



BridgeLink AI Assistant: User Guide

For BridgeLink WebAdmin

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About This Guide

BridgeLink AI Assistant brings AI-powered coding help, built on Anthropic's Claude models, directly into BridgeLink WebAdmin. It adds contextual actions, explain, generate, and fix code, to your JavaScript editors, tuned to BridgeLink's Rhino-based JavaScript runtime and to healthcare message formats, plus a running chat you can ask questions in. This guide is for BridgeLink developers and administrators who write or maintain JavaScript in channels, code templates, or global scripts, from beginners who want help with Rhino's quirks to experienced developers who want to move faster. By the end of this guide, you will be able to install and license the plugin, configure its settings, and use each of its AI-assisted actions. This guide covers AI Assistant version 1.0.0.

Key Features

Feature	Description
Explain Code	Select any code and get a plain-language explanation of what it does.
Generate Code	Describe what you want in natural language and get working code inserted into the editor.
Fix/Improve Code	Review a diff of a suggested fix or improvement, and refine it, before applying it.
AI Assistant Chat	Ask context-aware questions about the channel, code template, or script you have open.
Generate Sample Messages	Generate a synthetic sample message for a Message Templates pane, using fictional data only.
Explain Message Errors	Get a plain-language diagnosis of a failed message from the message browser.
Generate Channel Descriptions	Generate or improve a channel's description from its own configuration.

Requirements

- BridgeLink 26.6.0 or later.
- A BridgeLink AI Assistant license, installed on the **License Manager** tab under **Settings**. License Manager is a required dependency: BridgeLink hides the **AI Assistant** tab under **Settings** until a valid, active BridgeLink AI Assistant license is installed.
- The AI Assistant Plugin extension itself must be installed on your BridgeLink server (it appears as **BridgeLink AI Assistant** under **Settings > Extensions** once installed). If you do not see the **AI Assistant** tab after licensing, contact Innovar Healthcare support or your professional services contact to have the extension installed.
- An Anthropic API key for your organization, entered once on the **AI Assistant** tab. It looks like `sk-ant-api03-...`, and every BridgeLink user shares it.
- Outbound network access from your BridgeLink environment to Anthropic's API (api.anthropic.com).

Installation and Activation

1. Sign in to **WebAdmin** as an administrator.
2. Open **Settings**, then click the **License Manager** tab, then the **Installed Licenses** sub-tab.
3. Click **Install License** and choose the BridgeLink AI Assistant license file, a `.json` file supplied by Innovar Healthcare.
4. Review the **Install License** dialog, which previews the license's **Customer**, **Products**, **Issued**, **Expires**, and **Server match**, then click **Install**. A confirmation toast reads "License installed."
5. Restart BridgeLink when prompted; a banner reads "License changes will take effect after restarting BridgeLink."
6. Click the **License Status** sub-tab and confirm the **BridgeLink AI Assistant** row shows **Active** under **Status**.
7. Open **Settings** again and click the **AI Assistant** tab, now visible, to begin configuration. If the tab is still not listed, the AI Assistant Plugin extension itself is not installed on your server; contact Innovar Healthcare support or your professional services contact.

Configuration

AI Assistant Tab (Settings)

The **AI Assistant** tab has four sections, **Org API Key**, **Model**, **Tokens**, and **Preferences**, plus an action panel on the left with **Save**, **Test**, and **Refresh** buttons.

