# Google Apps Connector Configuration for TWS 4.2

## **Document revisions**

Version	Date	Comment
1.1	05/07/2015	Initial document
1.2	03/09/2015	New Google API
1.3	12/01/2016	New Client ID creation
1.4	12/08/2016	New Interface

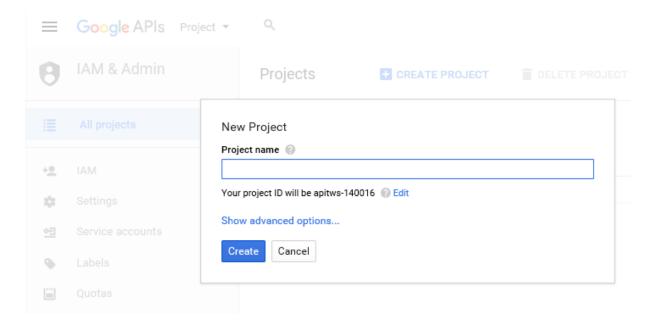
# Summary

Google Apps Account Setup	4
Creating a Google Apps new project	
Creating a Service account key	
Creating a Client ID associated with the service account key	
Activate your APIs	8
Authorize APIs	9
Configuring connectors in TWS	12
Prerequisites	12
Configuration	12
Creating a private directory	13
Creating a calendar connector	13

## Google Apps Account Setup

## Creating a Google Apps new project

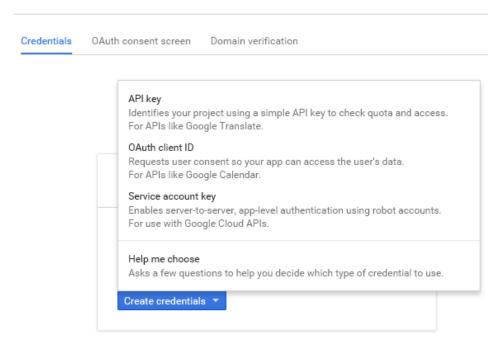
Go to: <a href="https://console.developers.google.com/project">https://console.developers.google.com/project</a> and create a new project. Open this project and then go to "Credentials".



## Creating a Service account key

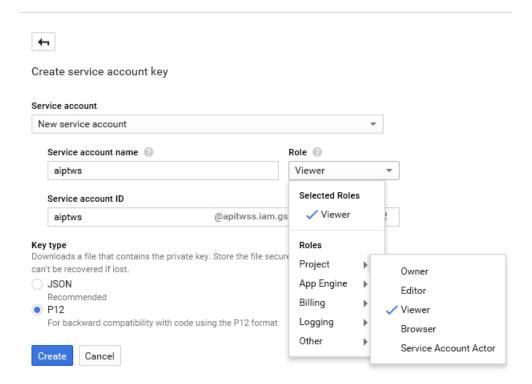
In "Credentials" and then "Credentials" tab, create the new credentials. Choose "Service account key".

#### Credentials

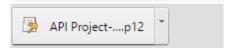


Then choose "New Service Account" and enter a name for this account. Here is "apitws". Give the "Viewer" role for the "Project" type. Then select "P12" and do "Create".

#### Credentials



A new private key is created. The browser will offer to download the *P12 file*. Save this file on your computer.

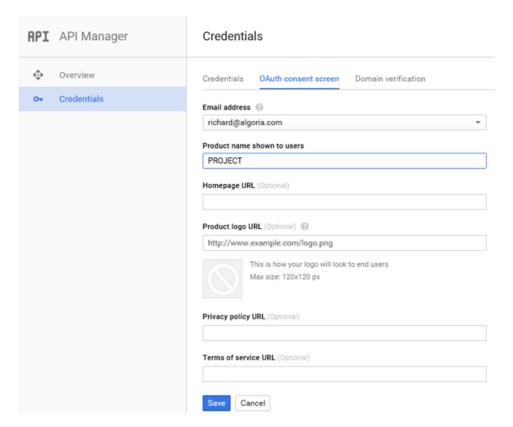


The service account key is created.

