

WHITE PAPER

API Keys

Eftsure inside Microsoft Dynamics 365 for F&O

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Introduction

This document describes the process required to register an API Key from either Map providers.

This document does not cover advanced API key management, restrictions and security. For advanced configuration, please refer to the vendor's documentation.

Each customer can decide to use either provider for their services.

2 main options can be configured in eftsure inside D365:

Maps

Places autocompletion

You can use any combination of providers for these separate services, although it is logical to use a single provider for all maps services.

At the time of writing, the following services are supported:

Bing Maps & Bing Suggestions

Google Maps & Google AutoComplete

Mapbox Maps

External mapping APIs

Most features are available for Bing Maps, Google Maps and Mapbox. The following documentation describes how to get an API key to use our services.

Bing Maps APIs

General

For Bing Maps, a single API key needs to be configured for the project and can achieve

For more information, please visit Microsoft site directly:

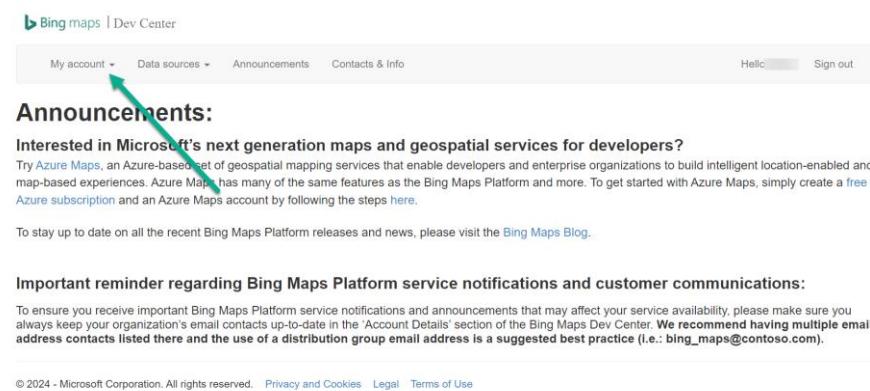
<https://learn.microsoft.com/en-us/bingmaps/getting-started/?redirectedfrom=MSDN>

<https://www.microsoft.com/en-us/maps/bing-maps/licensing>

Simple key creation

Go to Bing Maps Dev Center [<https://www.bingmapsportal.com/>]

Login with a Microsoft account.



Bing maps | Dev Center

My account ▾ Data sources ▾ Announcements Contacts & Info Hello Sign out

Announcements:

Interested in Microsoft's next generation maps and geospatial services for developers?

Try Azure Maps, an Azure-based set of geospatial mapping services that enable developers and enterprise organizations to build intelligent location-enabled and map-based experiences. Azure Maps has many of the same features as the Bing Maps Platform and more. To get started with Azure Maps, simply create a [free Azure subscription](#) and an Azure Maps account by following the steps [here](#).

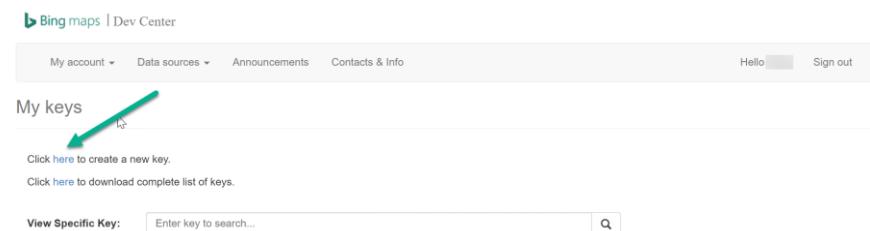
To stay up to date on all the recent Bing Maps Platform releases and news, please visit the [Bing Maps Blog](#).

Important reminder regarding Bing Maps Platform service notifications and customer communications:

To ensure you receive important Bing Maps Platform service notifications and announcements that may affect your service availability, please make sure you always keep your organization's email contacts up-to-date in the 'Account Details' section of the Bing Maps Dev Center. **We recommend having multiple email address contacts listed there and the use of a distribution group email address is a suggested best practice (I.e.: bing_maps@contoso.com).**

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Go to My account > My Keys > Create a new key



Bing maps | Dev Center

My account ▾ Data sources ▾ Announcements Contacts & Info Hello Sign out

My keys

Click [here](#) to create a new key.

Click [here](#) to download complete list of keys.