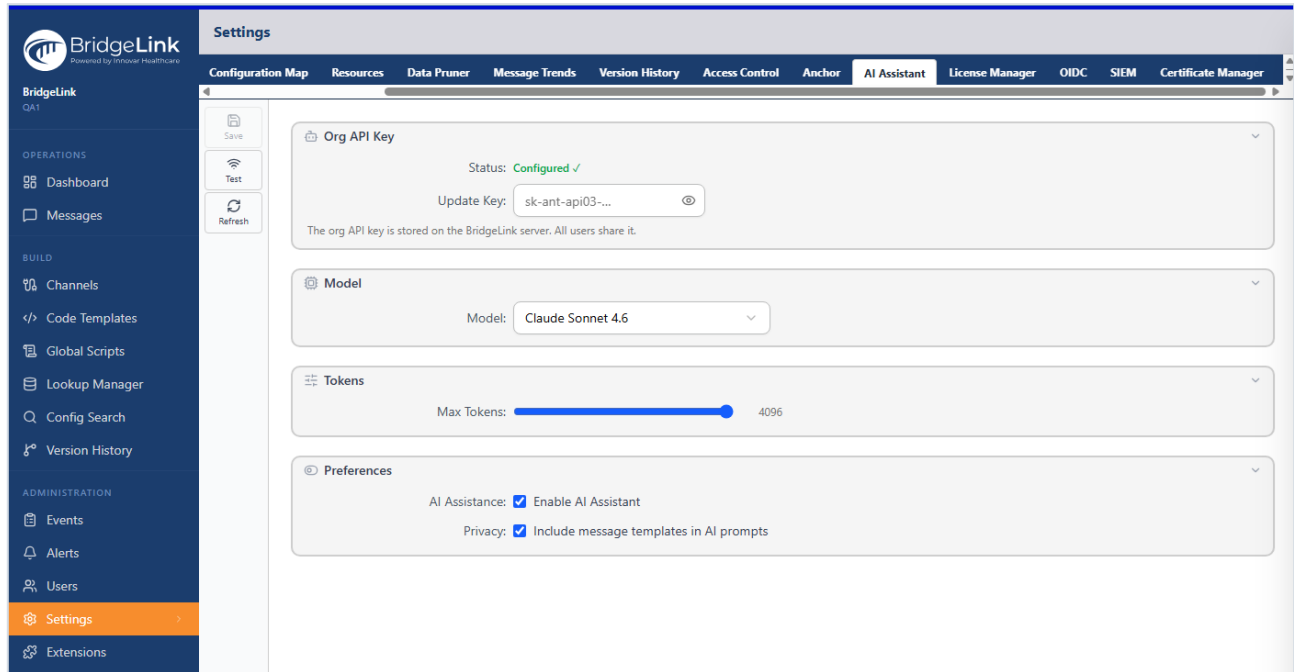


Figure 1: the AI Assistant tab under Settings, showing the Org API Key, Model, Tokens, and Preferences sections.

Org API Key

Field	What it does	Default
Status	Shows Configured with a green check once a key is saved, or Not configured otherwise.	Not configured
Update Key	Enter a new Anthropic API key here to replace the current one. The field is always blank when you open the tab, since a saved key is never displayed again, and it has a show/hide icon so you can check what you just typed.	(blank)

The Org API key is the only setting stored on the BridgeLink server. It is shared by every user, so you only need to configure it once for the whole organization.

To save a new key:

1. Enter the key in **Update Key**.
2. Click **Save** in the action panel. A message reads "API key saved successfully."

- Click **Test** in the action panel to confirm it works.

Clicking **Test** opens a **Test Connection** dialog that reports whether the currently saved key is valid.

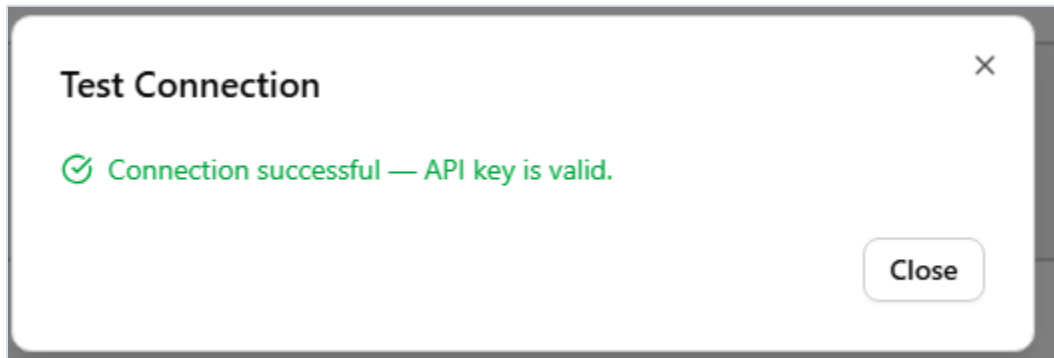


Figure 2: the Test Connection dialog confirming a valid Anthropic API key.

Test always checks the key that is already saved, not text you have typed but not yet saved. Click **Save** first if you just changed the key, then click **Test**.

