



OneMap Workshop

(26/08/2025)

AGENDA

- Registration/Password Reset
- Basemap
- Authentication
- Search
- Reverse Geocode
- Nearest BusStop/MRT
- Call Rate Limit



<https://www.onemap.gov.sg/apidocs/registerconfirm>

A Singapore Government Agency Website

[How to identify](#)

IMPORTANT: From 01 October 2025, Search API access will require token-based authentication. [Register your token now to ensure uninterrupted service.](#)

One
map

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Verify Confirmation Code
Forget Password

Your password must be 12 to 60 characters long. It must fulfil at least 3 out of the 4 conditions below

- a. 1 lower character(s)
- b. 1 upper character(s)
- c. 1 number(s)
- d. 1 special character(s)
(accepted special characters are !#\$%&()*~.-_@^ and NO whitespaces)

Email

Confirmation Code ⓘ
Q2SKY0P3LPKW7KA6ALKSGEUIML8EOZUI

Password

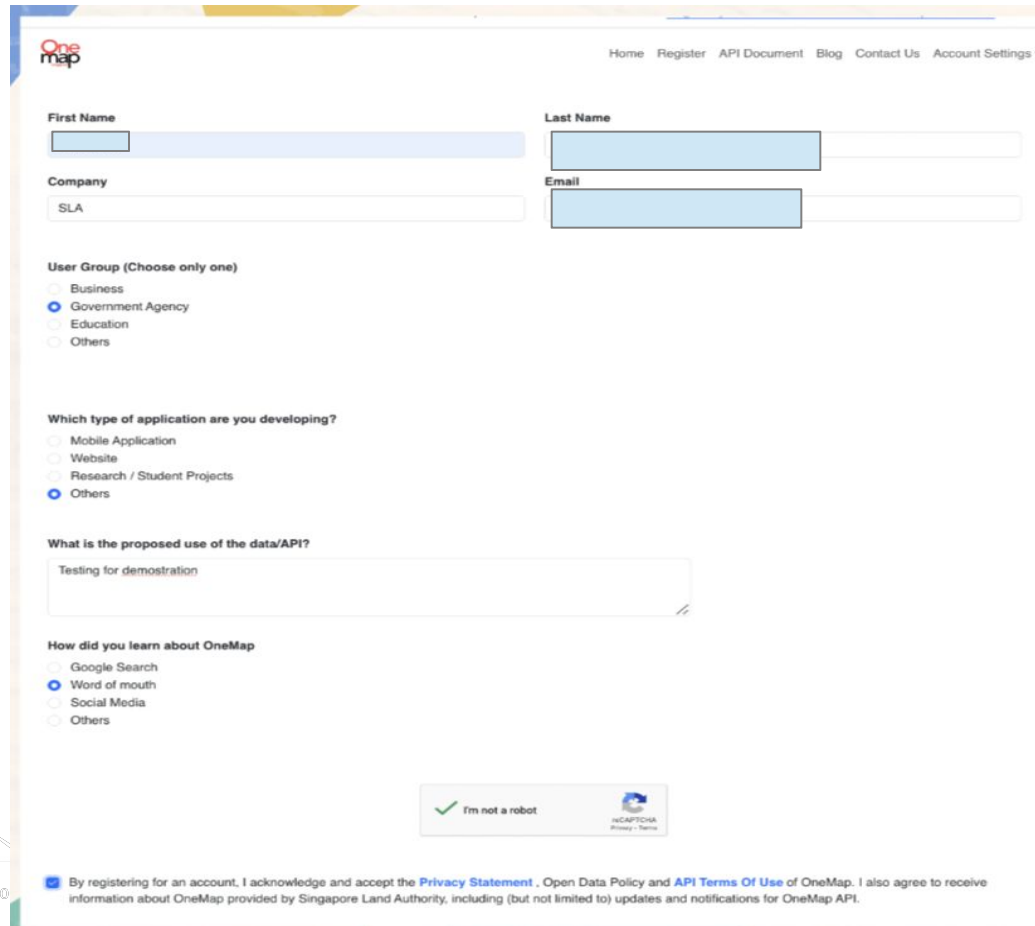
Confirm Password

✓ I'm not a robot

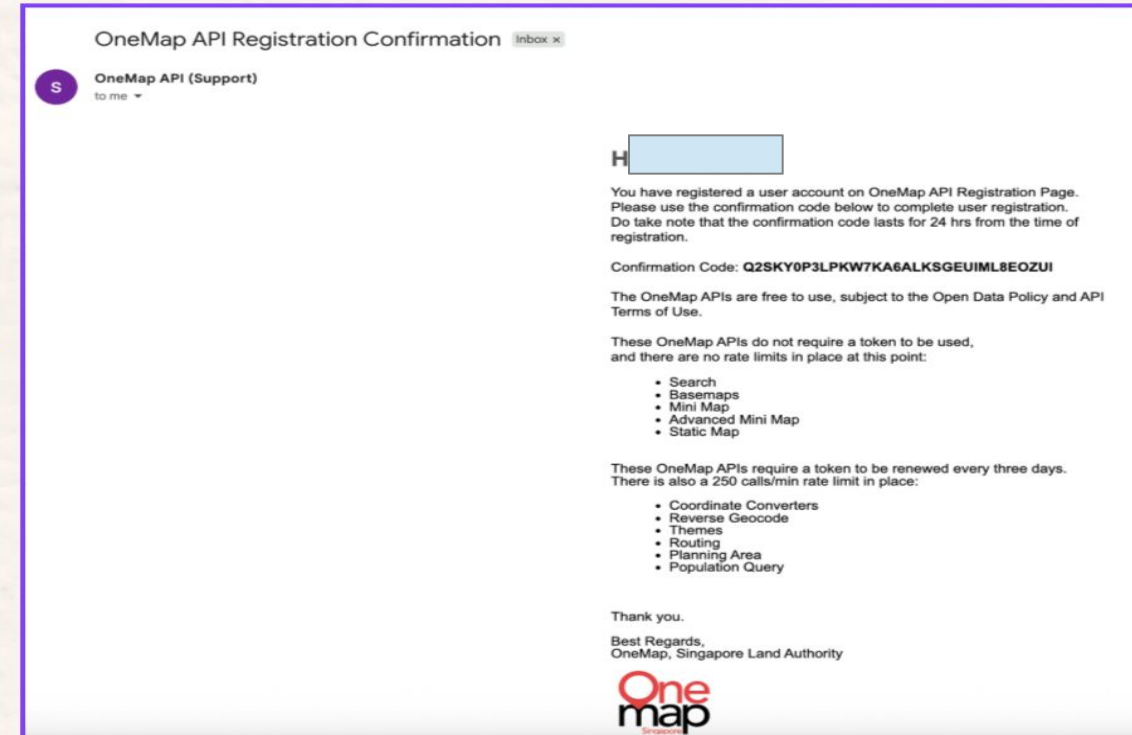
reCAPTCHA
[Privacy](#) - [Terms](#)

Register

<https://www.onemap.gov.sg/apidocs/register>



The registration form includes fields for First Name, Last Name, Company, and Email. It also features a User Group selection (Business, Government Agency, Education, Others) and a section for the type of application being developed (Mobile Application, Website, Research / Student Projects, Others). A text area for the proposed use of the data/API is provided, with 'Testing for demonstration' entered. The form also asks how the user learned about OneMap (Google Search, Word of mouth, Social Media, Others) and includes a CAPTCHA and a checkbox for accepting the Privacy Statement, Open Data Policy, and API Terms Of Use.

