

# Drilldown

07/25/2024 4:28 am EDT

## Overview

The Drilldown endpoint is used to retrieve further addresses that are contained in an area such as a building or street.

Please read [API Overview](#) first.

## API Endpoint

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

## Request



Please note: It is not possible to construct your own Drilldown requests. Attempts to use a manually constructed Drilldown request will result in a HTTP error.

## Input Fields

Name	Type	Description
token*	string	Access token from Create Token endpoint
sig*	string	Signature returned from previous API call
aa3id*	string	Autoaddress ID for the Drilldown
address*	string	Address to search
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 Field

The following is an example cURL Drilldown call.

```
curl --location 'https://api.autoaddress.com/3.0/drilldown?aa3id=AA3_ID&address=YOUR_ADDRESS&token=YOUR_TOKEN&sig=SIGNATURE'\--header 'Accept-Language: en'<br>
```

## Response

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

```
{
  "type": "drilldown",
  "message": {
    "id": "3100
```

```
    "id": 3100,
    "language": "en",
    "value": "Select an option below"
  },
  "options": [
    {
      "value": "< DUBLIN AIRPORT BUSINESS PARK, SWORDS ROAD, DUBLIN 9",
      "link": {
        "rel": "autocomplete",
        "href": "https://api.autoaddress.com/3.0/autocomplete?address=Dublin&token=fvBby7sc9D%20oGwJKa6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1Vmb0VXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D",
        "title": "< DUBLIN AIRPORT BUSINESS PARK, SWORDS ROAD, DUBLIN 9"
      }
    },
    {
      "format": {
        "highlights": [
          0,
          1
        ],
        "lineBreaks": []
      },
      "suffix": ""
    },
    {
      "value": "BUSINESS NAMES A - Z",
      "link": {
        "rel": "drilldown",
        "href": "https://api.autoaddress.com/3.0/drilldown?aa3Id=IE05457e65-9978-458c-98a2-f3488f7232fa*1_Latn_en_V&address=Dublin&token=fvBby7sc9D%20oGwJKa6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1Vmb0VXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig=591cb528d01778255aa430fae4540655",
        "title": "BUSINESS NAMES A - Z"
      }
    },
    {
      "format": {
        "highlights": [
          0,
          20
        ],
        "lineBreaks": []
      },
      "suffix": "8 Addresses"
    },
    {
      "value": "Dublin Airport Business Park, Swords Road, Dublin 9",
      "link": {
        "rel": "lookup",
        "href": "https://api.autoaddress.com/3.0/lookup?aa3Id=IE1900359573_Latn_en_V&token=fvBby7sc9D%20oGwJKa6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1Vmb0VXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig=5d35f293bdcebb33298b44b3e95130af",
        "title": "Dublin Airport Business Park, Swords Road, Dublin 9"
      }
    },
    {
      "format": {
        "highlights": [
          0,
          28
        ],
        "lineBreaks": []
      },
      "suffix": ""
    },
    {
      "value": "TEMPLE RECRUITMENT, Unit 101A, Block A, Dublin Airport Business Park, Swords Road, Dublin 9",
      "link": {
        "rel": "lookup",
        "href": "https://api.autoaddress.com/3.0/lookup?aa3Id=IE1900166311_Latn_en_V&token=fvBby7sc9D%20oGwJKa6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1Vmb0VXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig"
      }
    }
  ]
}
```

