



DSP Amplifier Firmware Update

Firmware Update – Version 2 Network Hardware

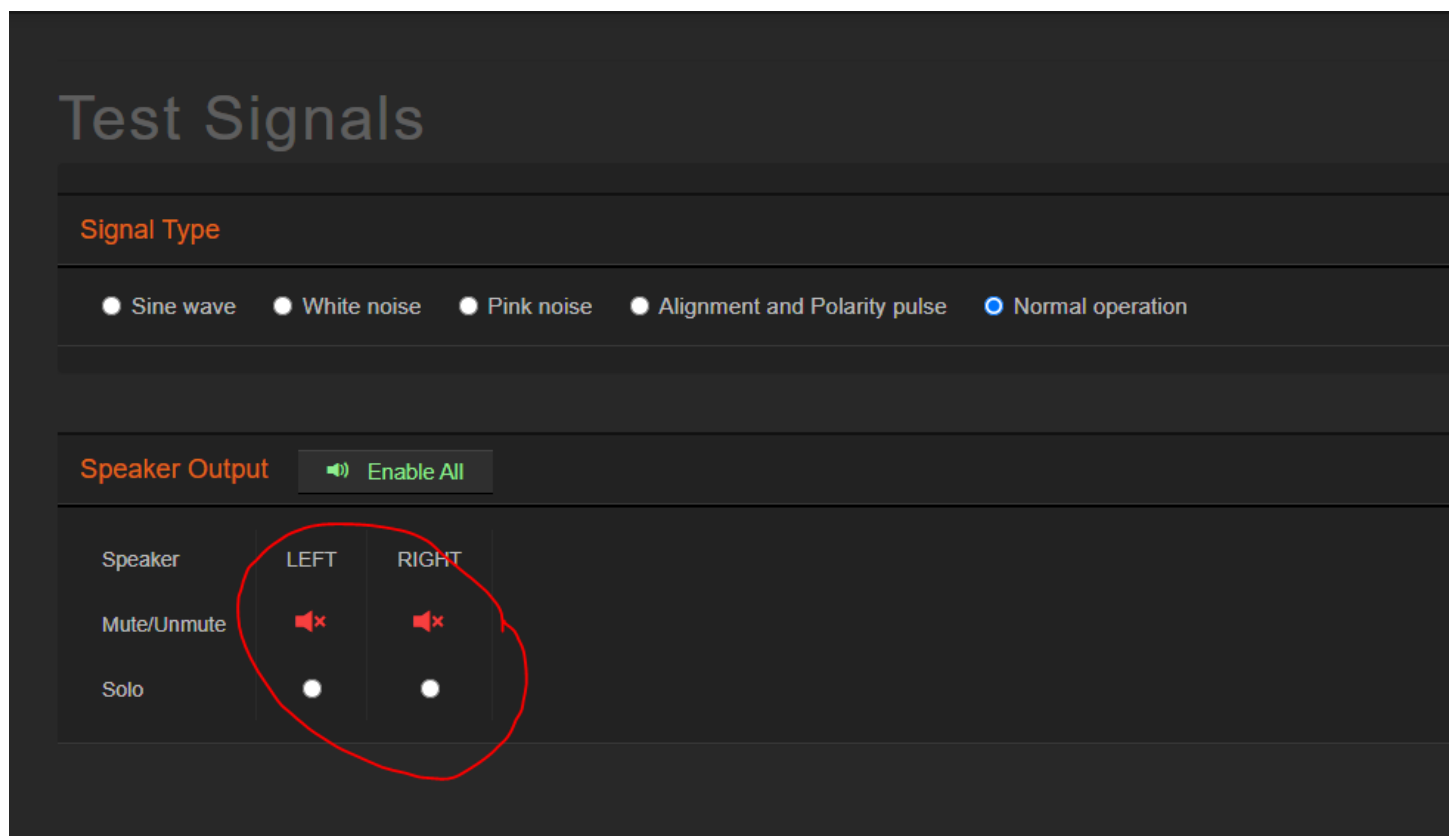
Below are instructions for updating firmware in the SA-x Amplifiers with the new network hardware/controller.

SA-3DSP is shown, but the steps are the same for:

- SA-2DSP
- SA-3DSP
- SA-8DSP
- SW-1DSP
- IA-8DSP

IMPORTANT NOTE:

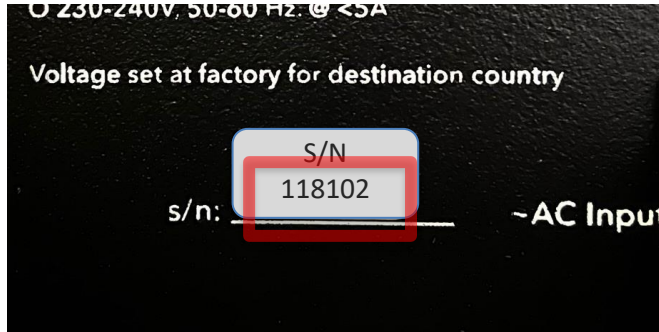
YOU SHOULD MUTE ALL SPEAKER OUTPUTS OR DISCONNECT ALL SPEAKERS BEFORE BEGINNING THE UPDATE. THIS WILL ENSURE NO UNWANTED NOISES OR POPS ARE HEARD THROUGH THE SPEAKERS.



