

XADDRESS.IO

Service Documentation - v1

Xaddress.io response properties:

Field Name	Format	Possible Values	Comments
*Accuracy	string	Low, Medium, and High	It indicates the accuracy level of the address.
AddressLine1	string	N/A	Street name and number, and apartment name will be returned in this field.
AddressLine2	string	N/A	District Name, or in case of a long AddressLine1 field, apartment name will be returned in this.
City	string	N/A	City Name
Country	string	N/A	Country Name
ErrorCode	int	0,1,2	0: No error occurred, information found. 1: will be returned in case of a missing argument or when no information is found. 2: will be returned when no information was found for the specific region/city.
Geo	array	N/A	Latitude and

			Longitude of the given location
PostalCode	string	N/A	Postal Code of the given location
PhoneCode	string	N/A	Country Phone Code (ITU-T standard**)of the given location it starts with '+'
Region	string	N/A	Region Name of the given location
TimeZone	string	N/A	Time Zone Name of the given location
TimeZoneOffset	string	N/A	UTC time zone offset
*Trust	float	0...1	It is a float value from 0 to 1 and indicates the accuracy of the validated address. It can be used in combination with the Trust field
lat	string	N/A	latitude
lon	string	N/A	longitude
Capital	string	N/A	Capital City Name of the Country
CountryCode	string	N/A	Countries ISO code
CountryName	string	N/A	Name of the Country
TimeZoneNames	array	N/A	Array with time zone names which the country includes
TimeZoneOffsets	array	N/A	Array with the UTC time zone offsets
State	string	N/A	State Name
StateCode	string	N/A	The Code of the State

			according to the country.
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* Tips about Trust and Accuracy field:

i.e. For the given address X if the accuracy is High/Medium and Trust >0.5 means that the given address is valid and legit.

** **ITU-T** is the telecommunications standardization sector of the International Telecommunications Union, which is responsible for developing new standards and revising existing standards for the information and communications technology (ICT) industry, from core network functionality and broadband to next-generation services.

Authentication:

Currently the authentication process is being handled by RapidAPI with X-RapidAPI-Host and X-RapidAPI-Key Header Parameters.

Endpoints:

{baseurl} = will be provided by the RapidAPI

1. Method: GET

```
/api/v1/ask/address
```

- With this Endpoint, you can validate the given address and receive it in standard form as a response.

Optional Arguments:

address: one line full address spaces should be replaced with “-”

add1, add2, region, zip, country: these arguments must be used in combination otherwise the API mechanism will look up for address argument.

Note: **address** argument can not be used with a combination of other arguments.

add1, add2, region, zip, and country arguments can be used when better precision is required.

Example:

a.

```
{baseurl}/api/v1/ask/address?address=Herslev-Kirkevej-26-34-7000-Fredericia-Denmark
```

Response:

```
{
  "Accuracy": "High",
  "AddressLine1": "Herslev Kirkevej 26",
  "AddressLine2": "-",
  "City": "Fredericia",
  "Country": "Denmark",
  "ErrorCode": "0",
  "Geo": [
    55.58323,
    9.59247
  ],
  "PhoneCode": "+45",
  "PostalCode": "7000",
  "Region": "Southern Jutland",
  "TimeZone": "Europe/Copenhagen",
  "TimeZoneOffset": "2:00:00 UTC",
  "Trust": 0.9052631578947369
}
```

b.

```
{baseurl}/api/v1/ask/address?add1=Herslev-Kirkevej-26-34&add2=Fredericia&country=Denmark&zip=7000&region=Southern-Jutland
```

Response same as a.

2. Method: POST

`/api/v1/ask/csvprocess`

- With this Endpoint, you can upload a CSV with addresses and validate them in bulk.
- Xaddress.io's API mechanism will respond to you with your filename and prefix added in front of it. In most cases, your new file will be available in 10 seconds and can be requested from the download endpoint [**endpoint 3**].
- The CSV file can be sent as a body content **multipart/form-data** with field name *file*
- CSV file must contain Column with name **GivenAddress**.
- The response for each row will be appended to the same row in their respective field.