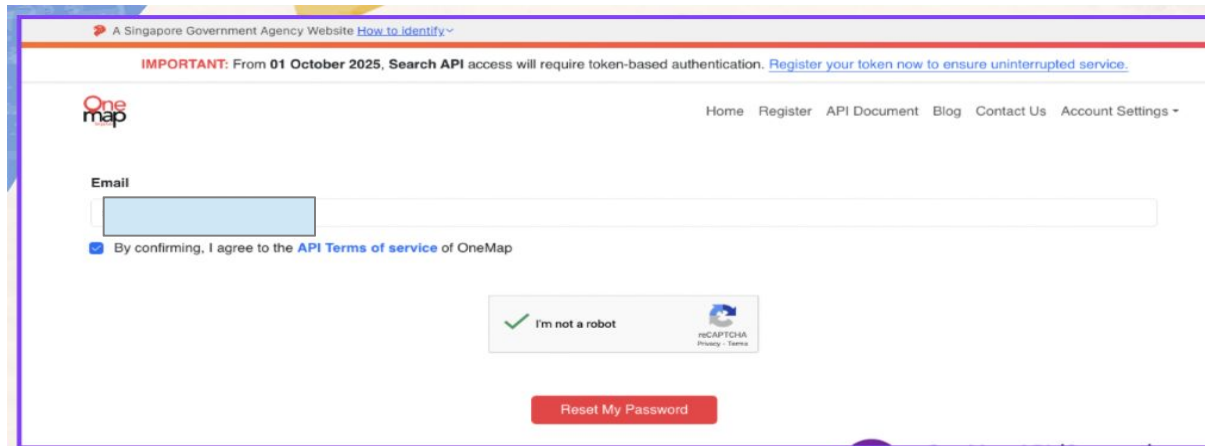


The confirmation email is titled 'OneMap API Registration Confirmation' and is from 'OneMap API (Support)'. It contains a confirmation code: **Q2SKY0P3LPKW7KA6ALKSGEUIL8EOZUI**. The email also lists the services available for free use, including Search, Basemaps, Mini Map, Advanced Mini Map, Static Map, Coordinate Converters, Reverse Geocode, Themes, Routing, Planning Area, and Population Query. It mentions that the APIs require a token to be renewed every three days and have a 250 calls/min rate limit. The email concludes with a thank you and the signature of OneMap, Singapore Land Authority.

Confirmation Code is available for 24 hrs

Forgot Password

<https://www.onemap.gov.sg/apidocs/forgetpassword>



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OneMap

Home Register API Document Blog Contact Us Account Settings

Email

☒ By confirming, I agree to the [API Terms of service](#) of OneMap

☒ I'm not a robot

Reset My Password

Confirmation Code
is available for 24 hrs

Good day! You have requested a password change.

Please use the confirmation code below to complete the password reset.

