

Using Google Gemini Adapter in Oracle Integration

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1. Learn about the Google Gemini Adapter

Explore the key concepts to understand the Google Gemini Adapter and how to use it as a connection in integrations in Oracle Integration.

Topics Covered:

- [Features and Capabilities](#)
- [What Application Version Is Supported?](#)

1.1. Features and Capabilities

The Google Gemini Adapter enables Oracle Integration users to invoke Google Gemini from integration flows for text generation, analysis, classification, summarization, translation, structured extraction, document and image analysis, and text embedding.

The Google Gemini Adapter provides the following capabilities:

- Supports Outbound connection to Google Gemini for using Gemini responses within Oracle Integration flows.
- API Key-Based Authentication to connect Oracle Integration with Google Gemini securely.
- Design-time model selection in the adapter wizard to choose the Gemini model required for the selected operation.
- Multiple guided invoke Google Gemini operations for analysis, content generation, and utilities use cases.
- Structured mapper inputs and normalized output fields to map prompts, Gemini responses, categories, email content, embedding values, and safety ratings in integrations.

1.2. What Application Version Is Supported?

By default, the supported REST API version is v1, which is the stable version.

2. Creating and configuring a Google Gemini adapter connection

Before you can use the adapter in an integration, you must create a connection in Oracle Integration. The following section explains how to set up and configure the connection.

- [Prerequisites for Creating a Connection](#)
- [Steps to Create a Connection](#)

2.1. Prerequisites for Creating a Connection

You must complete the steps below before setting up the connection:

Access Requirements

Before configuring the Google Gemini Adapter, ensure that you have:

1. An Oracle Integration user account with permission to create connections and configure integrations.
2. A Google account with access to Google AI Studio.
3. Permission to create API keys and enable the Generative Language API.

Required Configurations

Complete the following setup steps before creating the adapter connection:

1. Sign in to [Google AI Studio](#).
2. **Accept** the Google AI Studio and Gemini API terms when prompted.
3. Use the default Google Cloud project created by AI Studio or click **Import project** to use an existing Google Cloud project.
4. **Enable** the Generative Language API.
5. Click **Create API key** to generate a Gemini API key. See [Gemini API keys](#).
6. Click **Copy** and store the API key securely.
7. Restrict the API key to Gemini API usage where possible.
8. Configure billing alerts, quota controls, and access controls according to your organization's policy.

2.2. Steps to Create a Connection

Follow the steps mentioned below to set up a connection with the applications you want to exchange data with.

- a. Navigate to **Design >Connections** in Oracle Integration.
- b. Click **Create**.

Note: You can also create a connection directly from the integration canvas. Refer to [Define Inbound Triggers, Outbound Invokes, and Actions](#). For more details.

- c. In the **Create Connection** panel, find the adapter you want to use by either scrolling through the list or typing its name in the search bar.
- d. Fill in the connection details:
 1. **Name:** Provide a clear and descriptive name. The system will automatically turn it into an uppercase Identifier (e.g., GOOGLEGEMINI_INVOKE). Avoid using spaces.
 2. **Role:** Select the connection Role -invoke or trigger.

3. **Note:** The list will show only the roles that the adapter will support. If you choose only one role and later try to use the other, you may encounter errors. For example, a Google Gemini Adapter set to invoke only will not work as a trigger.
 4. **Optional:** You can add Keywords to identify the connection later and a description to explain its purpose
- e. Click **Create**.

Your connection is now created. The next step is to configure connection settings, such as properties, security, and agent group (if needed).

2.2.1. Configure Connection Security

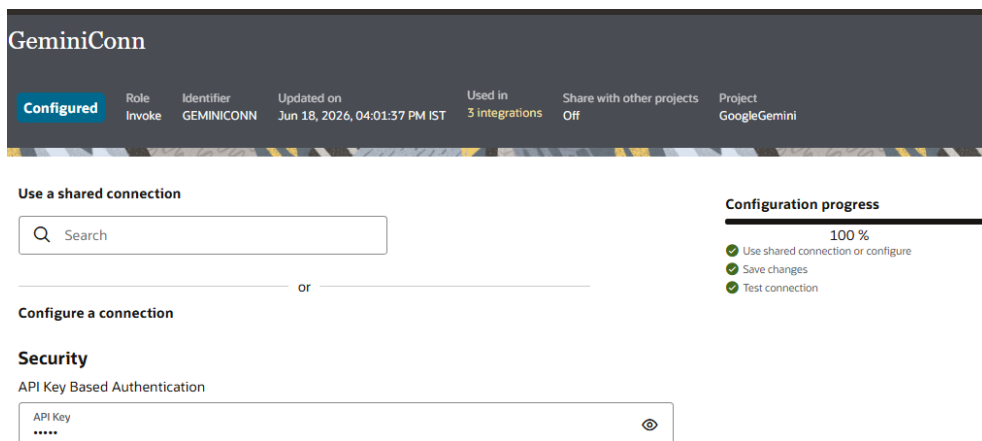
Enter the necessary information to set up the connection.

1. Navigate to the **Properties** section.
2. Select the **API Key-Based Authentication** as the security policy.
3. Enter the **Gemini API Key** generated in Google AI Studio.

2.2.2. Test the Connection

Test your connection to ensure that it is configured successfully.

1. In the page title bar, click **Test**.
2. A confirmation message indicates whether the connection is configured properly or not.
3. If the test was successful, then the connection has been configured.
4. If the test fails, review, cross-check for typos, and confirm the accuracy of URLs and credentials. Update and retest until you can test the connection successfully.
5. When complete, once again click **Save**, then click .



