

GRANDSTREAM Google Calendar API Integration User Guide

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GRANDSTREAM Google Calendar API Integration



Google Calendar API

[Google Enterprise API](#)

Manage calendars and events in Google Calendar.

ENABLE

TRY THIS API [↗](#)

Specifications

- Product Name: Google Calendar API Integration
- Requirements: Google Account with Workspace enabled, Grandstream device supporting Google Calendar API integration

FAQs

- **Q: What are the requirements for setting up the Google Calendar API integration?**
 - A: You need a Google Account with Workspace enabled and a Grandstream device supporting Google Calendar API integration.
- **Q: How can I enable Google Calendar API for my project?**
 - A: Access Google Cloud Marketplace, search for Calendar API, select your project, and enable the API.
- **Q: What is OAuth consent configuration?**
 - A: OAuth consent configuration involves setting up user types, authorized domains, developer contact information, and API scopes for the integration.

INTRODUCTION

This guide shows the steps required to create an API integration between Google Calendar and supported Grandstream devices. To set up this integration successfully, the user needs to have a Google Account with Workspace enabled to access Google Workspace API, and a Grandstream device that supports Google Calendar API integration.

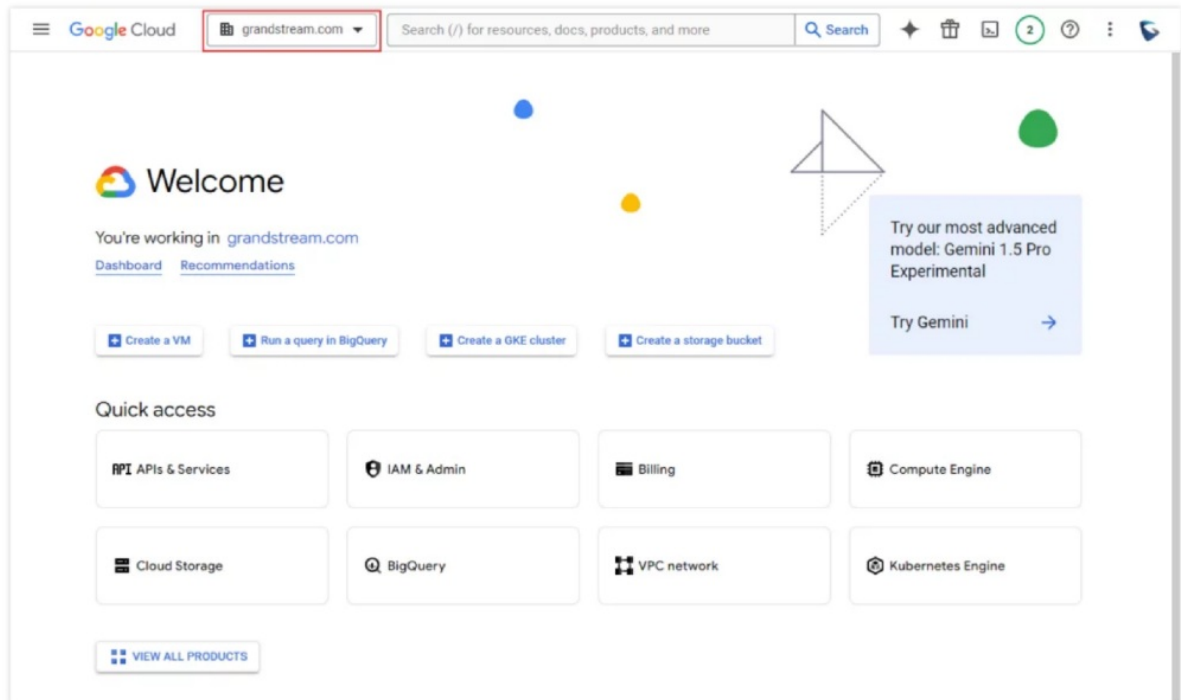
GOOGLE API CONFIGURATION

Create a Google Cloud Project

To use Google Workspace API, the user should access Google Cloud Console and create a project, to do that, please follow the steps below:

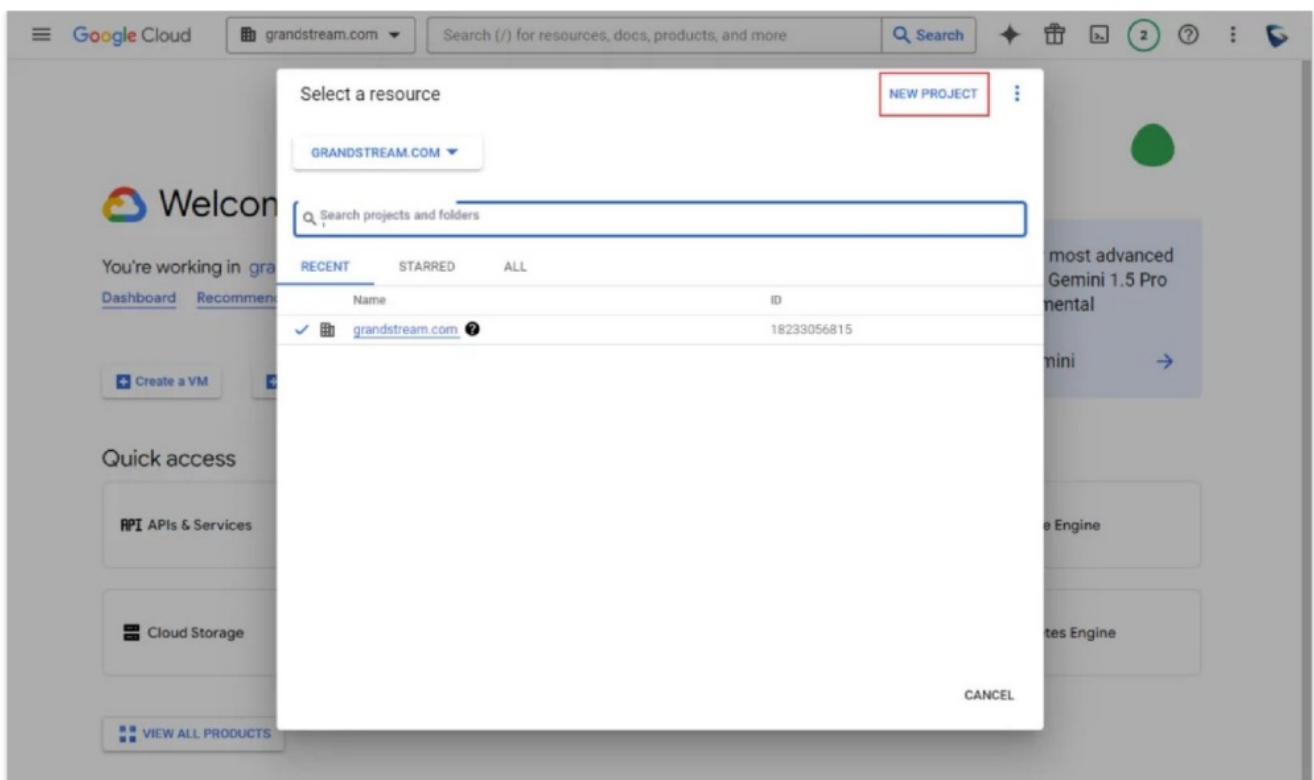
1. Please access Google Cloud Console using the following link: <https://console.cloud.google.com/>