=8a5fce482b42382f65c301b64ce665b5",

```
  "title": "TEMPLE RECRUITMENT, Unit 101A, Block A, Dublin Airport Business Park, Swords Road, Dublin 9"
},
"format": {
  "highlights": [
    19,
    29
  ],
  "lineBreaks": [
    18,
    20
  ]
},
"suffix": ""
},
{
  "value": "CONGLOM INTERNATIONAL LIMITED, Unit 101B, Block A, Dublin Airport Business Park, Swords Road,
Dublin 9",
  "link": {
    "rel": "lookup",
    "href": "https://api.autoaddress.com/3.0/lookup?aa3Id=IE1900334563_Latn_en_V&token=fvBby7sc9D%20o
GwJKa6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1Vmb0VXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig
=6b1b3a3e69020434c2bc9d44ea410af2",
    "title": "CONGLOM INTERNATIONAL LIMITED, Unit 101B, Block A, Dublin Airport Business Park, Swords Road,
Dublin 9"
  },
  "format": {
    "highlights": [
      30,
      40
    ],
    "lineBreaks": [
      29,
      31
    ]
  },
  "suffix": ""
},
{
  "value": "ZKTECO IRELAND LIMITED, Unit 102, Block A, Dublin Airport Business Park, Swords Road, Dublin 9",
  "link": {
    "rel": "lookup",
    "href": "https://api.autoaddress.com/3.0/lookup?aa3Id=IE1900166312_Latn_en_V&token=fvBby7sc9D%20o
GwJKa6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1Vmb0VXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig
=b09f020b0741b178cdf691749b7c6c5f",
    "title": "ZKTECO IRELAND LIMITED, Unit 102, Block A, Dublin Airport Business Park, Swords Road, Dublin 9"
  },
  "format": {
    "highlights": [
      23,
      32
    ],
    "lineBreaks": [
      22,
      24
    ]
  },
  "suffix": ""
},
{
  "value": "TRAVEL MANAGEMENT INTERNATIONAL LIMITED, Unit 103/104, Block A, Dublin Airport Business Park,
Swords Road, Dublin 9",
  "link": {
    "rel": "lookup",
```

```
"href": "https://api.autoaddress.com/3.0/lookup?aa3Id=IE1900166313_Latn_en_V&token=fvBby7sc9D%20oGwJka6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1VmboVXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig=79023f65b6c1ceb00f169949d0fd2e92",
"title": "TRAVEL MANAGEMENT INTERNATIONAL LIMITED, Unit 103/104, Block A, Dublin Airport Business Park, Swords Road, Dublin 9"
},
"format": {
  "highlights": [
    40,
    53
  ],
  "lineBreaks": [
    39,
    41
  ]
},
"suffix": ""
},
{
  "value": "FORWARD DESIGN COMPANY LIMITED, Unit 105, Block A, Dublin Airport Business Park, Swords Road, Dublin 9",
  "link": {
    "rel": "lookup",
    "href": "https://api.autoaddress.com/3.0/lookup?aa3Id=IE1900166314_Latn_en_V&token=fvBby7sc9D%20oGwJka6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1VmboVXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig=d5b6a7cda77da7b947a1ae149b81cf8e",
    "title": "FORWARD DESIGN COMPANY LIMITED, Unit 105, Block A, Dublin Airport Business Park, Swords Road, Dublin 9"
  },
  "format": {
    "highlights": [
      31,
      40
    ],
    "lineBreaks": [
      30,
      32
    ]
  },
  "suffix": ""
},
{
  "value": "GLOBAL FORWARDING, Unit 106, Block A, Dublin Airport Business Park, Swords Road, Dublin 9",
  "link": {
    "rel": "lookup",
    "href": "https://api.autoaddress.com/3.0/lookup?aa3Id=IE1900166315_Latn_en_V&token=fvBby7sc9D%20oGwJka6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1VmboVXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig=639ee6ca7fa798c4de3f4e160ce07b24",
    "title": "GLOBAL FORWARDING, Unit 106, Block A, Dublin Airport Business Park, Swords Road, Dublin 9"
  },
  "format": {
    "highlights": [
      18,
      27
    ],
    "lineBreaks": [
      17,
      19
    ]
  },
  "suffix": ""
},
{
