"inputAddress": "53 Sumner Street, Milford, MA, 01757",
"data": [{
  "closestSite": "53 Sumner St, Milford, MA, 01757",
  "siteDistance": 0,
  "latitude": "42.153816",
  "longitude": "-71.519359",
  "connectionStatus": "OnNet",
  "provider": "COMCAST",
  "providerType": "Market",
  "source": "C2F Network Finder",
  "accessMedium": "Fiber",
  "networkConnectionStatus": "Connected"
}, {
  "closestSite": "53 Sumner St, Milford, MA, 01757",
  "siteDistance": 0,
  "latitude": "42.153816",
  "longitude": "-71.519359",
  "connectionStatus": "OnNet",
  "provider": "COMCAST",
  "providerType": "Market",
  "source": "C2F Network Finder",
  "accessMedium": "Coax/HFC",
  "networkConnectionStatus": "Connected"
}]
}
```

Get Building Providers by Address response attributes and data types

Response Attribute	Attribute Description	Data Type
status	<ul style="list-style-type: none">SuccessFailed	string
location	object wrapper	object
street	The street address for the location.	string
city	The city in which the location resides.	string
state	The state in which the location resides.	string
postal	The zip code in which the location resides.	int
country	The country in which the location resides.	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

Response Attribute	Attribute Description	Data Type
StreetPostDirection	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
streetPreDirection	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
inputAddress	The address entered to retrieve building providers.	string
data	object wrapper	object
closestSite	Identifies the closest site to the provider.	string
siteDistance	Identifies the distance to the provider, in feet.	int
connectionStatus	<p>A metric used to identify the connectivity status of fiber-connected buildings.</p> <p>Range of valid values:</p> <ul style="list-style-type: none"> • Near Net • OffNet • On Net–Limited Access • OnNet • Prospect 	string
provider	<p>The name of the provider.</p> <p>The source of the provider name is sourced as follows:</p> <p>If locations were published from Network Radar or are otherwise known as supplier buildings:</p> <ul style="list-style-type: none"> • If Supplier Name can be standardized properly from the ConnectBase reference table, returns the Supplier Name as the provider; • Else, returns Provider Name <p>If locations are NOT supplier buildings, returns the Company Name as provider.</p>	string
providerType	<p>If locations were published from Network Radar, or otherwise known as supplier building, checks if the supplier is in the Competitor Supplier List:</p> <ul style="list-style-type: none"> • If competitor flag is true, returns “Competitor” 	string

Response Attribute	Attribute Description	Data Type
	<ul style="list-style-type: none"> If competitor flag is false, returns "Provider". <p>If locations were NOT published from Network Radar, or known as supplier buildings, checks for the company of the user:</p> <ul style="list-style-type: none"> If user has access to that location in the TCW, return "Our Access" Else, "Market" <p>Range of valid values:</p> <ul style="list-style-type: none"> Our Access Market Competitor Provider 	
source	<p>If locations were published from Network Radar, or otherwise known as a supplier building, return "Network Radar";</p> <p>If it is not from Supplier Building, check for the following:</p> <ul style="list-style-type: none"> if it is from My Buildings if it is known as service providers' footprint or inventory <p>Returns "My Building";</p> <ul style="list-style-type: none"> If it is from Connectbase serviceability warehouse <p>Returns "CB Serviceability";</p> <p>Else would be "CB Network Finder".</p> <p>Range of valid values:</p> <ul style="list-style-type: none"> My Building CB Network Finder CB Serviceability Network Radar 	string
accessMedium	<p>The medium used for connectivity to the building or specified location.</p> <p>Range of valid values:</p> <ul style="list-style-type: none"> Coax/HFC Copper Fiber Wireless – Fixed 	string

Response Attribute	Attribute Description	Data Type
	<ul style="list-style-type: none"> Wireless – Mobile Wireless – Satellite Other 	
networkConnectionStatus	<p>A metric used to identify the connectivity status of fiber-connected buildings.</p> <p>Range of valid values:</p> <ul style="list-style-type: none"> Near Net OffNet On Net–Limited Access OnNet Prospect 	string

Get Building Providers by Address Error Response Example
<pre>{ "statusCode": 400, "message": "Please enter the address in below order: Street name, City, State, Country" }</pre>

GET nearnet

Issue this call to retrieve the NearNet providers for a specified address.

