IP2Company documentation

Release v1.1

WiredMinds GmbH

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The IP2Company API is a service provided by WiredMinds GmbH. It allows to retreive geo- and company related information for an given IP address.

1 Usage

To be able to use the API, a token is required. The base URL (further indicated by "{IP2CURL}") used to access the IP2Company API is https://ip2c.wiredminds.com, the available endpoints are described below.

1.1 Query IP2Company API for IP

To query data for an IP address a **GET** request against the API must be done. The URL has the following structure.

```
https://{IP2CURL}/{token}/{ip}
```

The **token** is used to authenticate against the IP2Company API. Note that the token can have further restrictions like the IP address it accepts requests from and the maximum number of requests per month.

Expected HTTP status codes:

Status	Content-Type	Description
200	applciation/json	Successful request and found data for passed IP.
400	applciation/json	Bad Request. Could be invalid IP address given.
401	applciation/json	Not authenticated.
403	applciation/json	Permission denied. Could be reached limit or IP restrictions.
404	applciation/json	There was no data found for passed IP.
429	applciation/json	Too Many Requests. States that too many requests in a short time period have been done.

Note that the response body of requests may vary depending on the concrete error.

1.1.1 Response for IP if a company entry was found in our database

The result of a successful request with found data may vary due to the allowed fields for the used token. It is recommend to use the status code to differentiate if data could be found or not.

Response on successful request of found data for given ip address:

```
#GET: https://{IP2CURL}/{token}/{ip}
#Status: 200
{
    "branch": "Programmierungstätigkeiten",
    "branch_code": "6201",
    "city": "Stuttgart",
```

```
    "contacts": [
        {
            "first": "FirstName",
            "last": "LastName",
            "pos": "Geschäftsführer/-in",
            "sal": "Herr"
        }
    ],
    "continent": "eu",
    "country_code": "de",
    "domain": "wiredminds.de",
    "founding_year": "2002",
    "geoname": {
        "id": "2825297",
        "region_id": "2953481"
    },
    "name": "wiredminds GmbH",
    "phone": "0711 5853310",
    "region": "Baden-Württemberg",
    "revenue": "500.001 bis 2.500.000 Euro",
    "revenue_class": "04",
    "size": "20 - 49 Beschäftigte",
    "size_class": "04",
    "street": "Lindenspürstr. 32",
    "zip": "70176"
}
```

Description of the properties by their property paths.

Property path	Type	Description
branch	string	German text of the branch_code for the company.
branch_code	string	Wzcode of the company.
city	string	City of the company.
contacts	array | null	Array of objects. Contains contact in first management level.
contacts[0].first	string	First name of a contact.
contacts[0].last	string	Last name of a contact.
contacts[0].pos	string	Position of a contact.
contacts[0].sal	string	Salutaiton of a contact (in german).
continent	string	2 char continent code of the company.
country_code	string	2 char country code of the company (ISO 3166-1 alpha-2).
domain	string	Main web domain of the company.
founding_year	string	Year the company was founded.
geoname	object	geo ids of the geonames database.
geoname.id	string	Geonames locality identifier of the company.
geoname.region_id	string	Geonames region identifier of the company.
name	string	Name of the company.
phone	string	Central phone number of the company.
region	string	Name of the region of the company.
revenue	string	German text of the revevue_class for the company.
revenue_class	string	Class of revenue group of the company.
size	string	German text of the size_class for the company.
size_class	string	Employee class of the company.
street	string	Street name and house number of the company.
zip	string	Zip code of the company.

1.1.2 Response for IP if no company was found

Response on successful request if no data was found for given ip address:

```
#GET: https://{IP2CURL}/{token}/{ip}
#Status: 404
```

1.1.3 Response for IP if permission issues occured

Response on successful request if permission was denied:

```
#GET: https://{IP2CURL}/{token}/{ip}
#Status: 403
```

1.1.4 Response for IP with not-allowed token

Response on successful request if a not-allowed/unknown token was used:

```
#GET: https://{IP2CURL}/{token}/{ip}
#Status: 401
```

1.2 Query IP2Company API for status

To query data for the current status information of the token a **GET** request against the API must be done. The URL has the following structure.

```
https://{IP2CURL}/{token}/status
```

The **token** is used to authenticate against the IP2Company API. Note that the token can have further restrictions like the IP address it accepts requests from.

Expected HTTP status codes:

Status	Content-Type	Description
200	applciation/json	Successful request.
401	applciation/json	Not authenticated.
403	applciation/json	Permission denied. Could be IP restrictions.
429	applciation/json	Too Many Requests. States that too many requests in a short time period have been done.

1.2.1 Response for status

The response for the status contains a collection of items cotnaining the status per month. Currently information for the last 2 months is returned, while the newest status is in the first element.

Response on successful request for the status of a token returns a collection of items:

```
#GET: https://{IP2CURL}/{token}/status
#Status: 200
[
    {
        "year": 2022,
        "month": 12,
        "hits": 7,
        "misses": 2,
        "req_available": 4991,
        "req_used": 9,
        "req_limit": 5000
    },
    {
        "year": 2022,
        "month": 11,
        "hits": 6,
        "misses": 4,
        "req_available": 4990,
        "req_used": 10,
        "req_limit": 5000
```

```
      }
]
```

Description of the properties of an item by their property paths. Note that the response body contains a collection of items.

Property path	Type	Description
year	integer	The year the item relates to.
month	integer	The month the item relates to.
hits	integer	How many ip address hits have been registered.
misses	integer	How many ip address misses have been registered.
req_available	integer	How many requests are still allowed related to the current set limit of the token.
req_used	integer	How many requests have been used.
req_limit	integer	The current limit for the token.

1.2.2 Response for status if permission issues occure

Response on successful request if permission was denied:

```
#GET: https://{IP2CURL}/{token}/status
#Status: 403
```

1.2.3 Response for status with not-allowed token

Response on successful request if a not-allowed/unknown token was used:

```
#GET: https://{IP2CURL}/{token}/status
#Status: 401
```

1.3 Meaning of the size_class property

Below is a descritpion on the **size_class** property, a german translation is already delivered through the **size** property.

size_class	meaning
00	not specified
01	1 - 4 employees
02	5 - 9 employees
03	10 - 19 employees
04	20 - 49 employees
05	50 - 99 employees
06	100 - 199 employees
07	200 - 499 employees
08	500 - 999 employees
09	1.000 - 1.999 employees
10	over 2.000 employees

1.4 Meaning of the revenue_class property

Below is a descritpion on the **revenue_class** property, a german translation is already delivered through the **revenue** property.

revenue_class	meaning
00	not specified
01	up to 100.000 Euro

02	100.001 to 250.000 Euro
03	250.001 to 500.000 Euro
04	500.001 to 2.500.000 Euro
05	2.500.001 to 5.000.000 Euro
06	5.000.001 to 25.000.000 Euro
07	25.000.001 to 50.000.000 Euro
08	50.000.001 to 500.000.000 Euro
09	over 500.000.000 Euro

1.5 WZ Codes

An comprehensive list of codes can be retrieved from: https://www.destatis.de/static/DE/dokumente/klassifikation-wz-2008-3100100089004.pdf

1.6 Geoname info

geonames - The geographic database is available through various web services or for download. For more informations see: https://www.geonames.org/about.html