

# Google Sheets Connector for ABBYY Vantage

"Seamlessly Integrate ABBYY Vantage with Google Sheets for  
Automated Data Processing and Enhanced Workflow  
Efficiency."

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# About Google Sheets Connector for ABBYY Vantage

The Google Sheets Connector for ABBYY Vantage is designed to streamline your data processing and enhance your workflow efficiency. ABBYY Vantage, a leading platform for intelligent document processing, seamlessly integrates with Google Sheets, allowing you to automatically extract, process, and manage data directly within your spreadsheets. Whether you're handling invoices, receipts, forms, or other documents, this connector enables you to harness the power of ABBYY Vantage's advanced AI and machine learning capabilities, bringing automation and accuracy to your data management tasks.

Security is a top priority with this integration, utilizing the OAuth 2.0 protocol for secure authentication with the Google Sheets API. This ensures that your data remains protected and accessible only to authorized users.

Ideal for businesses of all sizes, this integration simplifies complex processes, reduces manual effort, and ensures data integrity across your operations. Explore the full potential of ABBYY Vantage with the convenience of Google Sheets, and transform the way you handle your document workflows.

## System Requirements and Limitations

To ensure optimal performance and compatibility, please ensure that your system meets the following requirements:

### Operating System:

- Windows 10 or later
- macOS 10.15 (Catalina) or later
- Linux distributions supporting Google Chrome or Mozilla Firefox

### Web Browser:

- Google Chrome (latest version recommended)
- Mozilla Firefox (latest version recommended)
- Microsoft Edge (latest version recommended)

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- Safari (latest version recommended)

### **Hardware:**

- Processor: Intel Core i3 or equivalent
- Memory: 4 GB RAM (8 GB recommended)
- Storage: 200 MB of available disk space for installation
- Internet Connection: Broadband or higher

### **Software:**

- Google Account with access to Google Sheets
- ABBYY Vantage account

### **Additional Requirements:**

- OAuth 2.0 authentication for secure access to Google Sheets API
- Up-to-date web browser to ensure compatibility with the Google Sheets and ABBYY Vantage interfaces.

By meeting these system requirements, you can ensure a smooth and efficient integration experience, maximizing the benefits of the Google Sheets Connector for ABBYY Vantage.

# Installing the Connector

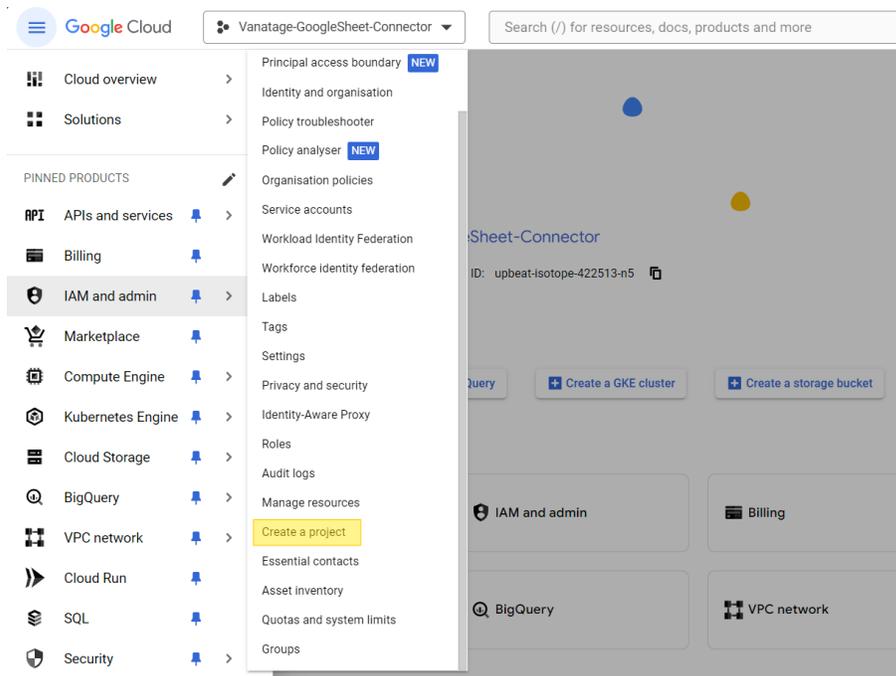
ABBYY Vantage Integration with Google Sheets is a script that runs in an Output or Custom Activity of a Process Skill. The current version of ABBYY Vantage Integration with Google Sheets is configured by modifying the script (see Configuring the Connector below).

