Wireless and Beyond
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O2 Surf Access Point Guide

Thank you for purchasing the **RadioLabs O2 Surf High Speed Wireless Platform**. TheO2 Surf Access Point can act as a non-routing LAN extension or as a NAT-enabled gateway to link two locations via the IEEE 802.11N wireless protocol. Using this device, you will be able to broadcast a LAN connection with wireless speeds up to/over 100 megabits/second (condition and distance dependent).

Kit includes:

1 – Bullet High Speed Wireless Platform

1 - Power Over Ethernet Injector & Power Cable

1 – 2.4Ghz Omni 8dBi or 12dBi Wireless Antenna

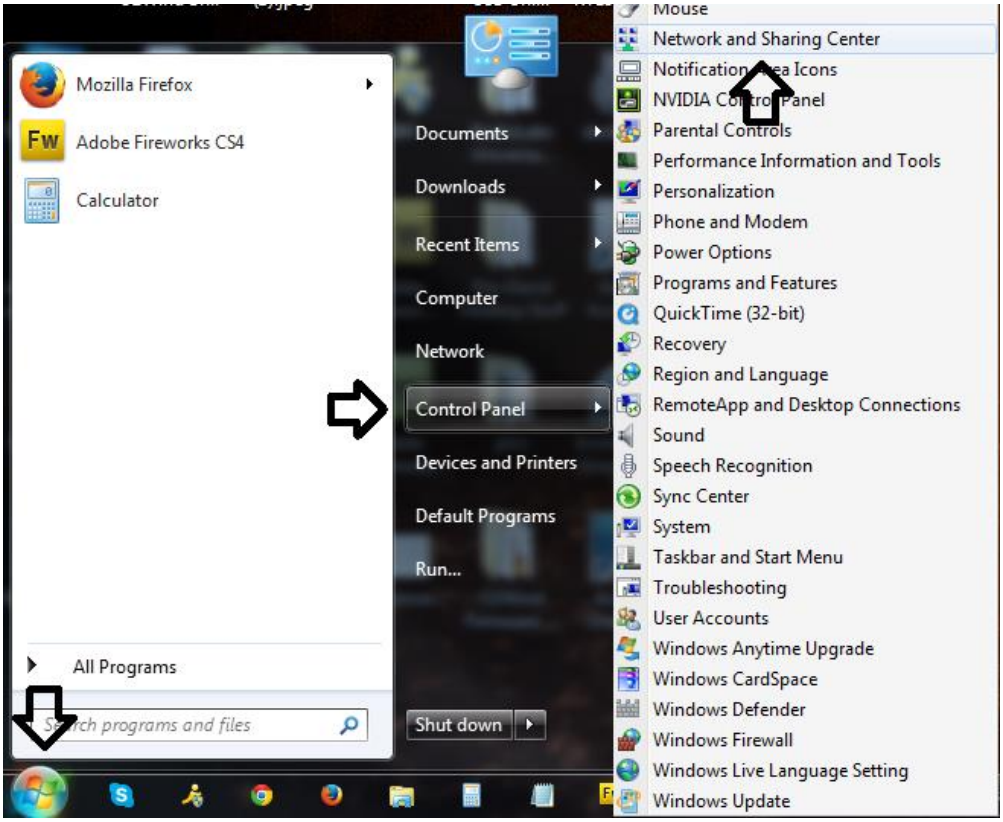
1 – 25ft or 50ft Category 5 Ethernet Cables