Confirmation Code: **8MR64XFBRTDDYF1IIS2QFIMACQPXMBO**

Best Regards,
OneMap, Singapore Land Authority



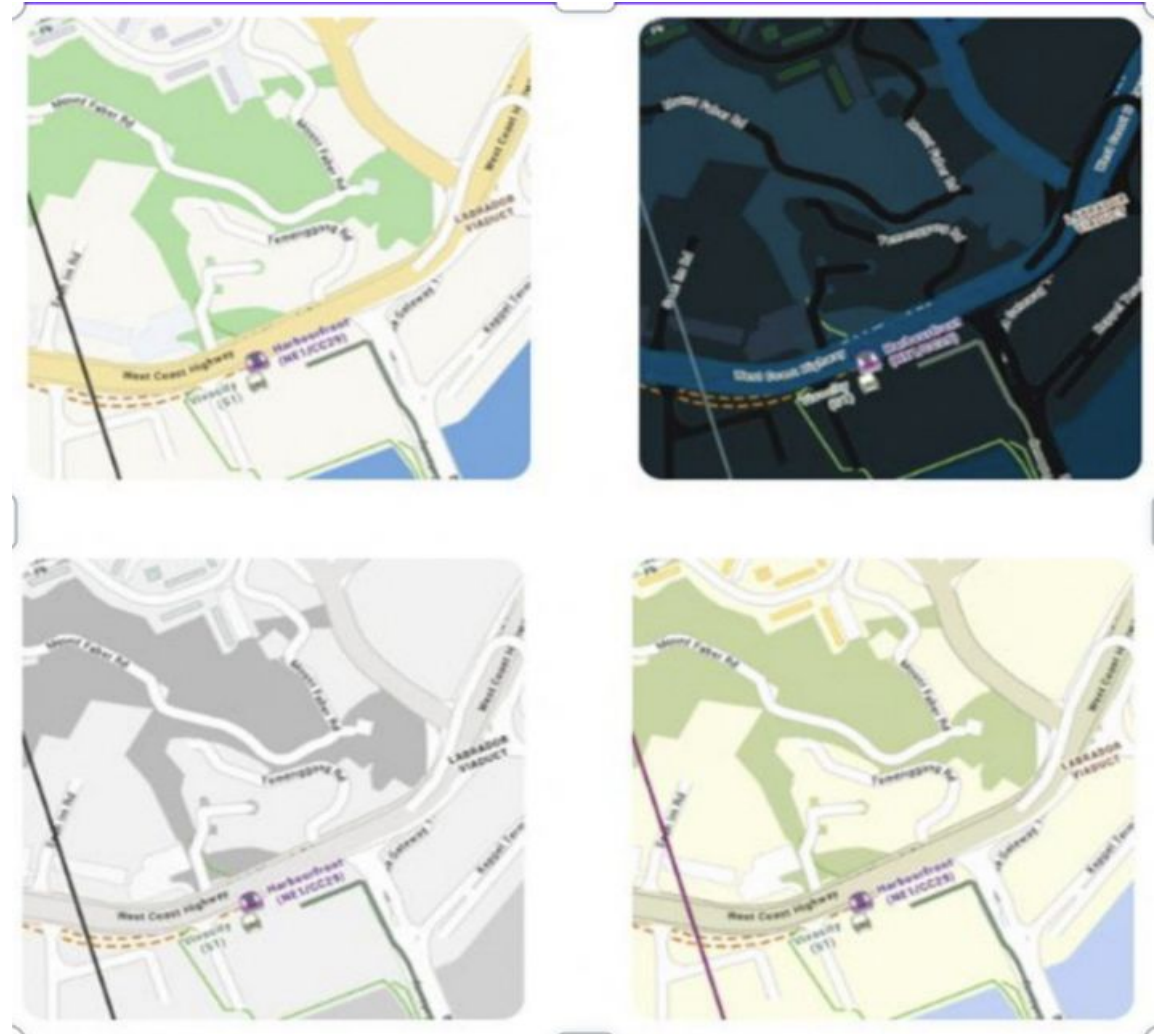
The image shows a web page titled "Password Reset Successful!". At the top, there is a navigation bar with links: Home, Register, API Document, Blog, Contact Us, and Account Settings. Below the navigation bar, a red location pin icon is centered. The main heading "Password Reset Successful!" is displayed in a large, bold, black font. Underneath the heading, there is a white box with a thin border. Inside this box, on the left, is the label "Access Token" and on the right is a "Copy" button. The access token itself is a long, multi-line string of alphanumeric characters. Below the token box, it says "Token expires on: Thu Aug 28 2025". At the very bottom of the page, there is a red button with the text "Back To Home".

BASEMAP



Map Styles

- Default
- Original
- Grey
- GreyLite
- Night
- LandLot



<https://www.onemap.gov.sg/apidocs/docs/jwttokenupdate>

- POST

https://www.onemap.gov.sg/api/auth/post/getToken

Send

Params

Authorization

Headers (9)

Body

Scripts

Settings

☐ none

☐ form-data

☐ x-www-form-urlencoded

☒ raw

☐ binary

☐ GraphQL

JSON

Cookies

Beautify
- ```
1 {
2 "email": "
3 "password": "
4 }
```
- Body

Cookies (1)

Headers (24)