2. Log in using your Google account if you have not done that already.
3. Once logged in, click on the name of your organization to open the list of projects, as shown in the screenshot below



Google Cloud Console Home Page

4. Click on “New Project” to create a new project



Projects List

5. Enter the project name and click “Create”

Google Cloud

Search (/) for resources, docs, products, and more

Search

New Project

You have 11 projects remaining in your quota. Request an increase or delete projects. [Learn more](#)

[MANAGE QUOTAS](#)

Project name *

My Project 44703

Project ID: corded-racer-421210. It cannot be changed later. [EDIT](#)

Organization *

grandstream.com

Select an organization to attach it to a project. This selection can't be changed later.

Location *

grandstream.com

[BROWSE](#)

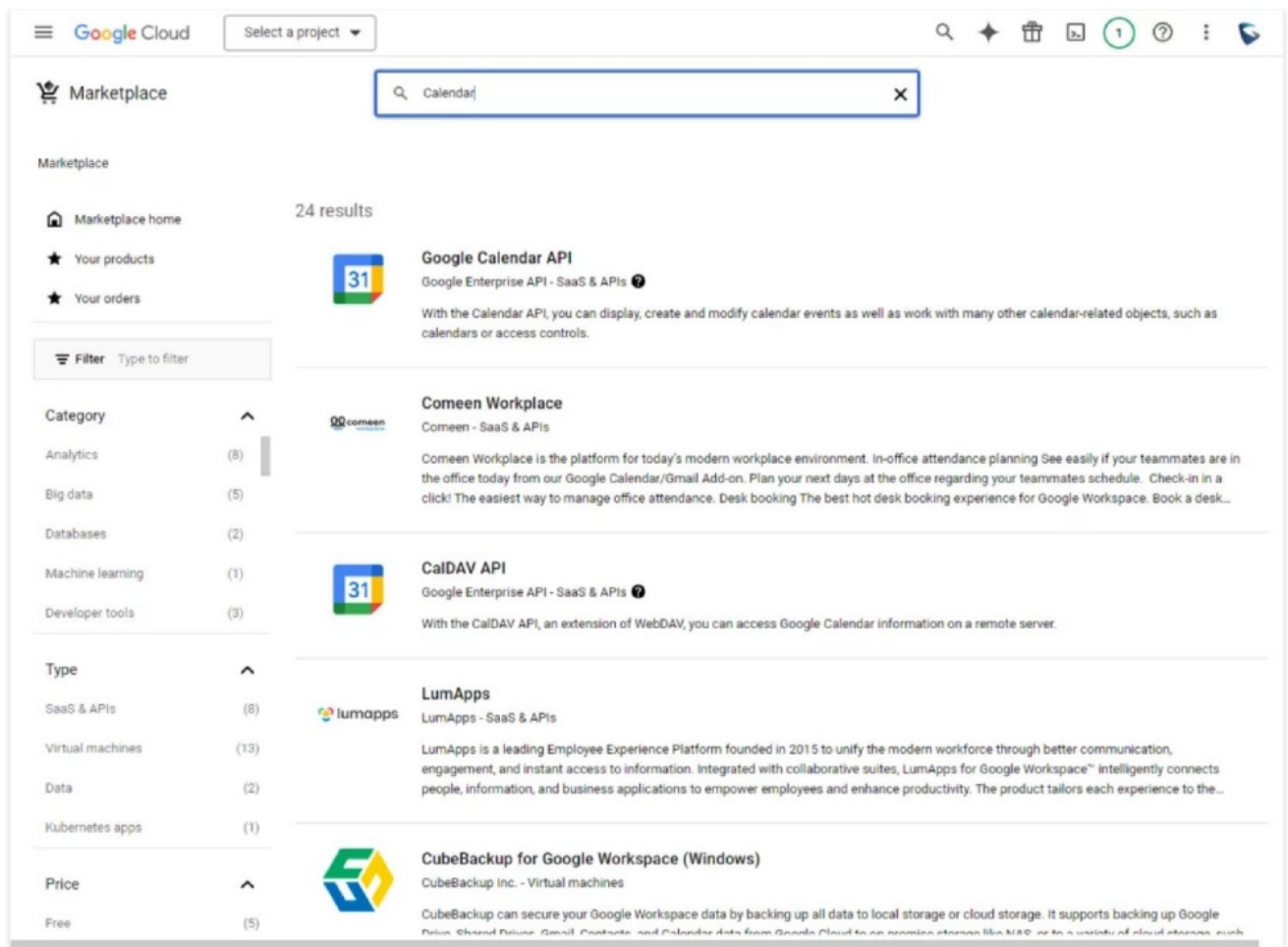
Parent organization or folder

[CREATE](#) [CANCEL](#)