Model

Field	What it does	Default
Model	The Claude model AI Assistant uses for requests. Once an Org API key is configured, the list is pulled live from Anthropic's current catalog, newest first, up to 10 models.	Claude Sonnet 4.6

If no Org API key is configured yet, or the live list cannot be fetched, the dropdown falls back to three built-in models: **Claude Sonnet 4.6**, **Claude Haiku 4.5**, and **Claude Opus 4.5**. If a previously selected model is no longer offered, AI Assistant shows a notice and resets your selection to the default. Click **Refresh** in the action panel to re-check Anthropic for newly available models.

Tokens

Field	What it does	Default
Max Tokens	Slider controlling the maximum length of a single AI Assistant response, from 256 to 4096. Higher values allow longer replies.	4096

Preferences

Field	What it does	Default
AI Assistance (Enable AI Assistant)	Turns AI Assistant's editor actions, Explain, Generate, Fix/Improve, and the floating chat button, on or off across WebAdmin.	On

Field	What it does	Default
Privacy (Include message templates in AI prompts)	Sends the channel's inbound and outbound message templates as extra context the next time you open a script editor. Leave this off if your templates contain real patient data.	Off

The **Model**, **Tokens**, and **Preferences** settings are stored locally in your browser, not on the server. Each user configures these individually, and they do not carry over if you switch browsers or devices.

Turning off **AI Assistance** removes Explain, Generate, Fix/Improve, and Chat from the editor's right-click menu; you may need to reload WebAdmin before that change is reflected there, although the floating AI Assistant button updates immediately.

Click **Save** in the action panel to apply changes to **Model**, **Tokens**, or **Preferences**.

Using AI Assistant

Opening AI Assistant in the Editor

Whenever you open a JavaScript step in a channel, a code template, or a global script, a round AI Assistant button appears in the bottom-right corner of the editor.