## Setting Up Google Project

Before setting up the connector, you need to set up a Google Project to enable the Google Sheets API. Follow these steps:

### 1. Create a Google Cloud Project:

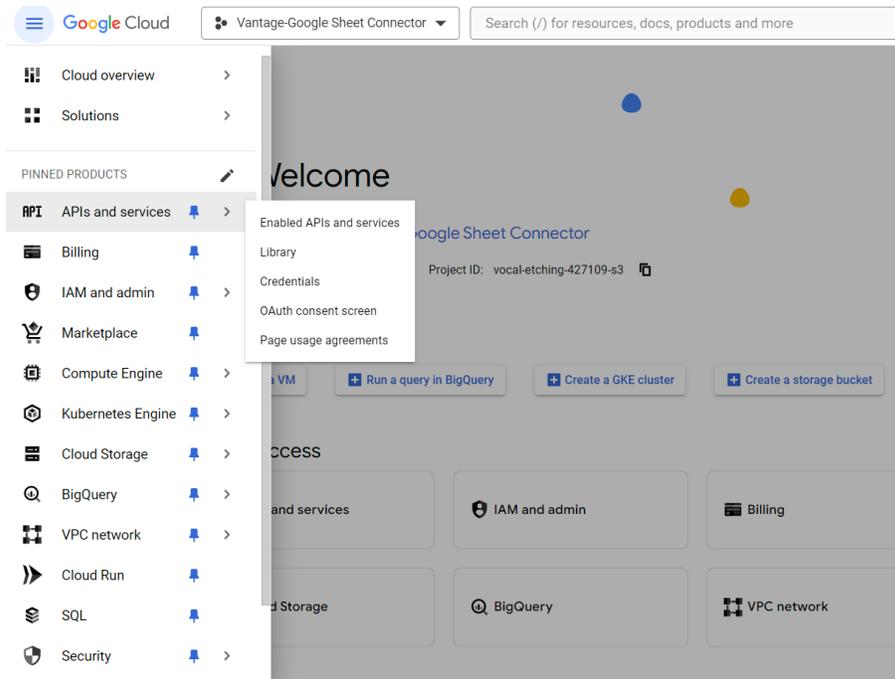
- Go to the Google Cloud Console.
- In the Google Cloud console, go to **Menu > IAM & Admin > Create a Project**.



### 2. Enable the Google Sheets API:

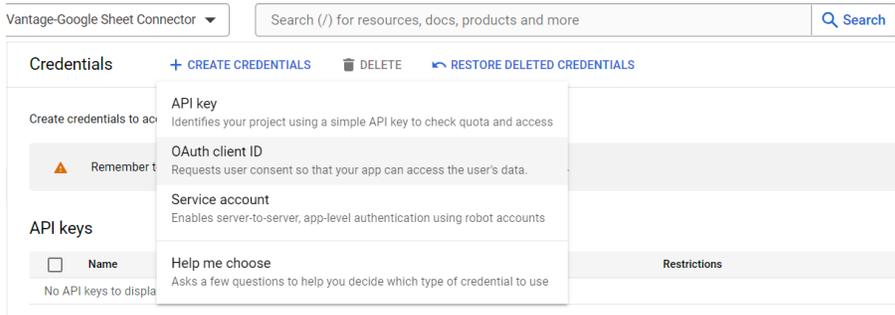
- In the Google Cloud console, go to **Menu > More products > Google Workspace > Product Library**.
- Search for "**Google Sheets API**" and click on it.
- Click the "**Enable**" button.

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### 3. Create OAuth 2.0 Credentials:

- In the Google Cloud console, go to **Menu > APIs & Services > OAuth consent screen.**



- Select the user type for your app, then click **Create**.
- Complete the app registration form, then click **Save and Continue**.

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1 OAuth consent screen — 2 Scopes — 3 Test users — 4 Summary

## App information

This shows in the consent screen, and helps end users know who you are and contact you

App name \*  
Vantage-Google Sheet Connector  
The name of the app asking for consent

User support email \*  
[Redacted]  
For users to contact you with questions about their consent. [Learn more](#)

- If you're creating an app for use outside of your Google Workspace organization, click **Add or Remove Scopes**.
- After selecting the scopes required by your app, click **Save and Continue**.

Vantage-Google Sheet Connector Search (/) for resources, docs, prod

### Edit app registration

1 OAuth consent screen — 2 Scopes — 3 Test users — 4 Summary

Scopes express the permissions that you request users to authorize for your app and allow your project to access specific types of private user data from their Google Account. [Learn more](#)

[ADD OR REMOVE SCOPES](#)

Your non-sensitive scopes

#### Update selected scopes

Only scopes for enabled APIs are listed below. To add a missing scope to this screen, find and enable the API in the [Google API Library](#) or use the Pasted Scopes text box below. Refresh the page to see any new APIs you enable from the Library.