1 - 2ft LMR 400 Coax Cable

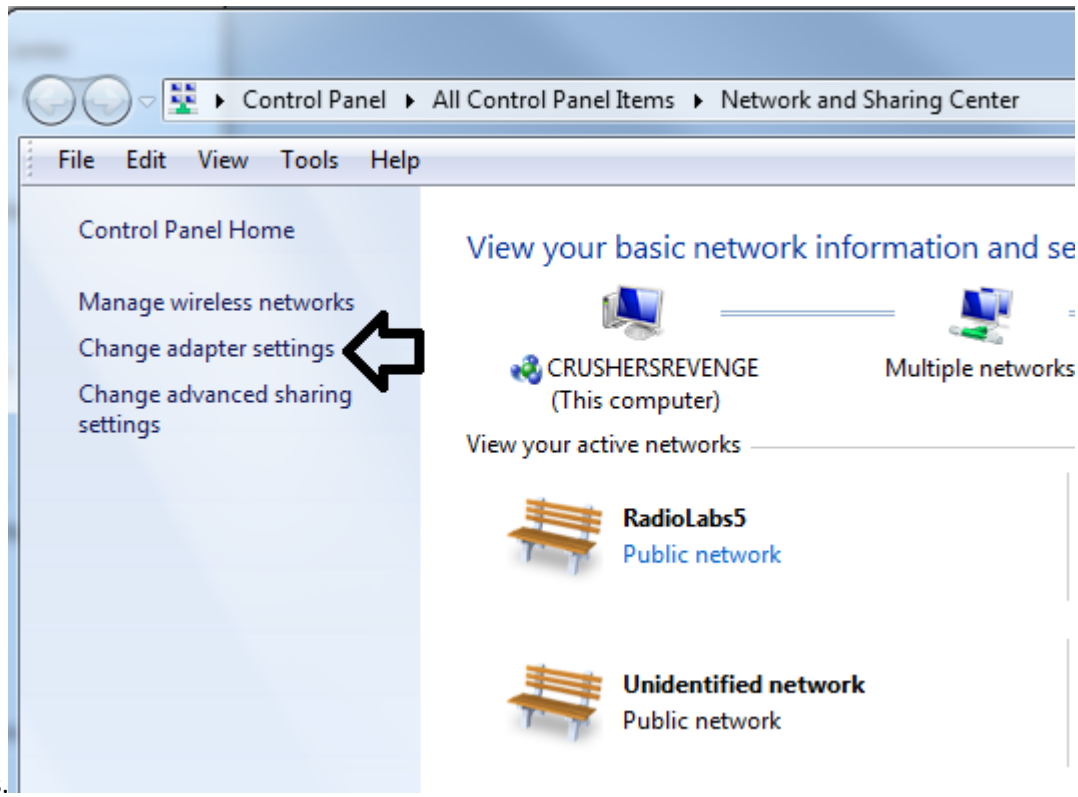
1 - Coax Seal Tape (FREE)