Create New Project

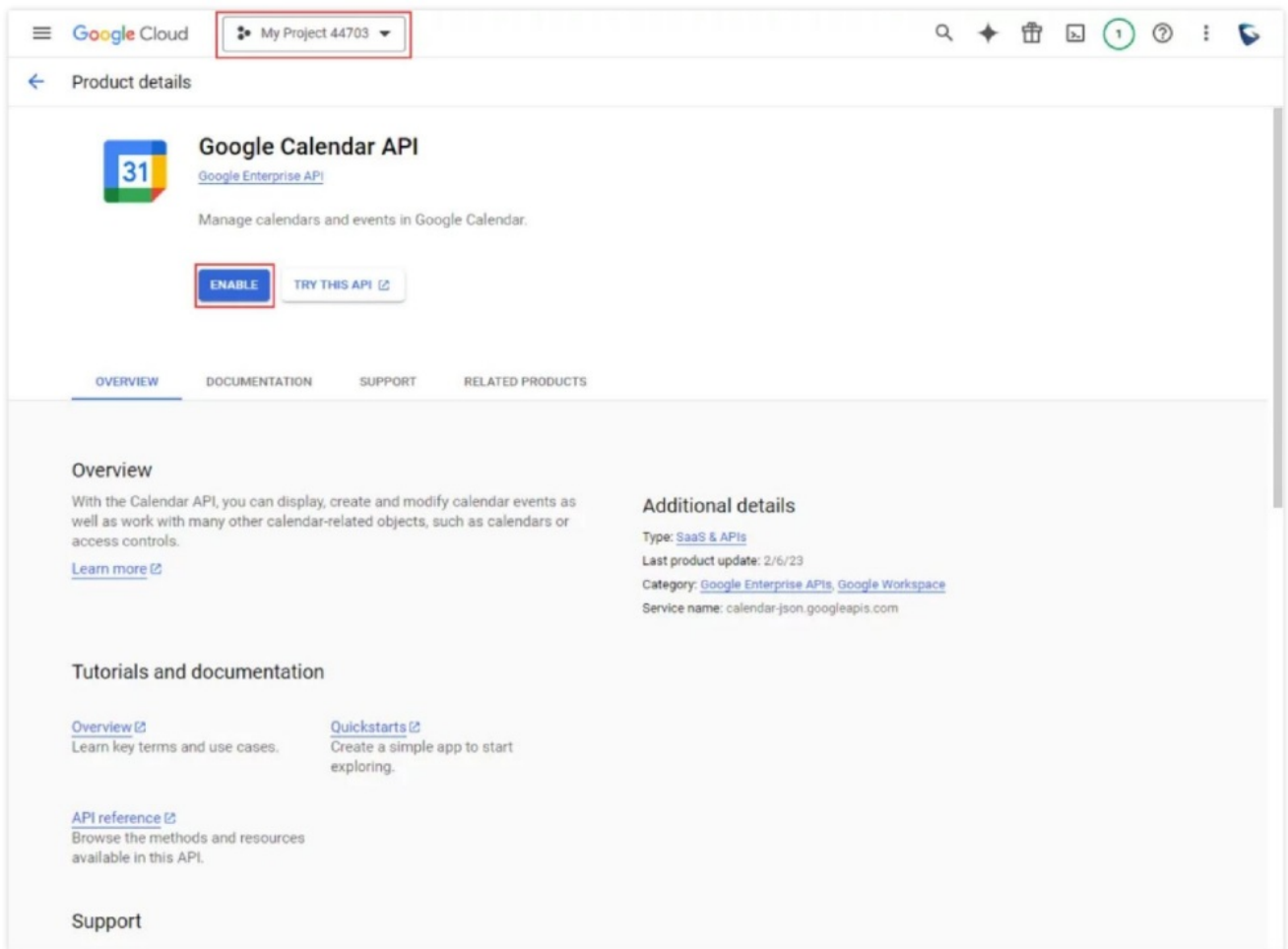
Enable Google Calendar API

1. Using the following link <https://console.cloud.google.com/marketplace> access the marketplace of Google Cloud and search for “Calendar”



Google Cloud Market Place

2. Click “Google Calendar API”, then make sure that your project is select, as highlighted on the top of the screenshot, then click on “Enable” to enable Google Calendar API.

