



International Processor API Reference Guide

Revision 03

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About This Guide

Introduction

This guide describes the Connectbase Application Program Interface (API) International Address Processor. This API is used for address validation and formatting of international addresses.

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*
- *Locations Intelligence API Reference Guide*
- *Network Intelligence API Reference Guide*
- *Network Path API Reference Guide*
- *NNI Management API Reference Guide*
- *Rate Card Management API Reference Guide*
- *Route Management API Reference Guide*
- *Tenant API Reference Guide*

Acronym List

This document uses the following acronyms.

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

Customer Support

If you need assistance using the Connectbase APIs, please contact Customer Service by email at support@connectbase.com or by phone at (508) 202-1807 between the hours of 8:00 a.m. and 5:00 p.m. EST.

1.0 Overview

International Address Processor

The International Address Processor supports up to 254 countries, as defined in Section 3.0. The verification and geocoding levels differ by the available precision of data for each country.

Geocoding may be rendered as Delivery Point, Premise, Thoroughfare, Locality, or None. For example, addresses in Haiti can only be verified to the locality or city because that is the best data available for that country. The level of geocoding accuracy is returned in the response.

Following is a brief description of the geocoding rendered for international addresses, listed in the order of best results:

- **Delivery Point** – Geocoding is accurate to the actual point of delivery. For example, a mailbox, sub-building, or unit. For example, 30 St Mary Axe Unit 101, London EC3A 8BF UK.
- **Premise** – Geocoding is accurate to the building level. For example, 30 St Mary Axe. London EC3A 8BF UK. May also indicate any named location, usually a building or collection of buildings with a common name.
- **Thoroughfare** – Geocoding is accurate to the street level. For example, St Mary Axe, London EC3A 8BF UK. May also indicate a road or path forming a route between two places, such as a highway.
- **Locality** – Geocoding is accurate to a specific area, such as a town, city, or neighborhood. For example, London, UK.
- **None** – Geocoding is unknown, possibly because the address is invalid.

2.0 GET validate

Issue this call to validate and parse a non-domestic (international) address.

Requirements and Special Considerations
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Address and country are required inputs, as well as subscription key. This API supports 254 countries. Refer to Appendix A for a list of the supported countries and their corresponding country codes.

Request URL

https://api.connected2fiber.com/international-address/validate[?address][&country]

Request parameters	Characteristic	Description/Requirements
address	string	The international address to be validated. Enter as much address information as is known for best results.
country	string	The country where the address is located

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

```
{
  "status": 200,
  "result": "Found",
  "inputAddress": "Rua Padre Antonio D'Angelo 121 Casa Verde",
  "data": {
    "administrative_area": "SP",
    "country_iso_3": "BRA",
    "locality": "São Paulo",
    "dependent_locality": "Casa Verde",
    "postal_code": "02516-040",
    "postal_code_short": "02516-040",
    "premise": "121",
    "premise_number": "121",
    "thoroughfare": "Rua Padre Antônio D'ângelo",
    "thoroughfare_name": "Padre Antonio D'angelo",
    "thoroughfare_type": "Rua",
    "latitude": -23.50948,
    "longitude": -46.66073,
    "addressPrecision": "Premise",
    "fullAddressLine": "Rua Padre Antônio D'ângelo, 121 Casa Verde São Paulo  
- SP 02516-040"
  }
}
```


Response Attributes and Data Types		
Response Attribute	Attribute Description	Data Type
administrative_area	Much like a state abbreviation in the US, this is a code used in Brazil to identify a state or city boundary. For example, the administrative area SP = São Paulo and RJ = Rio de Janeiro.	string
country_iso_3	Three-letter country codes defined in ISO 3166-1, part of the ISO 3166 standard published by the International Organization for Standardization (ISO), to represent countries, dependent territories, and special areas of geographical interest.	string
locality	The locality within the country, such as São Paulo.	string
postal_code	The postal code of the quoted location. A series of letters, or digits, or both, sometimes including spaces or punctuation, included in a postal address for the purpose of sorting mail.	string
postal_code_short	A shortened version of the complete postal code.	string
premise	Land, the buildings on it, or both the land and the buildings on it. It can also be a building or a portion of a building.	string
premise_number	The number associated with the premise, such as 121 Casa Verde.	int