1 - Omni Wireless Antenna Mounting Kit

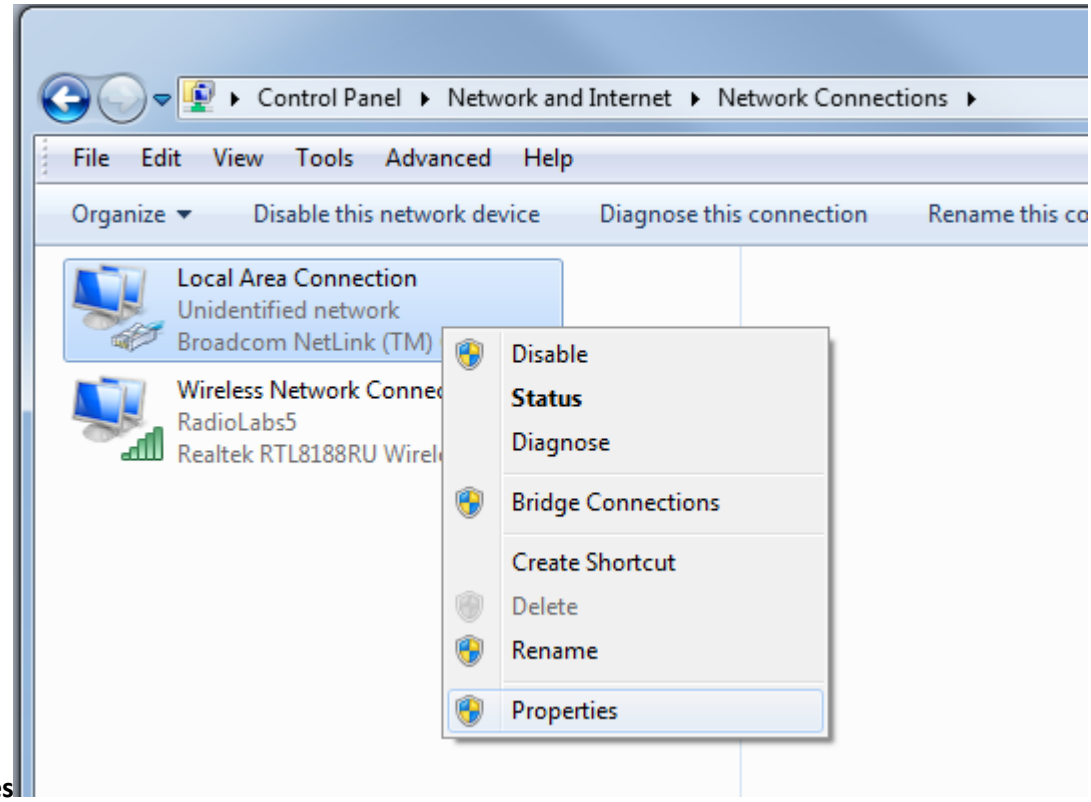
If you are running Windows, click the Start Menu. Then click Control Panel. Then click Network and Sharing Center.

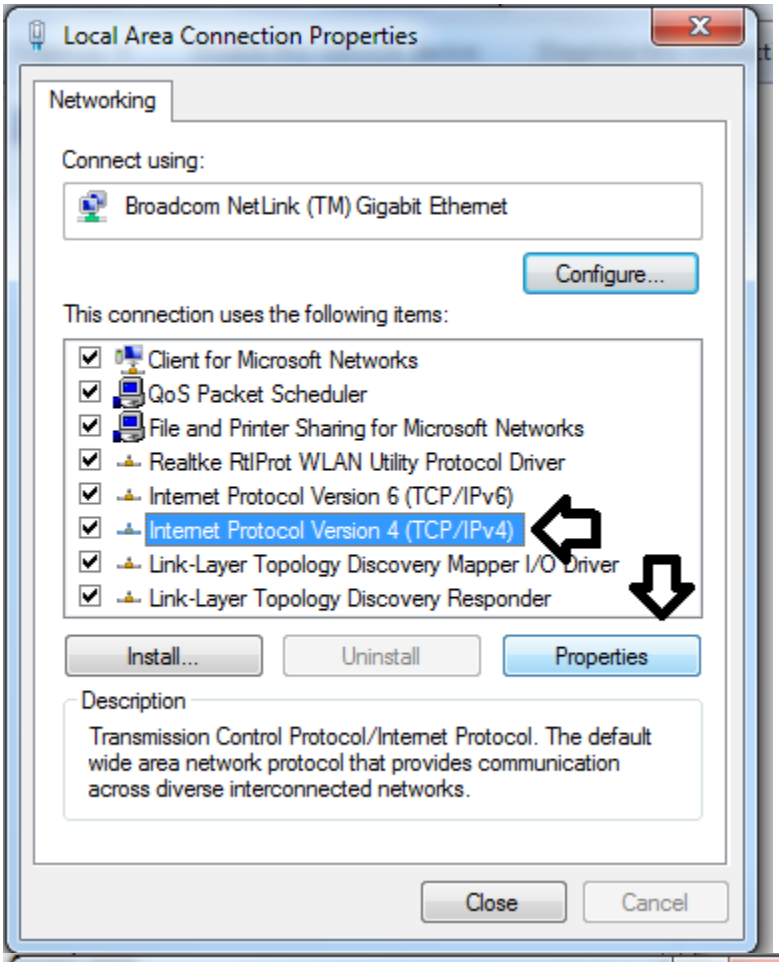


Click **Change adapter settings**.

