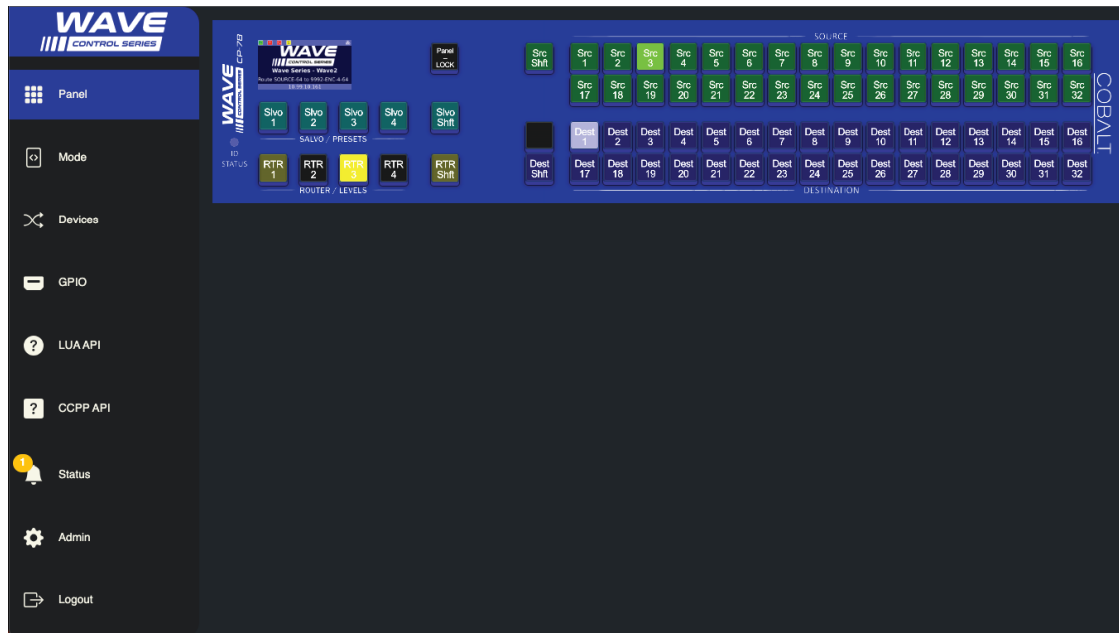




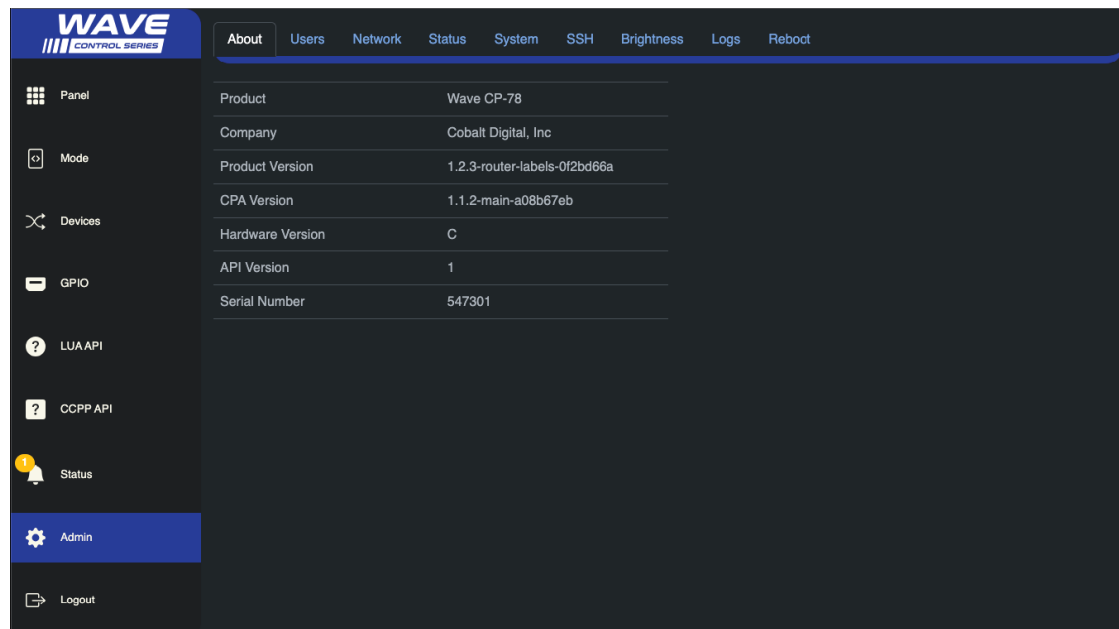
## CP-84L, CP-78, CP-44, and CP-42L

These release notes contain information on how to update your WAVE Control Panel with the latest firmware. This