

HP UFT Connection Agent

For the Macintosh[®] operating systems

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User Guide

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Installation, Configuration, and Troubleshooting

Note: The UFT Connection Agent and the ability to run UFT tests on Safari on a remote Mac are provided at Technology Preview level.

The UFT Connection Agent is a service installed on your Apple Mac computer, which enables UFT to communicate with the Safari browser using the WebSockets protocol. This enables UFT to run tests on Web applications running in Safari on the Mac.

When you install the UFT Connection Agent, the agent service is installed on your Mac, and the Unified Functional Testing Agent extension is installed on the Apple Safari browser.

The UFT Connection Agent runs automatically after installation and after each restart of the Mac, unless you manually disable the agent using the System Preferences pane.

Caution: The UFT Connection Agent does not currently include security measures that may be required by your security deployment best practices. Therefore:

- Make sure to use this agent only on dedicated computers that do not contain or provide access to any sensitive information.
- When you are not actively running UFT tests on the Mac, it is highly recommended that you disable the UFT Connection Agent using the System Preferences pane.

By default, you do not need to modify the preferences set for the UFT Connection Agent. UFT and the connection agent communicate using port **8822**. However, in some situations, you might want to specify a different port. For example:

- If another application on the Mac uses this port.
- If multiple UFT users need to connect to the same Mac computer. Each UFT user can use a connection agent installed under a different Mac user account, with a different port number configured.

Caution: If you modify the port number, you must do so in the UFT Connection Agent preferences, the Unified Functional Testing Agent extension in Safari, and in UFT. For details on setting this in UFT, see the topic on connecting to a remote Mac computer in the Web Add-in Quick Reference section of the *HP Unified Functional Testing Add-ins Guide*.

In addition to the port number, you can configure the level of log messages to collect. By default, log messages are collected from the connection agent, but not the Safari extension.

This task described installing and configuring the UFT Connection Agent, and includes the following steps:

- ["Install or Uninstall the UFT Connection Agent" below](#)
- ["Configure the UFT Connection Agent Preferences \(Optional\)" below](#)
- ["Configure the Unified Functional Testing Agent Extension in Safari \(Optional\)" on the next page](#)
- ["Troubleshooting the UFT Connection Agent" on page 6](#)

Install or Uninstall the UFT Connection Agent

- You must have administrator permissions to install the UFT Connection Agent.
- All Mac users that use the UFT Connection Agent must have the agent installed in their Mac user account.

1. Copy the installer image file (UFTConnectionAgent.dmg) from the <UFT installation folder>/Installations/Safari folder to the Mac.
2. Open the UFTConnectionAgent.dmg image file.
3. Double-click (**HP UFT Connection Agent.pkg**) to start the installation wizard, or **Uninstall** to remove the agent from your Mac.

This installs or removes both the UFT Connection Agent and the Unified Functional Testing Agent Safari extension.

Note: If Safari or the System Preferences pane are open when you uninstall the agent, reopen them for the uninstallation to take effect.

Configure the UFT Connection Agent Preferences (Optional)

1. To check or modify the status of the UFT Connection Agent, or to update its preferences, open **System Preferences** and double-click **HP UFT Connection Agent**.
2. You can modify any of the following preferences:
 - **Enable agent / Disable agent.** Specifies whether to restart or disable the agent when you click **Apply**. (If you select **Disable agent**, all other options in the pane are disabled.)

It is strongly recommended to disable the UFT Connection Agent when you are not actively using it for UFT testing, to minimize security risks to your Mac.

- **Listening port.** The port on which UFT communicates with the UFT Connection Agent and the Safari browser.

Caution: This number must match the number defined in UFT and in the Unified Functional Testing Agent extension in Safari.

- **Log folder.** The folder in which to save activity log messages.

Make sure you have write permissions for this folder.

- **Agent log level.** The level of information to save in the agent log (Fatal, Error, Warning, Debug).

The log is saved in the `UFTAgent.log` file in the specified folder.