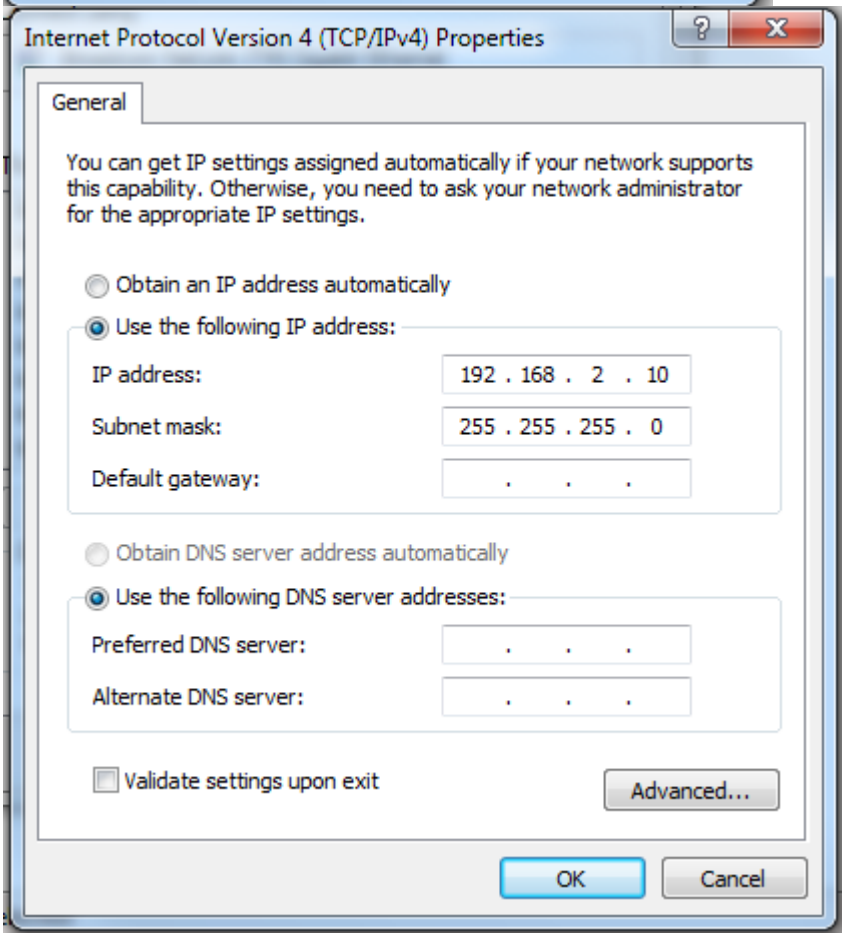


Right click on **Local Area Connection**, then click **Properties**





Click **Internet Protocol Version 4 (TCP/IPv4)**, then click **Properties**

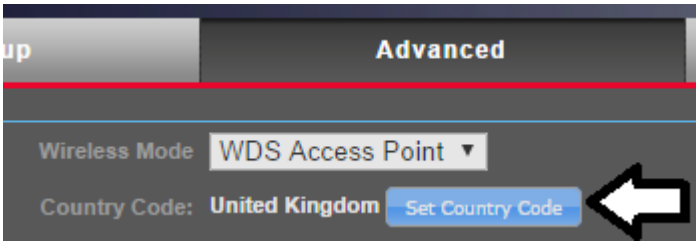


Click **Use the following IP address** and match the info as seen here. Then click **OK**.

