

# Application Guide



## Upgrading to ZON Router Firmware Version 1.5.0 From Any Previous Version

ZON Router firmware level 1.5.0 is a significant software upgrade for the ZON system. Version 1.5.0 enables the router to support expansion modules (e.g. ZIR-232 Device Commander and ZEP-11 External Paging Interface) and includes other improvements in basic router functionality.

The upgrade is applied to your router(s) via the ZON Serial Configuration Utility. You will need to download and install the latest 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

It is recommended that you check your ZON router's firmware levels prior to starting this upgrade. This can be checked via ZON Config by looking at the ROUTERS menu while connected to the ZON router. **Do not apply** this procedure to a ZON router that has firmware level 1.5.0 or higher.

You should not apply ZON router firmware updates to a ZON router may be experiencing technical issues. If you believe that your ZON router is not operating properly, contact Oxmoor technical support for assistance before attempting to apply this, or any, firmware upgrade.

It is also recommended that, for the duration of the upgrade process, that you completely disable all virus scanning software that you may be running on your computer.

### Before you Begin

1. Disconnect all ZAC-60 controller/amplifiers from the ZON router.
2. Disconnect all ZIM-4 input modules from the ZON router. Also disconnect any audio cables from the router's local input.
3. 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. The USB serial adapter is not 100% reliable during serial communications.

The three steps required for this upgrade must be completed in the order listed in this guide. Not applying the firmware files in the proper order will cause your device to be unusable, and may require factory service to repair.

### Applying the Firmware 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 the UPGRADE FIRMWARE button to view the Firmware Updates screen (Figure 1). Choose UPGRADE ROUTER FIRMWARE.
4. The first firmware file to be applied in the update is the "ZR\_1-5-1 Part 1.ZPR" file. This file is located in the ZON CONFIG directory on your computer. Click BROWSE to locate this file.
5. Press START DOWNLOAD to send the update file to the router.

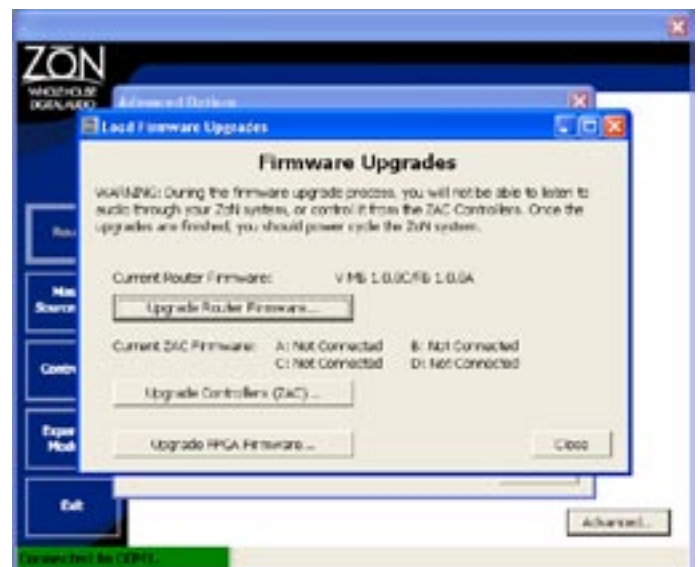


Figure 1

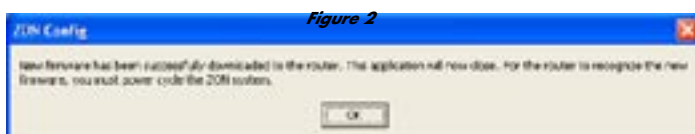


Figure 2

At the end of the download process for part one, you will see a notice similar to Figure 2. Click OK to close ZON Config.

You will also need to unplug the ZON router for at least 30 seconds. Reconnect the AC power and continue to the next step.

#### Applying the Firmware Update - Part Two

1. Connect to the ZON router with the ZON Serial Configuration Utility. As the utility connects, you will see a dialog box similar to Figure 3. Click YES to proceed.
2. Once connected, click on the ADVANCED tab in the lower-right corner of the screen.
3. Click the UPGRADE FIRMWARE button to view the Firmware Updates screen. Choose UPGRADE ROUTER FIRMWARE.
4. The second firmware file to be applied in the update is the "ZR\_1-5-1 Part 2.ZPR" file. This file is located in the ZON CONFIG directory on your computer. Click BROWSE to locate this file.
5. Press START DOWNLOAD to send the update file to the router.

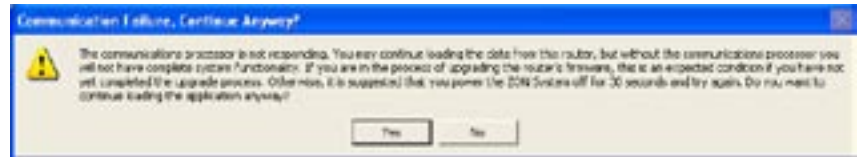


Figure 3



Figure 4

At the end of the download process for part two, you will see a notice similar to Figure 4. Click OK to close ZON Config.

You will also need to unplug the ZON router for at least 30 seconds. Reconnect the AC power and continue to the next step.

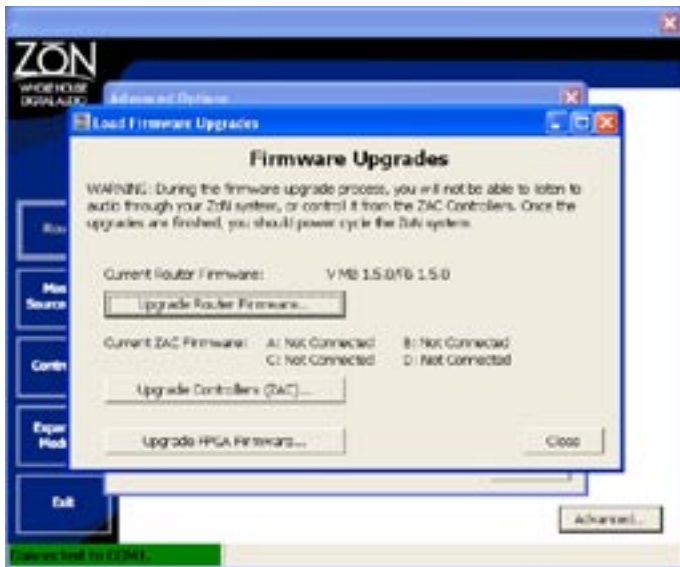


Figure 5

#### 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 the UPGRADE FIRMWARE button to view the Firmware Updates screen (Figure 5). Choose UPGRADE FPGA FIRMWARE.
4. The firmware file to be applied in the update is the "ZON\_FPGA\_112.ZXX" file. This file is located in the ZON CONFIG directory on your computer. Click BROWSE to locate this file.
5. Press START DOWNLOAD to send the update file to the router.
6. At the end of the download process, you will see a dialog box indicating that the download is complete. Click OK to exit the application. Power cycle the router to reset.