Service account keys		Manage service accounts
□ ID	Creation date 🗡	Service account
8a8d3022a02c36fd1f78c44e086a500f3253e593	Jan 11, 2016	apitws

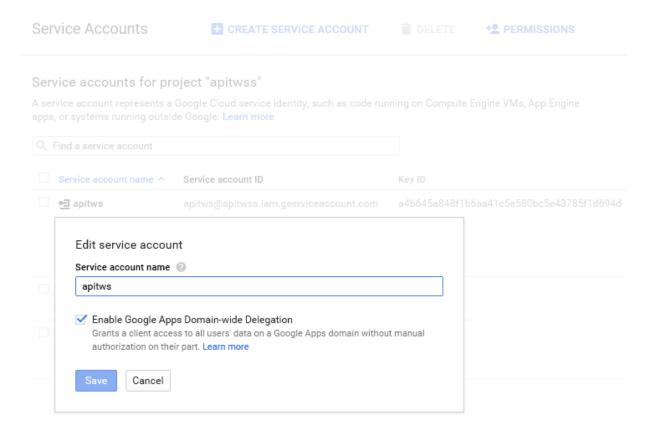
## Creating a Client ID associated with the service account key

Before creating the client ID, you must enter a product name. In the menu "Credentials" and the "OAuth consent Screen" tab, enter a product name as below:



Then in the "Credentials" menu and the "Credentials" tab, click "Manage Service Accounts" under "Service Account Keys". Select the account created and at the right the button allows you to edit the account.

Check the "Enable Google Apps Domain-wide Delegation" box and save.



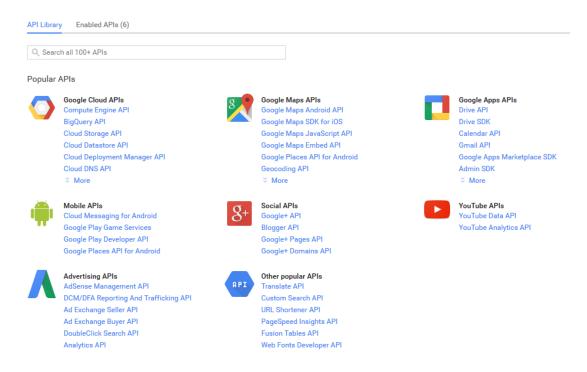
Thus, a new client ID was created. This will be used to access the data and APIs. Remember that "Client ID".

Credentials

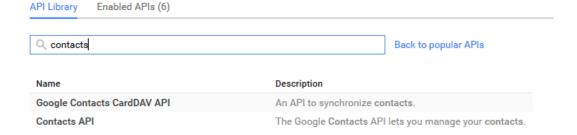
#### Credentials OAuth consent screen Domain verification New credentials ▼ Delete Create credentials to access your enabled APIs. Refer to the API documentation OAuth 2.0 client IDs Name Creation date Y Client ID Type Client du compte Jan 11, 2016 Service account client 104373606319905538924 de service apitws

#### Activate your APIs

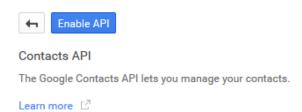
Open the "Overview" menu, "API Library" tab and in the "Google Apps APIs" section you will find the 2 APIs to enable.



In the search box, you can search for "Contacts".

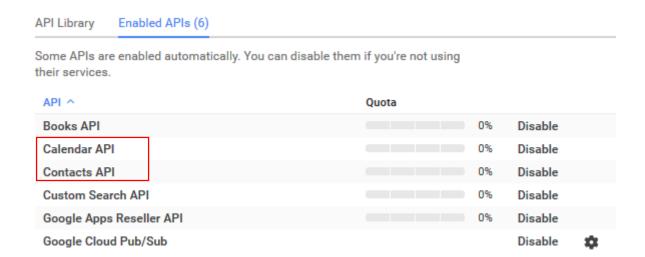


Select "Contacts API" and Enable API.



Do the same again for the « Calendars » API.

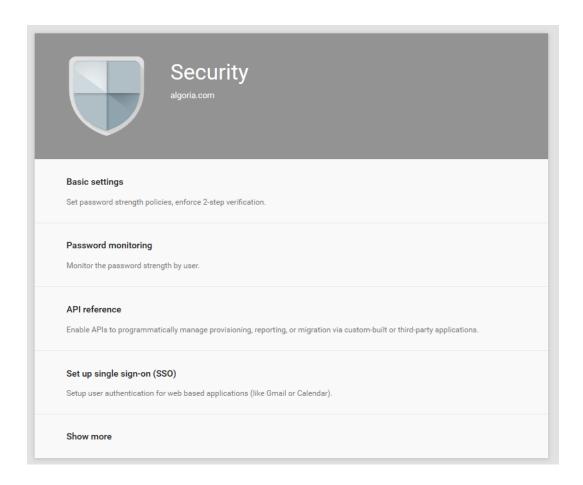
When finished, select the "Enabled APIs" menu to check that your APIs are active.