View Specific Key:

Enter Application name, Key type = Basic, Application type = Website, Create

My keys

Create key

Application name: eftsureInsideD365

Application URL: Enter application URL

Key type: Basic

Application type: Website

Create Cancel

Required field

New keys take about five minutes to take effect.

To create Education, Broadcast or Not-for-Profit keys, please contact the Bing Maps account team at mpnet@microsoft.com.

When the process completes, the following message is displayed:

My keys

Key created successfully. Please allow about five minutes for the key to become effective.

Click here to create a new key.

Click here to download complete list of keys.

After a few minutes, the following key will be displayed:

My keys

Key created successfully. Please allow about five minutes for the key to become effective.

Click here to create a new key.

Click here to download complete list of keys.

View Specific Key: Enter key to search...

Application name	Key details	Enable Preview for All Keys <input checked="" type="checkbox"/>
eftsureInsideD365	<p>Key: Show key</p> <p>Application URL:</p> <p>Key type: Basic / Website</p> <p>Created date: 02/12/2024</p> <p>Expiration date: None</p> <p>Key Status: Enabled</p> <p>Security Enabled: No</p>	<p><input type="button" value="Update"/></p> <p><input type="button" value="Copy Key"/></p> <p><input type="button" value="Usage Report"/></p> <p><input type="button" value="Enable Security"/></p> <p><input type="button" value="Enable Preview"/></p>

Click Show key, copy the key and paste it into D365 eftsure “Know Your Payee” parameters form.

NOTE: The same key can be used for Maps and Places.

Google Maps APIs

General

3 different APIs are used from Google Maps APIs and can be activated independently for different options.

For more information, please visit Google site directly:

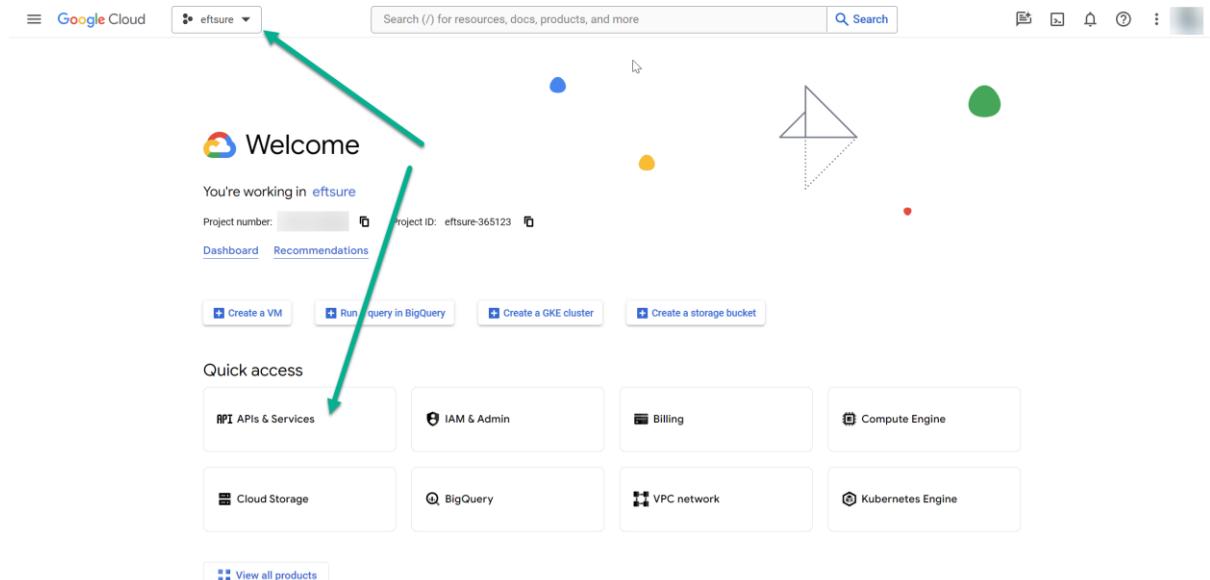
<https://developers.google.com/maps>

<https://developers.google.com/maps/billing-and-pricing/billing#dynamic-maps>

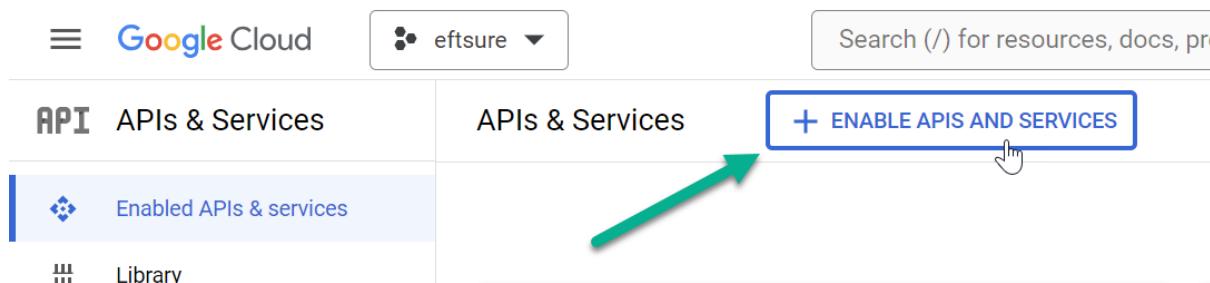
Simple key creation

Go to Google Cloud console <https://console.cloud.google.com/>

Login with a Google account, create or select an existing project to hold the API Key, and navigate to API & Services:



Select Enable APIs and services



Enable **Maps Javascript API** for Maps to allow displaying maps into the user interface - Optional

JS	Maps JavaScript API Google Add a map to your website, providing imagery and local data from the same source as Google Maps. Style the map to suit your needs. Visualize your own data on the map, bring the world to life with Street View, and use services like geocoding and directions.
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Enable **Places API** for Places to allow international address autocompletion - Optional



Places API

Google Enterprise API [?](#)

Get data from the same database used by Google Maps. Places features over 100 million businesses and points of interest that are updated frequently through owner-verified listings and user-moderated contributions. Place search Return a list of places based on a user's location or search string. Place details Return detailed information about a specific place, including user reviews. Place autocomplete can be used to...

Enable **Geocoding API** to allow converting addressing into geographic coordinates - Optional