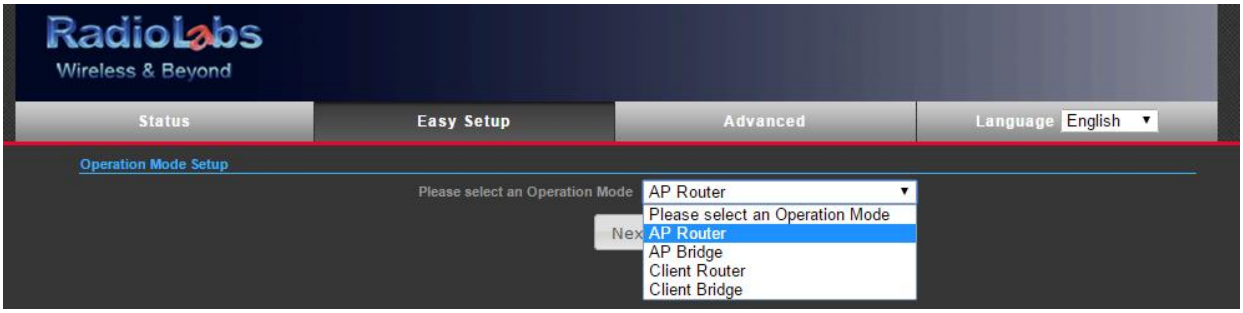
Open up a web browser (Google Chrome or Mozilla Firefox recommended), and navigate to **192.168.2.1**

Log in information

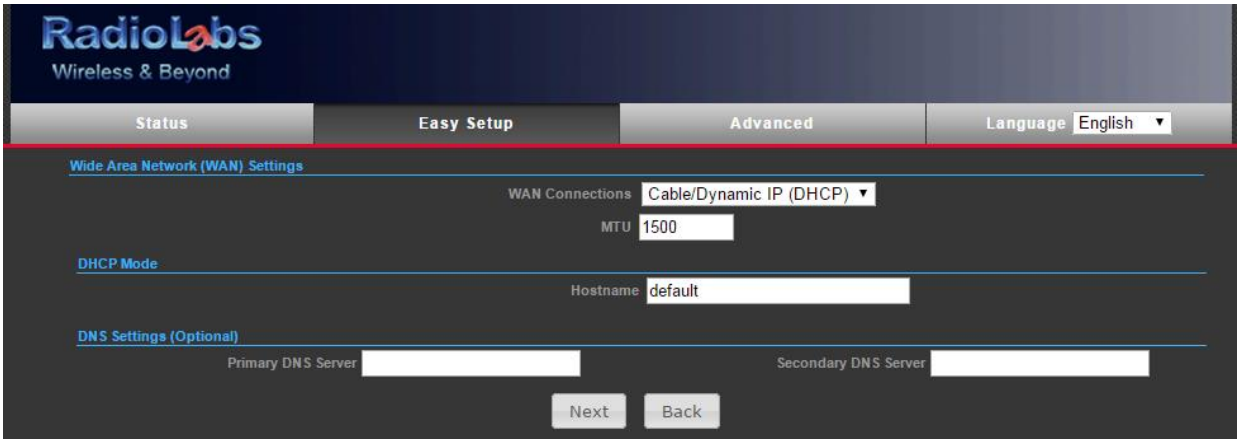
User Name: admin
Password: admin



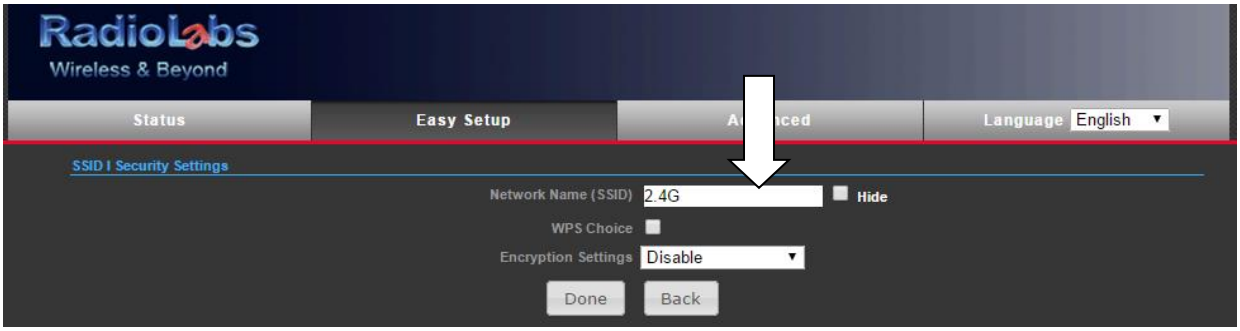
Go to the **Easy Setup** tab and select **AP Bridge** from the dropdown list.