NOTE: You must identify the version of hardware you have before beginning. These instructions and the firmware are only for the newer hardware. New hardware can be identified in one of three ways.

If *any one* of the below 3 options are true, you have the newer network hardware and can continue to the firmware update process.

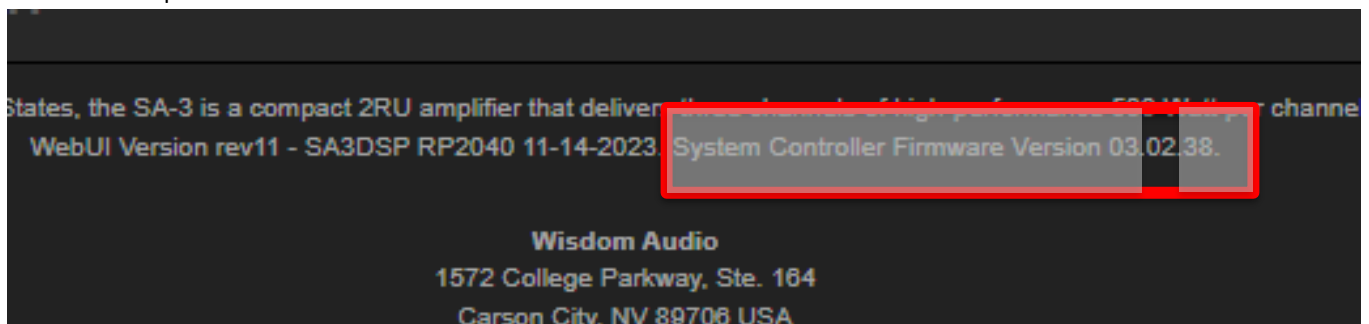
1. Serial # beginning with **SN# 118102** and higher. If your unit has a serial # higher than this, you have the GEN 2 hardware. The serial number sticker will be located on the rear panel either near the A/C inlet or next to the DANTE port:



2. "V2" Sticker on the rear panel with the MAC Address. This is located near the Ethernet Port on the rear panel:



3. Checking the WebUI Audio System home page. The Firmware Version will have xx.02.yy in the number to show it is REV 02 hardware compatible:



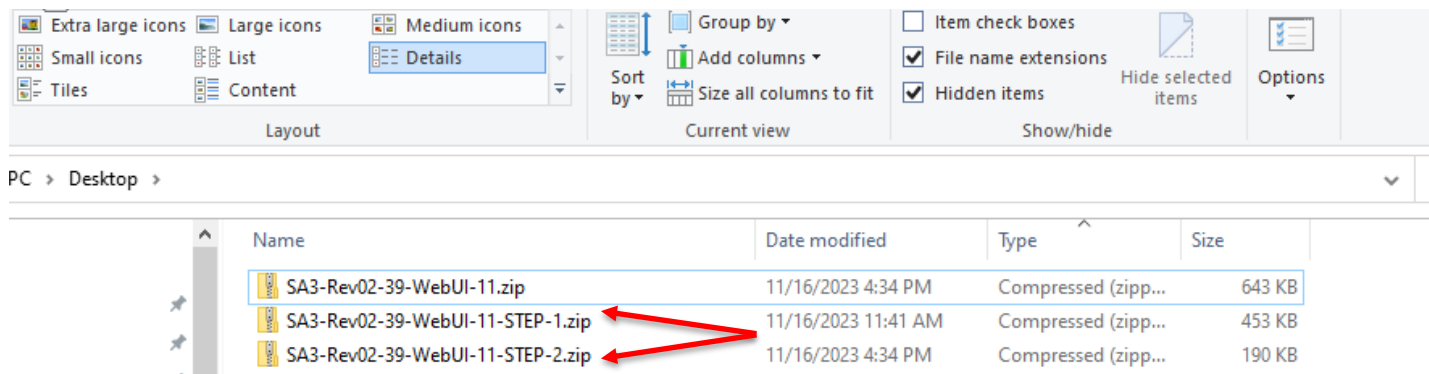
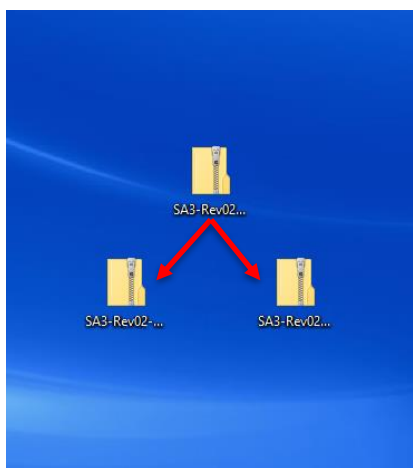
Required tools/setup:

- Ethernet connection to the amplifier
- Firmware Files provided by Wisdom Audio
 - ZIP file Containing all files and instructions including:
 - **SA3-Rev02-xx-WebUI-yy-STEP-1**
 - **SA3-Rev02-xx-WebUI-yy-STEP-2**
 - The **xx** and **yy** will have the Version Numbers for the System Controller Hardware and Web UI files.
 - The Name will be begin with the Amplifier Model, for example, SA3, SA2, SA8, IA8, SW1 etc...depending on model