Response Attributes and Data Types		
Response Attribute	Attribute Description	Data Type
thoroughfare	A primary passage or way as a transit route through regularly trafficked areas. On land, a thoroughfare may refer to anything from a multi-lane highway with grade-separated junctions to a rough trail. For example, Rua Padre Antônio D'ângelo	string
thoroughfare_name	The name used to identify a given thoroughfare, for example, Padre Antonio D'angelo	string
thoroughfare_trailing_type	For example, for the thoroughfare Rua Padre Antônio D'ângelo, the Rua designation is the thoroughfare trailing type.	string
latitude	The angular distance of a place north or south of the earth's equator, or of a celestial object north or south of the celestial equator, usually expressed in degrees and minutes. - -90 to +90 - Default coordinate system is WGS1984.	string
longitude	The angular distance of a place east or west of the meridian at Greenwich, England, or west of the standard meridian of a celestial object, usually expressed in degrees and minutes. - 180 to +180 - Default coordinate system is WGS1984.	string

Response Attributes and Data Types		
Response Attribute	Attribute Description	Data Type
addressPrecision	<p>Geocoding may be rendered as Delivery Point, Premise, Thoroughfare, Locality, or None. The level of geocoding accuracy is returned in the response. Below they are listed in the order of best results:</p> <p>Delivery Point – Accurate to the actual point of delivery. For example, a mailbox, sub-building, or unit. For example, 30 St Mary Axe Unit 101, London EC3A 8BF UK.</p> <p>Premise – Accurate to the building level. For example, 30 St Mary Axe. London EC3A 8BF UK. May also indicate any named location, usually a building or collection of buildings with a common name.</p> <p>Thoroughfare – Accurate to the street level. For example, St Mary Axe, London EC3A 8BF UK. May also indicate a road or path forming a route between two places, such as a highway.</p> <p>Locality – Accurate to a specific area, such as a town, city, or neighborhood. For example, London, UK.</p> <p>None – Geocoding is unknown, possibly because the address is invalid.</p>	string
fullAddressLine	All-inclusive address, such as Rua Padre Antônio D'ângelo, 121 Casa Verde São Paulo - SP 02516-040	string

Error Response Example

```
{  
  "status": "failed",  
  "error": "Error due to address input",  
  "inputAddress": "04985023498 d,fa;ldskjf"  
}
```

3.0 International Country Codes

The following countries are supported and available in our international address validation. Notice that the verification and geocoding levels are different for each country. That means that addresses in Nicaragua, for example, can only be verified to the locality or city because that is the best data available for that country.

Country	ISO-3	Geocode Precision
Afghanistan	AFG	Locality
Åland Islands	ALA	Premise
Albania	ALB	Premise
Algeria	DZA	Thoroughfare
American Samoa	ASM	Locality
Andorra	AND	Premise
Angola	AGO	Thoroughfare
Anguilla	AIA	Thoroughfare
Antarctica	ATA	Locality
Antigua Barbuda	ATG	Thoroughfare
Argentina	ARG	Premise
Armenia	ARM	Premise
Aruba	ABW	Thoroughfare
Australia	AUS	Premise
Austria	AUT	Premise
Azerbaijan	AZE	Premise
Bahamas	BHS	Premise
Bahrain	BHR	Premise
Bangladesh	BGD	Thoroughfare

Country	ISO-3	Geocode Precision
Barbados	BRB	Thoroughfare
Belarus	BLR	Thoroughfare
Belgium	BEL	Premise
Belize	BLZ	Thoroughfare
Benin	BEN	Thoroughfare
Bermuda	BMU	Thoroughfare
Bhutan	BTN	Thoroughfare
Bolivia	BOL	Thoroughfare
Bonaire	BES	Locality
Bosnia Herzegovina	BIH	Premise
Botswana	BWA	Premise
Brazil	BRA	Premise
British Indian Ocean Territory	IOT	Locality
British Virgin Islands	VGB	Locality
Brunei Darussalam	BRN	Premise
Bulgaria	BGR	Premise
Burkina Faso	BFA	Thoroughfare
Burundi	BDI	Locality
Cambodia	KHM	Locality
Cameroon	CMR	Thoroughfare
Canada	CAN	Premise
Cape Verde Islands	CPV	Thoroughfare
Cayman Islands	CYM	Premise
Central African Republic	CAF	Thoroughfare