document also provides information on features released and bugs fixed for each version.

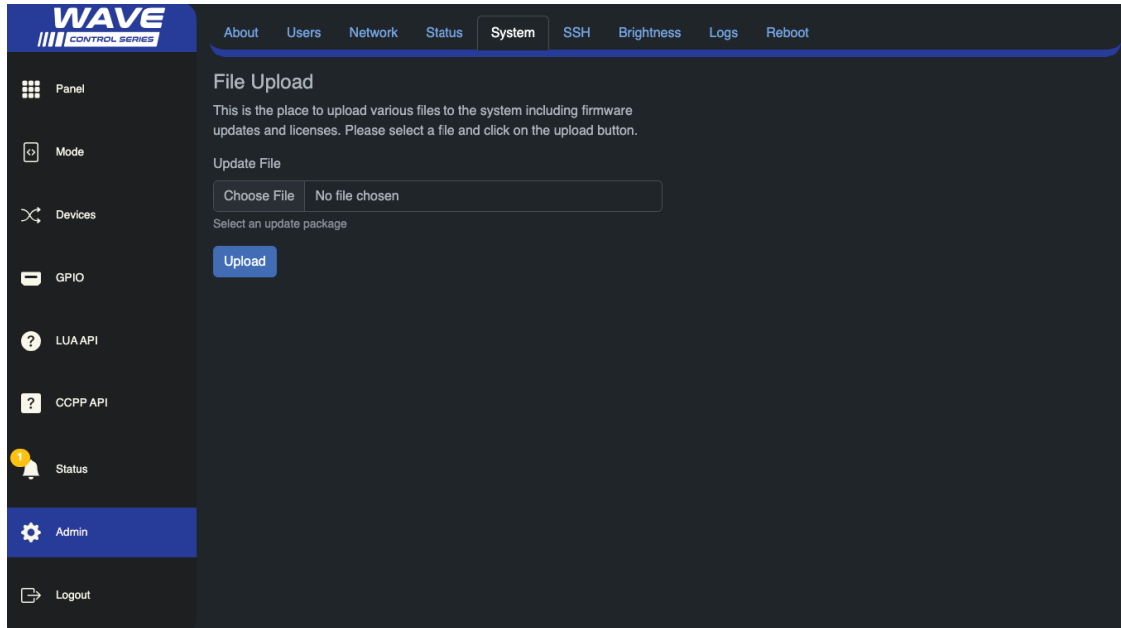
1. Log into the WAVE Control Series user interface. A page similar to the following displays.



