

ToothFairy 2.4.7 Manual

C-Command Software
c-command.com

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1 Introduction

AirPods are great, but they don't work quite as smoothly with Macs as they do iPhones. You can't tell at a glance whether audio will play from the AirPods or your Mac's built-in speaker, you have to dig into a Bluetooth submenu to connect, and then you have to go back to the menu to see when the AirPods are ready for use. ToothFairy streamlines this: just click an icon in the menu bar (or press a hotkey) to switch to the AirPods, and the icon always shows whether they're connected.

- Works with AirPods, as well as any Bluetooth device that you can connect to your Mac: headphones, speakers, headsets, game pad controllers, keyboards, mice, etc. (HomePod is not supported, as it is not a Bluetooth audio device.)
- Click the hollow AirPods icon in the menu bar to switch to AirPods. It fills in to show they are connected and also displays a battery indicator.
- Supports multiple Bluetooth audio devices; you can choose a different icon and hotkey for each.
- Get the best audio quality. macOS will normally use the SCO codec if it thinks you're going to use the microphone. ToothFairy can ensure that it uses the higher quality AAC codec when you only care about audio output: listening to music or video or playing a game.
- Disconnect a Bluetooth device by clicking the icon (or pressing the hotkey) again, so that you can switch back to your phone. AirPods and Beats devices with an Apple W1 chip do not need to be manually disconnected, and you can set them to avoid accidental disconnections when pressing the hotkey multiple times.
- ToothFairy automatically launches at login, so it's always there when you need it.
- Optionally hide the Dock icon so it only appears in the menu bar. With the Dock icon hidden, you can right-click (or Control-click) the menu bar icon to access the settings.
- Run a shell script when the AirPods are connected or disconnected, for example to notify you or to launch or quit another app.
- Use with your Magic Mouse or Magic Keyboard to make sure the battery level doesn't get too low, or to quickly reconnect them after charging or if they get disconnected.

Note: ToothFairy works with devices that can be connected via the macOS Bluetooth menu. Please make sure the devices you want to connect have been paired to the system correctly before using them with ToothFairy.

2 Installing and Updating

ToothFairy is available from the [Mac App Store](#).

3 Menus

3.1 The ToothFairy Menu

After clicking on ToothFairy’s Dock icon, you will see the **ToothFairy** menu at the top-left of the screen, next to the Apple menu.

4 Frequently Asked Questions (FAQ)

4.1 What information should I include when I report a problem?

It will be faster and easier to help you if your e-mail includes the following information:

The version of macOS that you are using

Click on the Apple menu and choose **About This Mac**.

The version of ToothFairy that you are using

Click on the ToothFairy menu and choose **About ToothFairy**. (Please do not say “the latest version,” as this is ambiguous.)

Specific error information

Please see [Sending in an Error Report](#).

If something isn’t working as you expect

Please describe what you did, what happened, and what you expected to happen instead. If possible, take a screenshot or two that illustrate the problem (see [Sending in Screenshots](#)).

If ToothFairy hangs or freezes

Please see [Sending in a “Sample” Report](#).

4.1.1 Sending in an Error Report

If an error window appeared on your screen, please include the exact text of the error message in your e-mail. (It may help to use **Copy** and **Paste**.)

Please also send in any errors that were reported in the system log:

1. From the ToothFairy **Preferences** window, click on the **About** tab. Then click the **Save Diagnostic Report** button.
2. Choose a location such as your desktop and click **Save**. Saving the report may take a minute or so.
3. Create an e-mail to toothfairy@c-command.com¹ and drag the **Diagnostic Report.tbz** file into the e-mail message to include it as an attachment/enclosure.

¹<mailto:toothfairy@c-command.com>

If you can't launch ToothFairy, you can access the log directly, rather than using the automated diagnostic reporter:

macOS 10.12 and Later

1. Click on Finder in the Dock.
2. From the **Go** menu, choose **Utilities**.
3. Double-click the Console application.
4. Click on your Mac under **Devices** at the left side of the window. (It may be necessary to first choose **Show Sources** from the **View** menu.)
5. From the **Action** menu, choose **All Messages**. Make sure that **Include Info Messages** and **Include Debug Messages** are both unchecked.
6. If **Activities** is selected (blue) in the toolbar, click it to turn off activities mode.
7. If the main part of the window shows any recent error messages, select them (or choose **Edit** ▸ **Select All**).
8. There are two ways to share the selected part of the log with us:
 - *Easier*: Click the **Share** button in the toolbar and select **Mail**. (If you do not use Apple Mail as your mail client, you can instead **Copy** and **Paste** the log messages into your mail client.)
 - *Preferred*: Choose **Edit** ▸ **Copy**. Open TextEdit and **Paste** the text into a new plain text document. Save the TextEdit document to disk and attach it to your e-mail message.