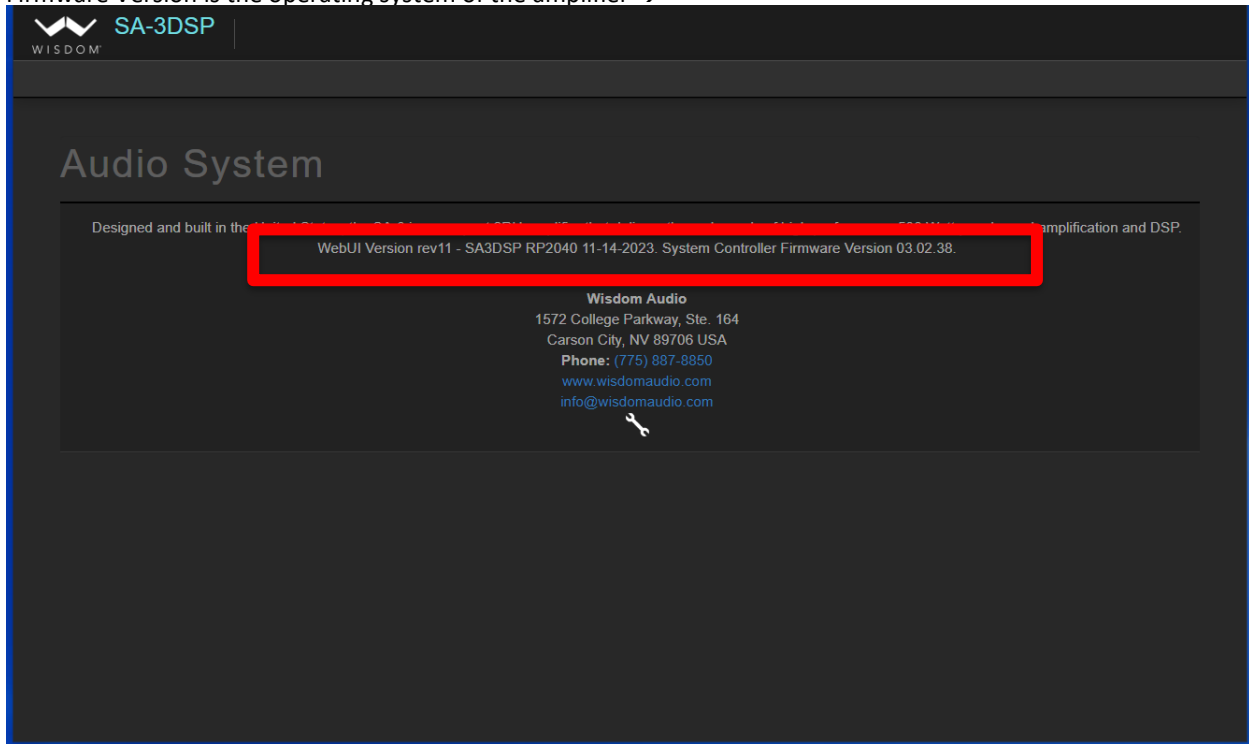
Firmware Update from Web UI over Ethernet

If you have not identified the correct hardware on page 1, go back and make sure you are reading the correct instructions. The firmware will not load into the wrong hardware.

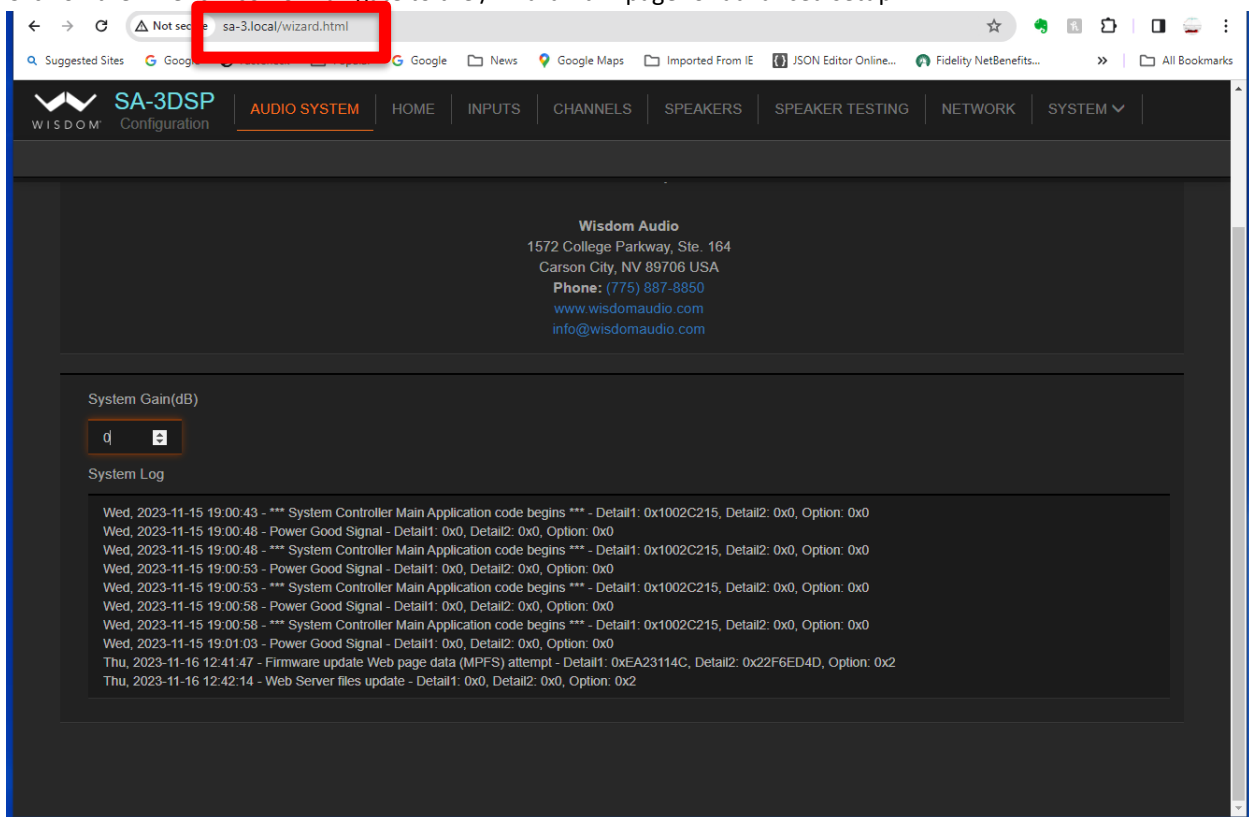
The download from www.WisdomAudio.com will include 2 .zip files labelled STEP 1 and STEP 2. Place the 2 Zip Files on your computer (desktop or other location) **but do not unzip them**.