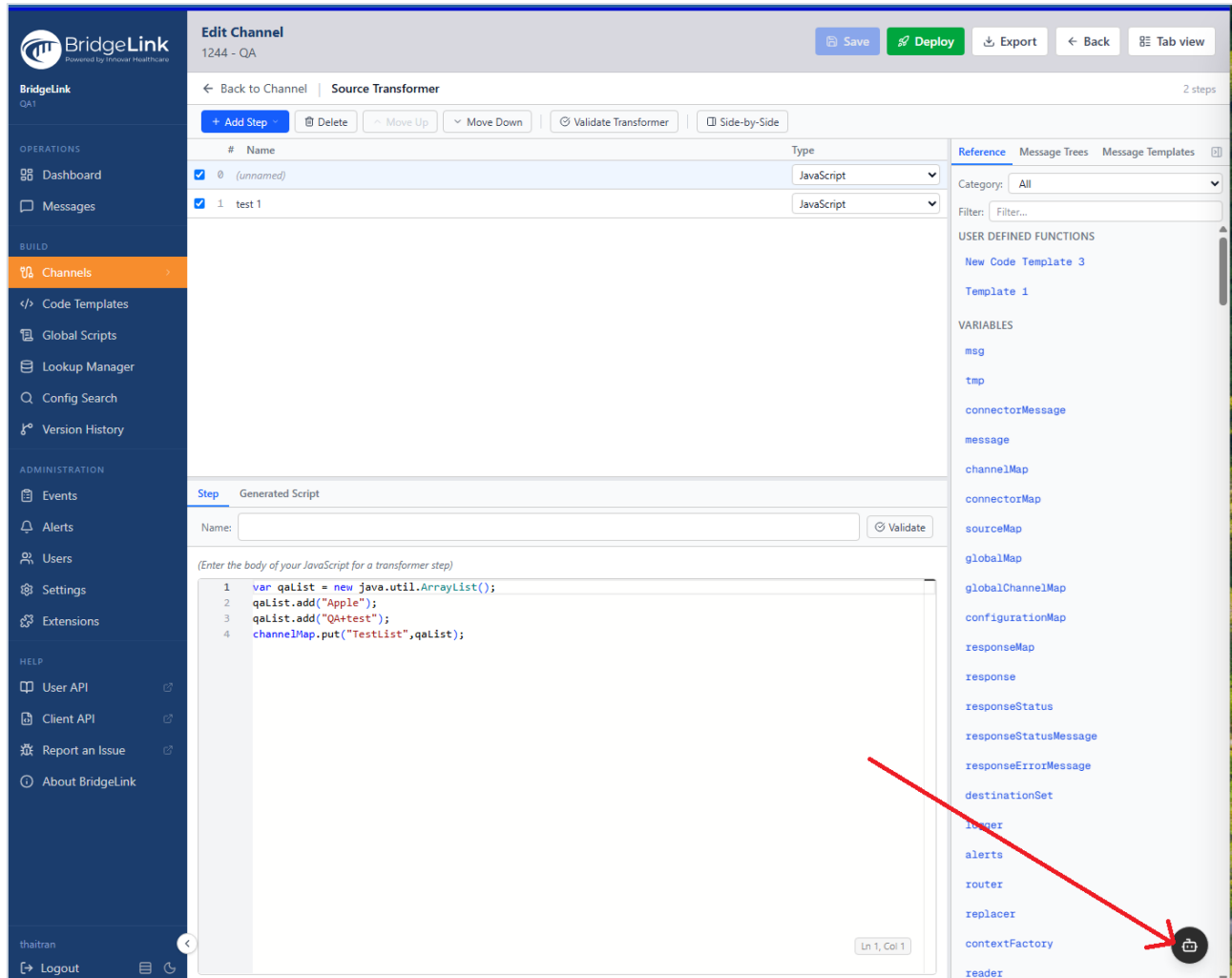


Figure 3: the AI Assistant button in the bottom-right corner of a channel's Source Transformer JavaScript editor.

Right-click inside the editor, or use a keyboard shortcut, to run one of AI Assistant's actions on your code. Click the floating button to open a running chat instead.

Action	Right-click menu label	Keyboard shortcut
Explain	Explain with AI Assistant	Ctrl+Shift+E
Generate	Generate with AI Assistant	Ctrl+Shift+G
Fix/Improve	Fix/Improve with AI Assistant	Ctrl+Shift+I

Action	Right-click menu label	Keyboard shortcut
Chat	Chat with AI Assistant	Ctrl+Shift+A

On macOS, use `Cmd` in place of `Ctrl`.

Clicking the floating button toggles the chat panel open and closed. The **Chat with AI Assistant** shortcut only opens the panel: pressing it again while the panel is already open does not close it.

You can drag the panel by its title bar to move it, resize it from its bottom-right corner, snap it to the bottom-left or bottom-right corner of the screen with the two buttons in the title bar, or minimize it to just its title bar. Its position and size are remembered the next time you open it.

Explaining Code

Select the code you want explained, or leave nothing selected to explain the whole step, then choose **Explain with AI Assistant** from the right-click menu or press `Ctrl+Shift+E`. AI Assistant streams a plain-language explanation of what the code does. Click **Stop** to interrupt a long explanation, or the close button to dismiss the panel.

Generating Code

Choose **Generate with AI Assistant** from the right-click menu, or press `Ctrl+Shift+G`, to open a prompt box.

1. Describe the code you want in plain language.
2. Click **Generate**, or press `Ctrl+Enter`.
3. Review the generated code, shown as a preview with added lines highlighted.
4. Click **Accept Changes** to insert the code into your editor, or **Reject Changes** to discard it and keep your original code.

If the generated code uses modern JavaScript syntax, such as `let`, `const`, or arrow functions, AI Assistant shows a warning. BridgeLink runs your scripts on Rhino, which only supports ES5 syntax, so rewrite the flagged syntax before using the code.

Fixing or Improving Code

Select the code you want fixed, or leave nothing selected to target the whole step, then choose **Fix/Improve with AI Assistant** from the right-click menu, or press `Ctrl+Shift+I`. AI Assistant analyzes the code, taking into account any validation errors already flagged in your script, and streams a suggested rewrite shown as a diff against your original code. When AI Assistant explains its reasoning, an **AI Assistant's reasoning** section appears below the diff; click it to expand the list.

Below the diff, a **Refine** box lets you ask for another adjustment without starting over. Type an instruction, for example `also handle a missing PID segment`, and press **Enter** or click the

arrow button. AI Assistant updates the diff in place and keeps a running log of your refinement requests.

When you are satisfied with the suggestion:

Button	What it does
Revert	Discards the suggestion and restores your original code, so you can try a different refinement.
Accept & Continue	Applies the current suggestion to your code and keeps the panel open so you can keep refining.
Accept & Close	Applies the current suggestion to your code and closes the panel.