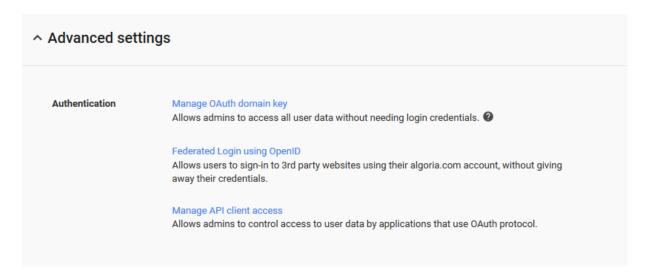
#### Authorize APIs

Go to: <a href="https://www.google.fr/intx/fr/work/apps/business/">https://www.google.fr/intx/fr/work/apps/business/</a>. Connect you to your domain Google Apps and select Administration console.

Open the "Security" menu and click on "Show more".



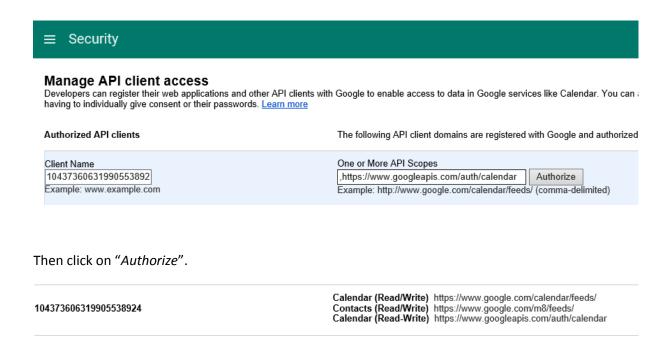
Open "Advanced settings" and click "Manage API client access".



Now you must save the Web applications to access data services.

Find your "CLIENT ID" created previously and fill "Customer Name" (see chap. Creating a customer ID associated with the service account key). Then in the "One or more API scopes" complete the following URL separated by commas, as shown below:

https://www.google.com/calendar/feeds/,https://www.google.com/m8/feeds/,https://www.googleapis.com/auth/calendar



Your Google Apps account is configured correctly.

## Configuring connectors in TWS

#### Prerequisites

TWS can communicate with Google Apps with:

- The email address previously configured in the Google service account
- The *P12* file
- The domain name you use in Google Apps

#### Configuration

Rename P12 file this way: « api-google-[Username].p12 »

The [Username] matches the name of the user present in the e-mail address of the Google Apps developer account.

	Service account ^	Email address
<i>Ex:</i>	apitws	

Email: apitws@tws-google-apps.com.iam.gserviceaccount.com

Name of the user: apitws

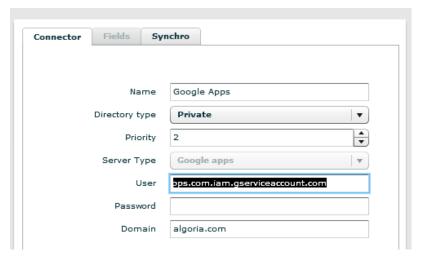
File name: api-google-apitws.p12

Then copy the file in the directory [InstallTWS]\TWS4\TWS\_Web\TWS\_Config.

TWS can synchronize the directory and Google Apps calendars. To do that, the email address of the TWS user should match the email address of the Google Apps user.

#### Creating a private directory

In the TWS administration, create a new directory with *Google Apps* as the server type and *private* as the directory type and name it as you want.



In the *User* field, enter the full email address.

In the *Domain* field, enter the name of your domain.

The password field is not used.

Save and you can start synchronizing.

### Creating a calendar connector

In the TWS administration, create a new collaboration connector of Google Apps.



Choose the type Google Apps.

In the *User* field, enter the full email address.

In the *Domain* field, enter the name of your domain.

The password field is not used.

The Host field is not used. You can use this field to name the connector.