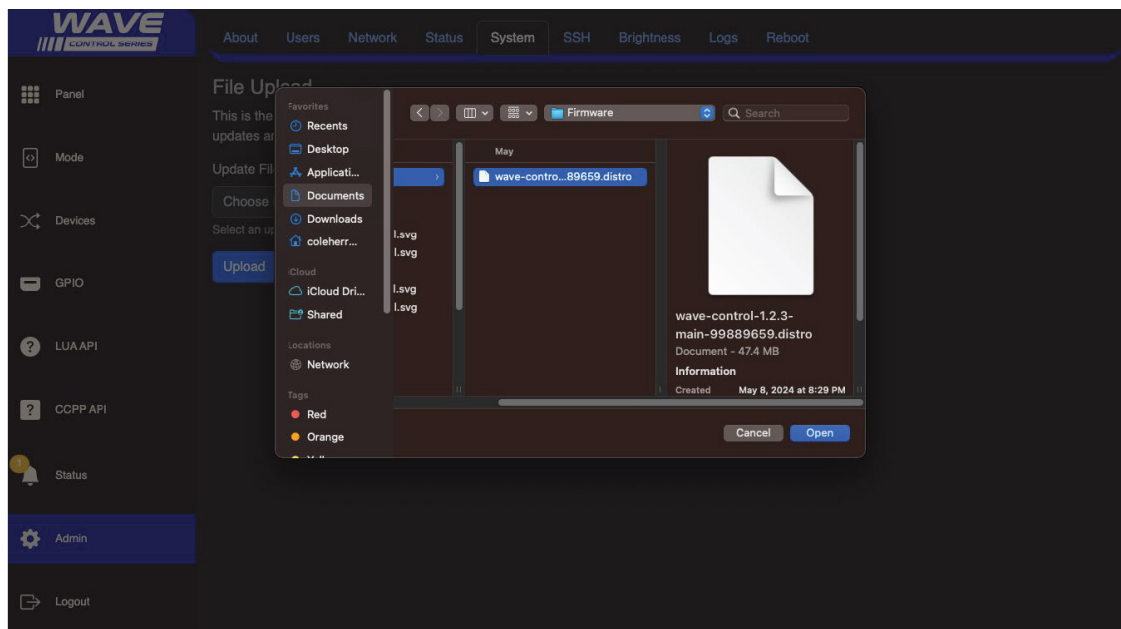
2. From the sidebar, select **Admin**.



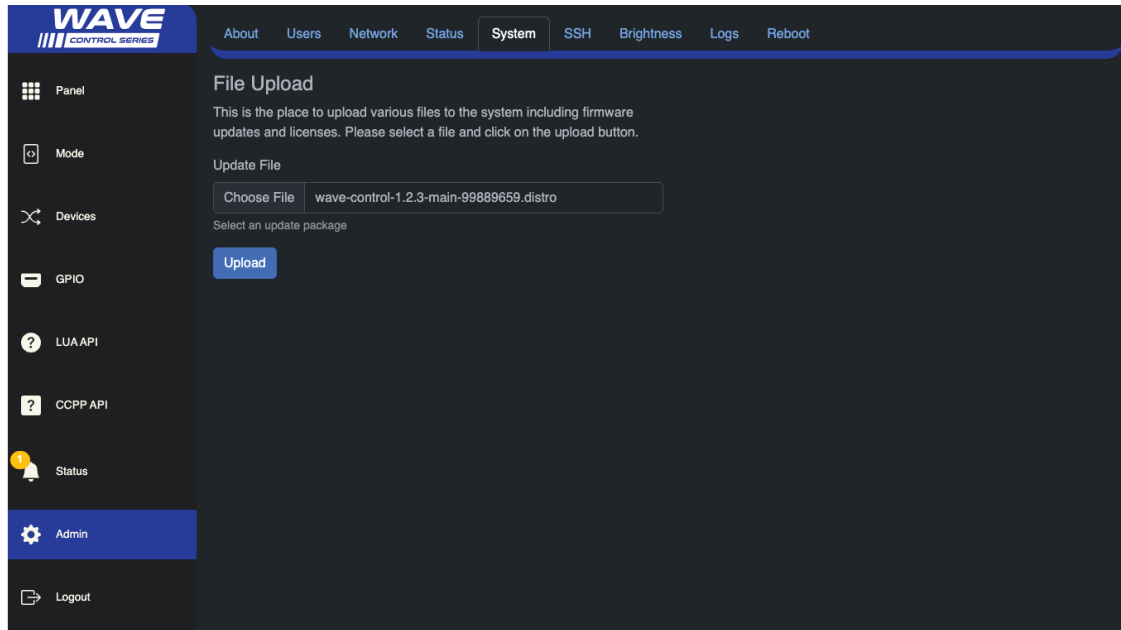
3. Select the **System** tab at the top of the Admin page.



