Setting up Google API Integration for Map, Drive, Picker

Overview

This guide shows you step by step guide to set up a new Integration project with Google APIs available from Claromentis 8.3+

> **IMPORTANT!:** Follow this guide if you are an on-prem customer with a custom domain (not *.myintranet.com). Your system must have a valid SSL certificate (https://) and web address (URL) which is accessible from outside your network/firewall.
> Please contact our support team if you are a SaaS customer and has ***.myintranet.com** domain for us to help you configuring Google Integration.

Please note: Google will only allow the use of API with billing enabled. This requires an associated method of payment to be set up in the Project you create in the Developer console using the steps outlined below. There is a level of free usage (amount of queries per day) that functions in the Intranet are unlikely to reach (e.g. Google Maps API for Events and Weather) and you will not be charged for this usage.

Purpose:

1. Document Application

Browsing content of Google Drive within Documents application and gathering necessary information such as document title and content searching.

2. Event Application

Allowing predictive input when adding a location for an event

3. Weather Component

Our Weather Component (from Claromentis 8.6+) requires Dark Sky API and Google Map API to be configured.

How to

Step 1: Create an account and log in to the Google Developer Console
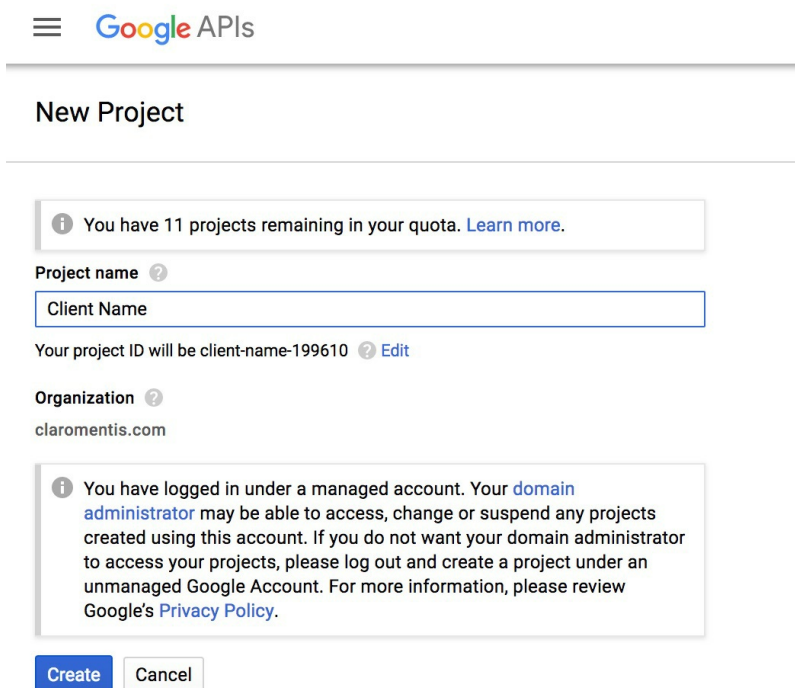
https://console.developers.google.com/

It is advisable for on-premise clients to register API key using their own Google credentials.

If you are a SaaS client, Claromentis can configure API keys on your behalf if you are unable to do so, please contact the support team by submitting a ticket.

Step 2: Create a Project

If you have not yet created a project for your system, you can create a new project


Step 3: Enable APIs and Services

From Dashboard click on Enable APIs and Services here are the list of APIs that required to be enabled:

1. Google Drive API - for accessing and getting file information such as title from Google Drive

2. Google Picker API - for enabling Browse Google Drive document picker to add files easily from Google Drive

3. Maps Embed API - for having google embedded in Event application and CK Editor

4. Maps Static API - required API to have map integration on Event and CK Editor

5. Geocoding API - required to read location in Event App and Weather.

6. Maps Javascript API - required to have predictive location search in the Events app

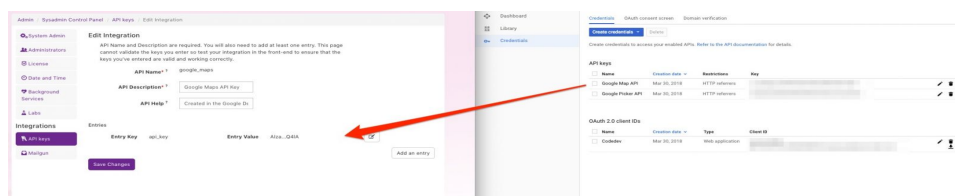**7. Places API** - required to read Google Places data in the Events app