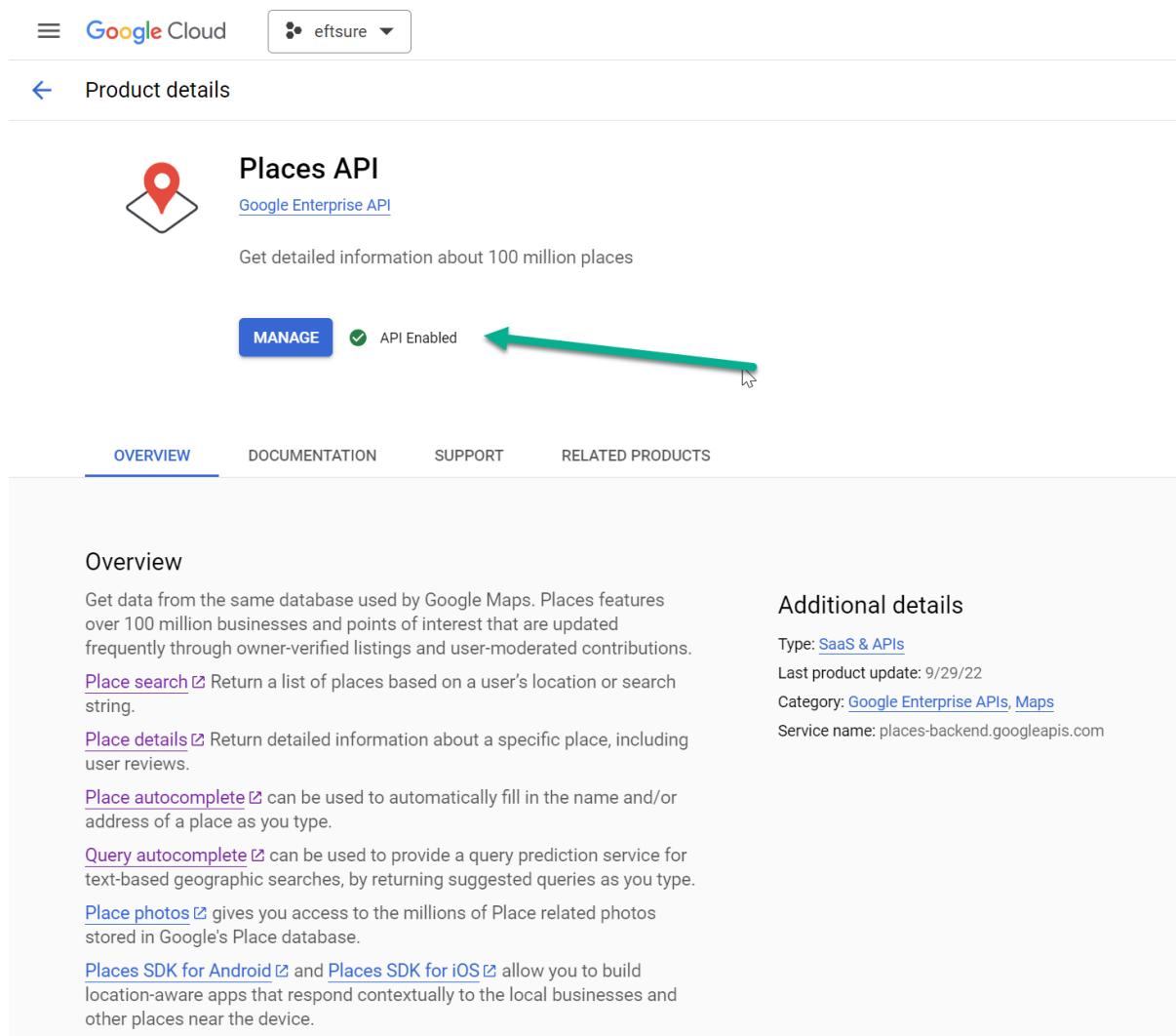


Geocoding API

Google Enterprise API [?](#)

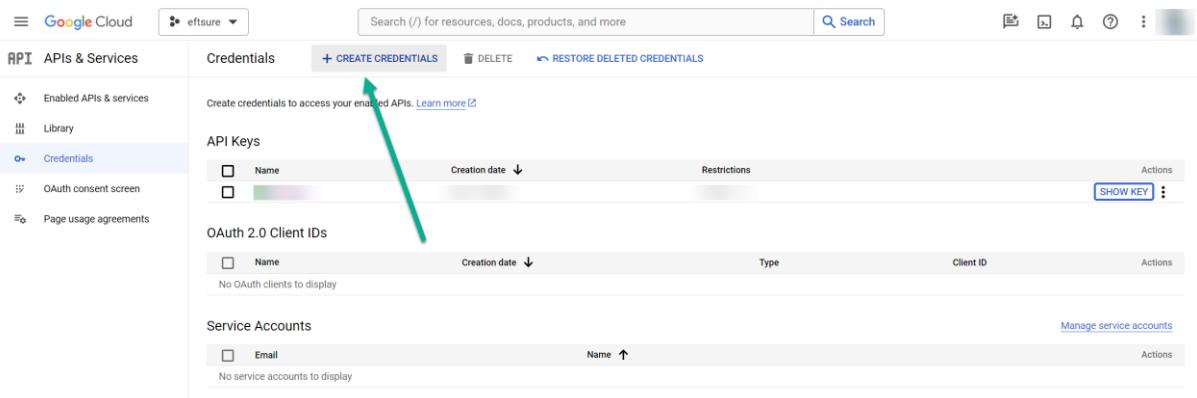
Convert addresses into geographic coordinates (geocoding), which you can use to place markers or position the map. This API also allows you to convert geographic coordinates into an address (reverse geocoding). 

Once enabled, the API will look like the following:



The screenshot shows the Google Cloud API product details page for the Places API. At the top, there is a navigation bar with the Google Cloud logo and a dropdown menu. Below the navigation bar, a back arrow and the text "Product details" are visible. The main content area features the "Places API" icon and title, followed by a brief description: "Get detailed information about 100 million places". Below this, there are two buttons: "MANAGE" and "API Enabled" (with a checkmark icon). A large green arrow points from the "API Enabled" button to the "API Enabled" status indicator. At the bottom of the page, there are tabs for "OVERVIEW" (which is selected), "DOCUMENTATION", "SUPPORT", and "RELATED PRODUCTS". The "OVERVIEW" section contains an "Overview" heading and a detailed description of the API's purpose and features, including links to "Place search", "Place details", "Place autocomplete", "Query autocomplete", "Place photos", and "Places SDK". The "Additional details" section on the right provides metadata: Type: SaaS & APIs, Last product update: 9/29/22, Category: Google Enterprise APIs, Maps, and Service name: places-backend.googleapis.com.