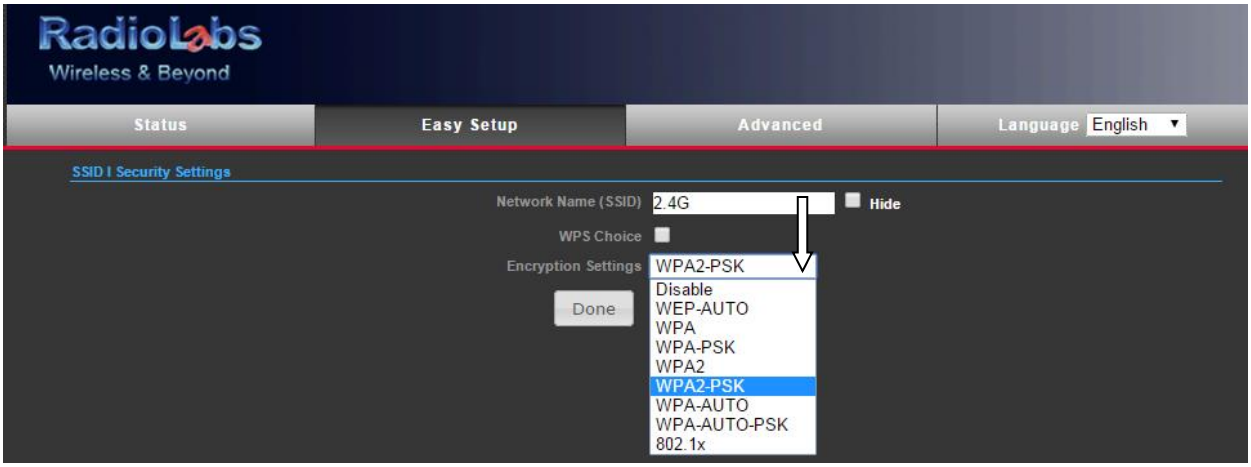
Here you can adjust your DHCP if need be. *You will only have this option if you use the **AP Router** function. Only use this mode if you need Surf to issue IP addresses.



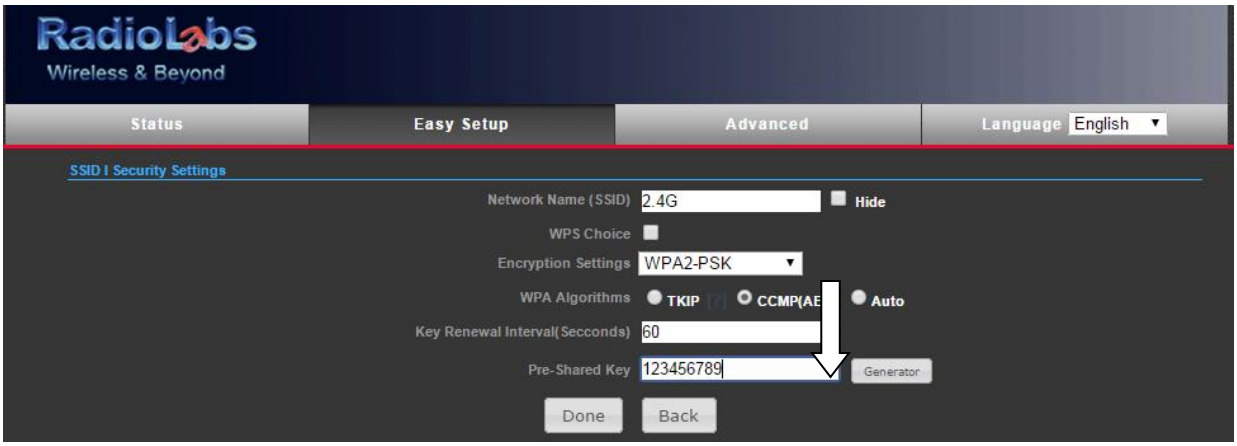
Here you can rename the network if you choose and apply security to your network.



