



OpenAI Plugin for BridgeLink

User Manual

Table of Contents

1 Introduction.....	3
1.1 Why OpenAI?.....	3
1.2 Key Features.....	3
2 Getting Started.....	3
3 Installation.....	3
4 OpenAI Account Setup.....	3
4.1 Create Your OpenAI API Key.....	4
4.2 Plugin Setup in BridgeLink.....	5
5 Usage.....	5
5.1 JavaScript Code Debugger.....	5
5.2 Message Generator.....	8
6 Document Control.....	9

1 Introduction

The OpenAI plugin integrates OpenAI ChatGPT models into BridgeLink to provide real-time assistance with JavaScript code development. ChatGPT can help clarify concepts, suggest solutions, provide explanations, and offer guidance on resolving bugs and errors. It can also generate HL7 messages (such as ADT, ORU, ORM) for testing purposes.

1.1 Why OpenAI?

OpenAI ChatGPT helps healthcare software engineers quickly identify and troubleshoot issues in their JavaScript code using powerful AI models. The models understand complex code structures and provide debugging suggestions, saving time and effort in the development process.

1.2 Key Features

Feature	Description
JavaScript Code Debugger	Identify and troubleshoot issues in JavaScript code with AI-powered suggestions for debugging, optimization, and explanation.
Message Generator	Generate standardized HL7 messages based on user-selected message type, event type, and count, streamlining interface testing.

2 Getting Started

Review the installation prerequisites and verify compatibility with your existing BridgeLink setup. The sections that follow will walk you through configuration and usage of the OpenAI plugin.

3 Installation

If you are using BridgeLink packaged by Innovar Healthcare from the AWS Marketplace, the plugin is pre-installed on "Advanced with SSL" and "Advanced with SSL Autoscaling" editions starting with version 4.5 and greater.

If you need to reinstall or update the plugin, follow these steps:

1. Log into BridgeLink and click **Extensions** in the top menu.
2. At the bottom of the Extensions screen, click **Browse**.
3. Locate and select the plugin ZIP file on your local machine, then click **Open**.
4. Click **Install** to upload the file.
5. Restart the BridgeLink service to complete the installation.

4 OpenAI Account Setup

4.1 Create Your OpenAI API Key

If you do not already have a key, create or log into your OpenAI account:

1. In the OpenAI console, go to API keys > Create new secret key.
2. Give a name for your key and click "create secret key".

Important: Save your API key in a safe location. You will not be able to view it again after closing the dialog.

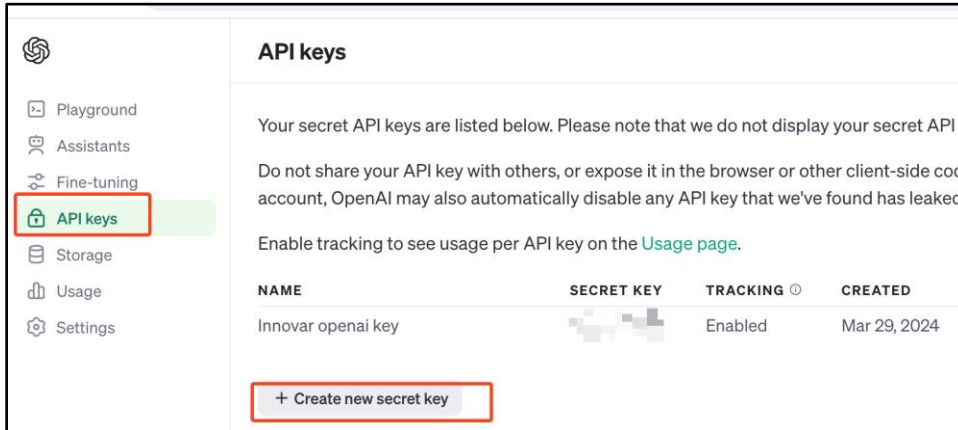


Figure 1: OpenAI API keys console

3. Add your billing information: go to Settings > Billing > Add payment method.
4. Click "Add to credit balance" to purchase credits.