Country	ISO-3	Geocode Precision
Chad	TCD	Thoroughfare
Chile	CHL	Premise
China	CHN	Locality
Christmas Island	CXR	Locality
Cocos (Keeling) Islands	CCK	Locality
Colombia	COL	Premise
Comoros	COM	Thoroughfare
Congo	COD	Thoroughfare
Cook Islands	COK	Thoroughfare
Costa Rica	CRI	Premise
Croatia	HRV	Premise
Cuba	CUB	Thoroughfare
Curacao	CUW	Locality
Cyprus	CYP	Premise
Czech Republic	CZE	Premise
Denmark	DNK	Premise
Djibouti	DGI	Thoroughfare
Dominica	DMA	Thoroughfare
Dominican Republic	DOM	Thoroughfare
Ecuador	ECU	Premise
Egypt	EGY	Premise
El Salvador	SLV	Thoroughfare
Equatorial Guinea	GNQ	Thoroughfare
Eritrea	ERI	Thoroughfare

Country	ISO-3	Geocode Precision
Estonia	EST	Premise
Ethiopia	ETH	Thoroughfare
Falkland Islands	FLK	Thoroughfare
Faroe Islands	FRO	Premise
Fiji	FJI	Premise
Finland	FIN	Premise
France	FRA	Premise
French Guiana	GUF	Premise
French Polynesia	PYF	Thoroughfare
French Southern Territories	ATF	Locality
Gabon	GAB	Thoroughfare
Gambia	GMB	Thoroughfare
Georgia	GEO	Thoroughfare
Germany	DEU	Premise
Ghana	GHA	Thoroughfare
Gibraltar	GIB	Premise
Greece	GRC	Premise
Greenland	GRL	Thoroughfare
Grenada	GRD	Thoroughfare
Guadeloupe	GLP	Premise
Guam	GUM	Premise
Guatemala	GTM	Thoroughfare
Guernsey	GGY	Premise
Guinea	GIN	Thoroughfare

Country	ISO-3	Geocode Precision
Guinea-Bissau	GNB	Thoroughfare
Guyana	GUY	Thoroughfare
Haiti	HTI	Locality
Holy See	VAT	Thoroughfare
Honduras	HND	Thoroughfare
Hong Kong	HKG	Premise
Hungary	HUN	Premise
Iceland	ISL	Premise
India	IND	Premise
Indonesia	IDN	Premise
Iran	IRN	Locality
Iraq	IRQ	Locality
Ireland	IRL	Premise
Isle of Man	IMN	Premise
Israel	ISR	Premise
Italy	ITA	Premise
Ivory Coast	CIV	Thoroughfare
Jamaica	JAM	Thoroughfare
Japan	JPN	Premise
Jersey	JEY	Premise
Jordan	JOR	Premise
Kazakhstan	KAZ	Premise
Kenya	KEN	Thoroughfare
Kiribati	KIR	Locality

Country	ISO-3	Geocode Precision
Korea	KOR	Premise
Kuwait	KWT	Premise
Kyrgyzstan	KGZ	Thoroughfare
Laos	LAO	Locality
Latvia	LVA	Premise
Lebanon	LBN	Premise
Lesotho	LSO	Premise
Liberia	LBR	Thoroughfare
Libya	LBY	Thoroughfare
Liechtenstein	LIE	Premise
Lithuania	LTU	Premise
Luxembourg	LUX	Premise
Macao	MAC	Premise
Macedonia	MKD	Premise
Madagascar	MDG	Thoroughfare
Malawi	MWI	Thoroughfare
Malaysia	MYS	Premise
Maldives	MDV	Thoroughfare
Mali	MLI	Thoroughfare
Malta	MLT	Premise
Marshall Islands	MHL	Thoroughfare
Martinique	MTQ	Premise
Mauritania	MRT	Thoroughfare
Mauritius	MUS	Thoroughfare

Country	ISO-3	Geocode Precision
Mayotte	MYT	Premise
Mexico	MEX	Premise
Micronesia	FSM	Locality
Moldova	MDA	Premise
Monaco	MCO	Premise
Mongolia	MNG	Thoroughfare
Montenegro	MNE	Premise
Montserrat	MSR	Locality
Morocco	MAR	Premise
Mozambique	MOZ	Thoroughfare
Myanmar	MMR	Locality
Namibia	NAM	Premise
Nauru	NRU	Locality
Nepal	NPL	Thoroughfare
Netherlands Antilles	ANT	Locality
Netherlands	NLD	Premise
New Caledonia	NCL	Thoroughfare
New Zealand	NZL	Premise
Nicaragua	NIC	Locality
Niger	NER	Thoroughfare
Nigeria	NGA	Thoroughfare
Niue	NIU	Thoroughfare
Norfolk Island	NFK	Premise
North Korea	PRK	Locality