GeminiConn

Configured	Role Invoke	Identifier GEMINCONN	Updated on Jun 18, 2026, 04:01:37 PM IST	Used in 3 integrations	Share with other projects Off	Project GoogleGemini
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Use a shared connection

or

Configure a connection

Security

API Key Based Authentication

API Key

Configuration progress

100 %

- ✓ Use shared connection or configure
- ✓ Save changes
- ✓ Test connection

3. Adding the Adapter to an Integration

Once the connection is created, you can add it to an integration flow. When you drop the Google Gemini Adapter onto the canvas, the Adapter Endpoint Configuration Wizard launches.

The following sections describe the wizard pages that guide you through the configuration of the Google Gemini Adapter as an invoke in the integration.

Topics:

- [Basic Info Page](#)
- [Configuration Page](#)
- [Summary Page Element](#)

3.1. Basic Info Page

On the **Edit Basic Info** page, enter the endpoint details and select the Google Gemini operation to configure.

Field	Description
What do you want to call your endpoint?	Provide a clear and descriptive name that helps others understand the purpose of the connection. For instance, if you're setting up a database connection to add new employee data, a suitable name could be CreateEmployeeInDB. Naming rules: • You may use letters (a-z, A-Z), numbers (0–9), dashes (-), and underscores (_) Do not use: • Spaces (e.g., My DB Connection) • Special characters (e.g., #;83& or righ(t)now4) • Multibyte characters
What does this endpoint do?	Optionally, you can enter a description stating the use of this connection.
Select Operation Type	Select the functional category for the Gemini action. Available options are: • Analysis • Content Generation • Utilities
Action	Select the specific Gemini action to perform. The available actions that change based on the selected operation type are: • Draft Email • Send Messages to Gemini Models • Summarize Text • Translate Text

Operation Type and Available Actions on Basic Info Page

Operation Type	Available Actions	Designation
Analysis	Analyze Document, Analyze Image, Analyze Text, Categorize Text, Parse Text	Analyze documents, images, and text, classify content, or extract required information.
Content Generation	Draft Email, Send Messages to Gemini Models, Summarize Text, Translate Text	Generate email content, send prompts to Gemini, summarize text, or translate content.
Utilities	Generate Text Embedding	Generate embedding values from input text for similarity, search, or classification use cases.


Edit Basic Info
Google Gemini invoke

invoke

Select Operation Type

Analysis

Action

Analyze Document

Analyze Image

Analyze Text

Categorize Text

Parse Text

Cancel

Continue


Edit Basic Info
Google Gemini invoke

invoke

Select Operation Type

Content Generation

Action

Draft Email

Send Messages to Gemini Models

Summarize Text

Translate Text

Cancel

Continue


Edit Basic Info
 Google Gemini invoke

What do you want to call your endpoint?
 invoke

What does this endpoint do?

Select Operation Type
 Utilities

Action
 Generate Text Embedding

3.2. Configuration Page

On the **Edit Configuration** page, select the Gemini model to use for the selected invoke action.

Field	Description
Select a Model	Select the Gemini model that the adapter must use to process the request. The selected model is used at runtime for the configured action based on the Gemini subscription.


Edit Configuration
 Google Gemini invoke

Select a Model

Required

3.3. Summary Page Element

Element	Description
Summary	Displays a summary of the configuration values you entered in the previous steps of the wizard. Summary - To modify any settings, click Go Back. - To discard your changes, click Cancel. - To save and complete the configuration, click Finish.

4. Implementing business use cases using the Google Gemini Adapter

You can use the Google Gemini Adapter to implement the following common pattern:

Summarize ServiceNow incidents using the Google Gemini Adapter

This use case describes how ServiceNow incident details received through a REST trigger in Oracle Integration can be summarised with the Google Gemini Adapter and updated in ServiceNow before the incident is routed to a support team.

This use case involves the following adapters and their respective operations:

- **REST Adapter** (trigger connection): receives incident details such as incident number, short description, and description from an external application.
- **Google Gemini Adapter** (invoke connection): summarizes the incident description using the Summarize Text action.
- **ServiceNow Adapter** (invoke connection): updates the matching ServiceNow incident with the generated summary.

Follow the steps below to implement the use case.

1. Create Google Gemini and ServiceNow connections in Oracle Integration.
2. Create a new app-driven orchestration integration.
3. Configure the REST Adapter as the trigger connection.
4. Configure the REST trigger endpoint to accept incident details in the request payload, such as incidentNumber, shortDescription, and description.
5. Drag a mapper after the REST trigger and map the incident description or shortDescription plus description to the Google Gemini request.
6. Drag the Google Gemini Adapter into the integration canvas.
7. Configure the Google Gemini adapter endpoint as follows:
 - a. Provide a meaningful name on the Basic Info page, for example geminiInvoke.
 - b. Select operation type as **Content Generation** or **Analysis**.
 - c. Select action as **Summarize Text**.
 - d. Select the required **Gemini model**.
 - e. Review and confirm your selections on the Summary page.
8. In the mapper, map the REST request incident text to sourceText.
9. Set maximumWords, for example 50 or 25, to control the summary length.
10. Drag the ServiceNow Adapter into the integration canvas.

11. Configure the ServiceNow adapter endpoint to update an incident record.
12. In the mapper, map the incidentNumber from the REST request to identify the ServiceNow incident.
13. Map the Google Gemini geminiReply response to the ServiceNow work notes, comments, or summary field.
14. Add a final mapper to return the incident number, generated summary, and ServiceNow update status in the REST response.
15. Click **Validate**.
16. Add incidentNumber as the tracking element in the Business identifier field and save the flow.
17. When complete, activate the integration.

Sample REST request payload

```
{  
  "incidentNumber": "INC0012345",  
  "shortDescription": "User unable to access VPN",  
  "description": "User reports VPN connection fails after  
password reset. The issue started this morning and affects  
remote access."  
}
```