macOS 10.11 and Earlier

1. Click on Finder in the Dock.
2. From the **Go** menu, choose **Utilities**.
3. Double-click the Console application.
4. Click on **All Messages** at the left of the window. (It may be necessary to first click the **Show Log List** toolbar button if you don't see **All Messages** at the left.)
5. If it shows any recent error messages, select them (or choose **Edit** ▸ **Select All**).

Note: You may need to click the **Earlier** button at the bottom of the window to find errors that did not occur recently.
6. Choose **File** ▸ **Save Selection As...** and save the file as `My Log.log` on your desktop.
7. Drag this file into your e-mail message to include it as an attachment/enclosure.

4.1.2 Sending in a Bluetooth Log

If the problem is related to connecting or disconnecting via Bluetooth, you can save a Bluetooth diagnostic log by entering this command in Terminal:

```
sudo /System/Library/Frameworks/IOBluetooth.framework/Resources/BluetoothReporter
```

Finder will then open a window showing the `BluetoothReporter_<date>.tar.gz` report file.

4.1.3 Sending in Screenshots

To take a screenshot, hold down the Command and Shift keys and press the number 4. Then use the mouse to select the area of the screen that you want to take a picture of. This will create a file called `Screen Shot <date> at <time>.png` on your desktop. Pressing the keys again will create `Screen Shot <date> at <new time>.png`, etc.

You can also take screenshots using the **File** > **Take Screenshot** command in the Preview application.

To send in screenshots, drag the files into your e-mail window to attach them to your message. If you're using Apple Mail, be sure to set the **Image Size** pop-up menu at the bottom of the message window to **Actual Size**.

4.1.4 Sending in a “Sample” Report

If a program is slow, hangs (e.g. with a spinning beachball), or freezes, a “sample” report can record what your Mac was doing in order to locate the source of the problem.

1. Click on Finder in the Dock.
2. From the **Go** menu, choose **Utilities**.
3. Double-click the Activity Monitor program.
4. Select ToothFairy in the **Activity Monitor** window.
5. Do whatever it is in ToothFairy that causes the slowness, hang, or freeze. *Immediately*, click on Activity Monitor in the Dock and choose **Sample Process** from the **View** menu.
6. After Activity Monitor has finished taking the sample, click the **Save...** button in the “Sample of ToothFairy” window. Save the file to your desktop and then include it in your e-mail message to toothfairy@c-command.com² as an attachment. (Please do not copy and paste the text from the Activity Monitor window.)

4.1.5 Sending in Crash Log Files

Crash logs are stored in the folder:

²<mailto:toothfairy@c-command.com>

/Users/<username>/Library/Logs/DiagnosticReports/

First click on the Finder in the Dock, then click on the **Go** menu, and hold down the Option key as you choose **Library**. Open the Logs folder, then DiagnosticReports.

Once you've opened the DiagnosticReports folder, find the most recent crash log file for the app that crashed and add it to your e-mail message to toothfairy@c-command.com³ as an attachment.

4.2 Why isn't my device connecting?

ToothFairy works with devices that can be connected to your Mac via the macOS Bluetooth menu. If you can connect it via the system menu, you should be able to connect and disconnect it via ToothFairy. Here are some steps to try if you can't get your device to connect:

1. Make sure that Bluetooth is **On** in the **Bluetooth** pane in System Preferences.
2. Make sure that your device is paired with your Mac using the **Bluetooth** pane of System Preferences. It sometimes helps to unpair the device in System Preferences and then re-pair it.
3. Try [resetting your Mac's Bluetooth module](#)⁴. You can do this by holding down the Shift and Option keys while clicking on the Bluetooth menu. Go to the **Debug** submenu and choose **Reset the Bluetooth Module**. Then *restart your Mac*.
4. If you still can't get it to work, save a [Bluetooth log](#) and a [diagnostic report](#) and [send them to us](#)⁵ for further assistance.

4.3 Why do I see the Dock icon even after hiding it?

After you've checked the **Hide Dock icon** preference, you need to quit and relaunch ToothFairy in order for the change to take effect.