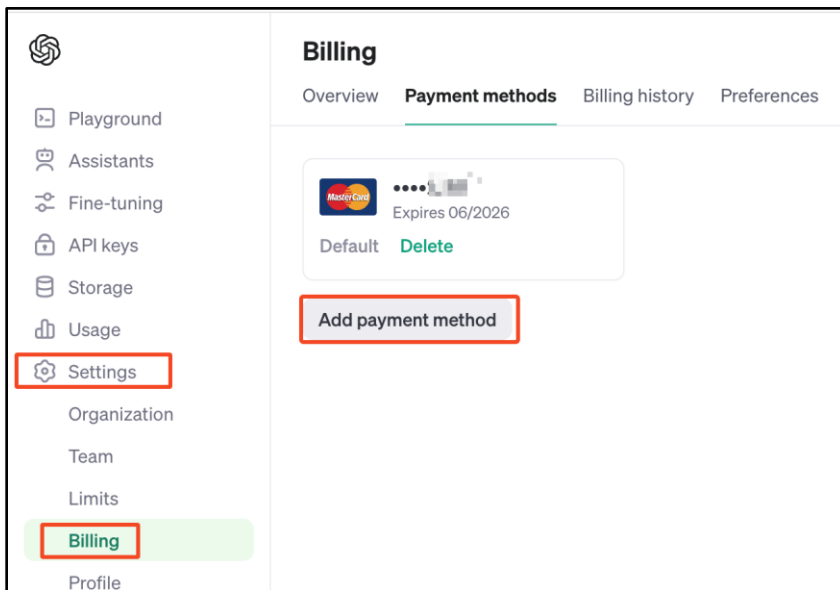


Figure 2: OpenAI billing payment methods

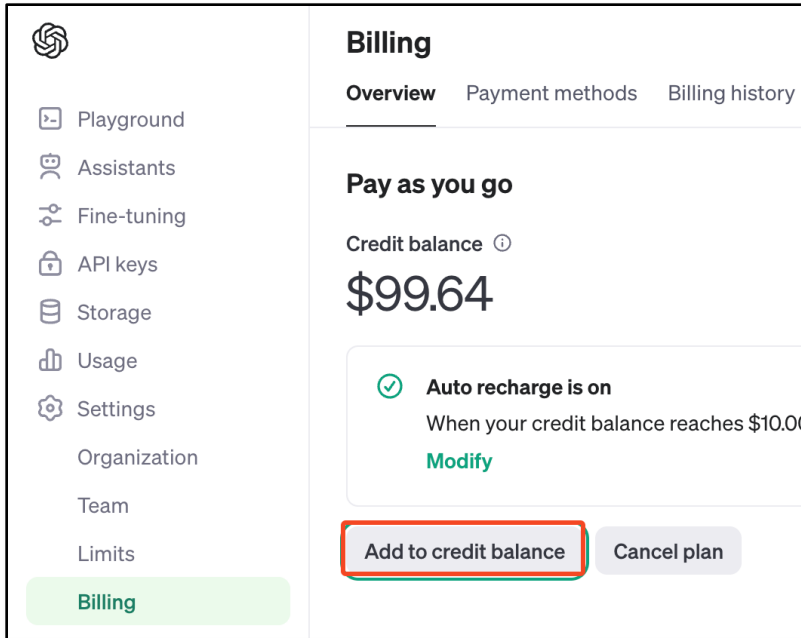


Figure 3: OpenAI billing overview with credit balance

4.2 Plugin Setup in BridgeLink

In the BridgeLink Administrator, navigate to **Settings > OpenAI Setting** and enter your OpenAI API key. Select your preferred model, then click **Save** on the left panel.