Select the security for your network. The most common is WPA2-PSK.



Next add the pre-shared key to encrypt your network.

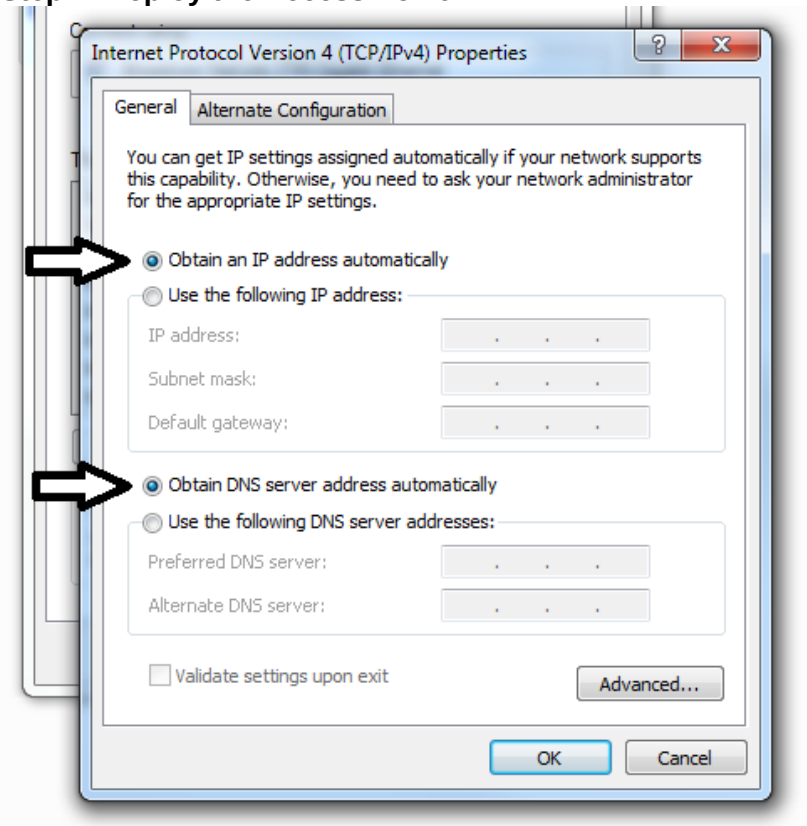


Last, navigate to **Advanced-LAN Settings**, and set the default gateway to same IP address as the Primary Router in your network. ***If you change device to AP Router mode (which enables DHCP function in device) the LAN port becomes a WAN port. In order to access firmware you will need to connect to device wirelessly, and then enter IP address (192.168.2.1) into your browser.**

Step 6: Revert IP Address

Following the steps on **Page 1** of this guide, navigate back into **Network and Sharing Center**.
Click on **Change Adapter Settings**.
Right-click on **Local Area Connection**, then click **Properties**.
Click **Internet Protocol Version 4 (TCP/IPv4)**, then click **Properties.**

Step 7: Deploy the Access Point



Now the Access Point is configured, so you need to deploy it. Plug theO2 Surf radio into an open LAN port on your router. Mount the antenna, and it will begin broadcasting your new network. However, if you like you can test your network before mounting at its final destination.