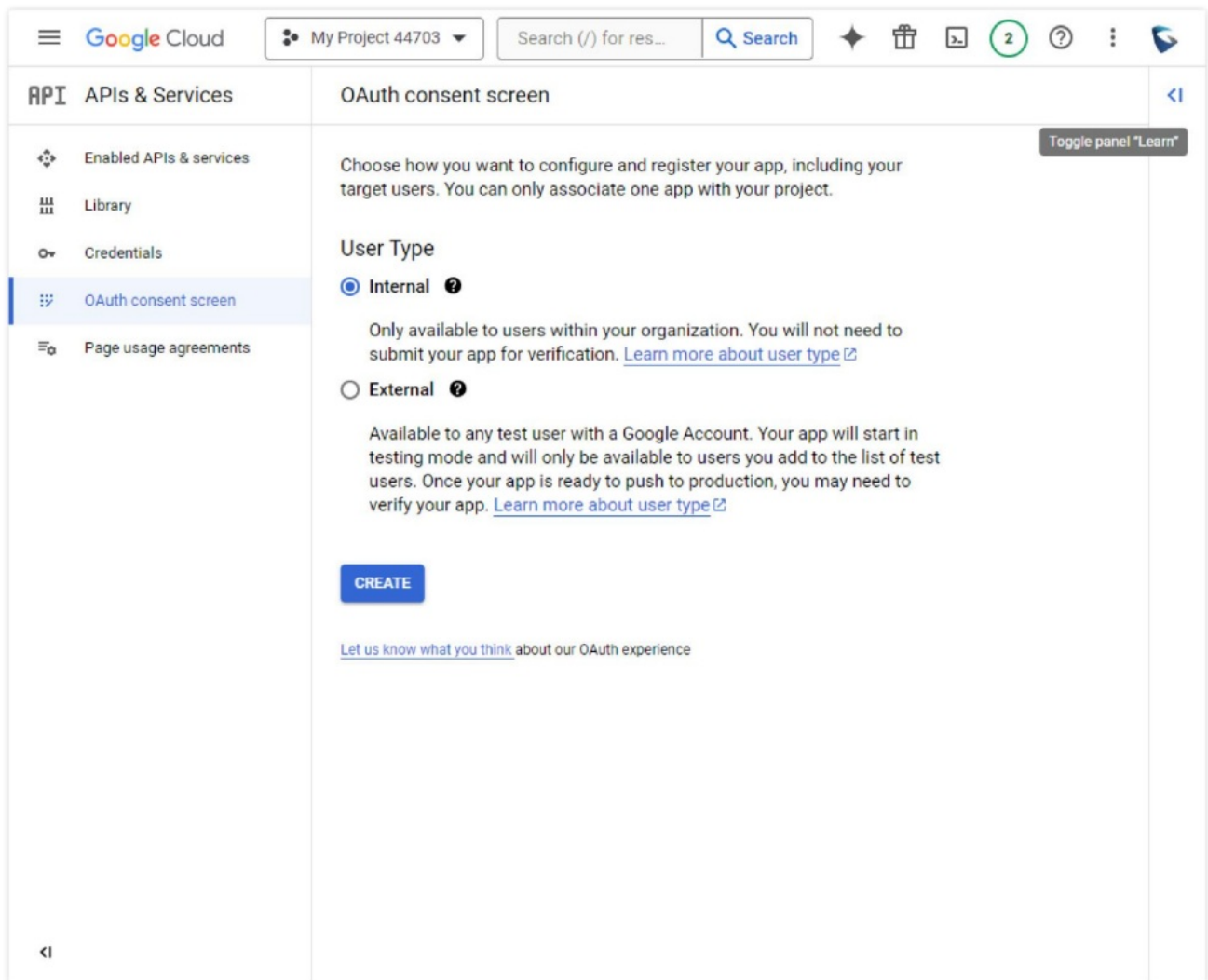


Enable Google Calendar API

OAuth Consent Configuration

In this section we will configure the types of users which can use the API integration

1. On the console of Google Cloud, on the side bar, click on “OAuth consent screen” as shown in the screenshot below, then select “Internal User” as the User Type. Please note that selecting this option means that only the users in the organization associated with the project will be able to user the API integration.



OAuth Consent Screen

2. Click on "Create" after selecting the user type.
3. Once that is done, now fill in the required fields.
- 4.

Google Cloud | My Project 44703 | Search (/) for resources, docs, products, a... | Search

APIs & Services

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

Edit app registration

1 OAuth consent screen — 2 Scopes — 3 Summary

App information

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

App name *
UCM6300
The name of the app asking for consent

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

App logo

This is your logo. It helps people recognize your app and is displayed on the OAuth consent screen.
After you upload a logo, you will need to submit your app for verification unless the app is configured for internal use only or has a publishing status of "Testing". [Learn more](#)

Logo file to upload [BROWSE](#)
Upload an image, not larger than 1MB on the consent screen that will help users recognize your app. Allowed image formats are JPG, PNG, and BMP. Logos should be square and 120px by 120px for the best results.

App domain

To protect you and your users, Google only allows apps using OAuth to use Authorized Domains. The following information will be shown to your users on the consent screen.

Application home page
Provide users a link to your home page

Application privacy policy link
Provide users a link to your public privacy policy

App Registration 1

Enter the authorized domain(s). Further in this guide, we will have to use a Redirect URI for OAuth authentication. The user should include the URI domain in the “Authorized Domain”. In the example below, we have set to authorize “grandstream.com” as the authorized domain.

Google Cloud My Project 44703 Search (/) for resources, docs, products, a... Search

APIs & Services

- Enabled APIs & services
- Library
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- Page usage agreements

Edit app registration

Logo file to upload [BROWSE](#)

Upload an image, not larger than 1MB on the consent screen that will help users recognize your app. Allowed image formats are JPG, PNG, and BMP. Logos should be square and 120px by 120px for the best results.

App domain

To protect you and your users, Google only allows apps using OAuth to use Authorized Domains. The following information will be shown to your users on the consent screen.

Application home page
Provide users a link to your home page

Application privacy policy link
Provide users a link to your public privacy policy

Application terms of service link
Provide users a link to your public terms of service

Authorized domains ?

When a domain is used on the consent screen or in an OAuth client's configuration, it must be pre-registered here. If your app needs to go through verification, please go to the [Google Search Console](#) to check if your domains are authorized. [Learn more](#) about the authorized domain limit.

Authorized domain 1 *

[+ ADD DOMAIN](#)

Developer contact information

Email addresses *

These email addresses are for Google to notify you about any changes to your project.

App Registration 2

5. Enter the developer contact email under “Developer contact information” then click on “Save and Continue”.
6. Then, click on “Add or Remove Scopes” to add the scopes related to Google Calendar API.

The screenshot shows the Google Cloud console interface for editing an app registration. The left sidebar lists navigation options: APIs & Services, Enabled APIs & services, Library, Credentials, OAuth consent screen (selected), and Page usage agreements. The main content area is titled 'Edit app registration' and has a progress bar with three steps: 1. OAuth consent screen, 2. Scopes (current), and 3. Summary. A red box highlights the 'ADD OR REMOVE SCOPES' button. Below this, there are three sections: 'Your non-sensitive scopes', 'Your sensitive scopes', and 'Your restricted scopes'. Each section contains a table with columns for API, Scope, and User-facing description, all of which are currently empty. At the bottom, there are 'SAVE AND CONTINUE' and 'CANCEL' buttons.

Google Cloud My Project 44703 Search (/) for resources, do... Search

APIs & Services

Enabled APIs & services

Library

Credentials

OAuth consent screen

Page usage agreements

Edit app registration

OAuth consent screen — 2 Scopes — 3 Summary

Scopes express the permissions 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

API ↑	Scope	User-facing description
No rows to display		

Your sensitive scopes

Sensitive scopes are scopes that request access to private user data.

API ↑	Scope	User-facing description
No rows to display		

Your restricted scopes

Restricted scopes are scopes that request access to highly sensitive user data.

API ↑	Scope	User-facing description
No rows to display		

SAVE AND CONTINUE CANCEL

API Scopes

7. Select the scopes which are related to Google Calendar API as shown in the screenshot below. Once selected, click on "Update"

Scopes

EDIT

API ↑	Scope	User-facing description
Google Calendar API	.../auth/calendar	See, edit, share, and permanently delete all the calendars you can access using Google Calendar
Google Calendar API	.../auth/calendar.acs	See and change the sharing permissions of Google calendars you own
Google Calendar API	.../auth/calendar.acs.readonly	See the sharing permissions of Google calendars you own
Google Calendar API	.../auth/calendar.readonly	See and download any calendar you can access using your Google Calendar
Google Calendar API	.../auth/calendar.app.created	Make secondary Google calendars, and see, create, change, and delete events on them
Google Calendar API	.../auth/calendar.calendarlist	See, add, and remove Google calendars you're subscribed to
Google Calendar API	.../auth/calendar.calendarlist.readonly	See the list of Google calendars you're subscribed to
Google Calendar API	.../auth/calendar.calendars	See and change the properties of Google calendars you have access to, and create secondary calendars
Google Calendar API	.../auth/calendar.calendars.readonly	See the title, description, default time zone, and other properties of Google calendars you have access to
Google Calendar API	.../auth/calendar.events	View and edit events on all your calendars