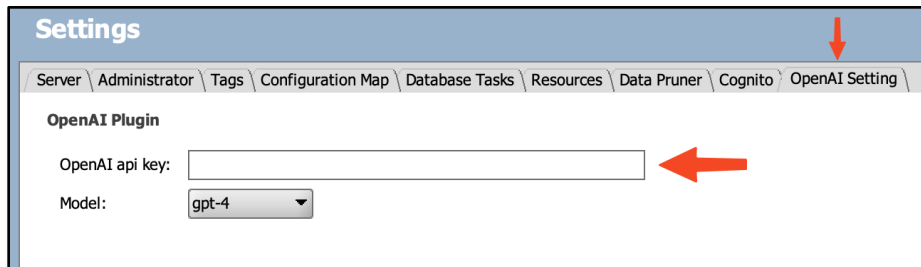


Figure 4: OpenAI Plugin settings tab in BridgeLink

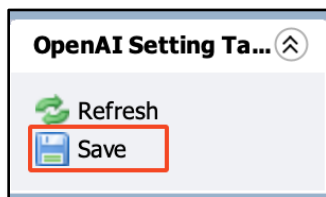


Figure 5: OpenAI Setting task panel with Save button

5 Usage

5.1 JavaScript Code Debugger

1. Highlight and copy the code you want reviewed to your system clipboard.
2. Click the **"Talk to OpenAI"** option on the Other task panel.
3. You can copy code from a transformer step, code template, or Global scripts.

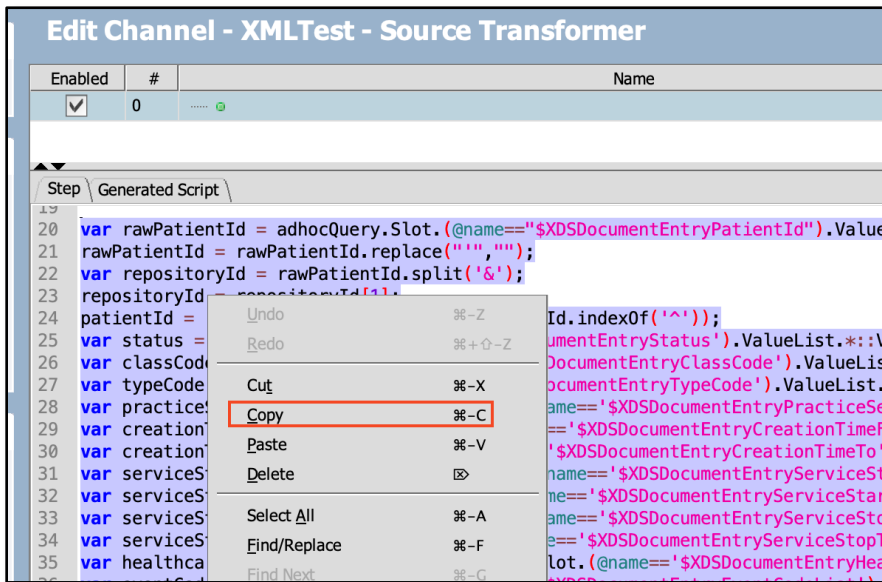


Figure 6: Source Transformer with code selected for copying

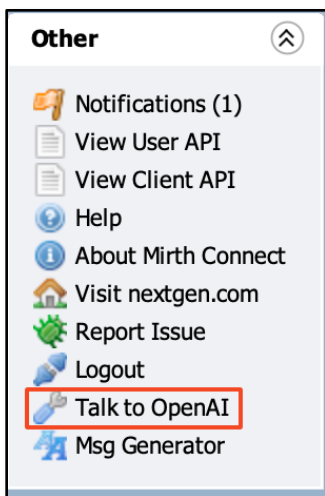


Figure 7: Other task panel showing Talk to OpenAI option

4. A dialog will ask if you want to use the context in your clipboard. Click Yes, then click Send.

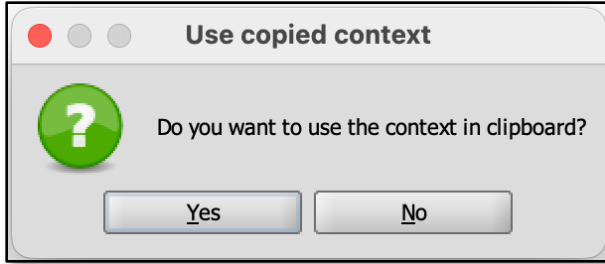


Figure 8: *Use copied context confirmation dialog*

5. Select a usage mode from the dropdown:
 - **Debug the code:** Reviews the code for errors and helps correct them.
 - **Explain the code:** Explains what the code block is doing in user-friendly terms.
 - **Optimize the code:** Reviews the code for optimization and efficiency improvements.