Test Results
- 200 OK

130 ms

2.32 KB

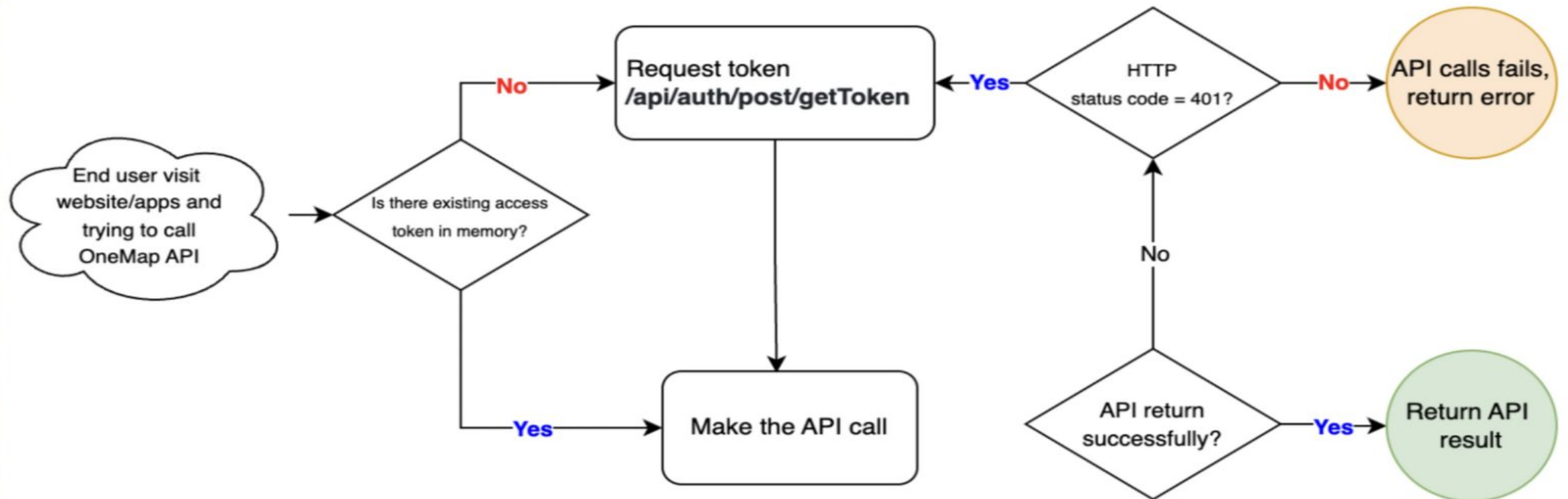
Save Response
- { } JSON

Preview

Visualize
- ```
1 {  
2   "access_token": "eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCJ9.  
    eyJ1c2VybmVudDNDUzLCJmb3JldmVyaWpmYXZzZWiaXNziJoit25lTWFWIiwiaWF0IjoxNzU2MTMzMDI4LClJuYmYiOjE3NT  
    YxMzMwMjgsImV4cCI6MTc1NmM5MjIyOzwianRpIjoimjIxZTdkaTAtNjkzMjU0ZjUwLWE5ZDYtNzU5MDNkMmU0NjJlLn0.  
    pikaFstiJ5t-Uz8jpegek5bY0ZRNYVpMLGccXk0mXDnEq79M3Zr3xp_XlpSpywgXp00saAy0ai1Bn8tzkeqJmzAtn02wqkFa5u  
    sp56MZR9anTPSZ4aAic-aLwLGgPk5a_zC_7dwGPpqcmJou_V4HFIfCZapd00Z5e8zOUZ-n9ssCxAMQ2E6LWg0JmJyMoPExEqnw  
    IOJ7U8oqjToBj_-UR0cRnuKVMicUxYx1XfX8AAhCTRR11-GMBDv_Nu6hgy1abhtgmJpUrrZ5XKYxtjqP5yGEPGaXntYBE9nPpz  
    n9RHHS01jsh_jtJrxQ_e9Ejw9KJ90JgM0Sn1dE4g5ETCsWbw",  
3   "expiry_timestamp": "1756392228"  
4 }
```

AUTHENTICATION

<https://www.onemap.gov.sg/apidocs/docs/tokenmanagement>



SEARCH



<https://www.onemap.gov.sg/apidocs/search>

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IMPORTANT: From **01 October 2025**, **Search API** access will require token-based authentication. [Register your token now to ensure uninterrupted service.](#)



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How to verify on-boarding Tokenised Search

- **Missing Token** (Token is yet to be passed in requesting header.)
- **Expired Token** (Token is passed but has already expired.)
- **Invalid Token** (JWT Token is not a valid OneMap Token.)

MISSING TOKEN

“Authentication token missing. Please create an account and generate or renew your API Token.”

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** `https://www.onemap.gov.sg/api/common/elastic/search?searchVal=347740&returnGeom=Y&getAd...`
- Authorization:** Set to "Inherit auth from pare..."
- Status:** 200 OK (136 ms, 2.27 KB)
- Response Body (JSON):**

```
{
  "error": "Authentication token missing. Please create an account and generate or renew your API Token.",
  "found": 1,
  "totalNumPages": 1,
  "pageNum": 1,
  "results": [
    {
      "SEARCHVAL": "RUBY INDUSTRIAL COMPLEX",
      "BLK_NO": "35",

```

EXPIRED TOKEN

“Authentication token expired. Token are valid for 3 days. Please implement automatic renewal to ensure your token remains valid.”