The same Rhino ES5 warning described under Generating Code applies to Fix/Improve suggestions.

Chatting with AI Assistant

Click the floating AI Assistant button, or press **Ctrl+Shift+A**, to open a running conversation about the code template, channel, or script you have open. When the panel opens, AI Assistant automatically analyzes your code and shows:

- A context line, for example **HL7V2 → XML | Transformer**, identifying what you are working on.
- A plain-language summary of what your code does, including any issues it notices.
- Up to three suggested next steps, numbered, plus **Others** as the last number.
- A standing **Review this script** button that asks AI Assistant for a general code review.
- A message box where you can type your own question, or just type a suggestion's number to run it.

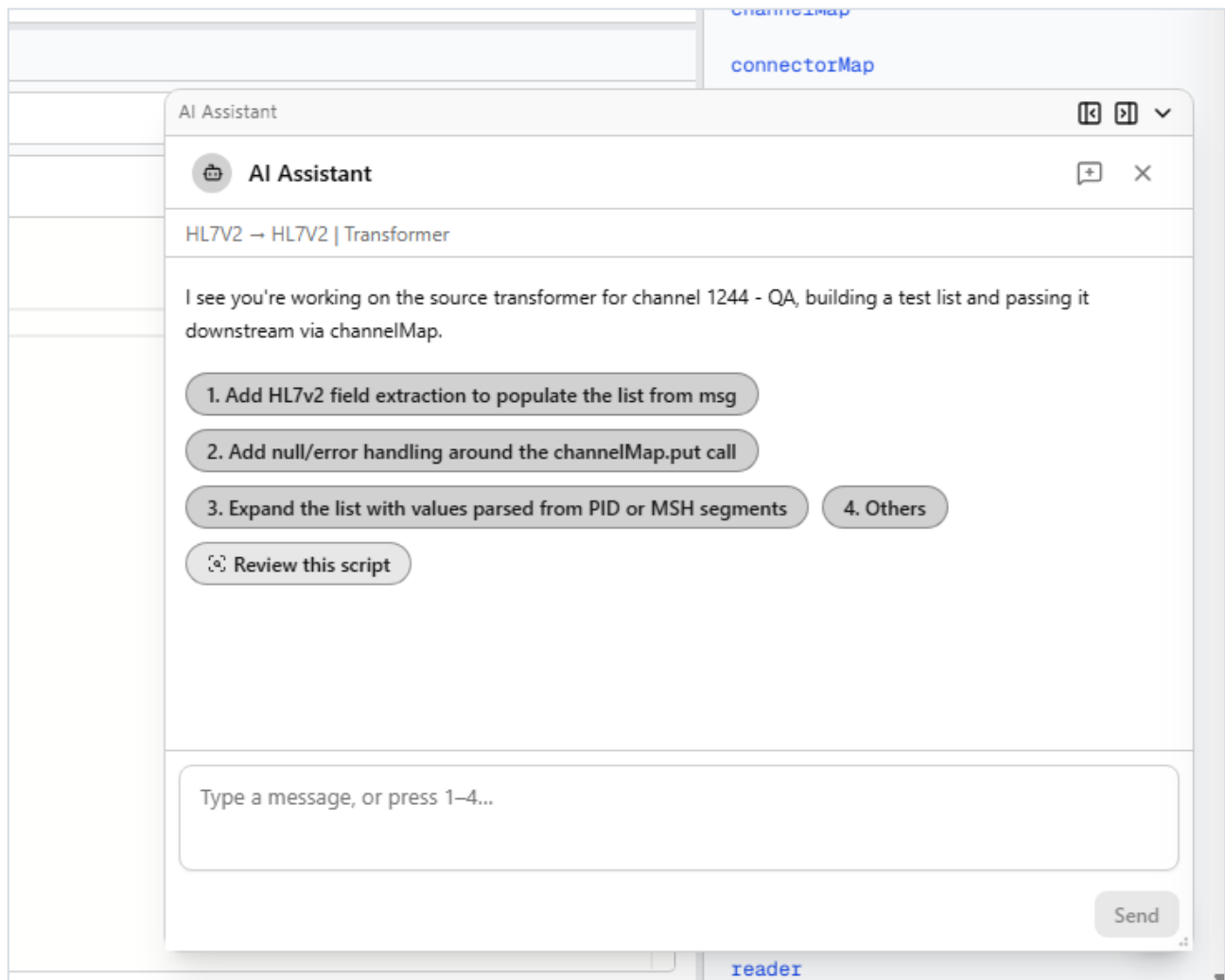


Figure 4: the AI Assistant panel after opening, showing the context breadcrumb, automatic analysis, and suggested actions.