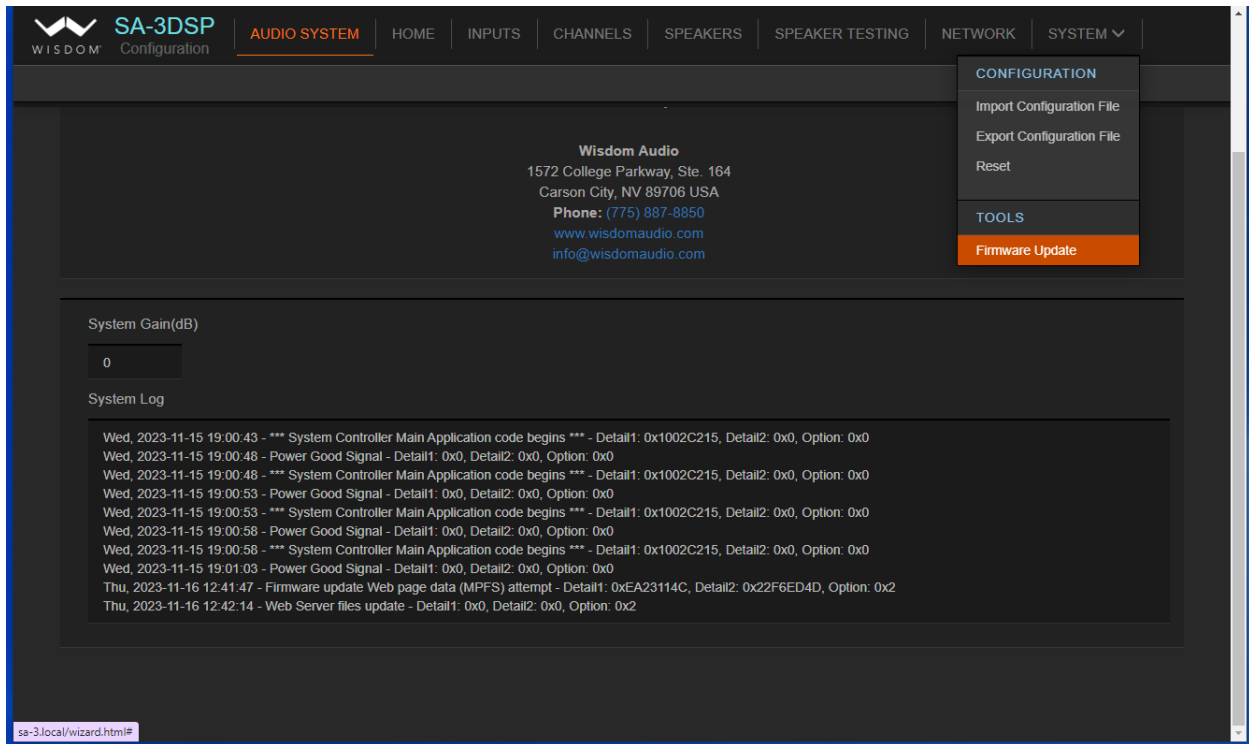
1. Check the current firmware: WebUI Version is the current webpage server files that you see; the System Controller Firmware Version is the operating system of the amplifier →