Filter [Sheet](#) Enter property name or value

API	Scope	User-facing description
<input checked="" type="checkbox"/> Google Sheets API	.../auth/spreadsheets	See, edit, create and delete all your Google Sheets spreadsheets
<input type="checkbox"/> Google Sheets API	.../auth/spreadsheets.readonly	See all your Google Sheets spreadsheets
<input type="checkbox"/> Google Sheets API	.../auth/drive	See, edit, create and delete all of your Google Drive files
<input type="checkbox"/> Google Sheets API	.../auth/drive.readonly	See and download all your Google Drive files

- If you selected **External** for user type, add test users:
- Under Test users, click **Add users**.
- Enter your email address and any other authorized test users, then click **Save and Continue**.

### Edit app registration

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## Test users

While publishing status is set to 'Testing,' only test users are able to access the app. Allowed user cap prior to app verification is 100, and is counted over the entire lifetime of the app. [Learn more](#)

[+ ADD USERS](#)

Filter Enter property name or value

User information

[Redacted] [Delete]

[SAVE AND CONTINUE](#) [CANCEL](#)

## Google Sheet Connector for ABBYY Vantage

- Review your app registration summary. To make changes, click **Edit**. If the app registration looks OK, click **Back to Dashboard**.

### Scopes EDIT

API ↑	Scope	User-facing description
Google Sheets API	.../auth/spreadsheets	See, edit, create and delete all your Google Sheets spreadsheets
Google Sheets API	.../auth/drive	See, edit, create and delete all of your Google Drive files

---

### Test users EDIT

1 user (1 test, 0 other) / 100 user cap ⓘ

**Filter** Enter property name or value ⓘ

User information

deepak6goyal@gmail.com

[BACK TO DASHBOARD](#)

- Navigate to **"APIs & Services" > "Credentials"**.
- Click on **"Create Credentials"** and select **"OAuth 2.0 Client ID"**.

id Vantage-Google Sheet Connector

**Credentials** [+ CREATE CREDENTIALS](#) [DELETE](#) [RESTORE DELETED CREDENTIALS](#)

Create credentials to access your enabled APIs. [Learn more](#)

#### API keys

<input type="checkbox"/>	Name	Creation date ↓	Restrictions
No API keys to display			

#### OAuth 2.0 Client IDs

<input type="checkbox"/>	Name	Creation date ↓	Type
No OAuth clients to display			

#### Service Accounts

<input type="checkbox"/>	Email	Name ↑
No service accounts to display		

- Select "Application type" as "Web application".
- Enter a name for your credentials and add your authorized redirect URIs.

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← Create OAuth client ID

multiple platforms, each will need its own client ID. See [Setting up OAuth 2.0](#) for more information. [Learn more](#) about OAuth client types.

Application type \*  
Web application

Name \*  
Google Sheet API

The name of your OAuth 2.0 client. This name is only used to identify the client in the console and will not be shown to end users.

**i** The domains of the URIs you add below will be automatically added to your [OAuth consent screen](#) as [authorised domains](#).

**Authorised JavaScript origins**

For use with requests from a browser

+ ADD URI

**Authorised redirect URIs**

For use with requests from a web server

URIs 1 \*  
https://oauth.pstmn.io/v1/callback

- Click "Create" and note down the client ID and client secret.

## Setting Up OAuth 2.0 for Script

To set up OAuth 2.0, follow these steps using Postman:

### 1. Generate Authorization Code:

- In Postman, create a new request.
- Set the request type to "GET" and the URL to:

```
bash  
Copy code:
```

```
https://accounts.google.com/o/oauth2/auth?client_id=YOUR_CLIENT_ID&redirect_uri=YOUR_REDIRECT_URI&scope=YOUR_SCOPES&response_type=code&approval_prompt=force&access_type=offline
```

- Replace **YOUR\_CLIENT\_ID**, **SCOPE** and **YOUR\_REDIRECT\_URI** with your actual client ID and redirect URI.

# Google Sheet Connector for ABBYY Vantage

[HTTP](#) ABBYY-Google sheets connector / Retrieve authorization code.

