# Dynamica Google Maps Integration User Guide

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#### Overview

Google Maps is most popular mapping service. It is useful to have clear understanding where are your leads, contacts, accounts or opportunities are located, and the best way to visualize it – see the records location on the Google Map. However, there is no Dynamics 365 solution that allows to integrate with google maps and show records coordinates on the map.

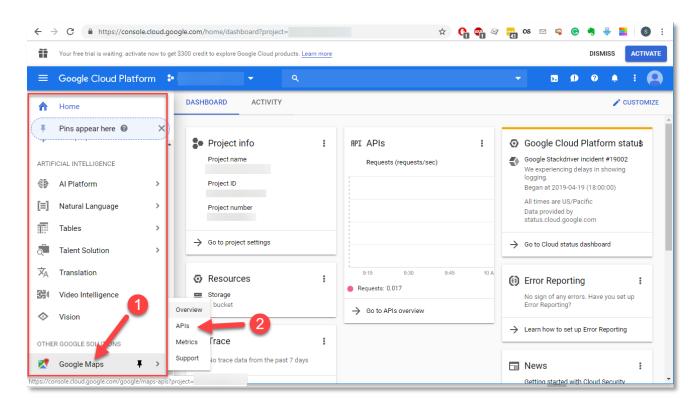
Dynamica Google Maps is easy 1-click google maps integration solution that allows to show records coordinates on the Google Map in an easy and simple way. Google maps are available on Dashboards, allows to change views and open records right from the Google Map by just clicking on record's name. Maps are also available on the record's form. Google Map can be also embedded either on any Dashboard or on any Form to show record's coordinates right on the Form when the record is opened.

## Google Maps API Configuration

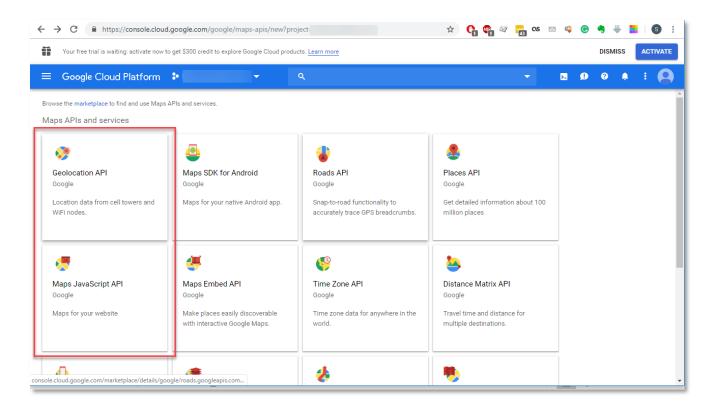
In order to use Google Maps in Dynamics 365 - Google Maps **Geolocation API** and **Maps JavaScript API** must be enabled. Then **Google Maps API Key** can be generated.

To do that:

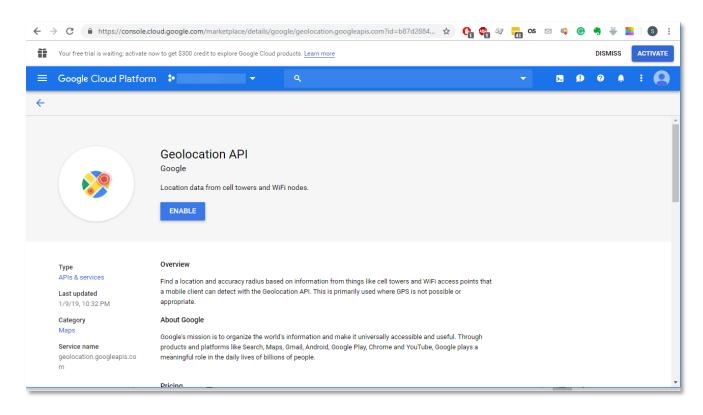
- 1. Go to <a href="https://console.cloud.google.com">https://console.cloud.google.com</a> and scroll to the bottom of the left-side menu
- 2. Select Google Maps -> APIs

