

# Application Guide



## Upgrading to ZAC-60 Firmware Version 2.0 From Any Previous Version

The ZAC-60 2.0 firmware upgrade is a set of special firmware files that are necessary for older ZAC-60 controllers to work with software and hardware offered with ZON expansion modules.

The upgrade is applied to your controller(s) via the ZON Serial Configuration Utility. You will need to download and install the latest version of the ZON Config Installer, version 1.5.0 (Build 123) or higher. The required files for this update are included in the install program.

### Special Notice

This upgrade process requires that your ZON router be at firmware level 1.5 or higher.

This procedure should **not** be applied to a ZAC-60 that has a firmware level of 2.02 or higher.

This firmware upgrade only works on most existing ZAC-60 controllers. ZAC-60s with a serial number that begins with VA0603 cannot be upgraded to version 2.0. Applying this upgrade to a VA0603 series controller will cause the device to become unusable, and may require the device to be returned to the factory for service.

### Before you Begin

1. Verify that the controller(s) are compatible with this upgrade, and that your ZON router's firmware is compatible.
2. To make the operation of the upgrade easier for you, and to eliminate possible cabling issues, it is recommended to have the controller(s) to be upgraded where you can connect to a ZON router on a standard 3 meter network patch cable. This recommendation may make it necessary to uninstall a ZAC-60 from its current location.
3. Disconnect all ZIM-4 input modules from the ZON router. Also disconnect any audio cables from the router's local input.
4. Use your computer's built in 9-pin DSUB serial adapter. If you don't have one, you should use either a PCI or PCMCIA serial adapter. DO NOT use a USB to serial adapter.

### Applying the Field Update - Part One

1. Connect to the ZON router with the ZON Serial Configuration Utility.
2. Once connected, click on the ADVANCED tab in the lower-right corner of the screen.
3. Click on "UPGRADE FIRMWARE" button, and then choose "UPGRADE CONTROLLERS (ZAC)" to view the Controller Firmware window (Figure 1).
4. The first firmware file to be applied in the update is the "Version 2 Enabler.ZAC" file. This file is located in the ZON CONFIG directory on your computer. Click BROWSE and locate the file.
5. You can update each of your connected controllers individually, or choose "All Connected Controllers" from the drop down menu to flash all sequentially.
6. Press START DOWNLOAD to send the update file to the controller(s).

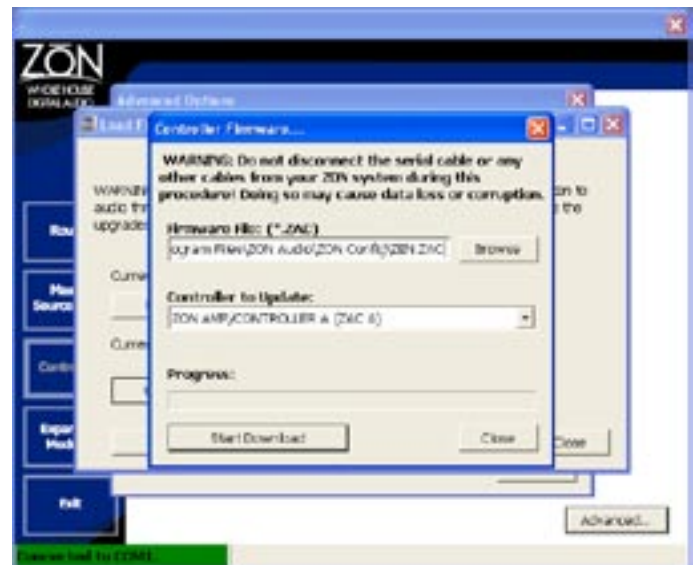


Figure 1

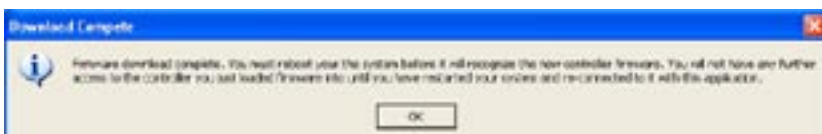


Figure 2

At the end of the download process, you will see a notice similar to Figure 2. If you did not choose "All Connected Controllers" in Step 5 above, and have additional controllers to upgrade, press OK and repeat the firmware update for the remaining controllers connected to your ZON router.