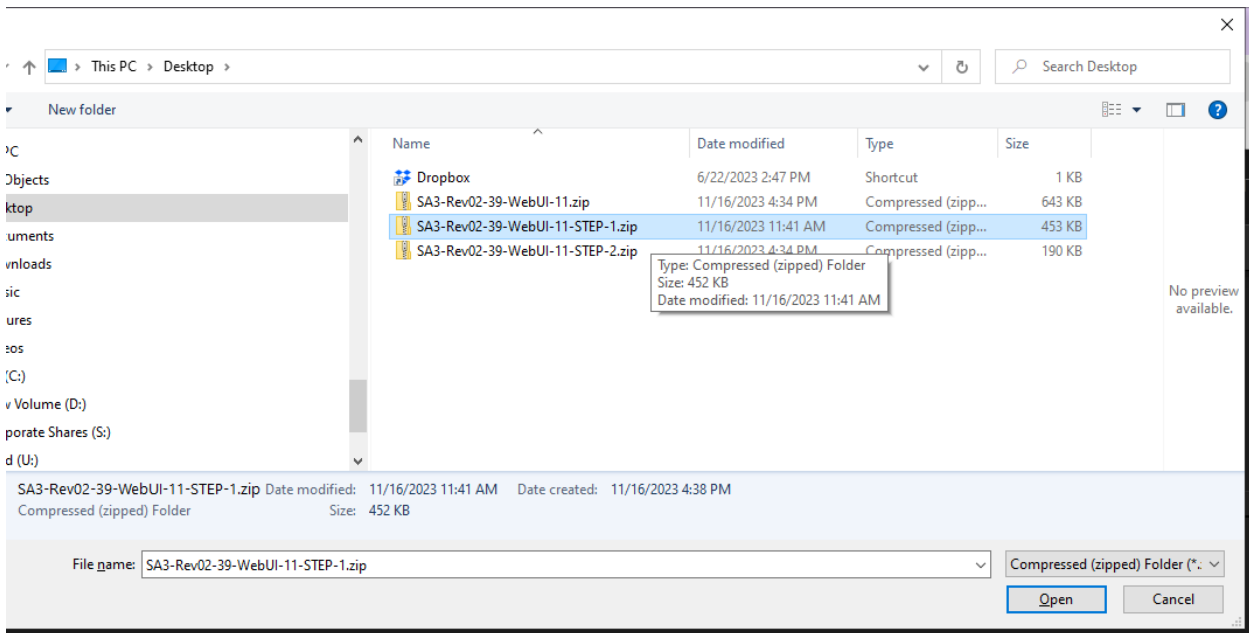
2. Click on the Wrench icon or navigate to the `/wizard.html` page for advanced setup:



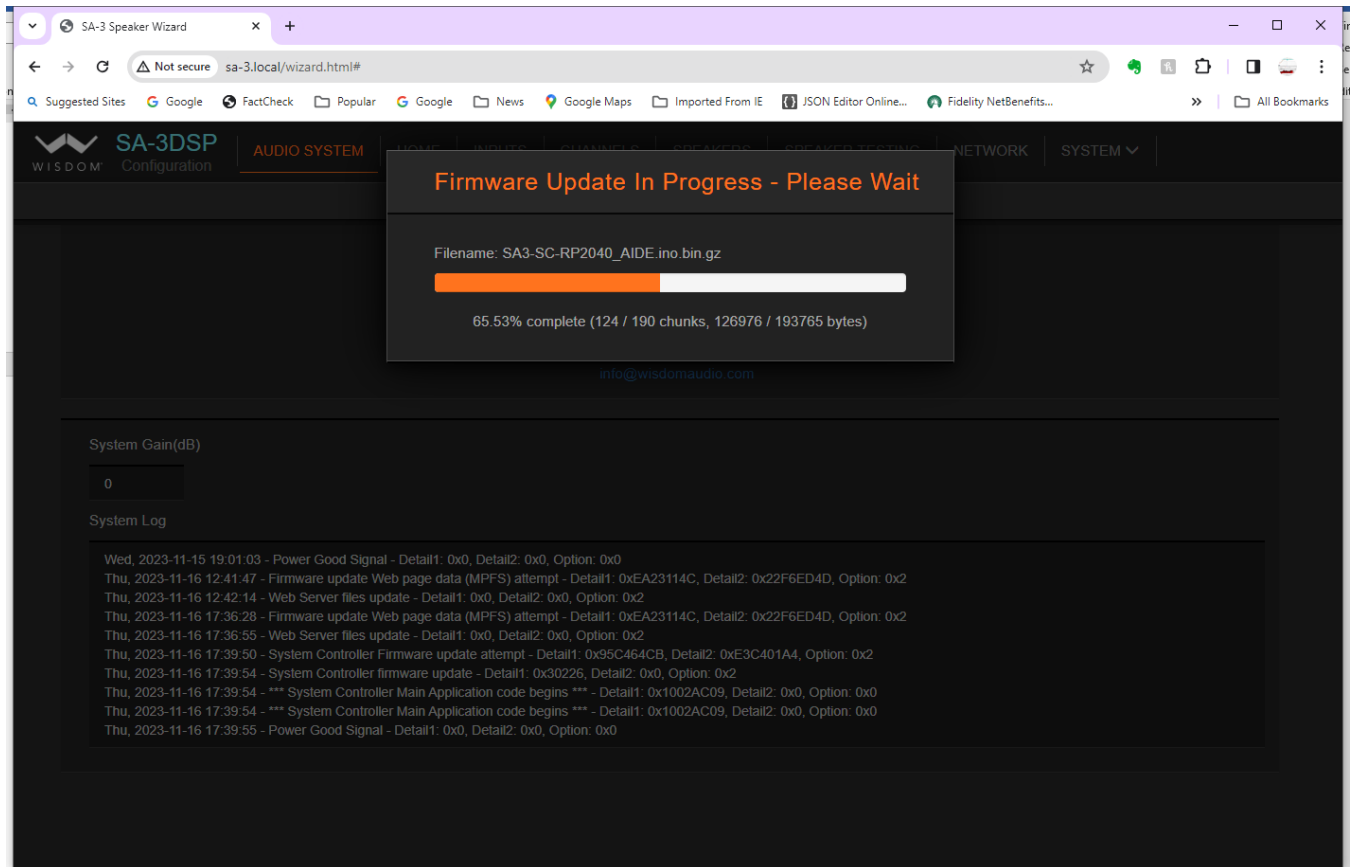
3. SYSTEM→FIRMWARE UPDATE



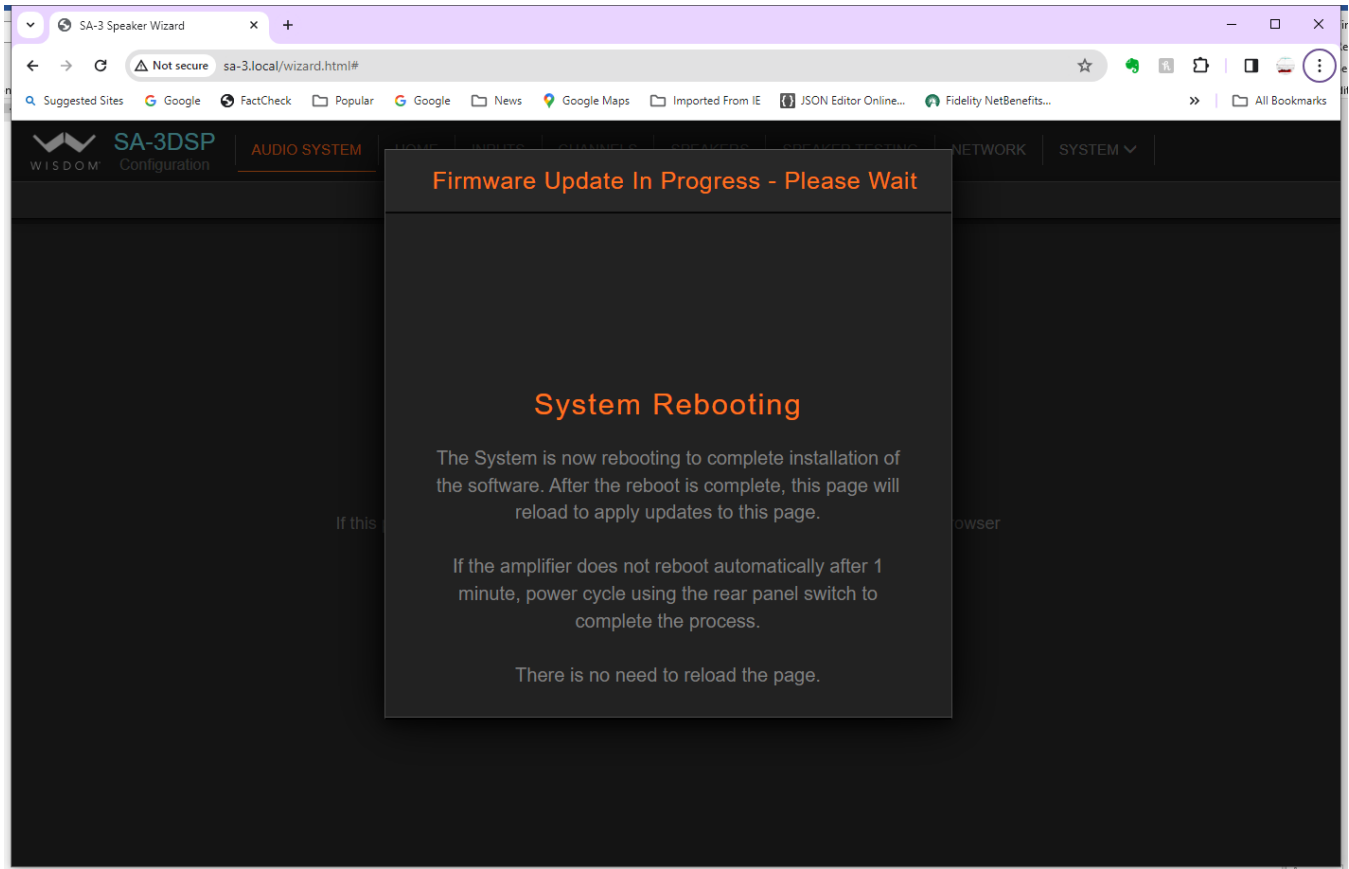
4. Choose the STEP 1 ZIP file previously downloaded from Wisdom:



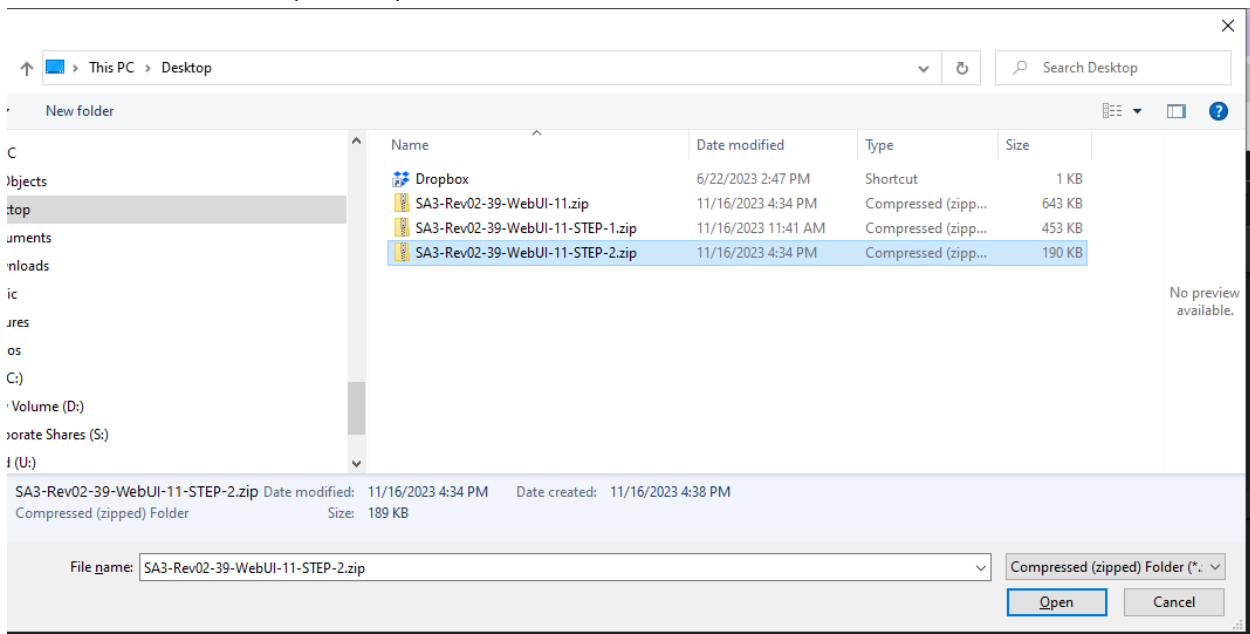
5. First download of SA-x firmware files (Amplifier System Controller Operating System Files)→ The Upload will automatically complete and reboot the system.



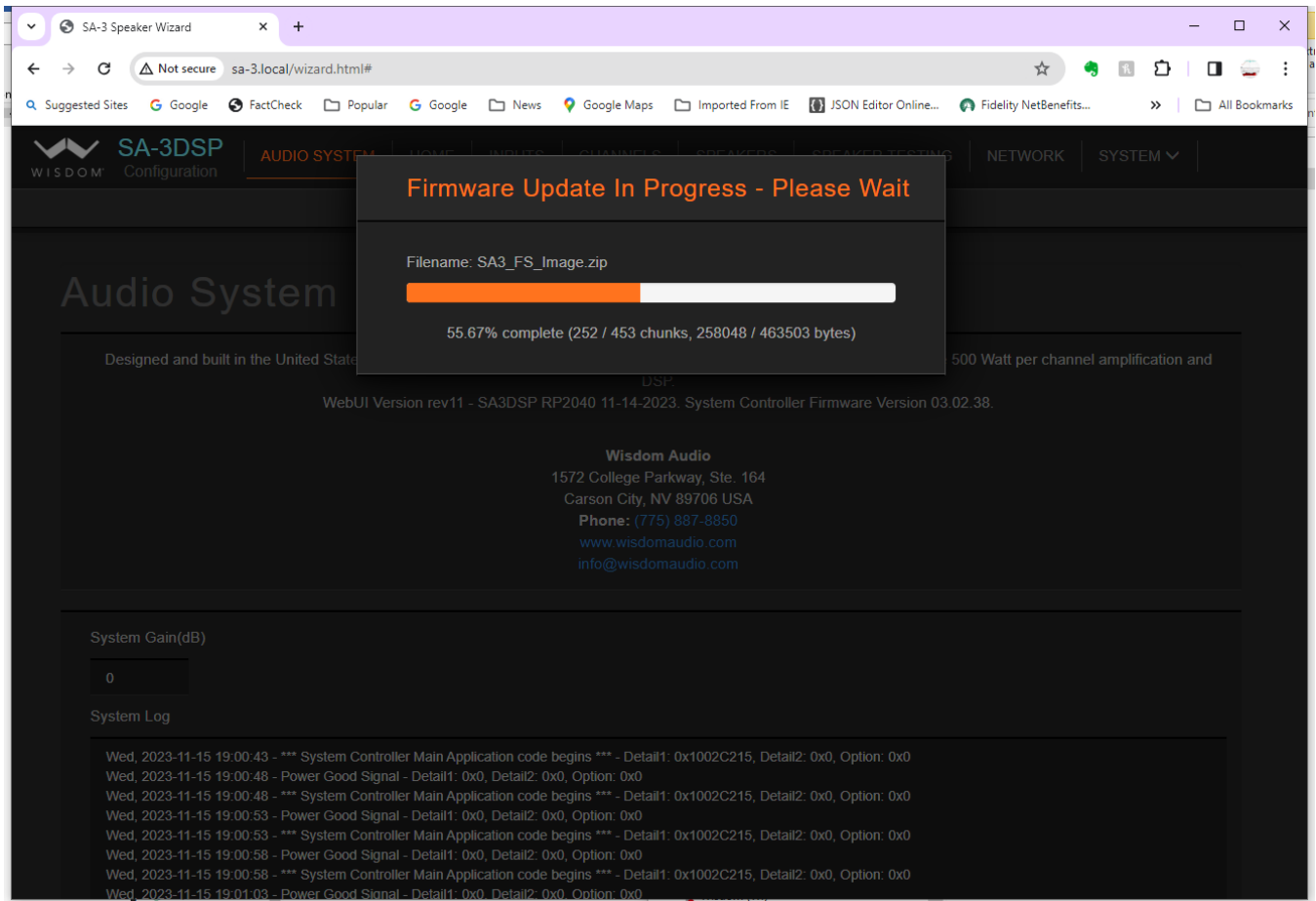
6. If the System does not reboot and reload after 1 minute, switch off the amplifier from the rear panel, wait for the Amber Standby LED to extinguish, and turn on again to complete the update. After Reboot continue to **STEP 2**.



