



PowerG8 WRAP Single Radio

Quick start guide for the Netgate PowerG8 WRAP – Single Radio Units Creating an Client Bridge

1. Attaching Power and LAN to the unit.
 - a. Make sure antennas are connected before applying power to the unit.
 - b. Attach the Power over Ethernet (PoE) "puck" to your LAN via a CAT5 cable. The LAN is attached to the RJ45 connector that is farthest away from the power connector.
 - c. Plug a CAT5 cable from the PoE puck, using the RJ45 closest to the power connector, to the RJ45 waterproof connector on the PowerG8 WRAP unit.
2. Setting the parameters through the GUI
(optionally a serial port may be used, see the WRAP board User Manual at <http://www.netgate.com/info/PG8WRAP/WRAP2C-manual.pdf>)
 - a. Wait 60 seconds, plug your computers Ethernet cable into the PowerG8 WRAP unit with a cross-over cable, or plug both PowerG8 WRAP and your computer into an Ethernet switch or hub.
 - b. Wait 60 second, and check your computers IP settings for its Ethernet card. (If your computer is set up with a static IP, write it down for reentry later.) It should be configured to 192.168.1.xx, where 'xx' is between 100 and 200.
 - c. If step 'b' fails to configure an IP address, configure your computer's Ethernet card to IP address 192.168.1.2, netmask 255.255.255.0. The other settings (such as default router and DNS server) aren't necessary.
 - d. Open a browser (such as Firefox or Internet Explorer)
 - e. In the URL/address field of the browser enter <http://192.168.1.1/>
 - f. When prompted enter the
user id = admin and the
password = mono
 - g. On the menu along the left side of the webGUI Configuration Page, click on the word "assign" where it shows **Interfaces** (assign).
 - i. On the pull down next to WAN, set WAN to wi0 or ath0 (depending on which radio card you purchased) and next to LAN, set LAN to sis0.
 - ii. Click "Save"
 - h. Click on Interfaces->WAN (this will be the wireless port after reboot)
 - i. Change "Type" to "Static"
 - ii. Change "IP Address" to "192.168.2.2/24" (an address in the "home AP" range)
 - iii. Change "Gateway" to "192.168.2.1"
 - iv. Set mode to BSS
 - v. Set the SSID to "PowerG8" (no quotes) to match the SSID of the access point you want to associate with.
 - vi. Uncheck the box (at the bottom of the page) marked "**Block private networks**"
 - vii. Click "Save"
 - i. Click on Interfaces->LAN (this will be the Ethernet port after reboot).
 - i. Set the IP Address to 192.168.3.1 / 24 (or whatever local subnet is desired.)
 - ii. Click Save.
 - j. Click "Firewall->Rules"
 - i. Click the '+' with a circle around it at the far right hand side of the page.
 - ii. Ensure the following are set
 1. Action = "Pass"
 2. Interface = "WAN"
 3. Protocol = "any"

4. Source: type = "any", address = <blank>, "not" <unchecked>
5. Destination: type = "any", address = <blank>, "not" <unchecked>
- iii. Change "Source Port Range"/from: to "any" (the "to:" side will also change to "any")
- iv. Click "Save"
- v. Hit "Apply Changes"
- k. Click "Services/DHCP Server"
 - i. Change the Range to From: 192.168.3.100 and To: 192.168.3.199
 - ii. Verify other settings reflect a 192.168.3.XX network
 - iii. Click "Save"
- l. Click on "General Setup"
 - i. Enter the address for a valid DNS server in the box marked "DNS Servers".
 - ii. Set the time zone, if desired
 - iii. Click "Save"
- m. In Firewall -> NAT, click on Outbound and then "Enable advanced outbound NAT". Click Save. (This will effectively disable NAT so the addresses are passed through). Click Apply Changes if prompted.
- n. Reboot (click on the highlighted word "reboot" that shows above or click on "reboot" under the Diagnostics menu.
 - i. Wait 60 seconds
 - ii. Check to ensure that your computer's Ethernet interface is still configured for 192.168.3.xxx
 - iii. Attempt to contact your WRAP at <http://192.168.3.1> (make sure your PC is set on the same subnet).
3. (If you connected to the WRAP with a crossover cable directly to your computer, skip this step.) Click on "Interfaces/WAN", set Type to DHCP. Click on Save.
4. Change your computer back to your original network settings; either to the static IP address and mask you wrote down, or; back to "Obtain an IP address automatically".

At this stage your LAN computer should be able to ping the gateway computer beyond the WAN port