When you have completed applying the "ZEN.ZAC" firmware file to all of the controllers, unplug the ZON router and exit the application. The instructions on the next page will guide you through the remaining steps of the upgrade.



Figure 3

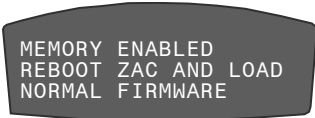


Figure 4



Figure 5

### Applying the Firmware Update - Part Two

Make sure your ZON router has been unplugged for 60 or more seconds, giving the controllers time to fully discharge. Plug in the ZON router and read the displays on the ZAC-60 controllers. You should see a message (Figure 3) indicating that the software onboard the controller is enabling the memory on the device. It is important that you not unplug the router or the controller during this short process. If you do not receive the message in Figure 3 on your ZAC(s), you will need to use the Emergency Recovery Wizard to apply the ZEN.ZAC firmware file to all affected controllers. See our Application Guide, "Using the Emergency Recovery Wizard" for more information.

When the enabling process on each controller is complete, you will see a message on the controller's screen similar to Figure 4. Unplug the ZON router (for 60 or more seconds). Once all the ZACs have fully discharged, reconnect the AC power to the router. The newly-enabled ZAC-60s will show "35" on their display (Figure 5). This indicates that the device is enabled, and is ready to receive a firmware file.

### Applying the Firmware Update - Part Three

1. Connect to the ZON router with the ZON Serial Configuration Utility.
2. Once connected, click on the ADVANCED tab in the lower-right corner of the screen.
3. Click on "UPGRADE FIRMWARE" button, and then choose "UPGRADE CONTROLLERS (ZAC)" to view the Controller Firmware window (Figure 6) You will notice that the newly enabled ZACs do not report a firmware version.
4. The firmware file to be applied for this part of the update is the "ZAC\_202.ZAC" file. This file is located in the ZON CONFIG directory on your computer. Click BROWSE and locate the file.
5. You can update each of your connected controllers individually, or choose "All Connected Controllers" from the drop down menu to flash all sequentially.
6. Press START DOWNLOAD to send the update file to the controller(s).

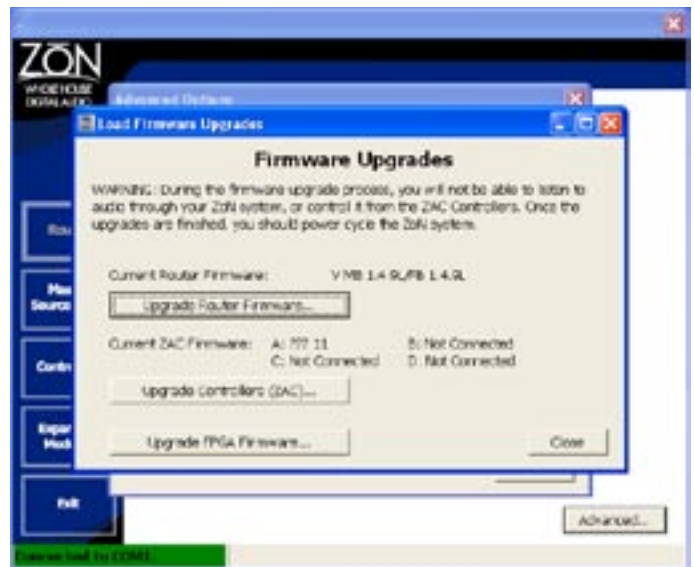


Figure 6

During the firmware download process, the display on the ZAC-60 will display "50", as shown in Figure 7. This indicates that the controller is receiving the firmware file.



Figure 7

Once all of your controllers have been updated with the second firmware file, unplug the ZON router (for 60 or more seconds) and exit the ZON Config application.

If, for some reason, the firmware update fails, you will need to use the Emergency Recovery Wizard to apply the second firmware file to the affected ZACs.

### Applying the Firmware Update - Part Four

Re-connect power to the ZON router. The ZACs will wake normally, but will have a blank line under "NOW PLAYING". This is normal. You will need to use ZON Config to save your settings to the controllers. Re-start ZON config, choose the CONTROLLERS menu item, then choose SAVE SETTINGS TO CONTROLLERS. For more information on how to do this, refer to the ZON Serial Configuration Utility User's guide.