Rows per page:

10 ▾

1 – 10 of 17

<

>

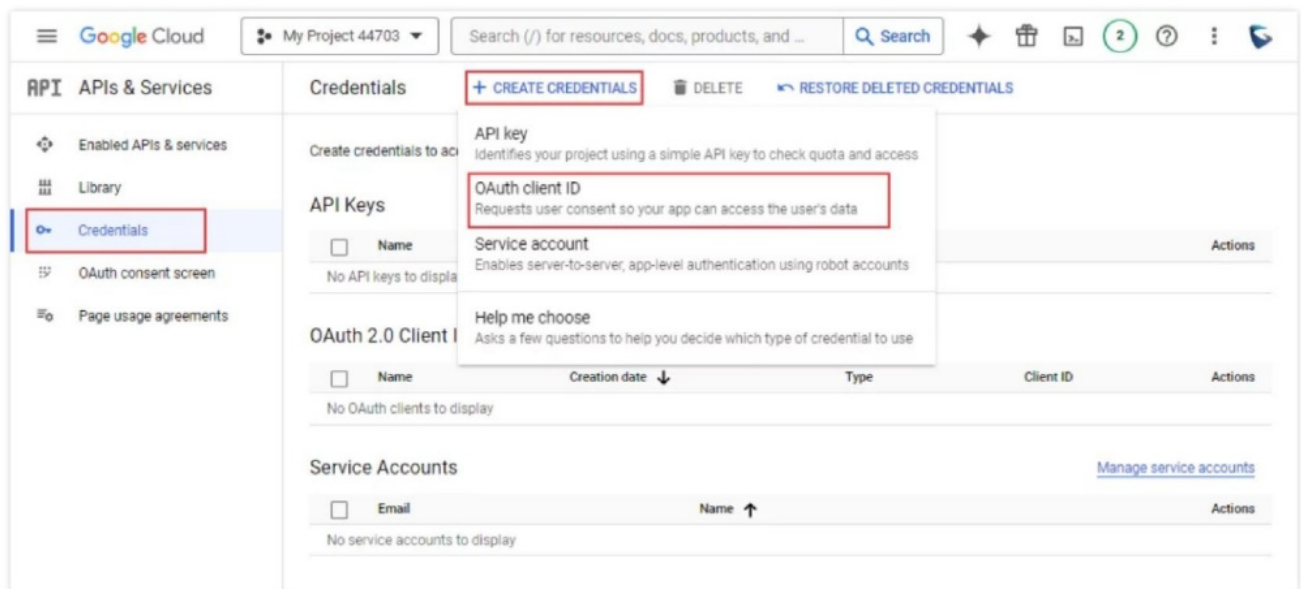
BACK TO DASHBOARD

Scope Configuration

Create API Credentials

The next step includes creating the credentials for the authentication. There are 3 types of credentials which can be created, but for this integration we will need to create OAuth credentials. Please follow the steps below to learn how to create them.

1. From the dashboard of Google Cloud Console, please click on “Credentials” on the left sidebar of the dashboard, click on “Create Credentials”, then click on “OAuth client ID”.