Press **Enter** to send a message, or **Shift+Enter** to add a new line first. Click **New chat** in the panel header at any time to discard the current conversation and start fresh with a new automatic analysis.

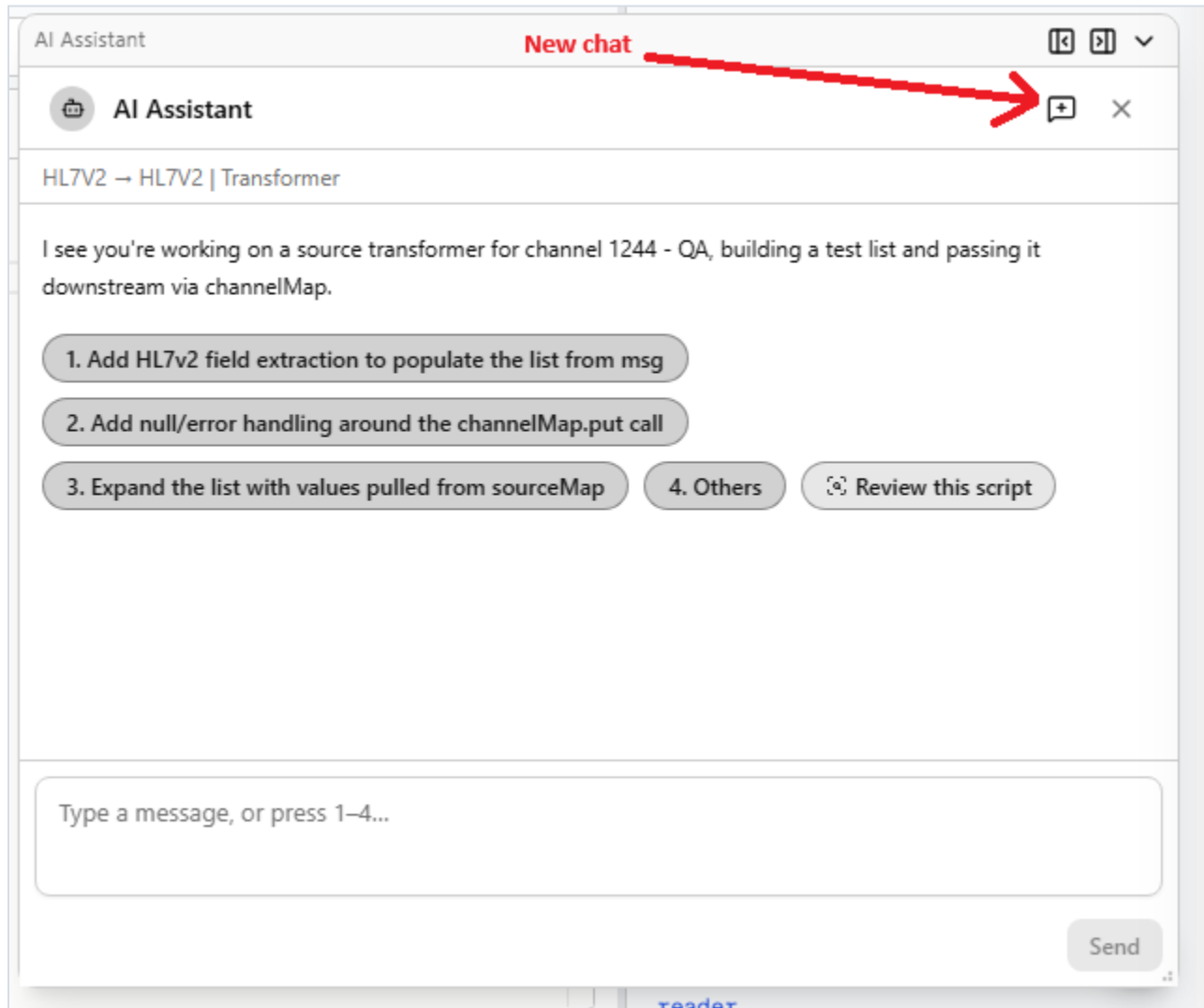


Figure 5: the New chat button in the AI Assistant panel header, which starts a fresh conversation.