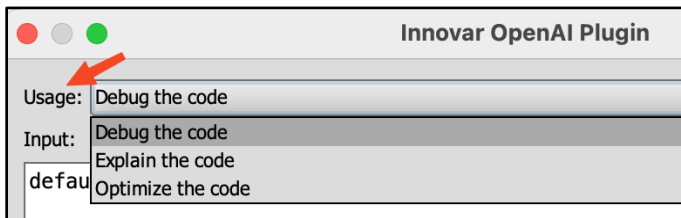


Figure 9: *OpenAI Plugin dialog with usage dropdown*

6. Wait for the response from OpenAI. It may take a few moments.

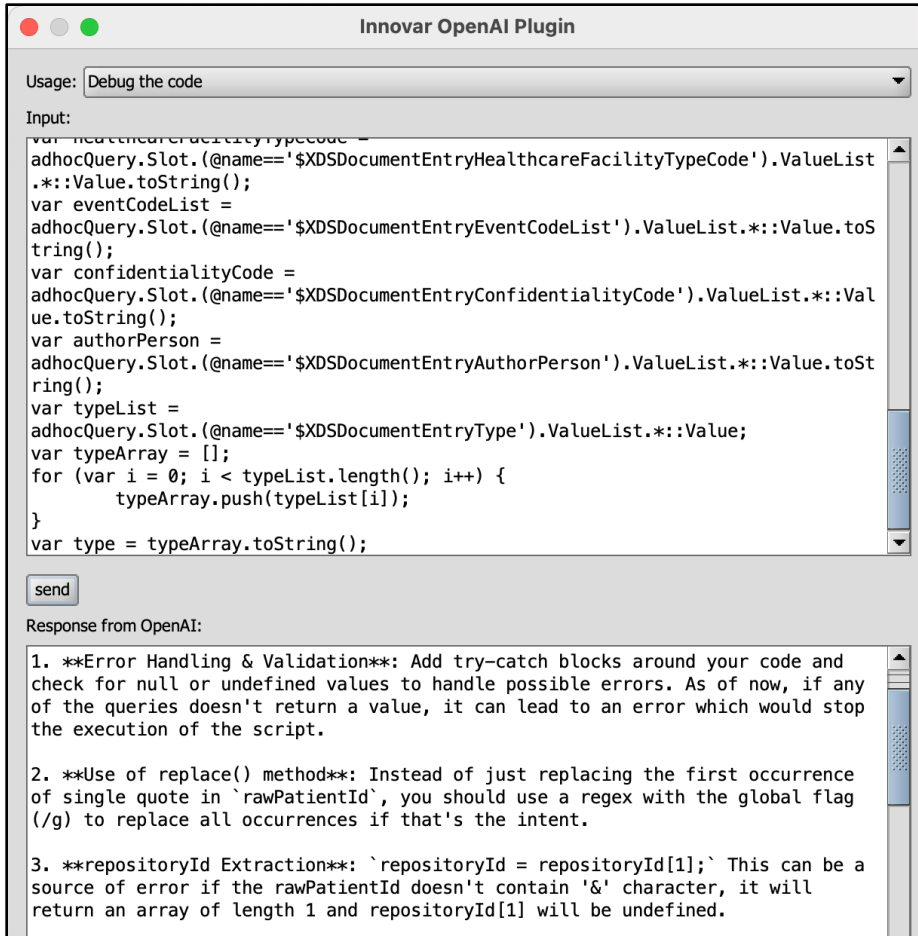


Figure 10: OpenAI response with code debugging suggestions

5.2 Message Generator

1. Click the "Msg Generator" option on the Other task panel.

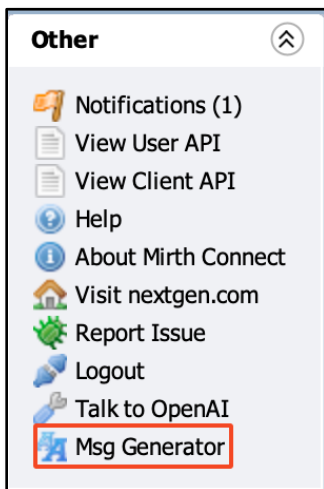


Figure 11: Other task panel showing Msg Generator option

2. Select the message type, event type, and message number.