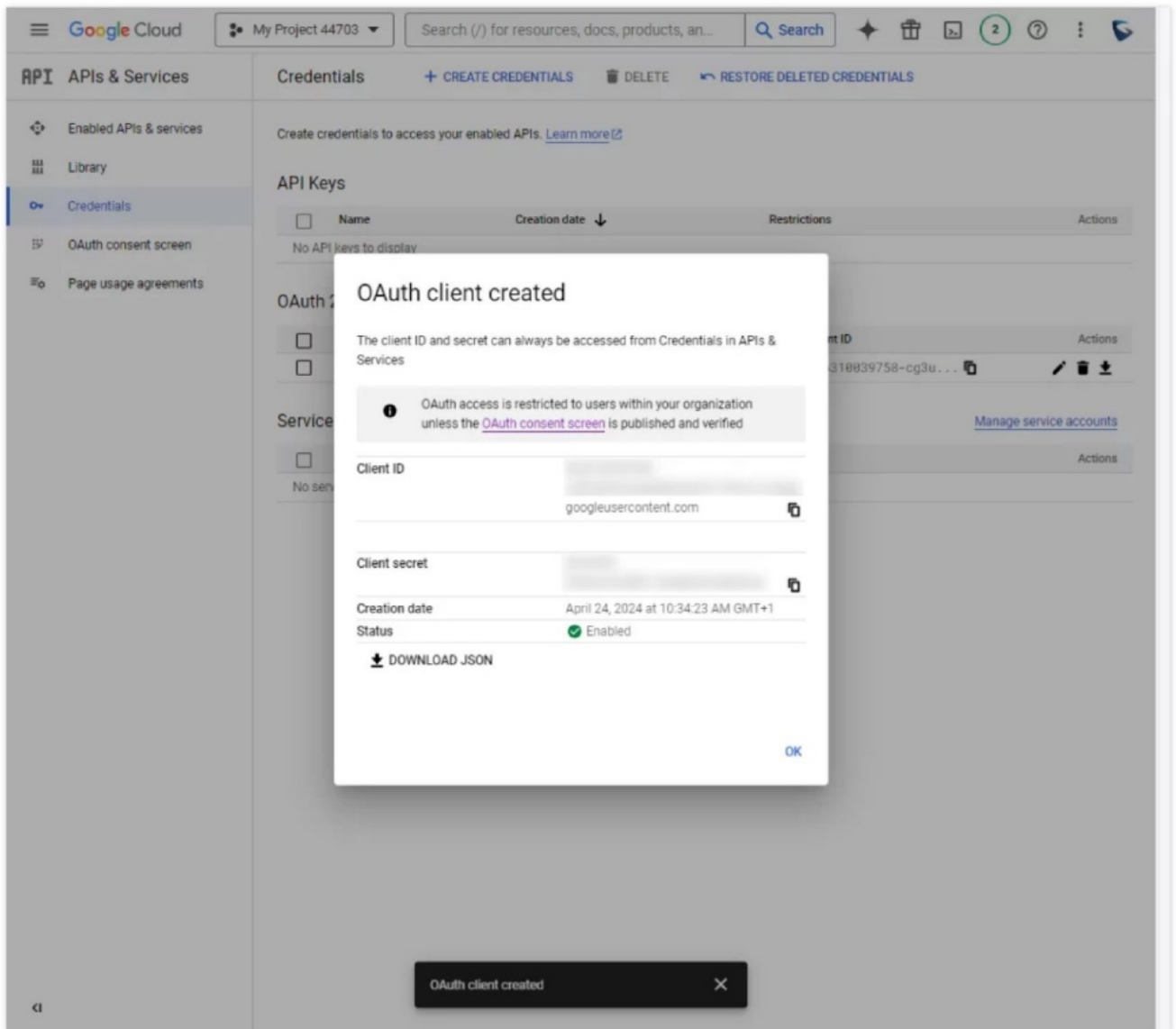
Create OAuth Credentials

2. Select “Web application” as the Application Type, then enter the name of the application in the corresponding field. Enter the URI which will be used for the redirection in Authorized redirect URIs. Once that is configured, please click on “Create”.

- **Note:** This may take from 5 minutes to a few hours to be set.

Authorized Redirect URIs Configuration

3. The Client ID and Client secret will appear, we will need to keep this window for the next step.



Client ID & Client Secret

API CLIENT CONFIGURATION

This section shows how to configure the API client using the Client ID and the Client secret that we have generated from the previous section. In this example, we are using a UCM6300 Audio Series unit to integrate with Google Calendar API. Please follow the steps below to connect the client to the API successfully.

1. Log into the UCM device using the super administrator account, then navigate to Integrations > Google Services, then copy and paste the Client ID and the Client secret in their respective fields. Enter the redirection URI in the Authorized redirect URIs, if you have set only one redirection URI on Google API, you can leave this field empty. Then click "Save"

Google Services

Google Calendar Authorization Google Calendar Settings

OAuth2.0 Authentication

• OAuth2.0 Client ID 826310039758-cg3u64hr58eorenee

• OAuth2.0 Client Secret GOCSPXf-HNne3jXnz8ZP_TsdNFbtx

Authorized redirect URIs https://ucm.grandstream.com/goog

Reset Save

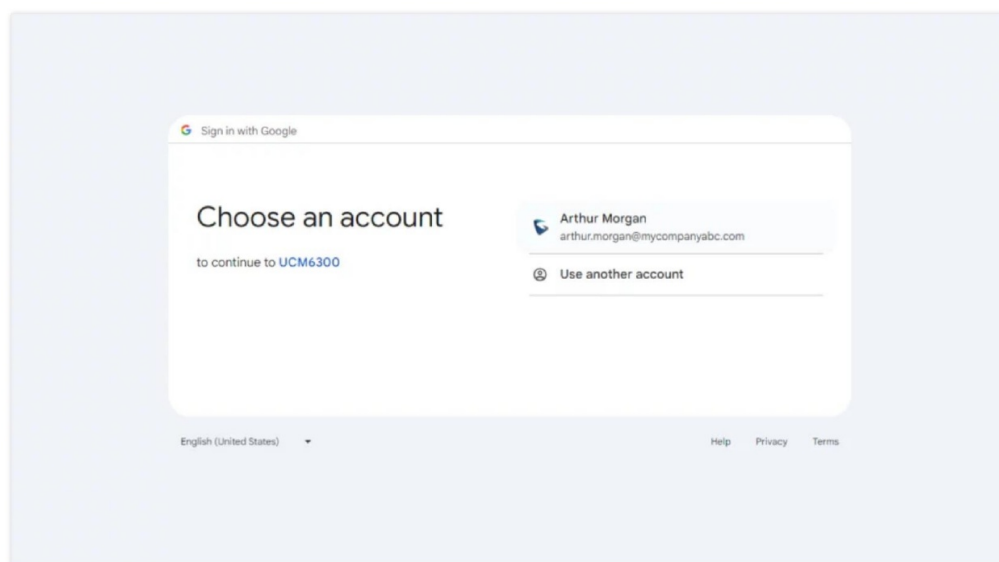
Google Calendar Authorization

1. Click "Get Authorization Code". [Get Authorization Code](#)
2. Enter the Google account and password (Note: Please make sure that the account information on the authorization page is correct. If you are not logged into the correct account, please log out and log back into the correct one.).
3. Click "Accept" on authorization page.
4. Copy the string to the Authorization Code input box, then click the "Authorize" button.

Authorization Code [Authorization](#)