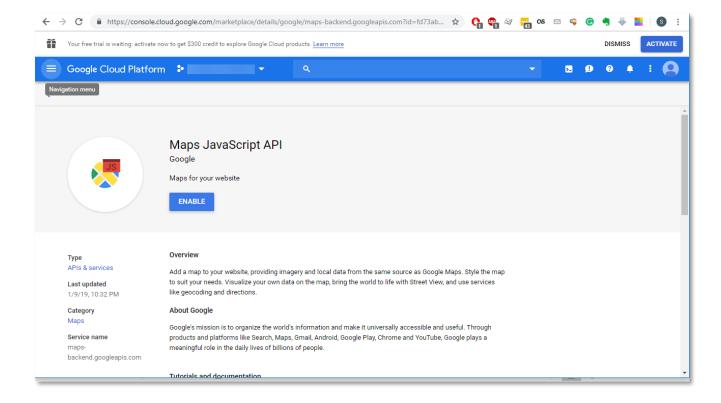


#### 3. Find Google Maps Geolocation API and Maps JavaScript API

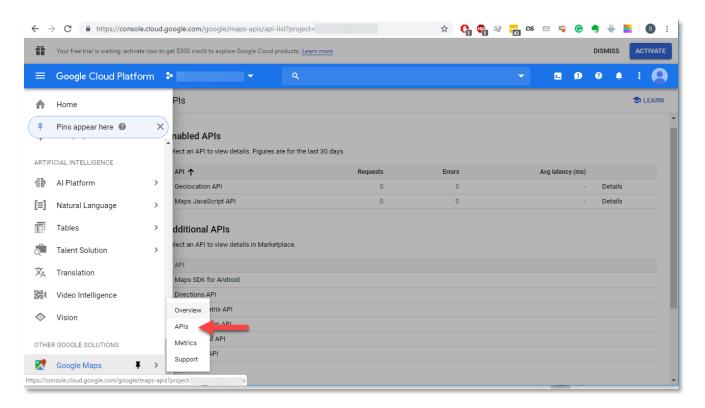


#### 4. Enable both Google Maps Geolocation API and Maps JavaScript API

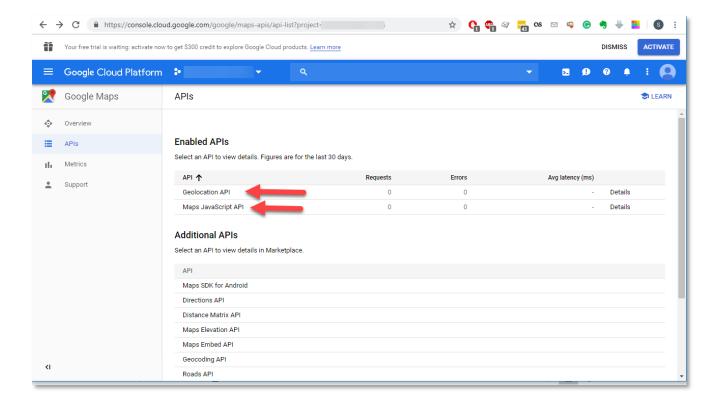




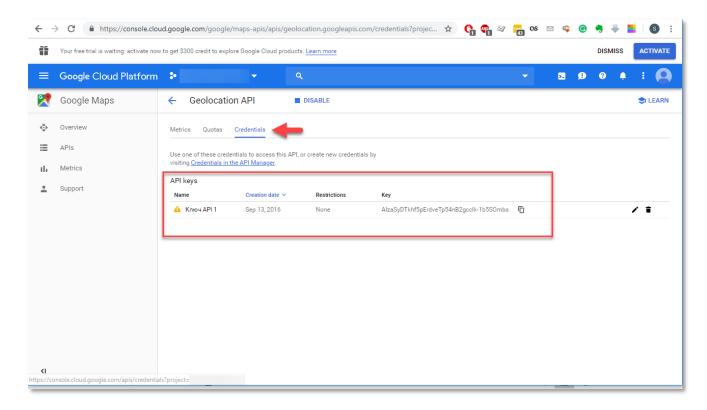
## 5. Go to Google Maps -> APIs section again