Example CSV file format:

	A
1	GivenAddress
2	Stavroula-Papadopoulou 21 Sikies 56625
3	Lachana 5 Patra 26223
4	C Jos Mar Lacort 9 47002 Valladolid Spain
5	C Cardenal Bartolom de la Cueva 20 40200 Cullar Segovia Spain
6	503 Utah Ave Alamogordo NM 88310 USA
7	

Example:

```
curl -i -X POST -H "Content-Type: multipart/form-data"
-F "file=@test.csv" {baseurl}/api/v1/ask/csvprocess
```

Response:

```
{
  "ErrorCode": "0",
  "FileNameWithPrefix": "48N2NMBF-test.csv",
  "message": "File successfully uploaded - You can request your
processed file in a few seconds"
}
```

Processed file example:

	GivenAddress	addressLine1	addressLine2	Region	postalCode	Country	Accuracy	geoCqr	City	Trust	PhoneCode	TimeZoneName	TimeZoneOffset
1	GivenAddress												
2	Stavroula-Papadopoulou 21 Sikies 56625	Nikomideias	Thessalonica	Thessaloniki	56625	Greece	Medium	[40.65167, 22.95072]	Neapoli-Sykies	0.24096385542169	0030	Europe/Athens	3:00:00
3	Lachana 5 Patra 26223	Lachana 5	Achaea	West Greece	26223	Greece	High	[38.25598, 21.74474]	Patras	0.41269841269841	0030	Europe/Athens	3:00:00
4	C Jos Mar Lacort 9 47002 Valladolid Spain	Calle de José María Lacort 9		Valladolid	47002	Spain	High	[41.6490851, -4.7232258]	Valladolid	0.56666666666667	0034	Europe/Madrid	2:00:00
5	C Cardenal Bartolom de la Cueva 20 40200 Cullar Segovia Spain	Calle del Cardenal Bartolomé de la Cueva		Segovia	40200	Spain	Medium	[41.3970252301118, -4.31032045604]	Cuellar	0.59756097560976	0034	Europe/Madrid	2:00:00
6	503 Utah Ave Alamogordo NM 88310 USA	503 Utah Ave		Otero County	88310	United States	High	[32.895111, -105.945663]	Alamogordo	0.58823529411765	001	America/Denver	-1 day, 18:00:00

3. Method: GET

```
/api/v1/getfile/<fileName>
```

- From this endpoint, you can download your processed CSV file.
- The processed CSV files are not available for download after 24 hours of their creation.

Example:

```
{baseurl}/api/v1/getfile/48N2NMBF-test.csv
```

4. Method: GET

```
/api/v1/ask/timezone
```

- From this endpoint you can retrieve the **timezone offset** and the **timezone name** with **Geo-coordinates**.

Required Arguments:

- **lat** : Latitude
- **lon** : Longitude

Example:

```
{baseurl}/ask/timezone?lat=40.449182163660325&lon=25.60237781327888533
```

Response:

```
{
  "TimeZoneName": "Europe/Athens",
  "TimeZoneOffset": "3:00:00 UTC",
  "lat": "40.449182163660325",
  "lon": "25.60237781327888533"
}
```

5. Method: GET

```
/api/v1/ask/country/info
```

- This endpoint exposes general informations like phone code, time zone, etc. for the given country.

Required Argument:

country: country name

Example:

```
{baseurl}/api/v1/ask/country/info?country=kazakhstan
```

Response:

```
{
```

```
"Capital": "Astana",
"CountryCode": "KZ",
"CountryName": "Kazakhstan",
"PhoneCode": "+7",
"TimeZoneNames": [
  "Asia/Almaty",
  "Asia/Qyzylorda",
  "Asia/Aqtobe",
  "Asia/Aqtau",
  "Asia/Oral"
],
"TimeZoneOffsets": [
  [
    6
  ],
  [
    6
  ],
  [
    5
  ],
  [
    5
  ],
  [
    5
  ]
]
}
```

6. Method: GET

```
/api/v1/ask/city/info
```

- City Info Endpoint gives you informations like state, state code, timezone etc. about the given city.
Required Arguments:

city: City name

country: Country Name

state: name of the state where the given city is located

Example:

```
{baseurl}/ask/city/info?city=Napoli&country=Italy&state=Napoli
```

Response:

```
{
  "City": "Napoli",
  "Country": "Italy",
  "Error": "0",
  "Geo": [
    "40.90969000",
    "14.34205000"
  ],
  "PhoneCode": "+39",
  "State": "Campania",
  "StateCode": "72",
  "TimeZoneName": "Europe/Rome",
  "TimeZoneOffset": "2:00:00 UTC"
}
```

Important Notes:

- Addresses, Cities, Countries name can have spaces, when sending requests through xaddress.io *do not forget* to replace the “**space**” with “-”, otherwise you will receive error response.
- In case you face any error which is unexpected please do not hesitate to contact us via our website’s contact form: <https://xaddress.io/#contactus>
Or, just email us on **support[at]xaddress.io**