The screenshot shows a REST client interface. The top bar displays the method **GET** and the URL `https://www.onemap.gov.sg/api/common/elastic/search?searchVal=347740&returnGeom=Y&getAd...`. A **Send** button is on the right. Below the URL bar, tabs for **Params**, **Authorization**, **Headers (8)**, **Body**, **Scripts**, and **Settings** are visible. The **Authorization** tab is active, showing **Auth Type** as **Bearer Token** and a **Token** field with a masked value. A note states: "The authorization header will be automatically generated when you send the request. Learn more". The bottom section shows the **Body** tab with a **200 OK** status, a response time of 148 ms, and a size of 2.31 KB. The response body is in **JSON** format and contains the following data:

```
{
  "error": "Authentication token expired. Token is valid for 3 days. Please implement automatic renewal to ensure your token remains valid.",
  "found": 1,
  "totalNumPages": 1,
  "pageNum": 1,
  "results": [
    {
      "SEARCHVAL": "RUBY INDUSTRIAL COMPLEX",
      "BLK_NO": "35",
    }
  ]
}
```

INVALID TOKEN

“Invalid authentication token. Please register for an account and provide a valid API token.”

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** `https://www.onemap.gov.sg/api/common/elastic/search?searchVal=347740&returnGeom=Y&getAd...`
- Authorization:** Bearer Token
- Token:** `{{prod_private_token}}`
- Response:** 200 OK, 217 ms, 2.27 KB
- JSON Body:**

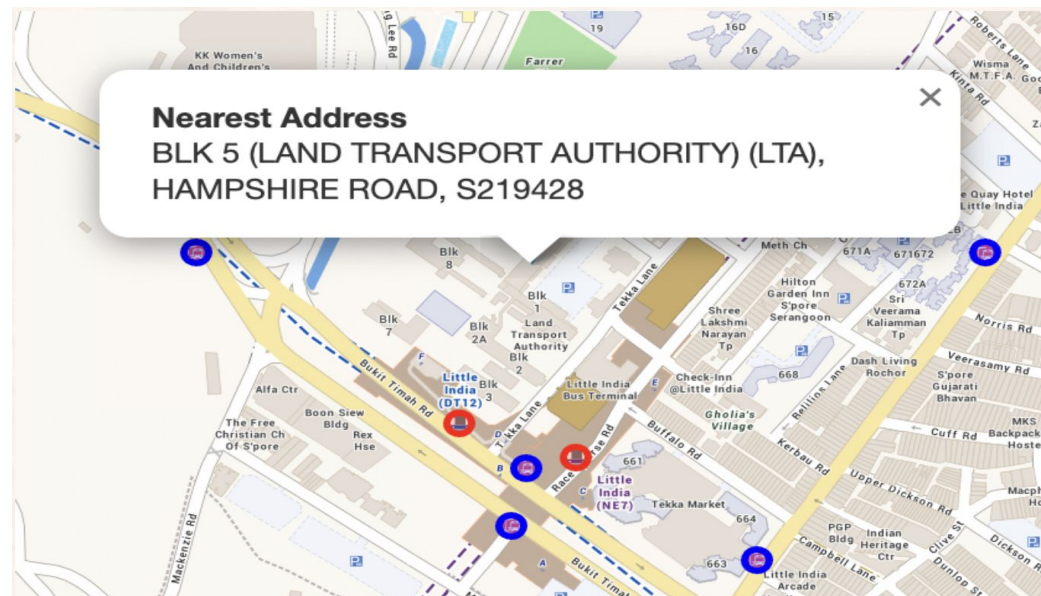
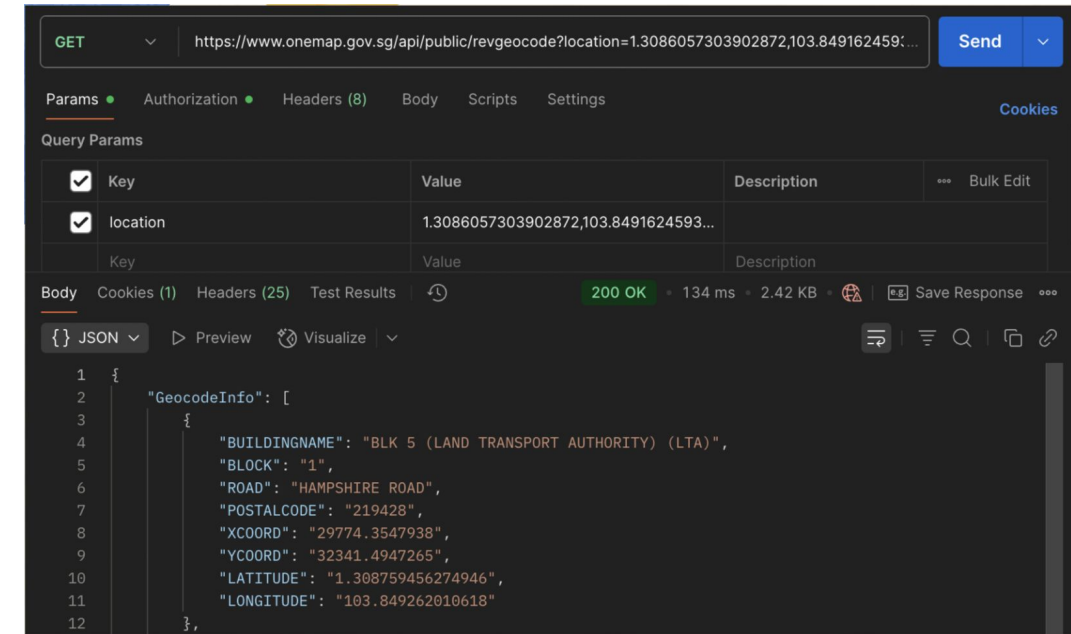
```
1 {
2   "error": "Invalid authentication token. Please register for an account and provide a valid API token.",
3   "found": 1,
4   "totalNumPages": 1,
5   "pageNum": 1,
6   "results": [
7     {
8       "SEARCHVAL": "RUBY INDUSTRIAL COMPLEX",
9       "BLK NO": "35",
```

