

1. Preliminary

- This assumes you know how to set up Ethernet networking for the sonar system. If not, ask knowledgeable personnel to do this.
- Be sure the zip archive isn't zone blocked by the operating system. Right-click on the zip archive, and select Properties. If you see a "Unblock" button near the bottom, click on this.
- Use the Sonic Control program in this package to perform the firmware updates. Do not use older versions of Sonic Control. Be sure the *.ini files are set to writable (Read-only checkbox is unchecked).
- Read this document before upgrading firmware.
Read the manual, pages 57 through 59, for firmware update instructions. The manual is with the Sonic Control program installation (manual.pdf).
- DISABLE the computer firewall and virus checker.
- The sonar system and computer used for this update shall be the only equipment connected to the Ethernet subnet.
- Use a stable power mains. A uninterruptible power supply (UPS) is recommended, especially if onboard a vessel.
- Only update as a single headed system.

2. Firewall Issues

- If you get a firewall message as shown in Figure 1 while performing a firmware update, **DO NOT turn off the sonar system power.**
Simply train the firewall, let the update complete, and **perform the update again.**
- If the firewall is enabled, the firewall will corrupt the download if it hasn't been previously trained. If the firewall hasn't been trained, a Windows message will appear asking if you would like to allow the updater program to utilize the Ethernet port. Check the Public networks checkbox as shown in Figure 1 (red arrow).

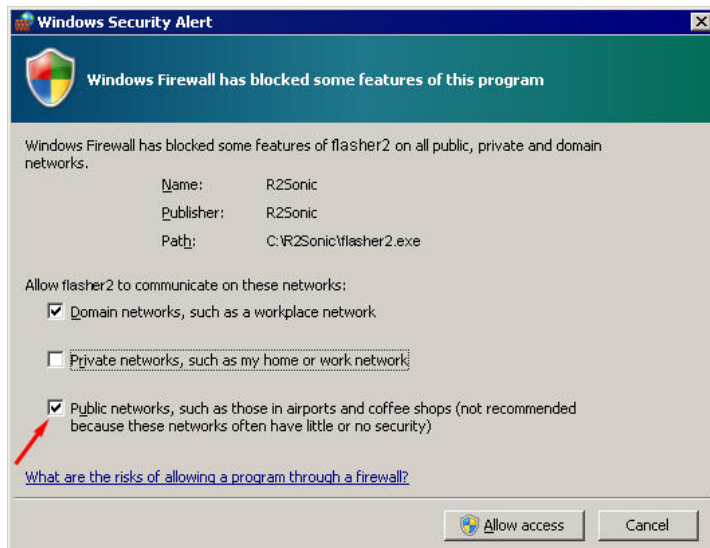


Figure 1. Windows Security Alert message if the firewall is enabled and not trained for the update process.

3. Updating Firmware

- Perform IP Discovery in Settings/Network settings... Click the OK button. After approximately 8 seconds, you should see sonar activity (bathymetry dots and spinner in upper right corner).
- The update tool is located in Tools/Firmware update.
Perform the update on the Sonar Interface Module (SIM) first. Using the Browse button, select Simb\$-05Apr2012.bin and click on the Update button. A command window will open and you will see dots moving across the screen. The update should take about 15 seconds.

If you get a firewall warning message, see Section 2 in this document (which means you didn't turn off the firewall).

- After the update is done for the SIM, power cycle the SIM (you should see all the front panel lights on the SIM flash red then green). After 8 seconds, there should be communication with the SIM. To see the firmware version, click on the Status button. You can read out the SIM version number as shown in Figure 2.
- If the SIM update was successful, perform the sonar head update.
Select Head\$-13Apr2012.bin and click on the Update button.
- After the head update is done (should take about 45 seconds), cycle the power. After 8 seconds, the system should be active. You can check the head firmware version in the Status screen as shown in Figure 3.

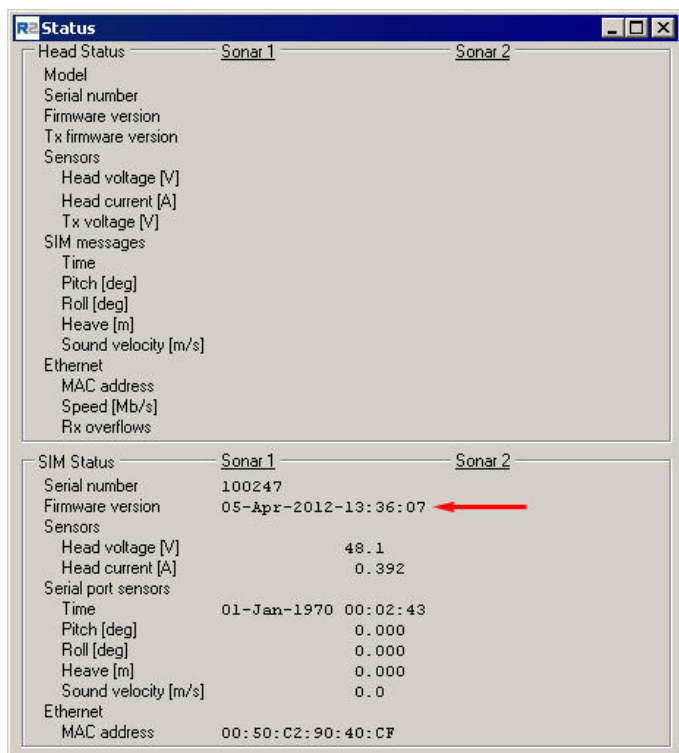


Figure 2. SIM firmware version readout (denoted by red arrow). For head firmware versions before 23 Dec 2011, Head Status information will not show.

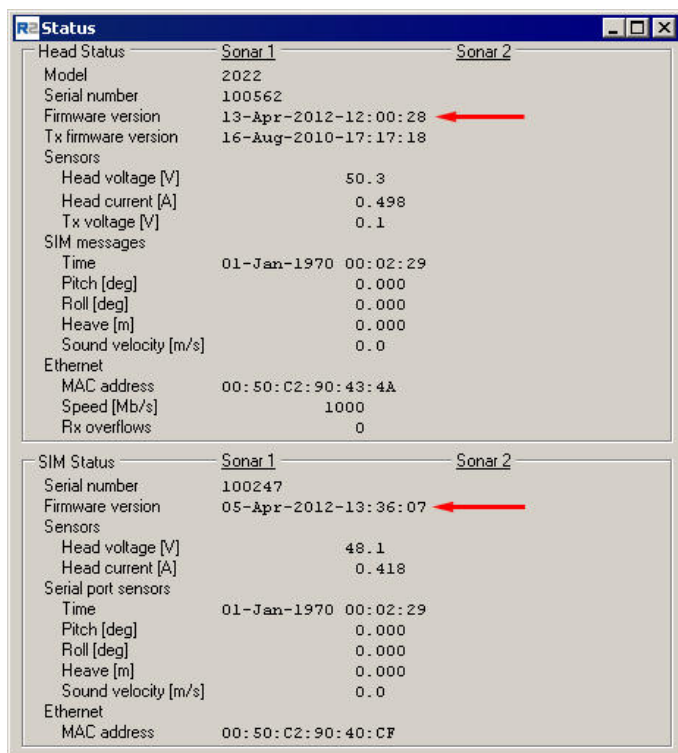


Figure 3. SIM and head version readout (denoted by red arrows).

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