While AI Assistant is replying, a **Stop** button appears; clicking it interrupts the reply but keeps the partial text instead of discarding it. Once AI Assistant finishes a reply, a **Regenerate** link lets you discard that reply and ask AI Assistant to try again with the same request.

If you had text selected in the editor when you opened the chat, that selection appears as a labeled, removable snippet above the message box and is sent along with your next message.

Any code block in an AI Assistant reply includes its own action buttons, and a **Regenerate** link appears below the most recent reply.

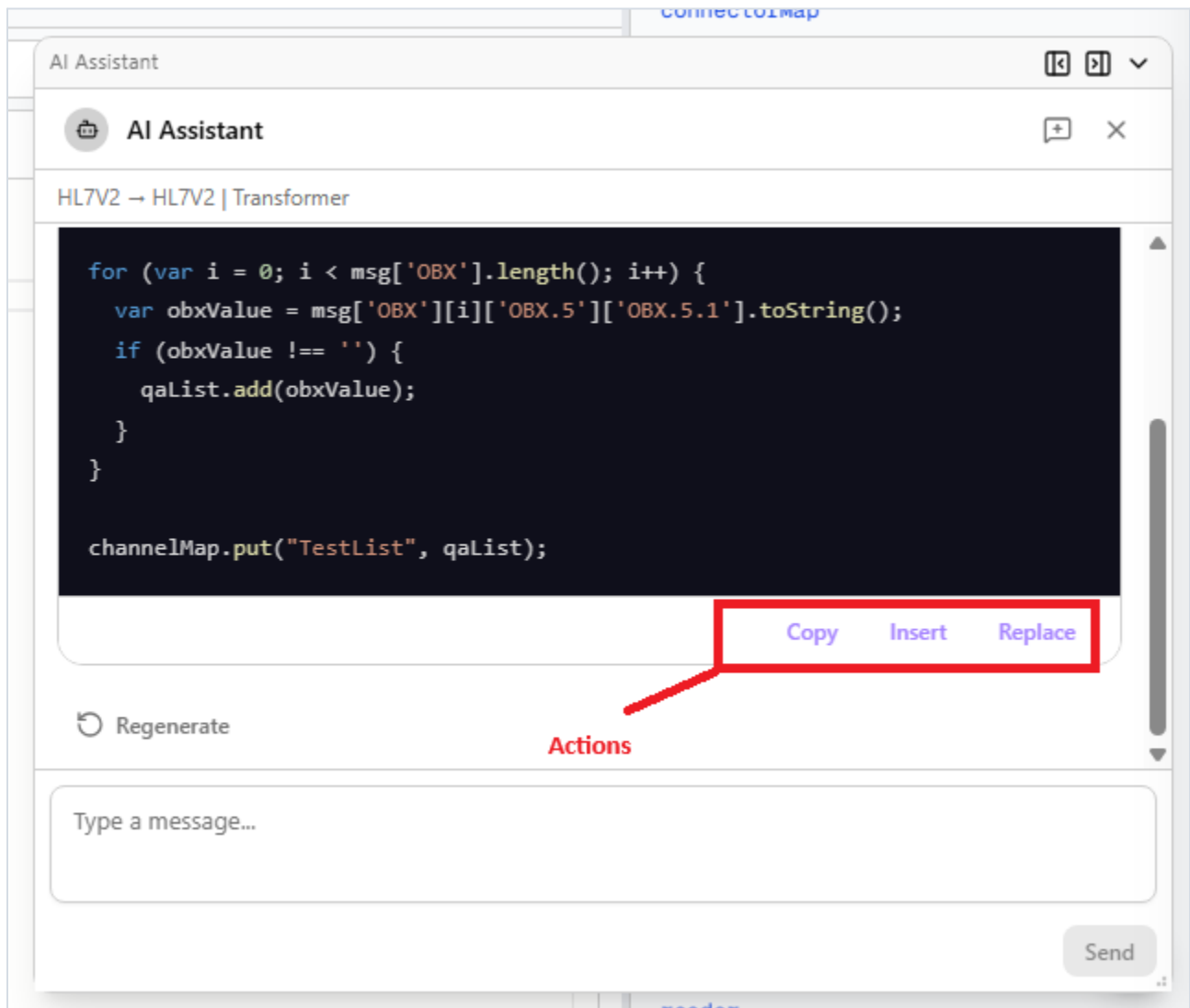


Figure 6: Copy, Insert, and Replace actions beneath a code block in an AI Assistant response, with Regenerate below.