#### 6. Open either Google Maps Geolocation API or Maps JavaScript API

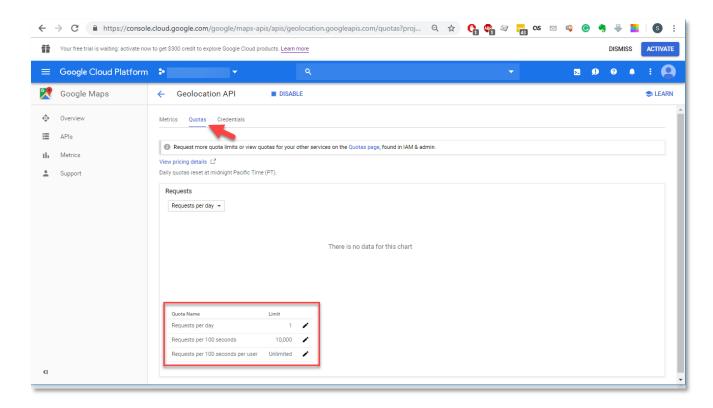


## 7. Click on **Credentials** to find API key



## Google Maps API Limitations

Steps described above allow to activate and use **Free Version** of **Google Maps API**. It has limitations. Information about the limitations can be found in **Quotas** section

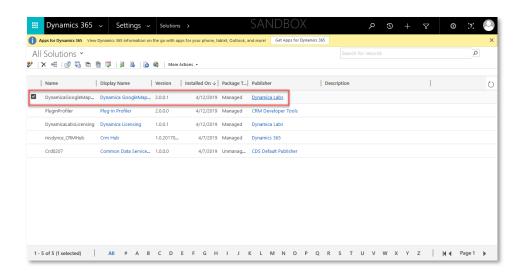


Find more information about Geolocation API Usage and Billing following this link https://developers.google.com/maps/documentation/geolocation/usage-and-billing?hl=en US

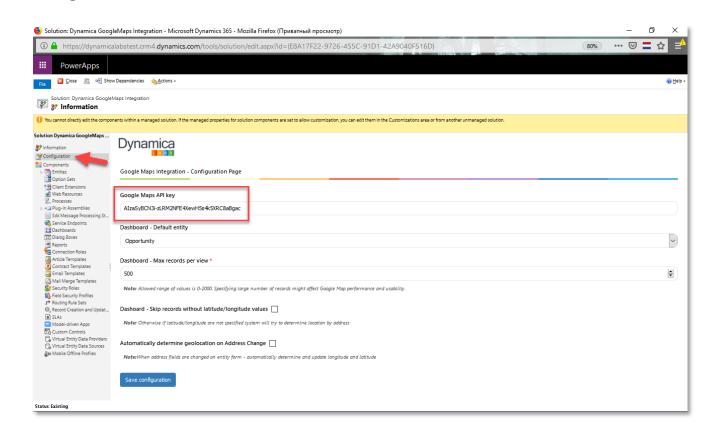
# Dynamica Google Maps Integration solution configuration

After **Dynamica Google Maps Integration** solution installation few simple configuration steps must be done:

1. Go to Settings -> Solutions and open Dynamica Google Maps Integration solution



2. On configuration page – copy your **Google Maps API key** into appropriate field and **Save Configuration** 



# Dynamica Google Maps Integration Trial and Licensing

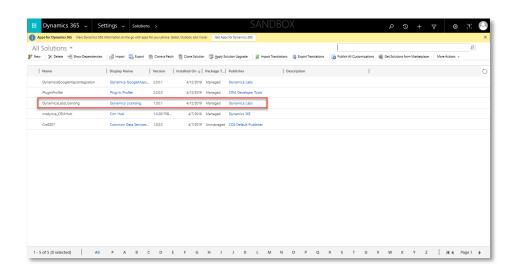
After installation - **Dynamica Google Maps Integration** solution works in trial mode.