REVERSE GEOCODE



Translates Coordinates to Address.

- location (latitude,longitude)
- addressType [optional]
- buffer (0 to 500m) [optional]



NEARBY

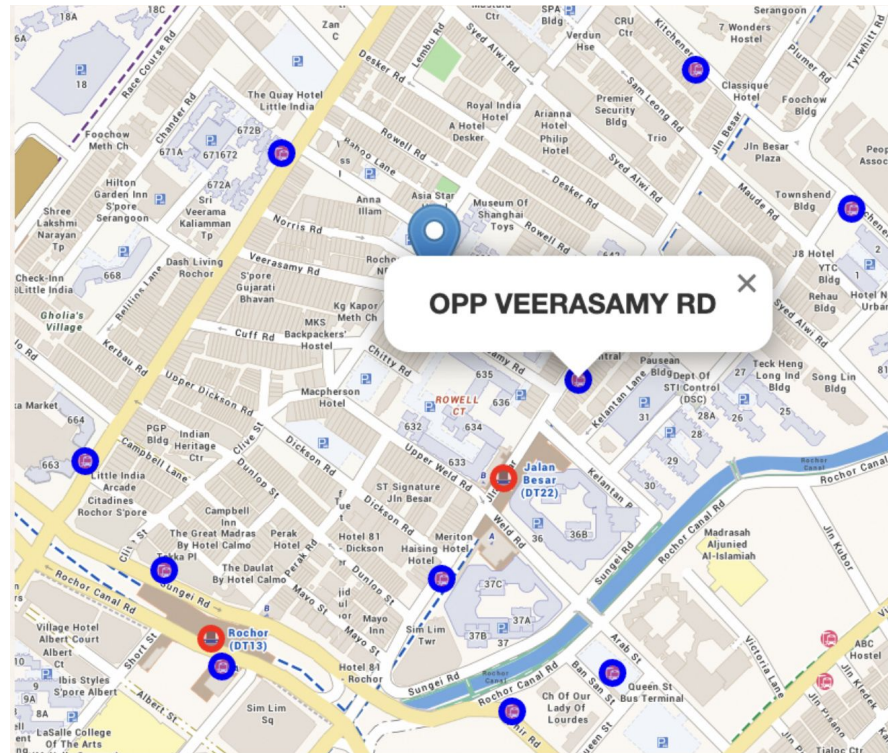


Get nearest **Bus Stops**.

latitude

longitude

radius_in_meters
(0 to 5000m) [optional]



GET <https://www.onemap.gov.sg/api/public/nearbysvc/getNearestBusStops?latitude=1.30743547948389&longitu...> Send

Params • Authorization • Headers (8) Body Scripts Settings Cookies

Query Params

☒ Key	Value	Description	...	Bulk Edit
☒ latitude	1.30743547948389			
☒ longitude	103.854713903431			
☒ radius_in_meters	500	optional, default is 2000. Max 5000.		