Country	ISO-3	Geocode Precision
Northern Mariana Islands	NMP	Locality
Norway	NOR	Premise
Oman	OMN	Premise
Pakistan	PAK	Locality
Palau	PLW	Locality
Palestinian Territory	PSE	Locality
Panama	PAN	Premise
Papua New Guinea	PNG	Locality
Paraguay	PRY	Premise
Peru	PER	Premise
Philippines	PHL	Premise
Pitcairn Island	PCN	Locality
Poland	POL	Premise
Portugal	PRT	Premise
Puerto Rico	PRI	Premise
Qatar	QAT	Premise
Réunion	REU	Premise
Romania	ROU	Premise
Russia	RUS	Premise
Rwanda	RWA	Thoroughfare
Saint Barthélemy	BLM	Premise
Saint Helena	SHN	Thoroughfare
Saint Kitts and Nevis	KNA	Thoroughfare
Saint Lucia	LCA	Thoroughfare

Country	ISO-3	Geocode Precision
Saint Martin	MAF	Thoroughfare
Saint Pierre and Miquelon	SPM	Thoroughfare
Saint Vincent and the Grenadines	VCT	Thoroughfare
Samoa	WSM	Thoroughfare
San Marino	SMR	Premise
Sao Tome and Principe	STP	Thoroughfare
Saudi Arabia	SAU	Premise
Senegal	SEN	Thoroughfare
Serbia	SRB	Premise
Seychelles	SYC	Thoroughfare
Sierra Leone	SLE	Thoroughfare
Singapore	SGP	Premise
Sint Maarten (Dutch)	SXM	Locality
Slovakia	SVK	Premise
Slovenia	SVN	Premise
Solomon Islands	SLB	Locality
Somalia	SOM	Locality
South Africa	ZAF	Premise
South Georgia and the South Sandwich Islands	SGS	Locality
South Sudan	SSD	Thoroughfare
Spain	ESP	Premise
Sri Lanka	LKA	Thoroughfare
Sudan	SDN	Locality

Country	ISO-3	Geocode Precision
Suriname	SUR	Premise
Svalbard and Jan Mayen Islands	SJM	Thoroughfare
Swaziland	SWZ	Thoroughfare
Sweden	SWE	Premise
Switzerland	CHE	Premise
Syria	SYR	Locality
Taiwan	TWN	Premise
Tajikistan	TJK	Thoroughfare
Tanzania	TZA	Thoroughfare
Thailand	THA	Premise
Timor-Leste (formerly East Timor)	TLP	Locality
Togo	TGO	Thoroughfare
Tokelau	TKL	Locality
Tonga	TON	Thoroughfare
Trinidad and Tobago	TTO	Thoroughfare
Tunisia	TUN	Premise
Turkey	TUR	Premise
Turkmenistan	TKM	Thoroughfare
Turks and Caicos Islands	TCA	Thoroughfare
Tuvalu	TUV	Thoroughfare
Uganda	UGA	Thoroughfare
Ukraine	UKR	Premise
United Arab Emirates	ARE	Premise

Country	ISO-3	Geocode Precision
United Kingdom	GBR	Premise
United States Minor Outlying Islands	UMI	Locality
United States Virgin Islands	VIR	Premise
United States	USA	Zip9
Uruguay	URY	Premise
Uzbekistan	UZB	Thoroughfare
Vanuatu	VUT	Thoroughfare
Venezuela	VEN	Premise
Vietnam	VNM	Premise
Wallis and Futuna Islands	WLF	Thoroughfare
Western Sahara	ESH	Locality
Yemen	YEM	Locality
Zambia	ZMB	Thoroughfare
Zimbabwe	ZWE	Premise

Appendix A – Revision History

Revision	Date	Description
00	September 30, 2019	The former Connectbase API Reference Guide has been divided into individual product guides. This document was extracted and updated from the original document to be a standalone product guide for the International Processor API.
01	October 03, 2019	Revised references to Network Data APIs to Network Intelligence APIs to reflect product name change.
02	December 17, 2020	Added clarification in Overview regarding the order of best results, i.e., Delivery Point, Premise, Thoroughfare, Locality, or None, and provided an example of each.
	February 01, 2022	Rebranded the document template with a new title page, company name, logo, and updated fonts.
03	September 20, 2022	Incorporated the response attributes and data types for each API call into this guide, which were extracted from the “discontinued” API Data Dictionary Guide.