7. Choose the **STEP 2 ZIP** file previously downloaded from Wisdom:



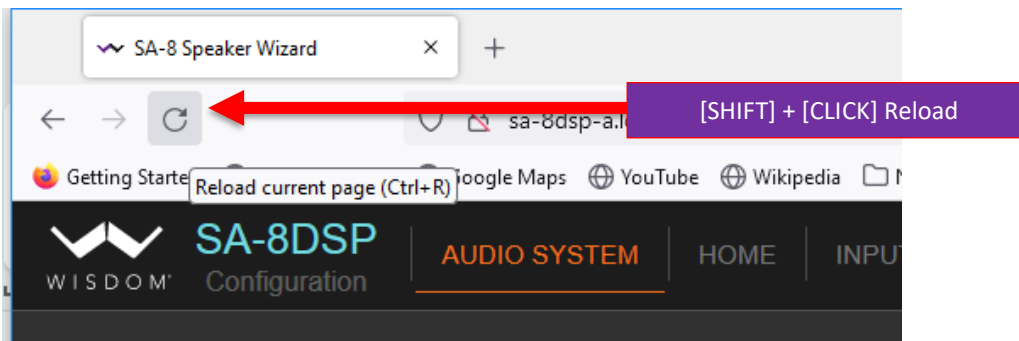
8. Download begins with FS_Image (File System Web UI Files) →



9. The download will complete and after approximately 30 seconds the web page will reload. You are now ready for the final page refresh as shown below.

Refresh the Web UI Interface

After the new files have been loaded into the SA-xDSP, it may be necessary to refresh the Web UI to make the new UI elements visible. Once you have opened your web browser and are on the setup pages for the SA-xDSP, hold down the SHIFT key and press the RELOAD:



Check the firmware has successfully completed

Check that the firmware on the main page shows the latest version. Also you can see the firmware and file system update attempts and update completion in the System Log.

The screenshot shows the SA-3DSP Configuration web interface. The top navigation bar includes links for AUDIO SYSTEM, HOME, INPUTS, CHANNELS, SPEAKERS, SPEAKER TESTING, NETWORK, and SYSTEM. The main content area is titled "Audio System" and displays the following information:

- WebUI Version rev11 - SA3DSP RP2040 11-14-2023. System Controller Firmware Version 08.02.39.
- Wisdom Audio
1572 College Parkway, Ste. 164
Carson City, NV 89706 USA
Phone: (775) 887-8850
www.wisdomaudio.com
info@wisdomaudio.com

Below the main content, there is a "System Gain(dB)" section with a value of 0. The "System Log" section shows a list of events, including a successful firmware update attempt:

- Thu, 2023-11-16 17:50:14 - *** System Controller Main Application code begins *** - Detail1: 0x1002AC09, Detail2: 0x0, Option: 0x0
- Thu, 2023-11-16 17:50:14 - *** System Controller Main Application code begins *** - Detail1: 0x1002AC09, Detail2: 0x0, Option: 0x0
- Thu, 2023-11-16 17:50:20 - Power Good Signal - Detail1: 0x0, Detail2: 0x0, Option: 0x0
- Thu, 2023-11-16 18:05:30 - Firmware update Web page data (MPFS) attempt - Detail1: 0xEA23114C, Detail2: 0x22F6ED4D, Option: 0x2
- Thu, 2023-11-16 18:06:00 - Web Server files update - Detail1: 0x0, Detail2: 0x0, Option: 0x2
- Thu, 2023-11-16 18:06:20 - System Controller Firmware update attempt - Detail1: 0x95C464CB, Detail2: 0xE3C401A4, Option: 0x2
- Thu, 2023-11-16 18:06:20 - System Controller firmware update - Detail1: 0x80227, Detail2: 0x0, Option: 0x2
- Thu, 2023-11-16 18:06:25 - System Controller Main Application code begins - Detail1: 0x1002AC09, Detail2: 0x0, Option: 0x0
- Thu, 2023-11-16 18:06:29 - *** System Controller Main Application code begins *** - Detail1: 0x1002AC09, Detail2: 0x0, Option: 0x0
- Thu, 2023-11-16 18:06:30 - Power Good Signal - Detail1: 0x0, Detail2: 0x0, Option: 0x0