Trial version has restrictions: it works with **Contact** entity only.

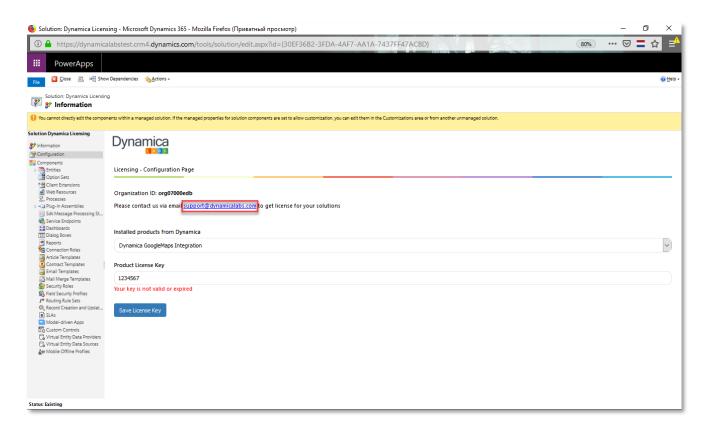
Full version works with Account, Contact, Lead and Opportunity entities.

To get licenses:

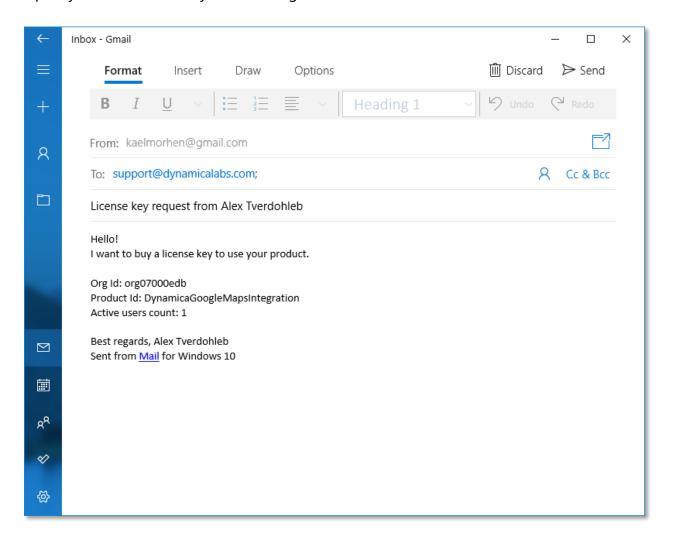
1. Go to **Settings -> Solutions** and open Dynamica Licensing



## 2. Click on <a href="mailto:support@dynamicalabs.com">support@dynamicalabs.com</a>



3. Specify number of users you want to get licenses for

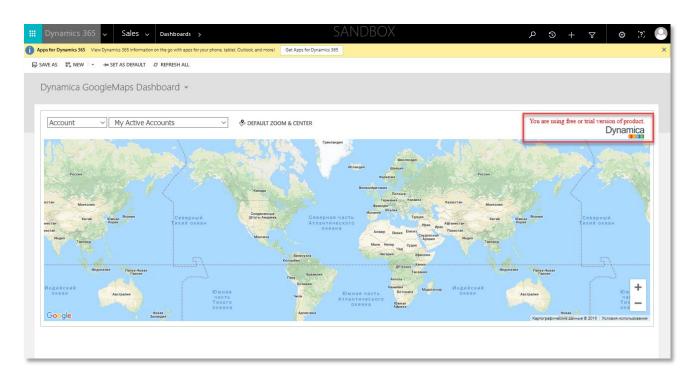


4. After receiving a licensing key from Dynamica Labs – copy it into Product License Key field of the Dynamica Licensing solution configuration page

## Free licenses for up to 10 users

You can get licenses for up to 10 users for Free.