Requirements and Special Considerations
This call requires the address and subscription key. Other request parameters are optional, but they enable you to refine or limit your search criteria. https://api.connected2fiber.com/address-autocomplete/{address}

Request URL
https://api.connected2fiber.com/v6/nearnet[?radius][&lat][&lon] [&address] [&companyId]

Request parameters	Characteristic	Description/Requirements
address	string	address
radius	string	Distance in feet from given location that should be searched for matches.
lat (optional)	string	Latitude to use instead of address; however, address is still required.
lon (optional)	string	Longitude to use instead of address; however, address is still required.
companyId (optional)	number	Company id related to the provider/building results needed to filter results.

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.

Get nearnet Success Response Example
<pre> { "status": "success", "body": { "type": "Near Net", "providers": ["Verizon"], "count": 1, "location": { "street": "Sumner", "city": "Milford", "state": "MA", "country": "USA", "postal": "01757", "longitude": -71.51926, "latitude": 42.15394 } } } </pre>

Get nearnet response attributes and data types

Response Attribute	Attribute Description	Data Type
status	<ul style="list-style-type: none"> Success Failed 	string
type	Network connection status, such as OnNet or Near Net.	string
providers	The Near Net list of providers.	array
count	The number of Near Net providers found.	int
location	object wrapper	object
street	The street address for the location.	string
city	The city in which the location resides.	string
state	The state in which the location resides.	string
postal	The zip code in which the location resides.	int
country	The country in which the location resides.	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

Get nearnet Error Response Example

```
{
  "status": "fail",
  "error": "Unable to find address."
}
```

GET onnet

Issue this call to retrieve OnNet provider data for a specified address.

Requirements and Special Considerations

This API call requires the address and subscription key. Other request parameters are optional, but they enable you to refine or limit your search criteria.<https://api.connected2fiber.com/address-autocomplete/{address}>

Request URL

[https://api.connected2fiber.com/network-intelligence/v6/onnet\[?address\] \[&lat\]\[&lon\] \[&companyId\]](https://api.connected2fiber.com/network-intelligence/v6/onnet[?address] [&lat][&lon] [&companyId])

Request parameters	Characteristic	Description/Requirements
address	string	Address
lat (optional)	string	Latitude to use instead of address; however, address is still required.
lon (optional)	string	Longitude to use instead of address; however, address is still required.
companyId (optional)	number	Company id related to the provider/ building results needed to filter results.

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.

Get onnet Success Response Example

```
{
  "status": "success",
  "body": {
    "type": "On Net",
    "providers": [ "Comcast", "Verizon" ],
    "count": 2,
    "location": {
      "street": "Sumner",
      "city": "Milford",
      "state": "MA",
      "country": "USA",
      "postal": "01757",
      "longitude": -71.51926,
      "latitude": 42.15394
    }
  }
}
```

Get onnet response attributes and data types

Response Attribute	Attribute Description	Data Type
status	<ul style="list-style-type: none">• Success• Failed	string
type	The network connection status, such as On Net, for example.	string
providers	The nearnet list of providers.	array
count	The number of nearnet providers found.	int
location	object wrapper	object
street	The street address for the location.	string
city	The city in which the location resides.	string
state	The state in which the location resides.	string
postal	The zip code in which the location resides.	int
country	The country in which the location resides.	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

Get onnet Error Response Example


```
{
  "status": "fail",
  "error": "Unable to find address."
}
```

GET telco

Issue this call to retrieve telco data for a specified address.

Requirements and Special Considerations

This API call requires the address and subscription key. Other request parameters are optional, but they enable you to refine or limit your search criteria.<https://api.connected2fiber.com/address-autocomplete/{address}>

 The “Get Telco” API endpoint captures the nearest telco data when a given lat/long falls within, or close to a waterway, for example. In this case, Connectbase will use the nearest telco that is less than 200 meters to the input address to provide telco data.

Request URL

https://api.connected2fiber.com/network-intelligence/v6/telco [?address][&lat][&lon]

Request parameters	Characteristic	Description/Requirements
address	string	Address
lat (optional)	string	Latitude to use instead of address; however, address is still required.
lon (optional)	string	Longitude to use instead of address; however, address is still required.

