OAuth 2 is an authentication and security procedure created by Google that is used by Avaya products to integrate with Google’s applications, such as Gmail. This document is provided as a guideline to setting up OAuth 2 for use with Avaya applications.
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Install and configure OAuth2.0

OAuth 2.0 provides secure user authentication and is required for Gmail to access the messaging servers.

OAuth 2.0 Setup

2. Click the Navigation menu : Select IAM & admin > Manage resources.
3. Click CREATE PROJECT.
4. Give the new project a name, then click Create.

5. Open the navigation menu and select IAM & Admin > IAM. Ensure that the project you just created is chosen in the Select Project dropdown menu.
6. Return to the **IAM & admin** page through the Navigation menu, then select **Service accounts**. Click **CREATE SERVICE ACCOUNT**.

7. Give the account a name and a description, then click **Create**.
8. From the Select a Role dropdown menu, choose **Project > Owner**. Click **Continue**.

9. Click **Create Key**. Enable the **P12** option, and click **Create**.
10. The private key file will be created with a .p12 extension. Make note of where the file is saved. Copy the file to both the C:\UC\UCCSE and C:\UC\IMAPTSE folders. (Change the path accordingly if your program is installed on a different drive.)

11. Record the Private key password (notasecret) and click Close.

12. Click Done.
13. Open the Navigation Menu and select **APIs and Services**. Click **OAuth consent screen**.

14. Enter an **Application name** for this configuration and click **Save**.

15. From the Navigation menu, go to **IAM & admin > Service accounts**. For the account you just created, click the menu icon and choose **Edit**.
16. Expand **Show Domain-Wide Delegation** and turn on **Enable G Suite Domain-wide Delegation**. When ready, click **Save**.
17. Record the Email address (for step 22). Click View Client ID. Record the Client ID (for step 28).

**Hint**: You can drag the mouse over the Client ID value or the Email address, copy and paste them string into Notepad. This helps to prevent copy errors.

18. From the Navigation menu, open APIs & Services, and select Library.

From the list, choose G Suite.
19. Choose Admin SDK, then click Enable.

20. Once enabled, return to the G Suite page (Navigation Menu > APIs & Services > Library > G Suite). Repeat to enable all of the following APIs:
   - Google Calendar API
   - Google Drive API
   - Gmail API

21. Return to the Library, selecting Social this time, then enable Contacts API.

**Hint:** While these settings will work for most sites, not all sites will want to open all of these channels if they are not required. See Minimum Required Scopes and APIs by Product for details.

22. Rename both copies of the P12 file from step 10 to match the email address recorded in step 17. Include the domain and the .com extension.

**Caution:** Do Not change the extension of the file. Always ensure it retains the P12 extension.
Domain Setup

23. Login to Google as an administrator.
24. Click Settings and choose Manage this domain.

25. If prompted, provide the necessary administrator account and password details to login.
26. At the Admin Console, choose Security and select Advanced settings.
27. Click **Manage API client access**.

![Manage API client access](image)

28. Enter the Client ID value from step 17 into the **Client Name** field. In the space for **One or More API Scopes**, enter the following string:


![Manage API client access](image)

**Hint**: Copy and paste the string above into the scopes field in Chrome. This will greatly reduce the chance of misspelling the entry and breaking the configuration.

**Hint**: While these settings will work for most sites, not all sites will want to open all of these channels if not required. See **Minimum Required Scopes and APIs by Product** for details.

29. When ready, click the **Authorize** button.

30. Verify that the selected scopes were successfully installed.

![Manage API client access](image)

**OAuth2 and IX Messaging High Availability (HA)**

When using OAuth2 in an HA environment, the private key must be copied to both of these locations on the **Consolidated** server (**C:\UC\IMAPTSE** and **C:\UC\UCCSE**).
Minimum Required Scopes and APIs by Product

Enabling all of the listed scopes and APIs will work for most situations. However, not all administrators will want to open all of these channels if it is not necessary. This table shows the minimum required scopes and APIs for each product.

<table>
<thead>
<tr>
<th>SCOPES * (see below)</th>
<th>IX MESSAGING</th>
<th>ZANG CONNECT FOR CISCO</th>
<th>ZANG CONNECT FOR CISCO JABBER</th>
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* The full paths for all listed scopes are displayed here.

auth/admin - https://www.googleapis.com/auth/admin.directory.user.readonly
auth/calendar - https://www.googleapis.com/auth/calendar
auth/drive - https://www.googleapis.com/auth/drive
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