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# White Paper

## *ProViewer Advanced Networking Guide*

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# ProViewer Advanced Networking

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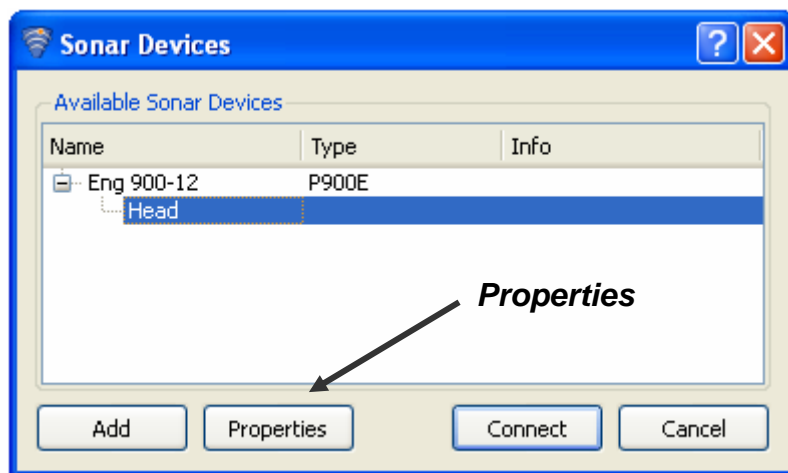
BlueView sonar communicate through an Ethernet interface that require the sonar to have a TCP interface that functions properly. There are 3 ways to accomplish this – static IP, DHCP server, or DHCP host. **The system is shipped from the factory with a static IP address and a DHCP server enabled.** Refer to each sonar’s User Handbook to determine the default IP address for a specific product.

These settings, however, can be changed using the ProViewer Software.

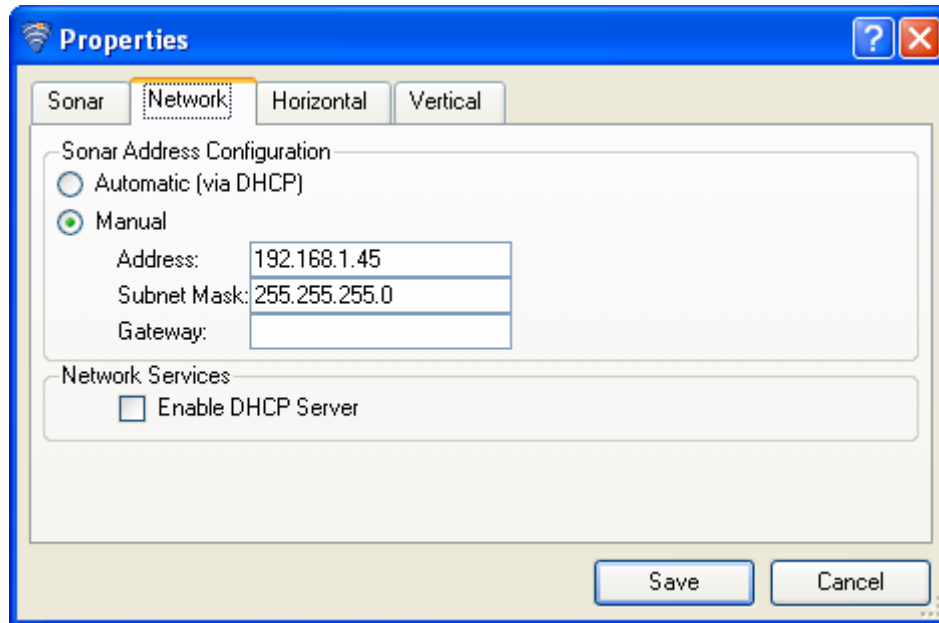
**NOTE:** The ability to change IP settings is an advanced feature of the ProViewer software and is only recommended for users familiar with IP settings and network configurations. **Incorrect settings can result in the loss of communication with the MB1350.**

## Changing the Sonar IP Settings

1. With the BlueView sonar powered and connected, open the ProViewer software and click **File - Connect**.
2. In the window that comes up, select a sonar then click the **Properties** button.



3. In the window that appears, select the **Network** tab. Change the IP settings to the desired values and click **Save**.



4. Reset the sonar by powering the sonar down for 10 seconds, then powering it back up. The sonar will now come up with the new IP address.

**NOTE:** If your PC is set with a static IP address, it may need to be updated to fall in the same network group.

**NOTE:** By factory default, the sonar provides DHCP service to the computer or network it is attached to. If your network has a DHCP server operating, you should disable the sonar DHCP server before connecting it to the new network.

**NOTE:** The sonar Ethernet wiring is designed to connect directly to a PC network card (i.e. it is wired as a crossover cable). You can connect your sonar to an 'auto sensing' network device with the same cable you use to attach to a PC.

## ***When you forget a sonar's IP address***

To connect with the sonar, the sonar's IP address must be compatible with the network or computer to which it is attached. If you mis-configure the sonar's network settings and are unable to connect to it, follow this procedure to re-establish communications with the sonar:

1. Connect the sonar communication cable directly to a Windows XP computers network interface card.
2. As described above, open the Internet Protocol (TCP/IP) Properties window for the network interface card you plugged the sonar into.
3. Under the General tab, select 'Obtain an IP address automatically'.
4. Under the Alternate Configuration tab, select 'Automatic private IP address' and click OK.
5. Close the rest of the windows folders you opened.
6. Cycle the sonar power off (for at least 10 seconds), then turn the sonar back on.
7. After about 100 seconds, the Widows PC and the sonar should have negotiated a 'link local' IP address (in the range of 169.254/16).
8. Using the ProViewer software, connect normally and reconfigure the sonar's network settings to be compatible with its intended network.

## ***Firewall Software***

ProViewer Software communicates with the sonar head using standard networking protocols. If your PC has firewall software, you may see a warning "popup" that asks permission to allow the ProViewer Software to connect to the Sonar. In that case, you may need to configure the firewall to allow communications between your Sonar and your PC using TCP and UDP on port 1149. Refer to your anti-virus software vendor or your computer tech support resources for assistance with your anti-virus software.