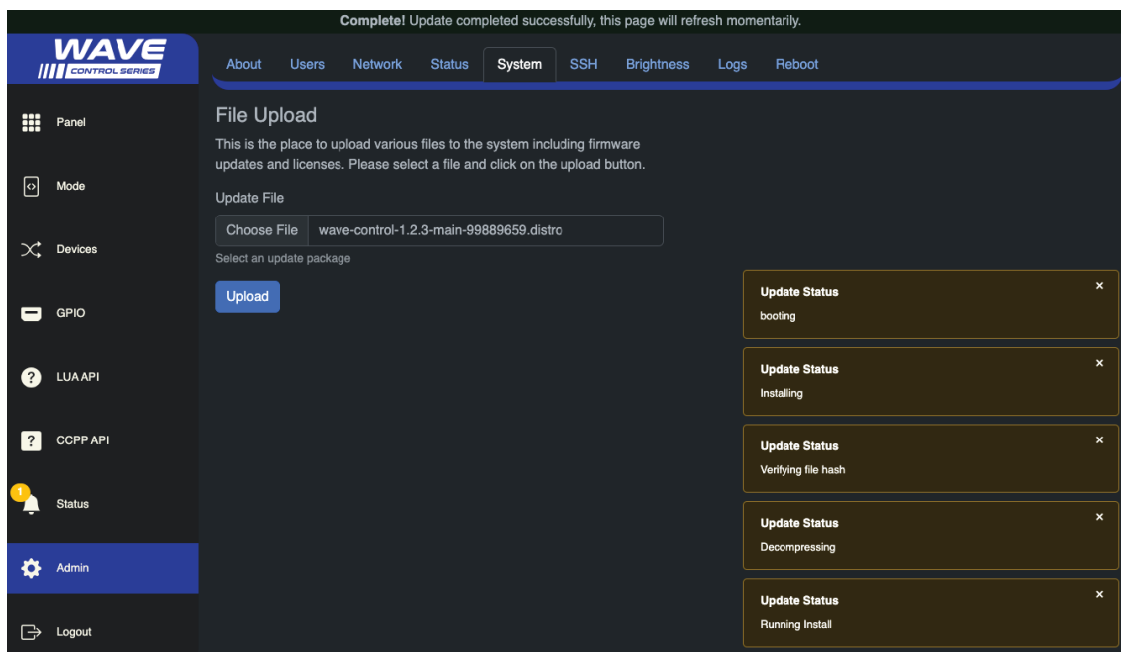
4. Click **Choose File** to open a file manager. Click **Open** to select the firmware update .distro file.



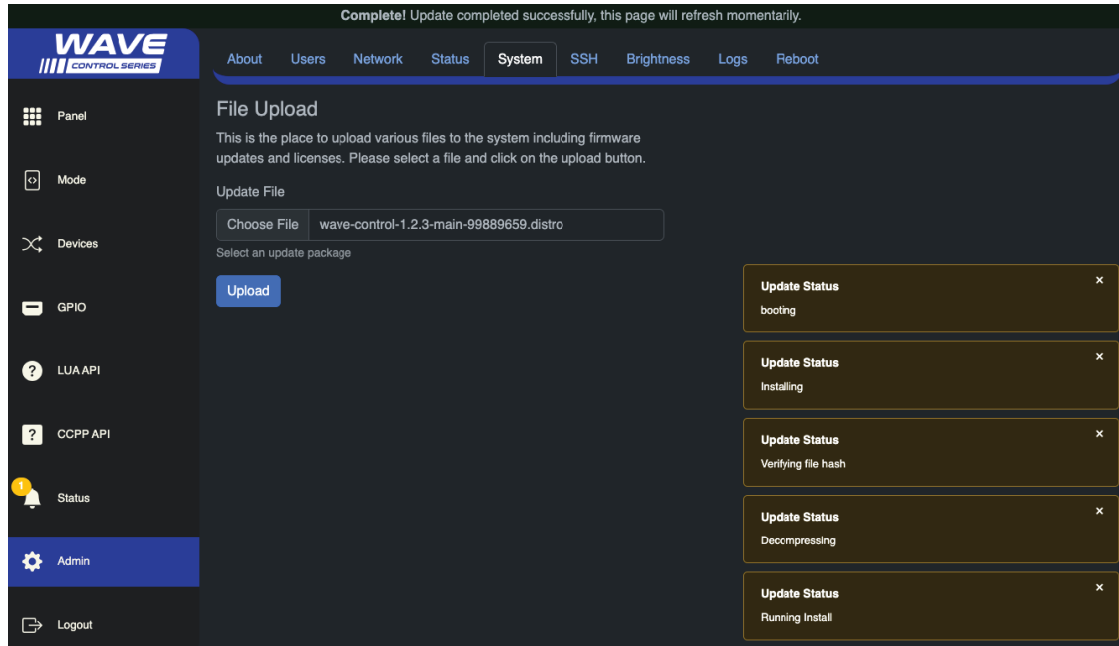
- Once the firmware update file is selected, click **Upload** from the Upload page.