Body Cookies (1) Headers (19) Test Results 200 OK • 205 ms • 2.47 KB Save Response

{ } JSON Preview Visualize

```
1 [
2   {
3     "id": "7419",
4     "name": "OPP VEERASAMY RD",
5     "lat": 1.30653024,
6     "lon": 103.85616302,
7     "road": "JLN BESAR"
8   },
9   {
10    "id": "7111",
11    "name": "BROADWAY HOTEL",
12    "lat": 1.30879366,
13    "lon": 103.85317519,
14    "road": "S'GOON RD"
15  },
16 ]
```

NEARBY

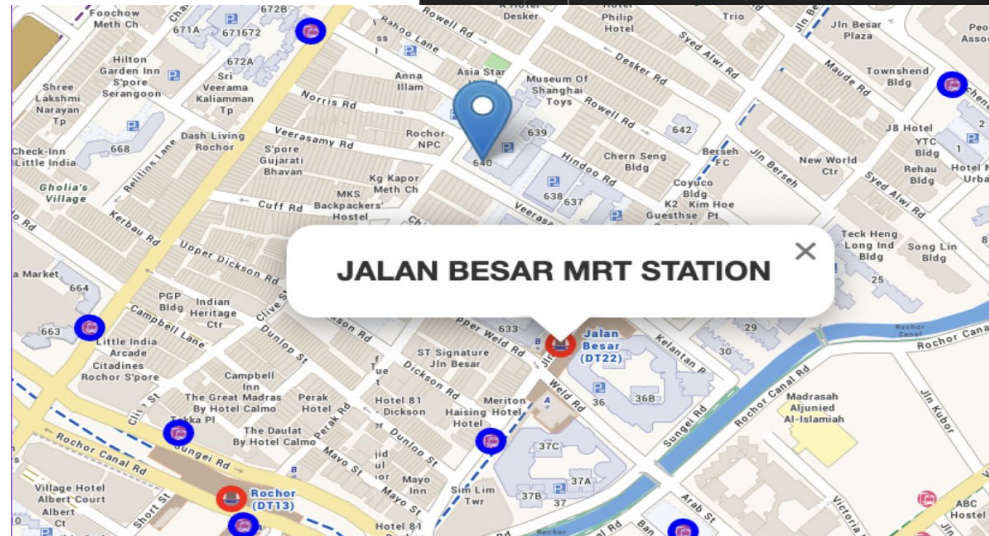
Get nearest MRT Stops.

- latitude
- longitude
- radius_in_meters
(0 to 5000m) [optional]

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** `https://www.onemap.gov.sg/api/public/nearbysvc/getNearestMrtStops?latitude=1.30743547948389&longitude=103.854713903431&radius_in_meters=500`
- Params:** latitude, longitude, radius_in_meters
- Body:** 200 OK, 233 ms, 1.48 KB
- Response (JSON):**

```
[{"id": "DT22", "name": "JALAN BESAR MRT STATION", "lat": 1.30553287743, "lon": 103.855412818, "road": "JALAN BESAR"}, {"id": "DT13",
```



CALL RATE LIMIT



Current Limit

250 calls per min

From 1st October 2025

300 calls per min

If you require a higher API call limit, kindly contact us at onemap@sla.gov.sg. Include details:

- name of application
- endpoints that you use
- expected traffic

Each request will be evaluated on a case-by-case basis

An aerial photograph of a city landscape. On the left, a dense cluster of multi-story residential or commercial buildings with reddish-brown roofs. To the right, a blue river flows through a lush green area with many trees. In the bottom right, there are railway tracks and a road. A stylized graphic element, consisting of a red and green L-shaped bar, is positioned to the left of the 'Q&A' text.

Q&A



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