Button	What it does
Copy	Copies the code block to your clipboard.
Insert	Inserts the code at your cursor position, or over your current selection, in the editor.
Replace	Replaces your entire script with the code block. Because this affects the whole script, AI Assistant asks you to confirm: click Confirm to replace it, or Cancel to keep your current code.

Other AI Assistant Actions in WebAdmin

Beyond the code editor, AI Assistant adds a few more assisted actions elsewhere in WebAdmin.

Generate Sample Message: On a channel's Message Templates pane, click the wand icon next to a template field to open a **Generate Sample Message** dialog.

1. Optionally describe the message you want, for example `ADT^A01 discharge message` for an HL7v2 template.
2. Click **Generate**.
3. Review the synthetic preview.
4. Click **Apply** to replace the template's text. An **Undo** option appears briefly if you change your mind.

Generated samples always use fictional data, never real patient information from your instance.

Explain This Error: When viewing a failed message in the message browser, click the floating AI Assistant button for a plain-language diagnosis. Because the error and stack trace can still include patient data, AI Assistant asks you to confirm before sending it, and you can optionally choose to also include the incoming message itself, which is excluded by default. Check **Don't ask again this session** to skip that confirmation for the rest of your session. The dialog includes an **Open in channel editor** button that jumps straight to the failing connector.

Generate/Improve Channel Description: On a channel's Summary & Settings tab, click the small AI Assistant button above the **Description** field to open a **Generate Channel Description** dialog, or **Improve Channel Description** if the field already has text.

1. Optionally add guidance, for example `focus on the HL7 routing`.
2. Click **Generate** (or **Improve**).
3. Review the preview.
4. Click **Apply**. An **Undo** option appears briefly if you change your mind.

Troubleshooting

Symptom	Likely cause	What to do
The AI Assistant tab does not appear under Settings .	No active BridgeLink AI Assistant license is installed, or the extension itself is not installed.	Check Settings > License Manager > License Status for the BridgeLink AI Assistant row. If it does not appear at all, contact Innovar Healthcare support to have the extension installed.
Explain, Generate, Fix/Improve, and Chat all fail with a message about checking your API key.	No Org API key is saved yet, or the saved key is no longer valid.	Open the AI Assistant tab, enter a valid Anthropic API key in Update Key , click Save , then click Test to confirm it works.
Test reports a failed connection.	The API key is invalid or revoked, or BridgeLink cannot reach Anthropic's API.	Confirm the key in your Anthropic account, re-enter and save it, and confirm outbound network access to <code>api.anthropic.com</code> .
A generated or fixed suggestion stops partway through.	The response reached the Max Tokens limit, or generation was stopped early.	Increase Max Tokens on the AI Assistant tab's Tokens section, then try again.
AI Assistant requests start failing with a rate limit message.	Too many requests were sent in a short period.	Wait a moment and try again; the limit resets every minute.
Generated or fixed code does not run in BridgeLink.	The suggestion uses modern JavaScript syntax, such as <code>let</code> , <code>const</code> , or arrow functions, that Rhino does not support.	Rewrite the flagged syntax to ES5 before using the code; AI Assistant flags this with an on-screen warning when it happens.
Explain, Generate, Fix/Improve, or Chat no longer appear in the right-click menu after re-enabling AI Assistance .	The setting takes effect at page load.	Reload WebAdmin.
AI Assistant's response leaves out details you expected from a message template.	Include message templates in AI prompts is off by default, to keep templates that may hold patient data out of AI requests.	Enable it on the AI Assistant tab's Preferences section if you want that context included.

Support

Contact Innovar Healthcare support at support@innovarhealthcare.com for help with BridgeLink AI Assistant. Include the following in your request:

- Your BridgeLink version
- The AI Assistant plugin version (1.0.0)
- Whether **Test** succeeds on the **AI Assistant** tab
- The exact error message you received