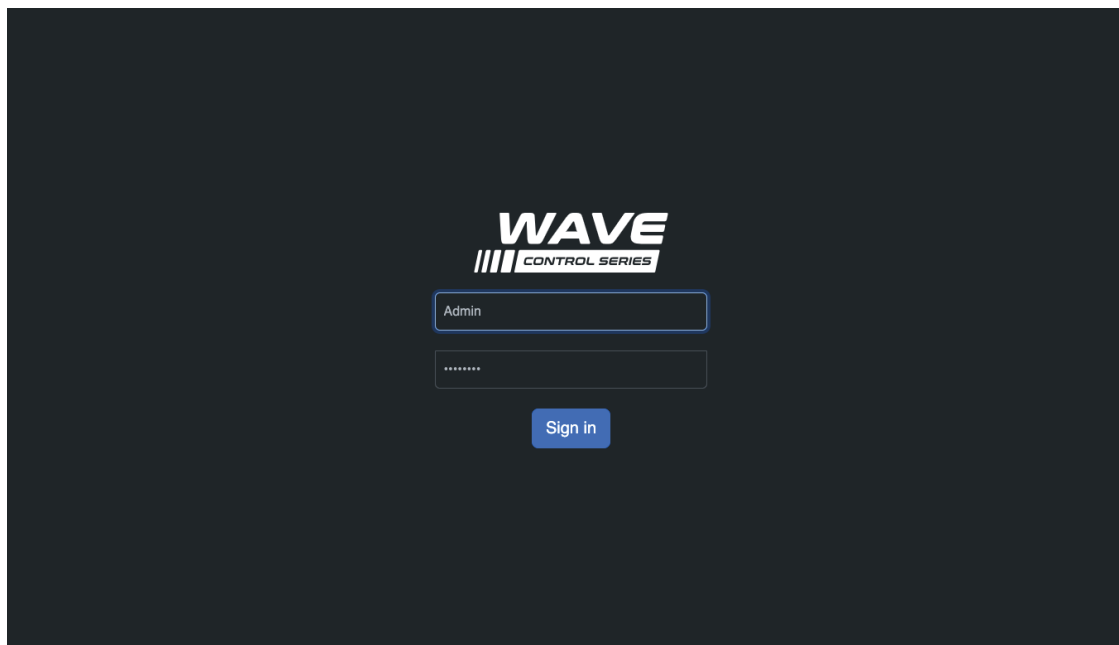
- The upload process begins, with notifications about the update process.



- When the upload completes, a banner at the top of the page shows before the panel reboots.



- After the control panel reboots, the user interface closes and returns to the login page.



The following table lists released firmware versions and describes the corresponding functions, additions, improvements, or corrections.