Go to Credentials and select Create Credentials:



Google Cloud eftsure Search (/) for resources, docs, products, and more

API APIs & Services Credentials + CREATE CREDENTIALS ⚡ DELETE RESTORE DELETED CREDENTIALS

Enabled APIs & services Library Credentials OAuth consent screen Page usage agreements

Create credentials to access your enabled APIs. Learn more ↗

API Keys

Name	Creation date	Restrictions	Actions
			Show key ⚡

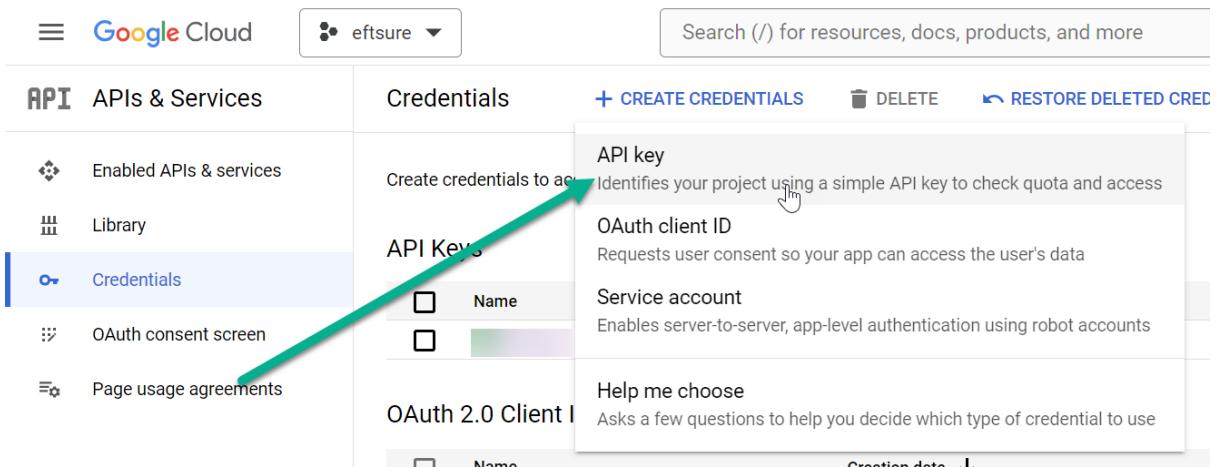
OAuth 2.0 Client IDs

Name	Creation date	Type	Client ID	Actions
				Manage service accounts

Service Accounts

Email	Name	Actions
		Manage service accounts

Select API Key:



Google Cloud eftsure Search (/) for resources, docs, products, and more

API APIs & Services Credentials + CREATE CREDENTIALS ⚡ DELETE RESTORE DELETED CREDENTIALS

Enabled APIs & services Library Credentials OAuth consent screen Page usage agreements