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.

Get telco Success Response Example

```
{
  "status": "success",
  "body": {
    "type": "Telco",
    "building_clli": "",
    "swc_clli": "WSBOMASU1ED",
    "lata": "128",
    "lata_nm": "EASTERN MASS",
    "ocn": "9102",
    "ocn_name": "VERIZON NEW ENGLAND INC.",
    "state": "MA",
    "npa": "508",
    "nxx": "366",
    "rate_center": "WESTBORO",
    "lec": "VERIZON",
    "central_office_address": {
      "status": "success",
      "message": null,
      "address": "25 Summer St",
      "city": "Westborough",
      "state": "Massachusetts",
      "zip": "01581"
    },
    "location": {
      "street": "134 Flanders Rd",
      "city": "Westborough",
      "state": "MA",
      "country": "USA",
      "postal": "01581",
      "latitude": 42.276488,
      "longitude": -71.570729
    }
  }
}
```

Get telco response attributes and data types

Response Attribute	Attribute Description	Data Type
type	The type of service provider, such as Telco, for example.	string

Response Attribute	Attribute Description	Data Type
building_clli (blank/null unless specifically provided by the customer)	<p>Common Language Information Services Identifier (CLLI), used to identify the building location. Network Site codes are typically used to identify building locations, specific to an address.</p> <p>First four characters represent a geographical code, the fifth and sixth characters represent a geopolitical code. The remaining two characters are uniquely assigned by iconectiv® to identify the building location.</p>	string
swc_clli	Serving Wire Center Clli code	string
lata	3-digit code that represents the boundary of the Local Access and Transport Area.	string
lata_nm	<p>LATA provider name</p> <p>Local Access and Transport Area defines geographical boundaries of local telephone service networks.</p>	string
ocn	Operating company number; a 4-character ID used to identify a company that provides local exchange telephone services.	string
ocn_name	The company name associated with the OCN,	string
state	The state in which the telco provider resides.	string
npa	<p>Numbering Plan Areas, each identified by a three-digit NPA code, commonly called an area code.</p> <p>NPA's represent an aggregation of exchange areas for which the given code is applicable. These Code/Exchange area relationships are assigned by the North American Numbering Plan Administration (NANPA) and published in the Local Exchange Routing Guide (LERG) database published monthly by 'iconectiv'.</p>	string
nxx	<p>Area Code/Prefix (NPA/NXX) Assignment.</p> <p>Valid Prefixes per NPA are published according to exchange switch specifications published in the LERG. A subset of NPA/NXX combinations are serviced by the incumbent Local Exchange Carriers (ILECS) operating Serving Wire Centers.</p>	string
lec	The Local Exchange Carrier	string
location	object wrapper	object

Response Attribute	Attribute Description	Data Type
street	The street address for the telco provider.	string
city	The city in which the telco provider resides.	string
state	The state in which the telco provider resides.	string
postal	The zip code in which the telco provider resides.	int
country	The country in which the telco provider resides.	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

Get telco Error Response Example
<pre>{ "status": "fail", "error": "Unable to find address." }</pre>

GET wisp

Issue this call to retrieve wireless providers for a specified address.

Requirements and Special Considerations
This API call requires the address and subscription key. Other request parameters are optional, but they enable you to refine or limit your search criteria. https://api.connected2fiber.com/address-autocomplete/{address}

Request URL
https://api.connected2fiber.com/network-intelligence/v6/wisp [?validation][&address][&lat][&lon]

Request parameters	Characteristic	Description/Requirements
address	string	Address
lat (optional)	string	Latitude to use instead of address; however, address is still required.
lon (optional)	string	Longitude to use instead of address; however, address is still required.

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.