Please note that in Free version you will be able to use Dynamica Google Maps Integration solution with **Account, Contact, Lead and Opportunity** entities yet you will still see notification that you are using free or trial version of the solution

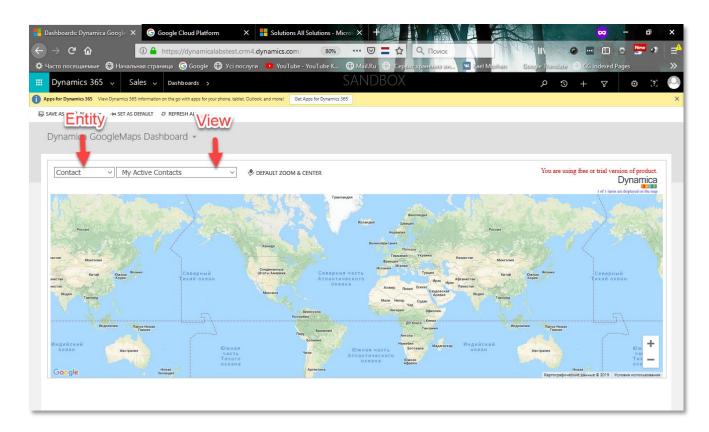


# Google Maps Dashboard

After solution installation - Google Maps Dashboard will be added to Dashboards section.

1. Go to **Dashboards** and select **Dynamica Google Maps Dashboard** from the drop-down list of dashboards

2. Do display positions of the records on the map select **Entity** and **View** on the upper-left corner of the dashboard

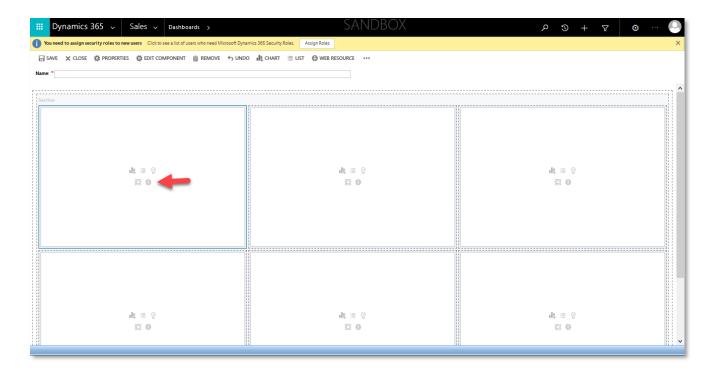


In order to show records coordinates on the map – records should have addresses that will be automatically geocoded into Longitude and Latitude.

# Embed Google Maps on any Dashboard

Google maps can be embedded on any dashboard as a chart:

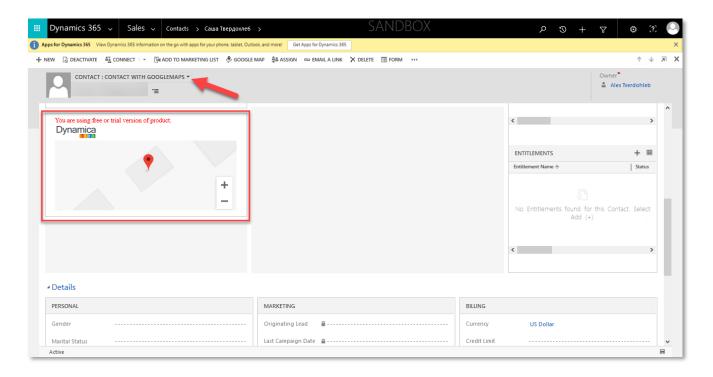
1. Click on **Insert Web Resource** on chart



- 2. Find dnl\_GoogleMapsDashboardPage.html in Web Resource lookup
- 3. Specify Web Resource Name and Label and click ok