Create credentials to access your enabled APIs. Learn more ↗

API Keys

Name

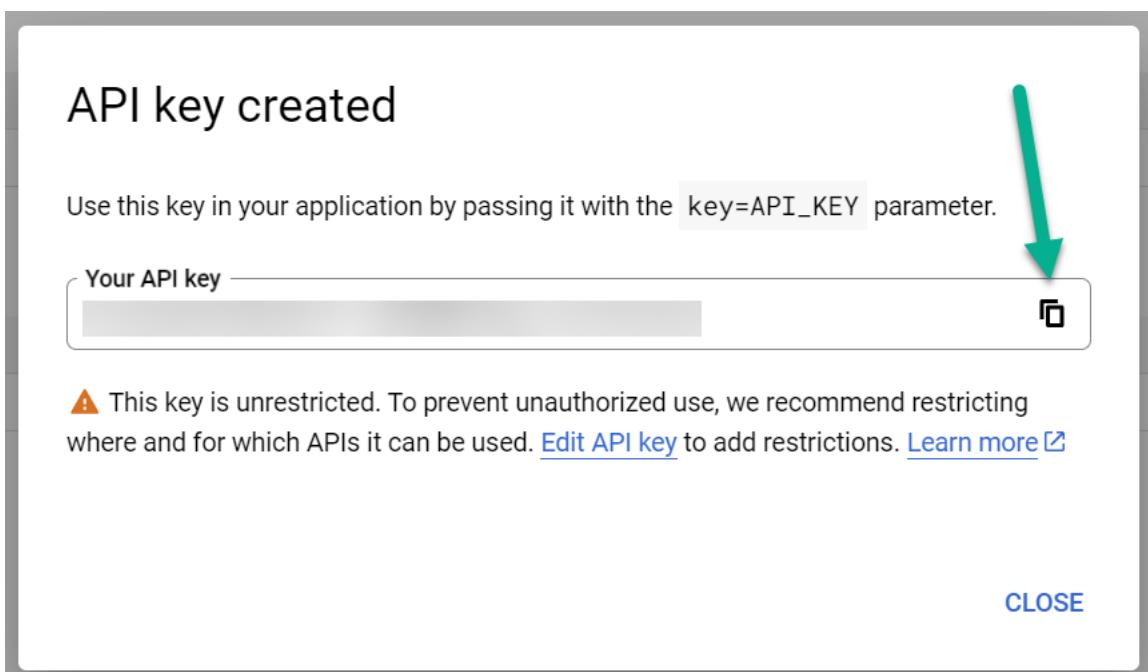
OAuth 2.0 Client IDs

Name

Service account

Help me choose

Once completed, the following screen will be displayed, use the copy button and paste it into D365 eftsure "Know Your Payee" parameters form.



API key created

Use this key in your application by passing it with the `key=API_KEY` parameter.

Your API key 

⚠ This key is unrestricted. To prevent unauthorized use, we recommend restricting where and for which APIs it can be used. [Edit API key](#) to add restrictions. [Learn more ↗](#)

CLOSE

Mapbox API

General

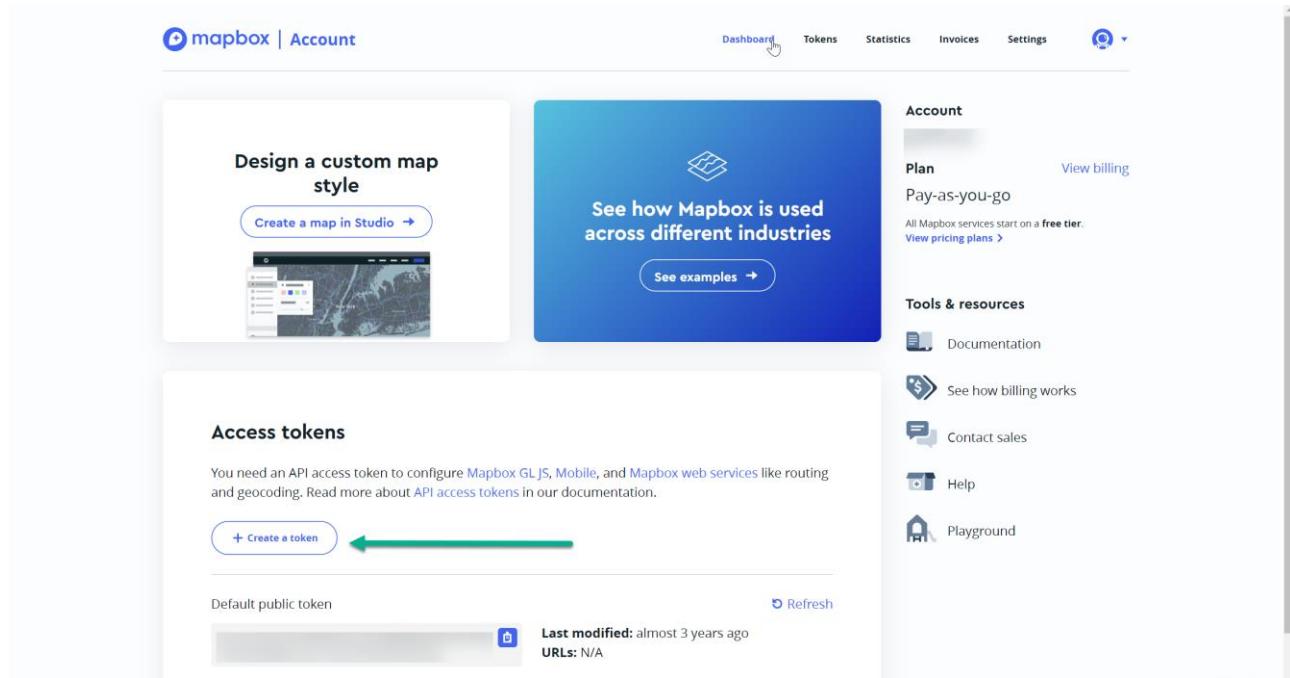
Mapbox is an American provider of custom online maps for websites and applications, currently allowed in China...

