

# Autocomplete

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## Overview

The Autocomplete endpoint is used to retrieve a list of suggested addresses from a search query. Please read [API Overview](#) first.

## API Endpoint

```
https://api.autoaddress.com/3.0/autocomplete
```

## Request

To retrieve Autocomplete results, a simple `GET` request from your desired language is all that is needed.

The request must be authenticated. Please see the [API Authentication](#) documentation for full details.

## Input Fields

Name	Type	Description
address*	string	Address to search
token*	string	Access token from <a href="#">Create Token endpoint</a> . Required if key is not provided. See <a href="#">Authentication</a> documentation for more details
country	string	Country to limit results to
latitude	string	Latitude to search at
longitude	string	Longitude to search at
h3index	string	H3 index to search in
language	string	Language to return result in

\* Required Fields

The following is an example cURL Autocomplete call using an address and token.

```
curl --location 'https://api.autoaddress.com/3.0/autocomplete?address=YOUR_ADDRESS&token=YOUR_TOKEN'
```

## Response

The following is a sample JSON response returned for an Autocomplete API request.

```
{
  "type": "autocomplete",
  "message": {
    "id": 3100,
    "language": "en",
    "value": "Select an option below"
  },
  "options": [
    {
      "value": "Dublin Street Medical Centre, 19 Dublin Street, Longford, N39",
```

```
"link": {
  "rel": "drilldown",
  "href": "https://api.autoaddress.com/3.0/drilldown?aa3Id=IE311b5a4b-afca-4129-a7d2-0f91e49504a8_Latn_en_V&address=Dublin&token=fvBby7sc9D%20oGwJka6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1Vmb0VXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig=72d5fe4df89c974e17dcba77cac73cfb",
  "title": "Dublin Street Medical Centre, 19 Dublin Street, Longford, N39"
},
"format": {
  "highlights": [
    0,
    29
  ],
  "lineBreaks": []
},
"suffix": "2 Addresses"
},
{
  "value": "DUBLIN STREET DENTAL CLINIC, 43 Dublin Street, Dundalk, Co. Louth, A91",
  "link": {
    "rel": "lookup",
    "href": "https://api.autoaddress.com/3.0/lookup?aa3Id=IE1900120792_Latn_en_V&token=fvBby7sc9D%20oGwJka6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1Vmb0VXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig=2beb534cbbd8bb17019084947761cab8",
    "title": "DUBLIN STREET DENTAL CLINIC, 43 Dublin Street, Dundalk, Co. Louth, A91"
  },
  "format": {
    "highlights": [
      0,
      28
    ],
    "lineBreaks": []
  },
  "suffix": ""
},
{
  "value": "R.S. MACHINERY (DUBLIN), Summit House, Unit 134, Slaney Close, Dublin Industrial Estate, Glasnevin, Dublin 11",
  "link": {
    "rel": "lookup",
    "href": "https://api.autoaddress.com/3.0/lookup?aa3Id=IE1900013833_Latn_en_V&token=fvBby7sc9D%20oGwJka6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1Vmb0VXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig=b5bb36daddeb612736b146bd75d9c321",
    "title": "R.S. MACHINERY (DUBLIN), Summit House, Unit 134, Slaney Close, Dublin Industrial Estate, Glasnevin, Dublin 11"
  },
  "format": {
    "highlights": [
      0,
      24
    ],
    "lineBreaks": []
  },
  "suffix": ""
},
{
  "value": "DUBLINIA VIKING CENTRE, Winetavern Street, Dublin 8",
  "link": {
    "rel": "lookup",
    "href": "https://api.autoaddress.com/3.0/lookup?aa3Id=IE1900012790_Latn_en_V&token=fvBby7sc9D%20oGwJka6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1Vmb0VXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig=36f5ce138b2dd61808d07174d39e413d",
    "title": "DUBLINIA VIKING CENTRE, Winetavern Street, Dublin 8"
  },
  "format": {
```

```
    "highlights": [
      0,
      23
    ],
    "lineBreaks": [],
  },
  "suffix": ""
},
{
  "value": "Dublin Airport Business Park, Swords Road, Dublin 9",
  "link": {
    "rel": "drilldown",
    "href": "https://api.autoaddress.com/3.0/drilldown?aa3Id=IE05457e65-9978-458c-98a2-f3488f7232fa_Latn_en_V&address=Dublin&token=fvBby7sc9D%20oGwJka6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1IVmboVXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig=d9430edbe44c93053b3bd9c66712fe93",
    "title": "Dublin Airport Business Park, Swords Road, Dublin 9"
  },
  "format": {
    "highlights": [
      0,
      29
    ],
    "lineBreaks": [],
  },
  "suffix": "10 Addresses"
},
{
  "value": "Dublin Airport, Co. Dublin, K67",
  "link": {
    "rel": "drilldown",
    "href": "https://api.autoaddress.com/3.0/drilldown?aa3Id=IEbc478e11-46ea-4796-bcef-8aa6e2e85602_Latn_en_V&address=Dublin&token=fvBby7sc9D%20oGwJka6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1IVmboVXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig=81fa90c866977d36f15cf8aa97d1626d",
    "title": "Dublin Airport, Co. Dublin, K67"
  },
  "format": {
    "highlights": [
      0,
      15
    ],
    "lineBreaks": [],
  },
  "suffix": "2 Addresses"
},
{
  "value": "Dublin Business Centre, Blackwater Road, Dublin Industrial Estate, Dublin 11",
  "link": {
    "rel": "drilldown",
    "href": "https://api.autoaddress.com/3.0/drilldown?aa3Id=IEb0322659-ac6e-4e39-b344-496b206bfd26_Latn_en_V&address=Dublin&token=fvBby7sc9D%20oGwJka6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1IVmboVXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig=1600f94491c670bd72a78d73cc683dfa",
    "title": "Dublin Business Centre, Blackwater Road, Dublin Industrial Estate, Dublin 11"
  },
  "format": {
    "highlights": [
      0,
      23
    ],
    "lineBreaks": [],
  },
  "suffix": "4 Addresses"
},
{
  "value": "Dublin Gate Street, Athlone, Co. Westmeath, N37",
```

```

    "link": {
      "rel": "drilldown",
      "href": "https://api.autoaddress.com/3.0/drilldown?aa3Id=IE9ca86ea0-2555-420f-894f-637691077cb1_Latn_en_V&address=Dublin&token=fvBby7sc9D%20oGwJka6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1VmboVXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig=88a953af55c55824254fabadc9548b67",
      "title": "Dublin Gate Street, Athlone, Co. Westmeath, N37"
    },
    "format": {
      "highlights": [
        0,
        19
      ],
      "lineBreaks": []
    },
    "suffix": "10 Addresses"
  }
],
"links": [
  {
    "rel": "self",
    "href": "https://api.autoaddress.com:443/3.0/autocomplete?address=Dublin&token=fvBby7sc9D+oGwJka6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ+Ge17P1VmboVXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D",
    "title": "self"
  },
  {
    "rel": "autoaddressformlayout",
    "href": "https://api.autoaddress.com/3.0/autoaddressformlayout?token=fvBby7sc9D%20oGwJka6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1VmboVXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig=eef1cd3044a3f9b2b7187f78b6078972",
    "title": "Enter your address manually >"
  }
]
}