# Google Maps on Entities Forms

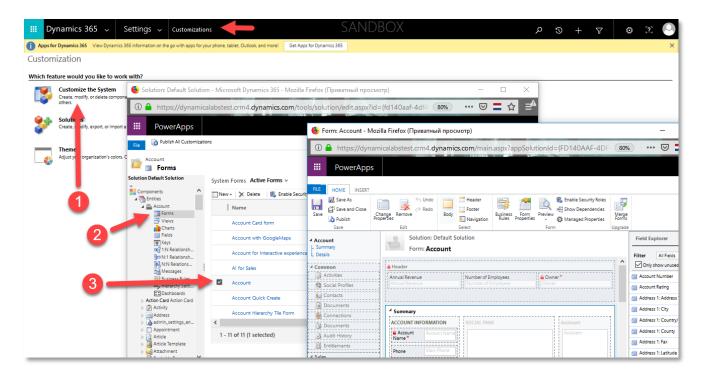
After solution installation – forms with already embedded Google Maps will be added on **Account, Contact, Lead and Opportunity** entities. These forms can be used for testing of the solution



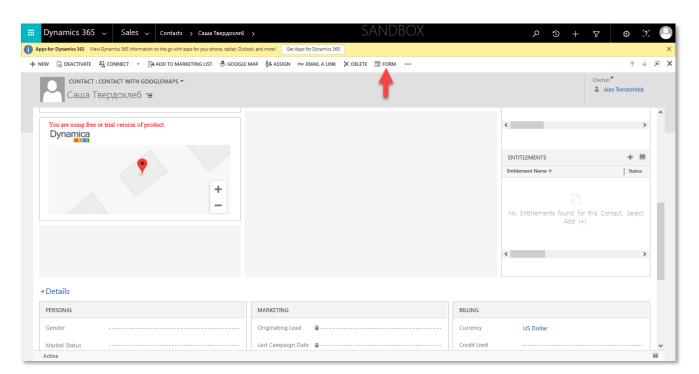
# Embed Google Maps on any Form

Google Maps can be embedded on any form.

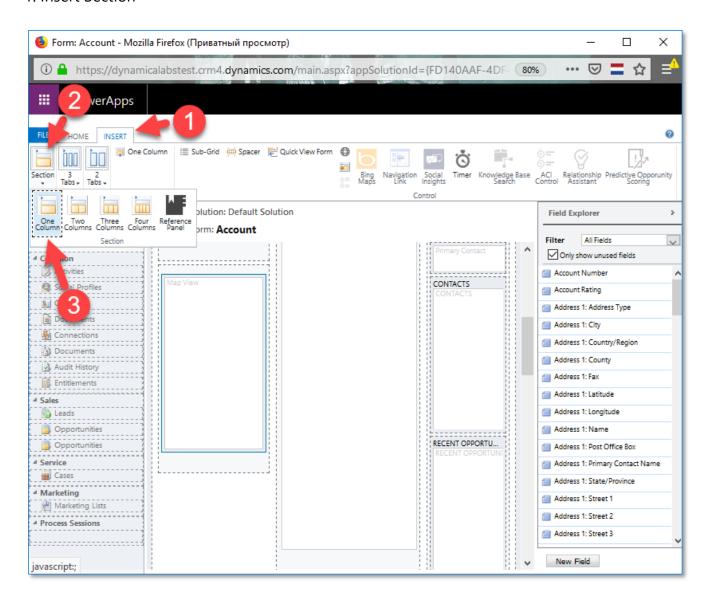
To do that either open Form Editor or go to Settings -> Customizations -> Customize the System -> Entities -> <Entity Name> -> Forms -> <Forms Name>