Step 4: Set-up Google Map API

4.1 Click on **Credentials** menu on the left to create credentials, click **Create credentials** and select **API key**
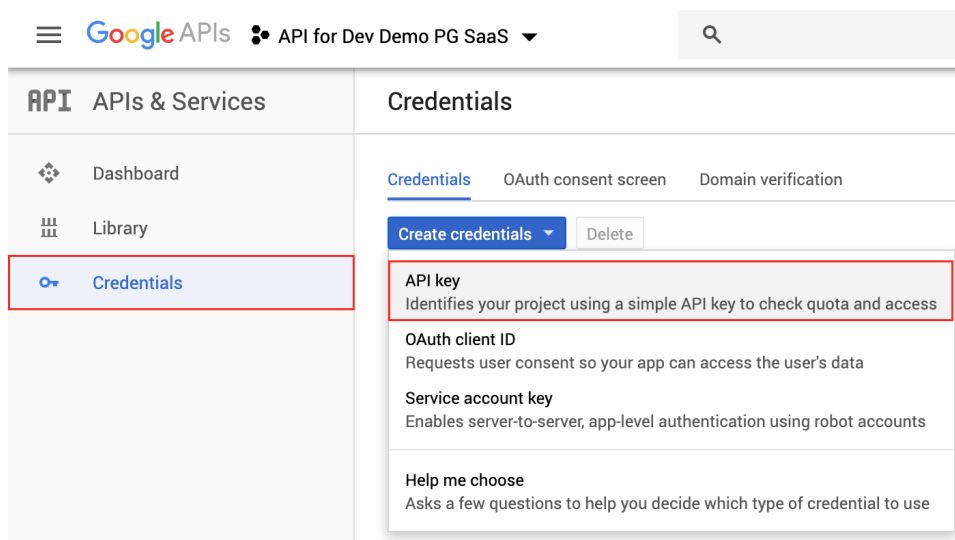
API key will be generated, rename it to `[System Name]Google Map API` for example **MyWorkplace Google Map API** for ease of identification later.

4.2 At Claromentis navigate to `Admin > System Panel > API keys`

Click on **Add new integration**

API name: **google_maps**

API description: **Google Maps API key**

API help: **Displaying Google Maps and Google Places predictive input for weather component and event app.**

Entry Key: `api_key`

Entry Value: `xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx`

Copy value from Google Map API as shown above

Step 5: Set-up Google Document Picker

For Google Document picker you are going to need both **API key** and **OAuth Client ID**

5.1 Click on **Credentials** menu on the left to create credentials, click **Create credentials** and select **API key**

API key will be generated, rename it to `[System Name]Google Picker API` for example **MyWorkplace Google Picker API** for ease of identification later.

5.2 Click on **Credentials** menu on the left to create credentials, click **Create credentials** and select**OAuth Client ID**

Application type: **Web application**

Authorised Javascript Origins: URL of the system

```
Your intranet URL (eg. https://workplace.myintranet.com)
```

Authorised redirect URIs

Your intranet URL followed by `/intranet/panels/docsadmin_google.php`

(eg. https://workplace.myintranet.com/intranet/panels/docsadmin_google.php)

Create OAuth client ID

For applications that use the OAuth 2.0 protocol to call Google APIs, you can use an OAuth 2.0 client ID to generate an access token. The token contains a unique identifier. See Setting up OAuth 2.0 for more information.

Application type
- ● Web application
- ○ Android Learn more
- ○ Chrome App Learn more
- ○ iOS Learn more
- ○ Other

Name ⊙

| Workplace |

Restrictions

Enter JavaScript origins, redirect URIs, or both Learn More

Origins and redirect domains must be added to the list of Authorized Domains in the OAuth consent settings.

Authorized JavaScript origins
For use with requests from a browser. This is the origin URI of the client application. It can't contain a wildcard (https://*.example.com) or a path (https://example.com/subdir). If you're using a nonstandard port, you must include it in the origin URI.

| https://workplace.myintranet.com |

Type in the domain and press Enter to add it

Authorized redirect URIs
For use with requests from a web server. This is the path in your application that users are redirected to after they have authenticated with Google. The path will be appended with the authorization code for access. Must have a protocol. Cannot contain URL fragments or relative paths. Cannot be a public IP address.

| https://workplace.myintranet.com/intranet/panels/docsadmin_google.php |

Type in the domain and press Enter to add it

Create   Cancel

5.3 Upon submission, you may get a warning about limited scope login, Please remember to set-up Google Domain Verification after this stage, guide can be found below.

Google Domain Verification

OAuth client

The client ID and secret can always be accessed from Credentials in APIs & Services

ⓘ OAuth is limited to 100 sensitive scope logins until the OAuth consent screen is published. This may require a verification process that can take several days.

