



MEF Geographic Address Management API Reference Guide

Revision 00

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About This Guide

Introduction

This guide describes the Connectbase Application Program Interface (API) MEF Geographic Address Management 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*
- *MEF Geographic Address Management 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](#) 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 MEF Geographic Address Management APIs

MEF Geographic Address Management API allows the Buyer to retrieve address information from the Seller, including exact formats, for addresses known to the Seller. Supported use cases:

- *POST Validate Address*
- *GET Retrieve Address by Identifier*



The content is based on the TM Forum Geographic Address API (TMF673 v4.0.1) available at https://github.com/tmforum-apis/TMF673_GeographicAddress, which is licensed by the TM Forum under the Apache License version 2.0. Such content has been modified by the MEF Forum and its contributors.

MEF Geographic Address Management API

POST Validate Address (geographicAddressValidation)

A requester-initiated request to validate the address representation and retrieve the responder address id if supported.

Requirements and Special Considerations

- Only FieldedAddress is supported.
- Service returns only best address match.
- The id of the address is composed of GLID + an indicator of address type(FI - fielded).

Request URL

<https://api.connectbase.com/mef/sonata/address/dolly/geographicAddressValidation>

Request headers	Type	Required?	Description/Requirements
Ocp-Apim-Subscription-key	string	Yes	The subscription key that provides access to this API, which can be found in your Profile.
Authorization	string	Yes	Header for OAuth 2.0 token. Value must contain text 'Bearer' + token value. Example: Authorization='Bearer eysG...'

Request parameters	Type	Required?	Description/Requirements
provideAlternative	boolean	Yes	Flag indicating if alternative addresses should be provided in case of partial or failed validation. Required for API compliance; not used in validation logic. Setting this value does not affect the response. Accepted values: true, false
submittedGeographicAddress	Object of type FieldedAddress	Yes	Object Wrapper
@type	string	Yes	This field is used as discriminator. Accepted values: FieldedAddress

Request parameters	Type	Required?	Description/Requirements
country	string	Yes	The country that the address is in [MEF 121]
city	string	Yes	The city that the address is in [MEF 121]
streetName	string	Yes	Name of the street. Required for validation.
streetNr	string	No	Number identifying a specific property on a public street. It may be combined with streetNrLast for ranged addresses.[MEF 121]
streetNrLast	string	No	Last number in a range of street numbers allocated to a property [MEF 121]
streetNrSuffix	string	No	Suffix for the primary street number (e.g., "A" in "100A")
streetNrLastSuffix	string	No	Suffix for the last street number in a range (e.g., "A" in "100-101A")
streetSuffix	string	No	Street direction or modifier (e.g., "S" in "S Wacker Dr")
streetType	string	No	The type of street (e.g., alley, avenue, boulevard, brae, crescent, drive, highway, lane, terrace, parade, place, tarn, way, wharf) [MEF 121]
locality	string	No	The locality that the address is in [MEF 121]
postcode	string	No	A descriptor for a postal delivery area used to speed and simplify the delivery of mail (also known as zip code) MEF 79 defines it as required however as in certain countries it is not used we make it optional in API. [MEF 121]
postcodeExtension	string	No	An extension of a postal code. E.g. the part following the dash in a US urban property address. [MEF 121]
stateOrProvince	string	No	The State or Province that the address is in [MEF 121]

Sample Request Body POST Validate Address

```
{
  "provideAlternative": false,
  "submittedGeographicAddress": {
    "@type": "FieldedAddress",
```

Sample Request Body POST Validate Address

```
{
  "city": "Chicago",
  "streetName": "Wacker",
  "streetNr": "100",
  "postcode": "60606",
  "country": "United States",
  "streetType": "drive",
  "stateOrProvince": "Illinois",
  "locality": "Chicago",
  "streetNrSuffix": null,
  "streetSuffix": "S"
}
```

Success Response Example POST Validate Address

Code: 200 - OK

```
{
  "validationResult": "success",
  "provideAlternative": false,
  "submittedGeographicAddress": {
    "@type": "FieldedAddress",
    "country": "United States",
    "streetType": "drive",
    "city": "Chicago",
    "streetNr": "100",
    "locality": "Chicago",
    "postcode": "60606",
    "streetName": "Wacker",
    "stateOrProvince": "Illinois",
    "streetSuffix": "S"
  },
  "bestMatchGeographicAddress": {
    "@type": "FieldedAddress",
    "id": "US86HJV9J7+422BM00:FI",
    "country": "USA",
    "streetType": "Dr",
    "city": "Chicago",
    "streetNr": "100",
    "postcode": "60606",
    "streetName": "Wacker",
    "stateOrProvince": "Illinois",
    "streetSuffix": "S"
  }
}
```