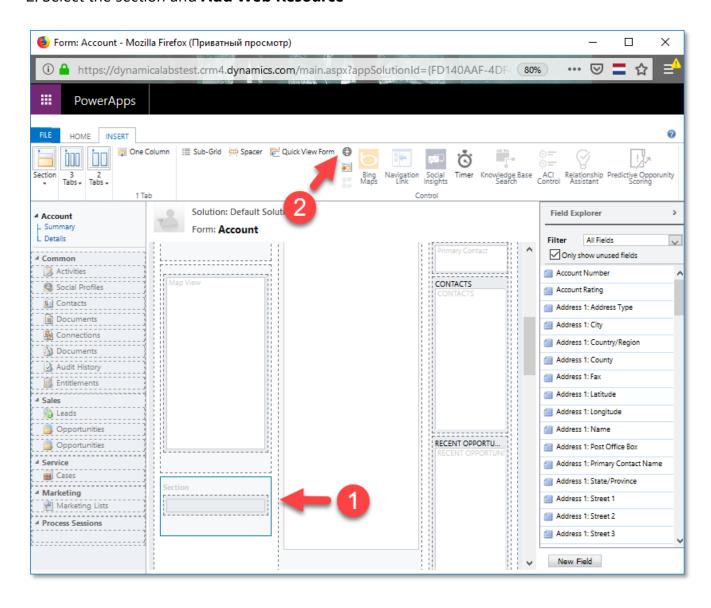
#### Form Editor:



#### 1. Insert Section

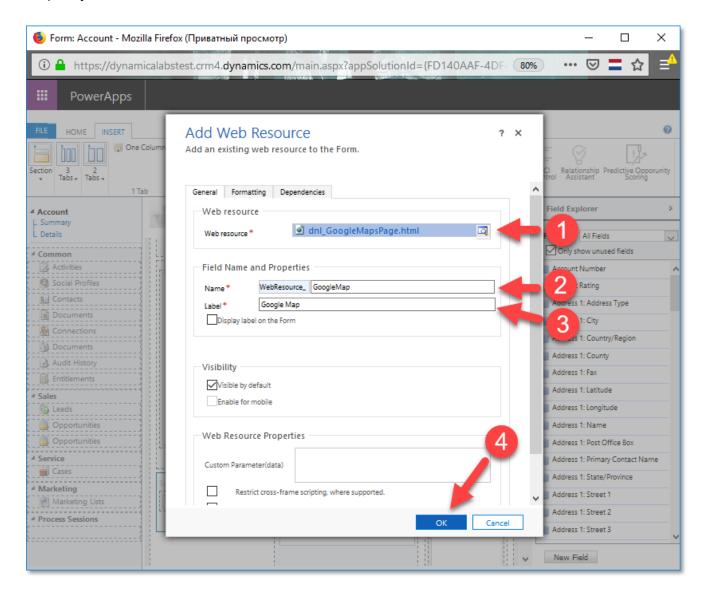


#### 2. Select the section and Add Web Resource

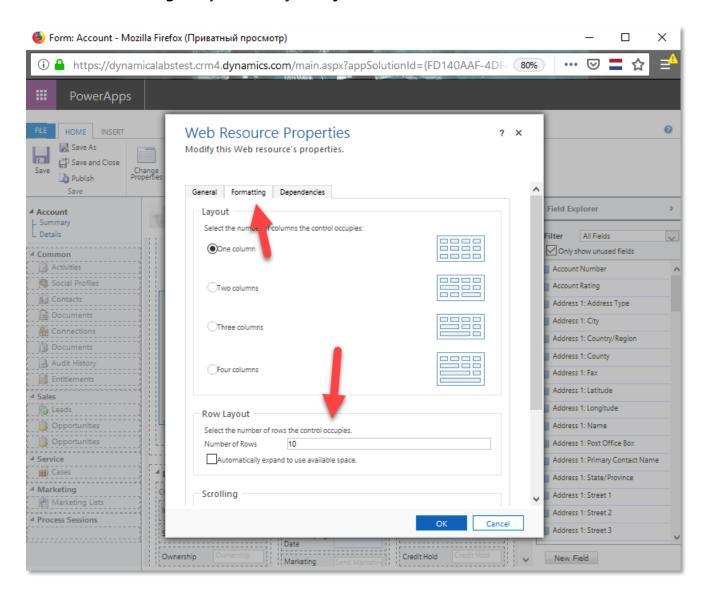


## 3. Find dnl\_GoogleMapsPage.html in Web Resource lookup

4. Specify Web Resource Name and Label

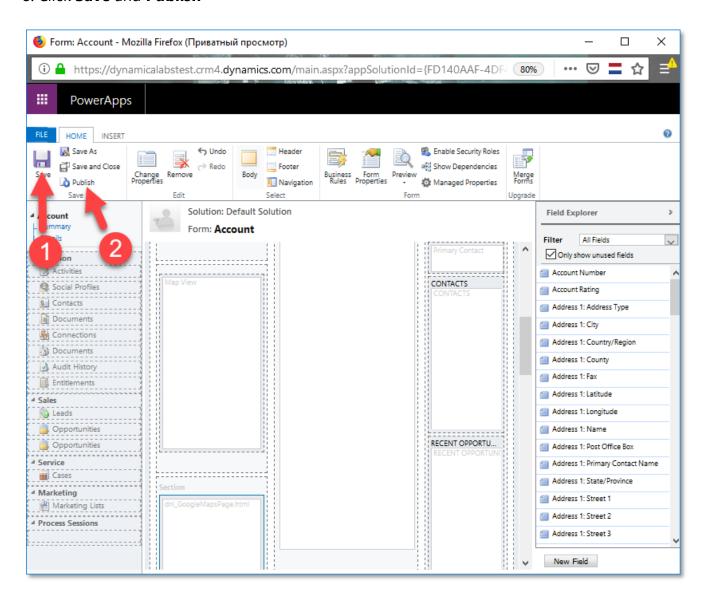


## 5. On the Formatting Tab you can adjust Layout size



## 7. After you've finished - click Ok

#### 8. Click Save and Publish



9. Open the record and switch on your form. If the map cannot be found on the form – refresh the page with clearing cache (In Google Chrome - Ctrl + F5)

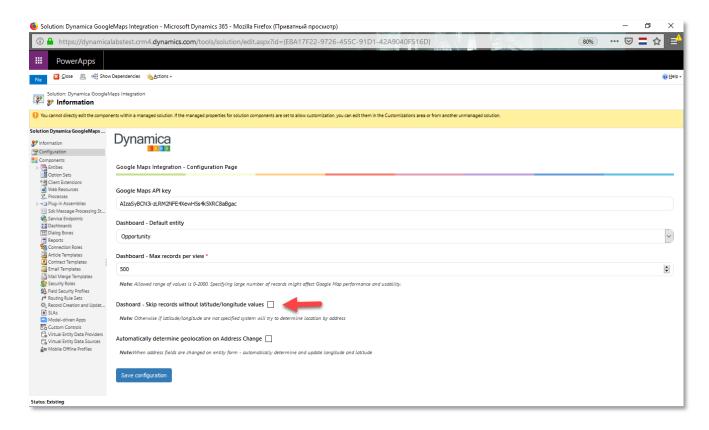
## **Records Geolocation Determination**

In order to show positions of the records on the map the solution uses **Longitude and Latitude.** Longitude and Latitude are determined based on the record's address.

Records coordinates can be determined in real-time and saved in appropriate fields

\* Option: Dashboard - Skip records without latitude/longitude values must be turned off.

This option can be changed on the solution's configuration page



Dynamica Google Maps Integration Configuration Options

Option	Description
Google Maps API key	API key that must be generated and copied from Google  Maps
Dashboard - Default Entity	Entity selected by default on Google Map Dashboard

Dashboard – Max records per time	Maximum number of records that will be shown on the Google Map Dashboard
Dashboard – Skip records without latitude/longitude values	When option is turned on - system will try to determine location by address if latitude/longitude are not specified
Automatically	When option is turned on – system will automatically

AutomaticallyWhen option is turned on – system will automaticallydetermine geolocationdetermine and update longitude and latitude if address ofon Address Changerecord is changed

# Restrictions

1. Currently the solution works only with **Account, Contact, Lead and Opportunity** entities