Also, macOS 10.14 includes a section of the Dock for recent applications, and this can include the icons even of applications that have hidden their icons. To hide ToothFairy from this section, first quit ToothFairy. Then you can either:

- Click and hold on the ToothFairy Dock icon and choose **Options ▸ Remove from Dock** from the menu; or
- Drag the ToothFairy icon off the Dock; or
- Go to **System Preferences ▸ Dock** and uncheck **Show recent applications in Dock** to hide that section entirely.

³<mailto:toothfairy@c-command.com>

⁴<http://osxdaily.com/2015/12/15/reset-bluetooth-hardware-module-mac-osx/>

⁵<mailto:toothfairy@c-command.com>

5 Legal Stuff

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⁶<mailto:mjt@c-command.com>

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Components

The following open-source components are used in ToothFairy:

- Regular expression support is provided by the [PCRE⁷](http://www.pcre.org) library package, which is open source software, written by Philip Hazel, and copyright by the University of Cambridge, England.
- [Core Foundation⁸](http://www.opensource.apple.com/source/CF/CF-368.28/) is available under the terms of the [Apple Public Source License⁹](http://www.opensource.apple.com/license/aps1/).
- `CwIDemangle.swift` is Copyright © 2017 Matt Gallagher and is available under the [Apache License v2.0 with Runtime Library Exception¹⁰](http://swift.org/LICENSE.txt).
- [Growl¹¹](http://growl.info) is Copyright © The Growl Project, 2004-2007 All rights reserved.

⁷<http://www.pcre.org>

⁸<http://www.opensource.apple.com/source/CF/CF-368.28/>

⁹<http://www.opensource.apple.com/license/aps1/>

¹⁰<http://swift.org/LICENSE.txt>

¹¹<http://growl.info>

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- Thanks to Allan Odgaard for some code snippets that are used in the Software Update installer.

6 Version History

2.4.8—November 7, 2018

- If there’s an error connecting to your Bluetooth device, ToothFairy now recommends to you how you can fix it.
- Improved the wording in various user interface text.
- Fixed a bug where the menu bar background color when clicking on the menu didn’t match the accent color on macOS 10.14 or the Graphite appearance on earlier versions.
- Added the [Why isn’t my device connecting?](#) and [Why do I see the Dock icon even after hiding it?](#) sections of the manual.
- The **Credits** sheet now links to the privacy policy.
- Added accessibility descriptions in the **Preferences** window.
- Improved the diagnostic report.
- Error logging now includes more information about the error and the device it’s related to.

2.4.7—August 14, 2018

- Added support for Dark Mode on macOS 10.14.
- Revised various preferences text to improve clarity. For example:
 - **Global hotkey to switch connection** is now **Global hotkey to connect/disconnect**.
 - **Hide dock icon (effect after next launch)** is now **Hide Dock icon (takes effect at next launch)**.

- **Audio output only** is now **Improve sound quality by disabling audio input**.
- **Connection only mode** is now **Don't disconnect when clicking icon or pressing hotkey**.
- Fixed a bug where the **Audio output only** option didn't work, causing AirPods to be inappropriately set as the system audio input device.
- Added the **Save Diagnostic Report** button.
- Reduced the size of the application by having ToothFairy and its login item helper share the same copy of the Swift libraries.
- Fixed the minimum widths of the **OK** buttons.
- Reformatted the text in the credits sheet with fonts, styles, and clickable links.

2.4.6—July 11, 2018

- The shell script text views now use a monospaced font for better readability of punctuation characters.
- The shell script text views now disable automatic quote and dash substitution so that you don't accidentally get smart punctuation in your scripts.
- Fixed a bug where opening the **Preferences** window didn't always bring it to the front.
- Fixed a bug where the disconnection script was not run.
- Fixed a bug where there was extra space at the end of the tooltip when hovering over the menu bar icon.
- Fixed a bug where some of the menu bar icons were not centered when the battery indicator was visible.
- Updated the German localization.

2.4.5—June 14, 2018

- C-Command Software has acquired ToothFairy from the original developer, Yibin (Robin) Lu, who was no longer able to work on the app. We thank Robin for his work and look forward to continuing development of the app.
- Restored compatibility with macOS 10.11.
- The right-click menu now appears on mouse down instead of mouse up, for consistency with other menus.
- Updated the copyright and credits.
- Renamed the app from Tooth Fairy to ToothFairy.
- Fixed a bug where the credits sheet didn't have a minimum width.
- Removed an `.sdef` file that's not actually used.