Firmware Version	Description
WAVE Router Series Firmware Release v1.10.3 7/1/2025	<p><b>Added Features</b></p> <ul style="list-style-type: none"> <li>Screen-saver setting for panels that include an LCD screen (CP-44 and CP-78). The screen-saver settings can be accessed from the web user interface by navigating to Admin → Screen Saver. From there, set the screen-saver type and the screen-saver timeout. There are two screen-saver types to choose from: Logo Fall (falling logo animation) and Dim Screen (display brightness dimming). The timeout may be set between 30 seconds and 3600 seconds.</li> </ul> <p><b>Bug Fix</b></p> <ul style="list-style-type: none"> <li>Button location inconsistencies between the Destination-Oriented and Destination-Source-Take Lua scripts.</li> <li>CCPP (Cobalt Control Panel Protocol) documentation.</li> <li>Lua API documentation.</li> </ul>
WAVE Router Series Firmware Release v1.8.3	<p><b>Added Features</b></p> <ul style="list-style-type: none"> <li>Users can now use the require (“module”) in their Lua scripts to include their own Lua modules.</li> <li>Lua callback of OnGpi() when a GPI state is changed.</li> <li>Router OnRoutRateChange() Lua callback. When the rate of the connected WAVE router changes rate, this callback is called.</li> <li>Lua stop JSON command. If a Lua script goes into an infinite loop, this command breaks Lua execution.</li> <li>A Factory Reset button is now available that resets all settings to factory defaults. It is located under the Administration section of the Settings tab.</li> </ul>

Firmware Version	Description
WAVE Router Series Firmware Release v1.7.0	<p><b>Added Features</b></p> <ul style="list-style-type: none"> <li>The CP-78 and CP-44 backlight LED auto brightness button automatically dims after 30 minutes to 50% of the current value. When a key is touched, dimming is disabled, and the previous brightness level is restored.</li> <li>Users can now reset the control panel to factory default by pressing button keys 0, 2, 4, and 6 five times each starting with 0 and ending with 6. Press each key 5 times before moving on to the key.</li> <li>A Factory Reset button is now available that resets all settings to factory defaults. It is located under the Administration section of the Settings tab.</li> </ul> <p><b>Bug Fix</b></p> <ul style="list-style-type: none"> <li>Button event issue that resulted in missing button events in specific cases. Buttons now have an event queue.</li> </ul>
WAVE Series Control Panel Release v1.6.1	<p><b>Added Features</b></p> <ul style="list-style-type: none"> <li>Thai, Arabic, and Hindi fonts</li> <li>Emojis for color LCD models and LCD button models.</li> <li>User authentication database password hashes are encrypted on storage.</li> </ul> <p>Note: Existing databases will be updated internally and encrypted. If you downgrade the software, you must factory default the device.</p> <p><b>Bug Fix</b></p> <ul style="list-style-type: none"> <li>Token auth manager default encrypted password issue.</li> </ul>
WAVE Series Control Panel Release v1.5.2	<p><b>Added Features</b></p> <ul style="list-style-type: none"> <li>Chinese/Japanese/Korean language for both the LCD Button and LCD screen versions.</li> <li>Lua script supports fields in the WAVE64 router to make use of the source and destination short titles.</li> <li>Small, large, system, and CJK font. The small and large fonts support only ASCII characters. The system and CJK fonts support all Latin, Chinese, Japanese, and Korean languages for LCD buttons.</li> <li>The LCD buttons from Lua refresh the screen about three times faster than previously.</li> <li>Lua scripts include the cobalt Lua library. Cobalt = require("cobalt")</li> <li>Black and white emojis in titles and names.</li> <li>Click on a source or destination title to edit the long or short title name.</li> </ul>

Firmware Version	Description
WAVE Series Control Panel Release v1.4.2	<b>Added Features</b> <ul style="list-style-type: none"> <li>Lua enhancements: <ul style="list-style-type: none"> <li>JSON library</li> <li>Socket library</li> <li>Logging</li> <li>WebSocket support</li> <li>HTTP library</li> </ul> </li> <li>UI Change - Removed the "Panel" sidebar selection and merged it to the Panel sidebar.</li> <li>HTTPS supported for web interfaces.</li> <li>WAVE Router Destination Lock feature.</li> </ul>
WAVE Series Control Panel Release v1.3.2	<b>Added Features</b> <ul style="list-style-type: none"> <li>HTTP Endpoint Device Support: WAVE control panels can now control other Cobalt devices such as a mutliviewer via HTTP Endpoint support.</li> <li>HTTP Responses can be piped into a JSONPath interpreter to extract values in Lua.</li> <li>Lua can extract the WAVE Router source/destination labels.</li> <li>New Lua scripts permit Destination-Source-Take or a Destination-Oriented control of WAVE Routers.</li> <li>LCD Display enhancements for CP-84L and CP-42L.</li> </ul>