Get wisp Success Response Example

```
{
  "status": "success",
  "body": {
    "count": 9,
    "providers": [ "NETBLAZR", "NEXTLINK WIRELESS", "TOWERSTREAM", "NETBLAZR", "NEXTLINK WIRELESS", "TOWERSTREAM", "NETBLAZR", "NEXTLINK WIRELESS", "TOWERSTREAM" ],
    "type": "Wireless Service Providers",
    "location": {
      "street": "Boylston",
      "city": "Boston",
      "state": "MA",
      "country": "USA",
      "postal": "02199",
      "longitude": -71.08225,
      "latitude": 42.34868
    }
  }
}
```

GET Wisp response attributes and data types

Response Attribute	Attribute Description	Data Type
status	<ul style="list-style-type: none"> Success Failed 	string
providers	The wisp list of providers.	array
count	The number of wisp providers found.	int
location	object wrapper	object
street	The street address for the location.	string
city	The city in which the location resides.	string
state	The state in which the location resides.	string
postal	The zip code in which the location resides.	int
country	The country in which the location resides.	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

Get wisp Error Response Example

```
{  
  "status": "failed",  
  "error": "No data was found for this address."  
}
```

Network Intelligence API Error Response Status Codes

The following table lists the error response status codes for Network Intelligence V6.

Error code	Description	Response
200	Your request was processed successfully	“Success”
		“No data found at this location”
400	Fail	“Latitude must be less than or equal to 90”
		“Longitude must be less than or equal to 180”
401	Not authorized	“Access restricted to authenticated clients only”
403	Forbidden	“Access denied due to invalid input. Please ensure that the subscription key and companyId are accurate.”
404	Requested resource not found	“Address not found”
500	Internal server error	“Server encountered something unexpected”

Revision History

Revision	Date	Description
00	July 27, 2020	This is the initial release for supported APIs for Network Intelligence, V4.
01	May 17, 2021	<p>Added Network Intelligence, V5. There are no user input changes different from the V4 implementation. Changes to V5 were implemented on the back end to improve processing and responses. For example, country name now displays following the ISO-3 standard. In V4 Canada returned as CA. Now in V5, Canada returns as CAN. Additionally, the GET all response now includes broadband.</p> <p>Added new sample success response examples for GET all and GET Telco.</p>
02	August 11, 2021	<p>Corrected error response examples.</p> <p><i>Changed from this:</i></p> <p>“error”: “Address could not be recognized. Please enter a valid address.”</p> <p><i>To this:</i></p> <p>“error”: “Unable to find address.”</p>
03	September 06, 2021	Added POST Bulk Address and GET Bulk Address Callback (NI, V6).
04	November 30, 2021	POST Bulk Address – Added a notation that the request_id in the Request body must be unique per request.
05	February 02, 2022	<p>Rebranded the document template with a new title page, company name, logo, and updated fonts.</p> <p>Added new input parameters to the Get Buildings Providers API to obtain closest site information (siteDistance).</p>
06	March 01, 2022	<p>The following APIs have been deprecated from the developer portal:</p> <ul style="list-style-type: none"> • Network Intelligence API • Network Intelligence API, v2 • Network Intelligence API, v4 • Network Intelligence API, v5 • Network Finder, v2 • Network Finder, v3
07	April 13, 2022	Added new sample responses for GET all, POST Bulk Address, and GET Telco to correct bldg_clli response to null response unless specifically

Revision	Date	Description
		provided by customer, and increased swc_cli response to 11 characters.
08	Oct 10, 2022	<ul style="list-style-type: none"> Renamed Get Building Provider to Get Building Provider by Address, which enables users to pull Network Intelligence by addresses. Added a new endpoint Get Building Provider, which enables users to pull Network Intelligence by address or lat/longs as input. Incorporated response attributes and data types for all APIs.
09	October 27, 2022	<ul style="list-style-type: none"> Added Provider, providerType, and Source fields to the Get Building Providers APIs.
10	December 21, 2022	<ul style="list-style-type: none"> Improved error messaging to provide clearer information about the cause of the error condition. See Error Response Status Codes and Descriptions for details. Network provider responses now display the top ten responses, instead of only the top two, based on supplier, access medium, connection status, and network connection status. See GET Building Providers and GET Building Providers by Address
12	April 27, 2023	<ul style="list-style-type: none"> Revised/updated the POST Bulk Address and GET Bulk Address Callback Success Response Examples and Response Attributes and Data Types.
13	June 22, 2023	Network Intelligence data persists in cache for up to 2 hours. If you update your instance data, and then run a Network Intelligence API call, the revised data will not display in the response until after the cache is cleared.
14	September 25, 2023	New publication of the document with minor editorial updates.
15	December 17, 2024	Added API rate limit in "About Network Intelligence V6 API" section.