  "value": "ARENA CAPITAL PARTNERS LIMITED, Unit 107, Block A, Dublin Airport Business Park, Swords Road, Du
```

```
blin 9",
  "link": {
    "rel": "lookup",
    "href": "https://api.autoaddress.com/3.0/lookup?aa3Id=IE1900361007_Latn_en_V&token=fvBby7sc9D%20o
GwJKa6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1Vmb0VXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig
=137d61852d8be82061b3db138bc769ca",
    "title": "ARENA CAPITAL PARTNERS LIMITED, Unit 107, Block A, Dublin Airport Business Park, Swords Road, D
ublin 9"
  },
  "format": {
    "highlights": [
      31,
      40
    ],
    "lineBreaks": [
      30,
      32
    ]
  },
  "suffix": ""
},
{
  "value": "ARENA FINANCIAL SERVICES, Unit 108, Block A, Dublin Airport Business Park, Swords Road, Dublin 9",
  "link": {
    "rel": "lookup",
    "href": "https://api.autoaddress.com/3.0/lookup?aa3Id=IE1900166316_Latn_en_V&token=fvBby7sc9D%20o
GwJKa6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1Vmb0VXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig
=3584a1a86c44a99f3161a000ae7ca671",
    "title": "ARENA FINANCIAL SERVICES, Unit 108, Block A, Dublin Airport Business Park, Swords Road, Dublin 9
"
  },
  "format": {
    "highlights": [
      25,
      34
    ],
    "lineBreaks": [
      24,
      26
    ]
  },
  "suffix": ""
},
{
  "value": "Unit 109, Block A, Dublin Airport Business Park, Swords Road, Dublin 9",
  "link": {
    "rel": "lookup",
    "href": "https://api.autoaddress.com/3.0/lookup?aa3Id=IE1900166318_Latn_en_V&token=fvBby7sc9D%20o
GwJKa6f83sMca6oNynj2ehtH5P%2FmQpHfFpqemQ%20Ge17P1Vmb0VXUauDn07Z8MjLx4%2FZBhW0wQ%3D%3D&sig
=c5ac4d1fcfc95ed68bad4f33af3eca5d",
    "title": "Unit 109, Block A, Dublin Airport Business Park, Swords Road, Dublin 9"
  },
  "format": {
    "highlights": [
      0,
      8
    ],
    "lineBreaks": []
  },
  "suffix": ""
}
],
"links": [
  {
```

```

    "rel": "self",
    "href": "https://api.autoaddress.com:443/3.0/drilldown?aa3Id=IE05457e65-9978-458c-98a2-f3488f7232fa_Latn_en_V&address=Dublin&sig=d9430edbe44c93053b3bd9c66712fe93&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 (described below)
options	Option[]	An array of Option objects (described below)
links	Link[]	An array of Link objects (described 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 (described below)
format	Format	Formatting instructions for autocomplete widget
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/drilldown?aa3Id=AA3_ID&address=YOUR_ADDRESS&token=Y
OUR_TOKEN&sig=SIGNATURE",
"method": "GET",
"timeout": 0,
"headers": {
  "Accept-Language": "en" },
};

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

## Ruby

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

url = URI("https://api.autoaddress.com/3.0/drilldown?aa3Id=AA3_ID&address=YOUR_ADDRESS&token=YOUR_TOKEN
&sig=SIGNATURE")

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

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

response = https.request(request)
puts response.read_body
<br>
```

## Python

```
import requests

url = "https://api.autoaddress.com/3.0/drilldown?aa3Id=AA3_ID&address=YOUR_ADDRESS&token=YOUR_TOKEN&sig
=SIGNATURE"

payload = {}
headers = {
  'Accept-Language': 'en'
  '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/drilldown?aa3Id=AA3_ID&
address=YOUR_ADDRESS&token=YOUR_TOKEN&sig=SIGNATURE");
request.Headers.Add("Accept-Language", "en");
request.Headers.Add("User-Agent", ".NET application");
var response = await client.SendAsync(request);
response.EnsureSuccessStatusCode();
Console.WriteLine(await response.Content.ReadAsStringAsync());
```

---