- **UFT Safari extension logs.** Specifies whether to maintain a log of the Unified Functional Testing Agent Safari extension activity in addition to the UFT Connection Agent log. (Default = OFF).

There is no need to turn these logs on, unless HP Support personnel request it.

This log is saved in the `SafariLog.log` file in the same folder.

Note: To activate the Unified Functional Testing Agent Safari extension log, you must also select the **Enable Remote Logging** in the extension's preferences in Safari.

3. If you selected **Enable agent**, make sure the Safari browser is closed before you click **Apply**.
4. Click **Apply** to save your changes and restart or disable the agent.

If you selected **Enable agent**, the UFT Connection Agent restarts with the new preferences.

- The agent's status is displayed in the HP UFT Connection Agent preference pane.
Check the status to make sure the agent runs successfully with the new preferences. If it does not, check the `UFTAgent.log` file for problem details.
- If you set the **UFT Safari extension logs** option to ON and the remote logger service that logs the Safari extension activity fails to run, this option is automatically set back to OFF. Check the `SafariLog.log` file for problem details.

If you selected **Disable agent**, the agent and the log services are stopped. The agent will only run again if you specifically select **Enable agent** in this pane.

Configure the Unified Functional Testing Agent Extension in Safari (Optional)

1. Open the Unified Functional Testing Agent extension in Safari.

- a. Select **Safari > Preferences**
 - b. In the Preferences dialog box, select the **Extensions** tab.
 - c. In the Extensions list in the left pane of the dialog box, select the Unified Functional Testing Agent extension.
2. In the right pane, you can modify any of the following preferences:
- **Remote Agent Port:** The port number on which UFT communicates with the UFT Connection Agent and the Safari browser.

Caution: This number must match the number defined in the UFT Connection Agent preferences and in UFT.

- Options related to maintaining a log of the Unified Functional Testing Agent Safari extension activity. There is no need to modify these options, unless HP Support personnel request it.
 - **Default Logging Level.** The level of information to save in the Unified Functional Testing Agent Safari extension log file. (All, Trace, Debug, Info, Warn, Error, Fatal, Off)
 - **Enable Remote Logging.** Specifies whether to maintain a log of the Unified Functional Testing Agent Safari extension activity in addition to the UFT Connection Agent log. (By default, this option is cleared.)

This log is saved in the `SafariLog.log` file in the same folder as the UFT Connection Agent logs.

Note: To activate the Unified Functional Testing Agent Safari extension log, you must also select the **UFT Safari Extension logs** option in the UFT Connection Agent preferences.

- Leave the **Logging Exceptions** box empty. This is intended for use by HP Support only.

Troubleshooting the UFT Connection Agent

- If the agent remains in **not running** status after you update its preferences, check the `UFTAgent.log` file for problem details.

For example, the port you specified might be busy. It may be used by another application, or it may be in use by a UFT Connection Agent installed on the Mac under another user's account.

Alternatively, you might have entered a port number that is restricted by Apple. Consult the Apple support site regarding restricted or blocked ports.

- If UFT fails to run tests on Safari or to recognize that it is installed on the Mac:
 - Make sure that you defined the same port number in the UFT Connection Agent preferences, the Unified Functional Testing Agent extension in Safari, and in UFT.
 - Make sure that you are not using a port number that is blocked by Safari. Consult the Apple support site regarding restricted or blocked ports.
- If you manually remove the Unified Functional Testing Agent extension from Safari, or the *HP* UFT Connection Agent preferences pane from the System Preferences, you can reinstall them by reinstalling the UFT Connection Agent on the Mac.

Reinstalling the UFT Connection Agent resets its preferences to their defaults. Make sure to update the preferences, if necessary, so that the correct port number is defined in the agent preferences and in the Safari extension.

- If you turn on the UFT Safari extension logs, and when you save the preferences, the log option is set to OFF, check the `SafariLog.log` file for problem details.

For example, the port used for these logs is the **UFT-Mac communication port + 1**. If this port is busy, the remote logger service fails.