```

## Output Fields

Name	Type	Description
type	string	Name of the response type
message	Message	A Message object (detailed below)
options	Option[]	An array of Option objects (detailed below)
links	Link[]	An array of Link object (detailed below)

## Message Object

Name	Type	Description
id	int	Message ID
language	string	Language of the message
value	string	Value of the message

## Option Object

Name	Type	Description
value	string	Display name of the option
link	Link	A Link Object (Detailed below)
format	Format	Formatting instructions for autocomplete widget

Name	Type	Description
suffix	string	Suffix to be displayed after the options value

## Link Object

Name	Type	Description
rel	string	Type of link
href	string	The hyperlink the client should follow is stored in the value of this property
title	string	Display name of the link

## Examples

### jQuery

```
var settings = {
  "url": "https://api.autoaddress.com/3.0/autocomplete?address=YOUR_ADDRESS&token=YOUR_TOKEN",
  "method": "GET",
  "timeout": 0,
};

$.ajax(settings).done(function (response) {
  console.log(response);
});
```

### Ruby

```
require "uri"
require "net/http"

url = URI("https://api.autoaddress.com/3.0/autocomplete?address=YOUR_ADDRESS&token=YOUR_TOKEN")

https = Net::HTTP.new(url.host, url.port)
https.use_ssl = true

request = Net::HTTP::Get.new(url)
request["User-Agent"] = "Ruby application"

response = https.request(request)
puts response.read_body
```

### Python

```
import requests

url = "https://api.autoaddress.com/3.0/autocomplete?address=YOUR_ADDRESS&token=YOUR_TOKEN"
payload = {}
headers = {
    'User-Agent': 'Python application'
}

response = requests.request("GET", url, headers=headers, data=payload)
print(response.text)
```

## C#

```
var client = new HttpClient();
var request = new HttpRequestMessage(HttpMethod.Get, "https://api.autoaddress.com/3.0/autocomplete?address=YOUR_ADDRESS&token=YOUR_TOKEN");
request.Headers.Add("User-Agent", ".NET application");
var response = await client.SendAsync(request);
response.EnsureSuccessStatusCode();
Console.WriteLine(await response.Content.ReadAsStringAsync());
```

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