Response attributes and data types

Response Attribute	Attribute Description	Data Type
validationResult	Result of the address validation: <ul style="list-style-type: none">• success - best match found,• fail - otherwise partial - not supported	Enum: [success, partial, fail]
provideAlternative	Copied from the request	boolean
submittedGeographicAddress	Copied from the address submitted in the request	object

Response Attribute	Attribute Description	Data Type
bestMatchGeographicAddress	The validated and normalized address, if validation is successful. Same structure as submittedGeographicAddress, containing also the identifier as id	object

Error Response Example POST Validate Address

Code 401 - Unauthorized

```
{
  "code": "missingCredentials",
  "reason": "access denied due to missing subscription key. make sure to include
subscription key when making requests to an api."
}
```

```
{
  "code": "invalidCredentials",
  "reason": "unauthorized"
}
```

400 - Bad Request

```
{
  "reason": "Invalid JSON body",
  "code": "invalidBody",
  "message": "Invalid data type provided in the request. Please check the submitted data
format."
}
```

GET Retrieve Address by Identifier (geographicAddress)

A request to retrieve full details of a single **GeographicAddress** using its identifier.

Requirements and Special Considerations

The id of the address is composed of GLID + an indicator of address type(FI - fielded).

Request URL

https://api.connectbase.com/mef/sonata/address/dolly/geographicAddress/{id}

Request parameters	Type	Required?	Description
id	string	Yes	The identifier of the address to retrieve details for

Request headers	Characteristic	Required?	Description
Ocp-Apim-Subscription-key	string	Yes	The subscription key that provides access to this API, which can be found in your Profile.
Authorization	string	Yes	Header for OAuth 2.0 token. Value must contain text 'Bearer' + token value. Example: Authorization='Bearer eysG...'

Success Response Example GET Retrieve Address by Identifier

Code: 200 - OK

```
{
  "@type": "FieldedAddress",
  "id": "FR8FQ6QV59+G22RS00:FI",
  "country": "FRA",
  "city": "LYON",
  "streetNr": "11",
  "postcode": "69003",
  "streetName": "Rue Des Teinturiers",
  "stateOrProvince": "Auvergne-rhone-alpes"
}
```

GET Retrieve Address by Identifier response attributes and data types

Response Attribute	Attribute Description	Data Type
@type	Type of the returned address object. Supported value: FieldedAddress	string
id	Unique identifier of the place [MEF 121]	string
streetNr	Number identifying a specific property on a public street. It may be combined with streetNrLast for ranged addresses.[MEF 121]	string

Response Attribute	Attribute Description	Data Type
streetNrLast	Last number in a range of street numbers allocated to a property [MEF 121]	string
streetName	Name of the street.	string
streetSuffix	Street direction or modifier (e.g., "S" in "S Wacker Dr")	string
streetType	The type of street (e.g., alley, avenue, boulevard, brae, crescent, drive, highway, lane, terrace, parade, place, tarn, way, wharf) [MEF 121]	string
city	The city that the address is in [MEF 121]	string
postcode	A descriptor for a postal delivery area used to speed and simplify the delivery of mail (also known as zip code) MEF 79 defines it as required however as in certain countries it is not used we make it optional in API. [MEF 121]	string
stateOrProvince	The State or Province that the address is in [MEF 121]	string
country	The country that the address is in [MEF 121]	string

Error Response Example GET Retrieve Address by Identifier

Code 401 - Unauthorized

```
{
  "code": "missingCredentials",
  "reason": "access denied due to missing subscription key. make sure to include
subscription key when making requests to an api."
}
```

```
{
  "code": "invalidCredentials",
  "reason": "unauthorized"
}
```

404 - Not Found

```
{
  "reason": "Address not found for id: FR8FQ6QV59+G22RS00:FI1",
  "message": "Provided id does not exist in the system. Please provide a valid id.
MefAddressType is unknown.",
  "code": "notFound"
}
```

Revision History

Revision	Date	Description
00	March 09, 2026	This is the initial release for supported APIs for MEF Geographic Address Management.