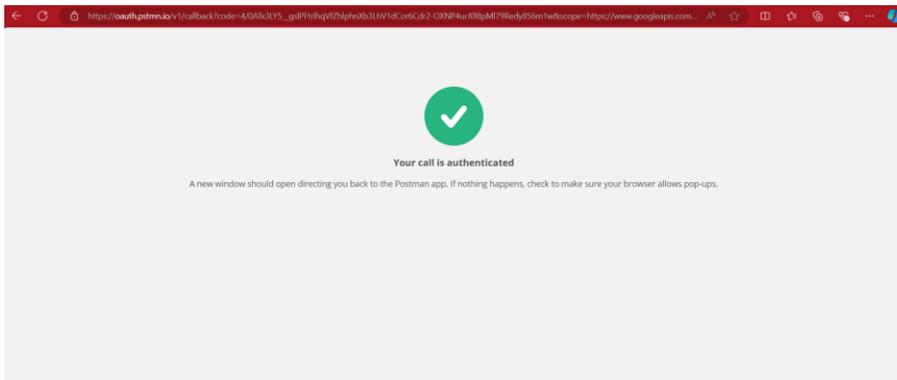
GET ▼ | [https://accounts.google.com/o/oauth2/auth?client\\_id=YOUR\\_CLIENT\\_ID&redirect\\_uri=YOUR\\_RI](https://accounts.google.com/o/oauth2/auth?client_id=YOUR_CLIENT_ID&redirect_uri=YOUR_RI)

Params • Authorization Headers (8) Body Scripts Settings

Query Params

<input checked="" type="checkbox"/>	Key	Value
<input checked="" type="checkbox"/>	client_id	YOUR_CLIENT_ID
<input checked="" type="checkbox"/>	redirect_uri	YOUR_REDIRECT_URI
<input checked="" type="checkbox"/>	scope	YOUR_SCOPES
<input checked="" type="checkbox"/>	response_type	code
<input checked="" type="checkbox"/>	approval_prompt	force
<input checked="" type="checkbox"/>	access_type	offline
	Key	Value

- Open the URL in a web browser, authorize the application, and copy the authorization code from the URL.



## 2. Generate Refresh Token:

- In Postman, create a new request.
- Set the request type to "POST" and the URL to:

```
curl \
  -d "client_id={your client ID}" \
  -d "client_secret={your client secret}" \
  -d "redirect_uri={your redirect uri}" \
  -d "grant_type=authorization_code" \
  -d "code={retrieved your authorization code}" \
```

- In the body, select "x-www-form-urlencoded" and add the following parameters:

# Google Sheet Connector for ABBYY Vantage

ABBY-Google sheets connector / Retrieve refresh token Save Share

POST https://www.googleapis.com/oauth2/v4/token Send

Params Authorization Headers (9) **Body** Scripts Settings Cookies

none  form-data  x-www-form-urlencoded  raw  binary  GraphQL

Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/> client_id	{your client ID}			
<input checked="" type="checkbox"/> client_secret	{your client secret}			
<input checked="" type="checkbox"/> redirect_uri	{your redirect uri}			
<input checked="" type="checkbox"/> grant_type	authorization_code			
<input checked="" type="checkbox"/> code	{retrieved your authorization code}			
Key	Value	Description		

- Send the request and note down the refresh\_token from the response.

### 3. Configure the Refresh Token in Your Script:

- Modify the ABBYY Vantage Integration script to include your refresh token. This token will be used to generate access tokens when needed.

By following these steps, you ensure that your script can securely authenticate and interact with Google Sheets using OAuth 2.0.

After completing these steps, you can proceed with configuring the connector as described in the next sections.

# Configuring The Connector in ABBYY Vantage

This script retrieves table data from a Vantage document and updates a Google Sheet with the data, including handling header rows.

## Configuration

### Environment Variables:

- **GoogleSheet\_CLIENT\_ID**: Client ID for Google Sheets API.
- **GoogleSheet\_CLIENT\_SECRET**: Client Secret for Google Sheets API.
- **GoogleSheet\_REFRESH\_TOKEN**: Refresh Token for Google Sheets API.
- **GoogleSheet\_SHEET\_ID**: The ID of the Google Sheet to update.

## Step-by-Step Explanation

1. **Set Up Configuration Parameters** - Define configuration parameters that fetch secrets from the environment and the Google Sheet ID.
2. **Function to Get Access Token** - `getAccessToken()` - This function retrieves an OAuth 2.0 access token using the refresh token.
3. **Function to Read the First Row of the Google Sheet** - `readGoogleSheet(accessToken)` - This function retrieves the first row of the Google Sheet to check for headers.
4. **Function to Retrieve Table Data and Create a DataFrame** - `getTableData()` - This function retrieves table data from the Vantage document and formats it for Google Sheets.
5. **Function to Update Google Sheet** - `updateGoogleSheet(accessToken, tableData)` - This function updates the Google Sheet with the table data, including headers if necessary.
6. **Main Function to Orchestrate the Process** - `main()` - The main function orchestrates the entire process by fetching the access token, checking the Google Sheet for headers, retrieving table data, and updating the Google Sheet.

## Summary

This script effectively retrieves table data from a Vantage document, including handling invoice numbers and table headers, and updates a specified Google Sheet with this data. The main function ensures headers are added if they are missing from the Google Sheet. The process involves fetching an access token, reading the Google Sheet to check for headers, retrieving table data, and updating the Google Sheet with the formatted data.