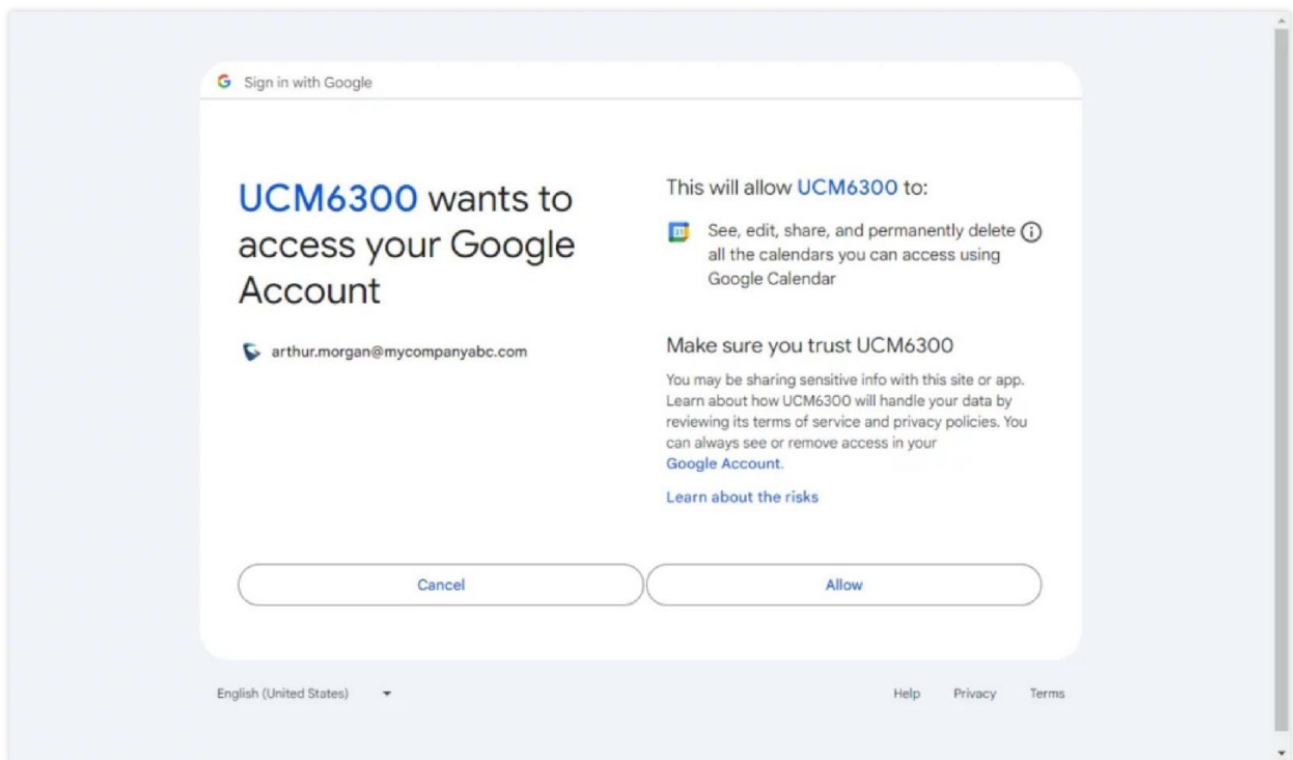
Google Calendar Integration

2. Click on [Get Authorization Code](#) to request access and provide consent to the integration.
3. Choose the account or log in using your Google account.



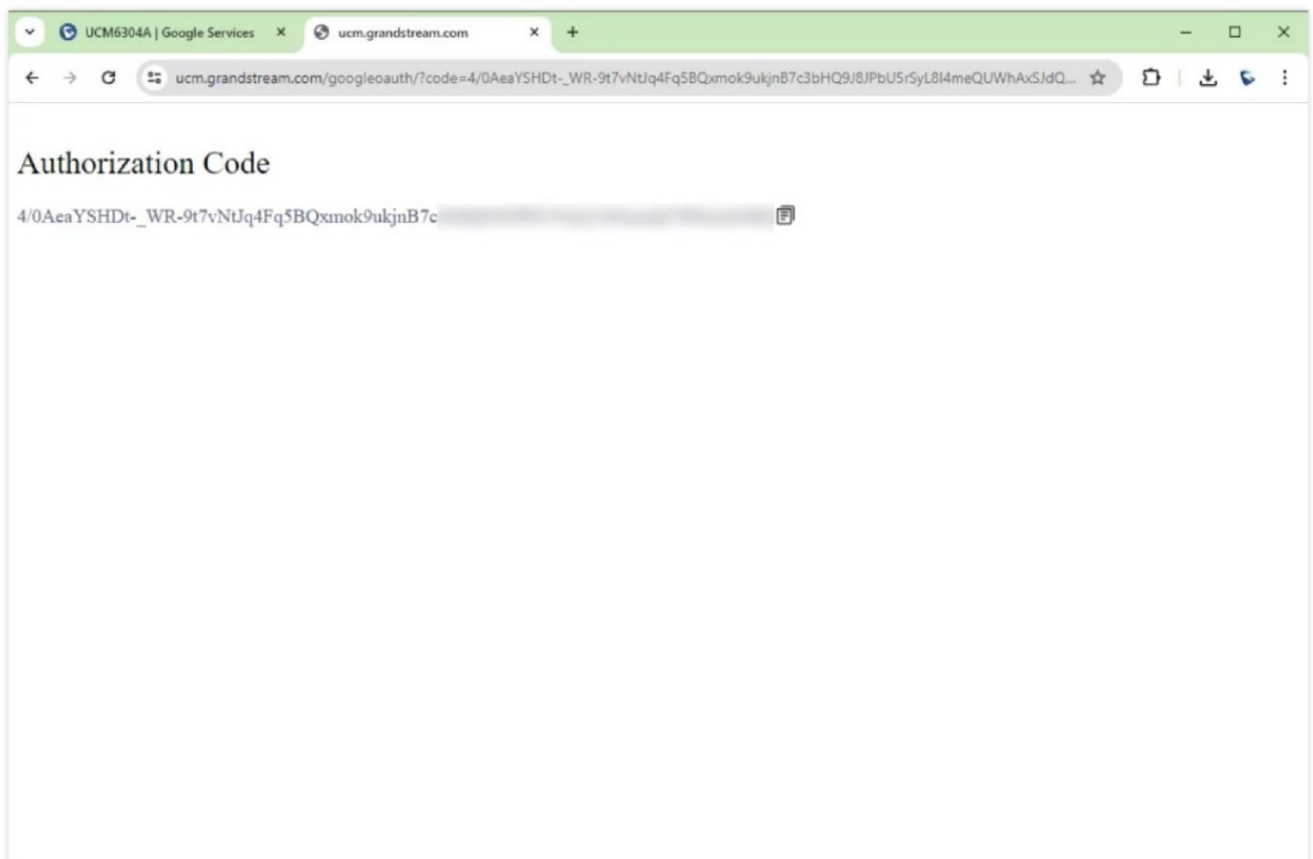
Google Sign in Page

4. Understand the requirements and permissions that will be granted then click "Allow"



Google Account Consent Page

5. A token will be generated after that which can be copied as shown below



Authorization Code

- You can also copy it directly from the address bar, as shown in green highlight below



Web Browser Address Bar

6. Paste the authorization token in Authorization Code field, then click [Authorization](#)

Google Services

[Google Calendar Authorization](#) [Google Calendar Settings](#)

Google Calendar Authorization

1

1. Click "Get Authorization Code".

Get Authorization Code

2

2. Enter the Google account and password (Note: Please make sure that the account information on the authorization page is correct. If you are not logged into the correct account, please log out and log back into the correct one).