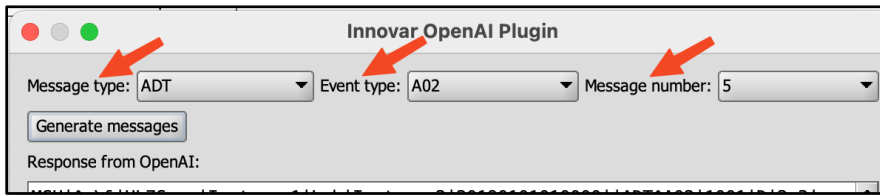


Figure 12: Message Generator with message type and event type selectors

3. Click "Generate messages". It may take a few moments to get the response.

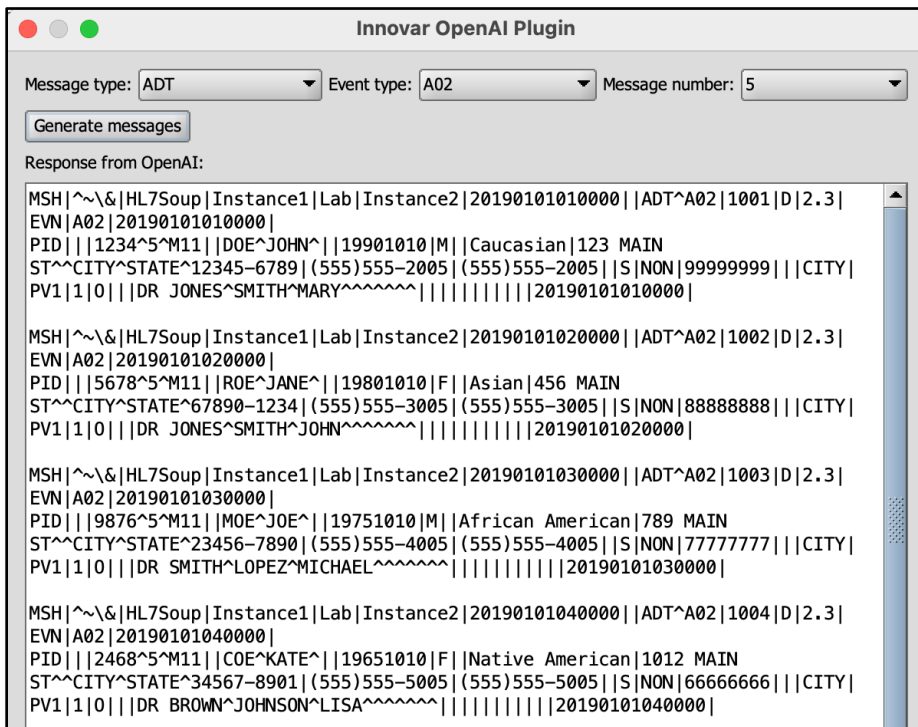


Figure 13: Generated HL7 ADT A02 messages from OpenAI

6 Document Control

Revision History:

Version	Date	Author	Description
1.0.0	April 22, 2026	Calvin Redding	Initial release

Document Information:

Property	Value
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