Here is your client ID

| 3651...................................eMoRv572qSsuoKm.apps.googleusercontent.com |

Here is your client secret

| 02tp.   .'FVow |

OK

Take a note of client ID

5.4. Creating OAuth client ID require you to configure **Consent Screen**

Email address: the same email to access the developer console

Product Logo URL:

```
https://[yourintranetaddress]/images/favicons/icon-150.png
```

replace `[yourintranetaddress]` with your actual URL of claromentis for example `http://workplace.claromentis.com`

Privacy policy URL: link to client's privacy policy

5.5 At Claromentis navigate to `Admin > System > API keys`

API Name: **google_picker**

API Description: **Google Picker key and OAuth details**

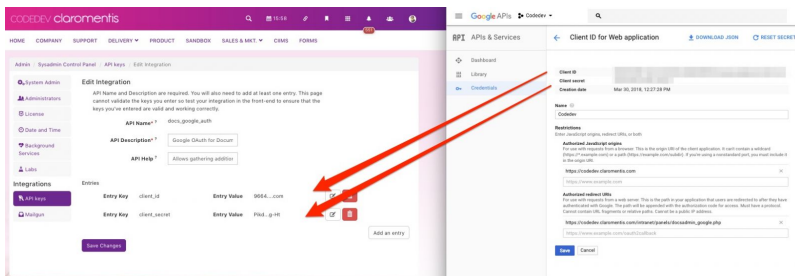API help: Allowing user to pick a document from Google Docs

developer_key: copy value from **Google Picker API**

client_id: is the client id from **OAuth Client IDs**

app_id this can be ignored

Step 6: Set-up Google OAuth for Document

This Integration allows gathering additional information about a document when adding from Google Docs

Copy & Paste Client ID and Client secret from Google Console into Google OAuth for Document

API Name: **docs_google_auth**

API Description: **Google OAuth for Documents**

API help: Allows gathering additional information about a document when adding from Google Docs

client_id: is the client id from **OAuth Client IDs**

client_secret: enter **client secret from OAuth Client ID**

Step 7: Testing & Verification.

7.1. Document Admin

Testing Google Document Indexing

Navigate to Admin > Documents > Google Authentication

Check API status

7.2. Adding Google Documents

Add a document from Google by Browse Google Document, you will be prompted to authorize access to your Google Drive
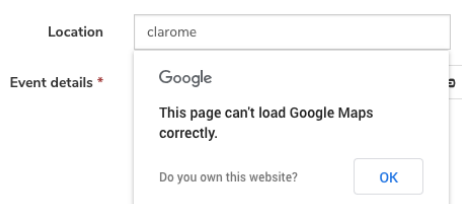
7.3. In Events app - create an event and check event location predictive input

Create an event and check predictive input when typing location.

TROUBLESHOOTING

Event App - Location

This page can't load Google Maps Correctly

Cause:

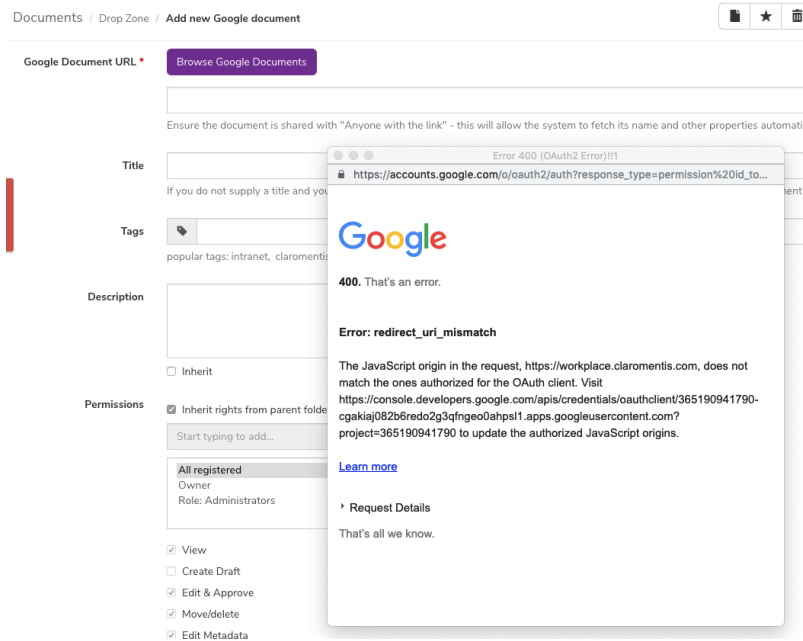This error is caused by misconfiguration in Google Maps API

Solution:

Check Google Maps API Key in `Admin / System / API keys / google_maps`

Documents

Error: redirect_uri_mismatch

Error 400

Browse google document and getting

This error is caused by incorrect **Authorised Javascript Origins** and **Authorised redirect URIs** origin specified in **Step 5.2**

Navigate to the Google API Console and make the amendments.

Troubleshooting & Tips

You can use the URL below to make a direct API call to check if Google Map API required for weather and Event places is configured correctly.

`https://maps.googleapis.com/maps/api/geocode/json?address=brighton,uk&key=<your_unique_api_key_here>`