3

3. Click "Accept" on authorization page.

4

4. Copy the string to the Authorization Code input box, then click the "Authorize" button.

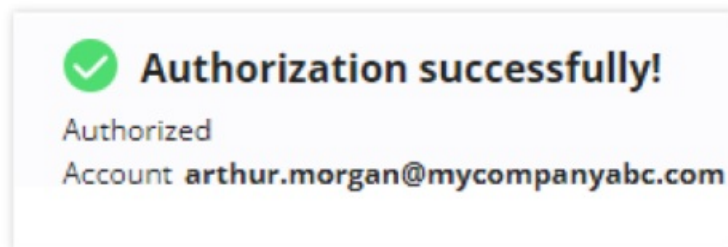
* Authorization Code

4/0

ok9uI

Authorization

- You will get to following message to indicate that the integrations has been done successfully.



Authorization Successful

EXAMPLE SCENARIO

To demonstrate how this option works, we will schedule meeting on the UCM. To do that, please navigate to Call Features > Multimedia Meeting (Meeting for UCM6300 Audio Series) > Meeting, then click on "Schedule Meeting". Make sure to enable "Sync to Google Calendar" as shown in the screenshot below. Then click "Save".

Meeting > Schedule Meeting

• Meeting Subject:

• Time:

Meeting Room: ☐ Public Meeting Room

• Time Zone:

Password:

• Host Password:

• Host:

Repeat:

Allow User Invite: ☒

Call Participants: ☒

• Email Reminder (m):

Allowed to Override Host Mute: ☐

• Auto Record:

Meeting Agenda:

Sync to Google Calendar: ☒ [Google Services](#)

Invitees:

- 1001 (Add Email Address) x
- 1002 (Add Email Address) x
- 1003 (Add Email Address) x
- 1004 (Add Email Address) x

Please enter and submit participants with the

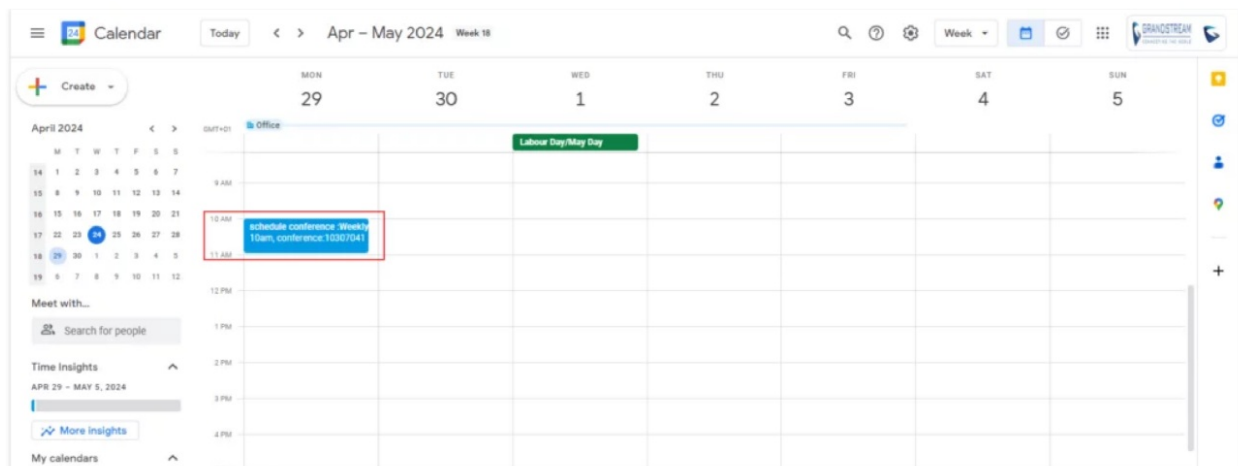
4/119

Add

1001, 1002, 1003, 1004 has not configured an email address and could not receive a meeting notification email.

Schedule a Meeting

The meeting will marked automatically on the calendar.




Google Calendar

SUPPORTED DEVICES

Device Model	Firmware Version
GCC6000 Series	PBX 1.0.25.11 or higher
UCM6300 Series	1.0.25.7 or higher
UCM6300 Audio Series	
CloudUCM	1.0.25.13 or higher

Documents / Resources

	<p>GRANDSTREAM Google Calendar API Integration [pdf] User Guide Google Calendar API Integration, Calendar API Integration, API Integration, Integration</p>
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References

- [Grandstream Networks - Networking & Unified Communications](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/Add-Scopes.webp](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/Authorization-Token.webp](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/Back-to-Dashboard.webp](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/Choose-account.webp](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/Create-Credentials1.webp](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/Create-New-Project.webp](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/Create-OAuth-client-ID.webp](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/Edit-App-Registration-2.webp](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/Edit-App-Registration.webp](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/Enable-Google-Calendar-API.webp](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/Google-Calendar-Allow.webp](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/Google-Cloud-Console-Welcome-Page.webp](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/Google-Service-Configuration.webp](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/Integration-Successful.webp](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/Market-Place-Search.webp](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/Meeting-marked-on-the-calendar.webp](#)
- [documentation.grandstream.com/wp-content/uploads/2024/04/OAuth-Client-Created.webp](#)

- [!\[\]\(effbd7993c63c039a58fd3395789cf3f_img.jpg\) documentation.grandstream.com/wp-content/uploads/2024/04/OAuth-Consent-Screen.webp](https://documentation.grandstream.com/wp-content/uploads/2024/04/OAuth-Consent-Screen.webp)
- [!\[\]\(144980d038f2541d7b588a8a9132bd70_img.jpg\) documentation.grandstream.com/wp-content/uploads/2024/04/Organization-Projects.webp](https://documentation.grandstream.com/wp-content/uploads/2024/04/Organization-Projects.webp)
- [!\[\]\(c4ce2d477989700c971cf3d240ad9283_img.jpg\) documentation.grandstream.com/wp-content/uploads/2024/04/Scheduled-Meeting-Google-Services.webp](https://documentation.grandstream.com/wp-content/uploads/2024/04/Scheduled-Meeting-Google-Services.webp)
- [!\[\]\(5013555a72072875cb154b597e002a46_img.jpg\) documentation.grandstream.com/wp-content/uploads/2024/04/Select-Scopes.webp](https://documentation.grandstream.com/wp-content/uploads/2024/04/Select-Scopes.webp)
- [!\[\]\(bf2038c114ec21ea58ad011774351c98_img.jpg\) documentation.grandstream.com/wp-content/uploads/2024/04/Token-Generated.webp](https://documentation.grandstream.com/wp-content/uploads/2024/04/Token-Generated.webp)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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