A simple API key is required for these options.

Simple key creation

Go to <https://account.mapbox.com/> and login with a mapbox account.

Select Create a token:



The screenshot shows the Mapbox Account dashboard. At the top, there are links for Dashboard, Tokens, Statistics, Invoices, and Settings. The main content area has two main sections: 'Design a custom map style' and 'See how Mapbox is used across different industries'. Below these, the 'Access tokens' section is visible. It contains a button labeled '+ Create a token' with a green arrow pointing to it. Below this button is a 'Default public token' section with a token ID, a refresh icon, and a 'Last modified' timestamp (almost 3 years ago). The right sidebar contains sections for 'Account' (Plan: Pay-as-you-go, View billing), 'Tools & resources' (Documentation, See how billing works, Contact sales, Help, Playground), and a 'View pricing plans' link.

Enter a token name and leave default values and select Create token:

mapbox | Account

Press F11 to exit full screen

Dashboard Tokens Statistics Invoices Settings

Back to all access tokens

Create an access token

Token name
Choose a name to help associate it with a project.

Name 0 / 128

Token scopes
All tokens, regardless of the scopes included, are able to view styles, tilesets, and geocode locations for the token's owner. [Learn more.](#)

Public scopes

<input checked="" type="checkbox"/> STYLES:LIST	<input checked="" type="checkbox"/> STYLES:READ	<input checked="" type="checkbox"/> FONTS:READ	<input checked="" type="checkbox"/> DATASETS:READ
<input checked="" type="checkbox"/> VISION:READ			

Secret scopes

<input type="checkbox"/> SCOPES:LIST	<input type="checkbox"/> MAP:READ	<input type="checkbox"/> MAP:WRITE	<input type="checkbox"/> USER:READ
<input type="checkbox"/> USER:WRITE	<input type="checkbox"/> UPLOADS:READ	<input type="checkbox"/> UPLOADS:LIST	<input type="checkbox"/> UPLOADS:WRITE
<input type="checkbox"/> FONTS:LIST	<input type="checkbox"/> FONTS:WRITE	<input type="checkbox"/> STYLES:WRITE	<input type="checkbox"/> STYLES:LIST
<input type="checkbox"/> STYLES:DOWNLOAD	<input type="checkbox"/> STYLES:PROTECT	<input type="checkbox"/> TOKENS:READ	<input type="checkbox"/> TOKENS:WRITE
<input type="checkbox"/> DATASETS:LIST	<input type="checkbox"/> DATASETS:WRITE	<input type="checkbox"/> TILESETS:LIST	<input type="checkbox"/> TILESETS:READ
<input type="checkbox"/> TILESETS:WRITE	<input type="checkbox"/> DOWNLOADS:READ	<input type="checkbox"/> VISION:DOWNLOAD	<input type="checkbox"/> NAVIGATION:DOWNLOAD
<input type="checkbox"/> OFFLINE:READ	<input type="checkbox"/> OFFLINE:WRITE		

Token restrictions
Make your access tokens more secure by adding URL restrictions. When you add a URL restriction to a token, that token will only work for requests that originate from the URLs you specify. Tokens without restrictions will work for requests originating from any URL.

URLs
Restrict this token to specific URLs. You can add URLs one at a time or as a comma-separated list. Your URL's format is important. Learn more about how to format your URL on our [access token documentation page](#). This feature is compatible with many Mapbox tools with some limitations. For web applications using Mapbox GL JS, it requires version 0.55.1 and higher. It is not currently compatible with Mapbox native SDKs.

Select the copy button and paste the API key into D365 eftsure “Know Your Payee” parameters form.

mapbox | Account

Dashboard Tokens Statistics Invoices Settings

Access tokens

You need an API access token to configure Mapbox GL JS, Mobile, and Mapbox web services like routing and geocoding. Read more about [API access tokens](#) in our documentation.

+ Create a token

Name Token Last modified URLs

NewToken  1 minute ago 0 