

Wireless Nomad Router Setup Instructions (beta) 31AUG2006



Download required files

1. Download

<http://wirelessnomad.com/routerSetup/firmware/openwrt-wrt54g-jff2.bin> file to:

- a) Windows: c:\
- b) Mac: Your home directory
- c) *IX: ~/

2. Download all other Wireless Nomad files from

<http://wirelessnomad.com/routerSetup/> to:

- a) Windows: c:\nomad
- b) Mac: create a nomad directory in your home directory and put the files in it
- c) *IX: ~/nomad

3. If on Windows, download and install putty and pscp (put them in c:\windows)

Upgrade firmware

1. Plug in Linksys router

2. Connect ethernet cable: one end to computer the other end to port 1 on Linksys router

3. Open web browser and connect to 192.168.1.1 (user admin, pass admin)

4. Administration->Firmware Upgrade, browse to openwrt-wrt54g-jffs2.bin and upload

5. Wait until upgrade complete (DMZ light goes out), then start command line mode

- a) Windows: Start->Run type "cmd" and hit enter
- b) Mac: Start Terminal (Applications Folder->Utilities)
- c) *IX: open a shell

Configure Router Password

1. From command line, type "telnet 192.168.1.1" and hit enter
2. At "OpenWrt" prompt type "reboot" and hit enter (needed only for first time startup)
3. Wait until "DMZ" light goes out, then from command line type "telnet 192.168.1.1" and hit enter
4. At "OpenWrt" prompt type "passwd" and hit enter, then type in and verify a new password for the wireless router
5. Type "exit" and hit enter

Copy Configuration Files to Router

1. From command line:
 - a) Windows: Type "cd c:\nomad" and hit enter
 - b,c) Mac, *IX: Type "cd ~/nomad" and hit enter
2. From command line:
 - a) Windows: Type "pscp *.* root@192.168.1.1:/tmp" and hit enter
 - b,c) Mac, *IX: Type "scp *.* root@192.168.1.1:/tmp" and hit enter

Configure Router for Wireless Nomad

1. Connect to router
 - a) Windows: Use putty to connect to 192.168.1.1. Username is "root" and password is the password you created
 - b) Mac, *IX: From command line, type "ssh root@192.168.1.1" and hit enter. Password is the password you created
2. From prompt type "./setup.sh" and hit enter
 - Enter your Wireless Nomad node ID (e.g. 0456) when prompted
 - Enter the pppoe username and password when prompted
3. Type "reboot" and hit enter

OK, All Done... Surf!

Questions:

What is the Node ID used for?

The Node ID is used to determine whether you are the "owner" of a node when you log in. If you are the owner of a node, your Internet traffic will get priority over other wireless users logged in at the same time. The Node ID is also used to map your login name to your home connection (used if you want to set up a server with our dynamic naming system). Wireless Nomad also uses the Node ID to aid in troubleshooting if you have any connection difficulties.

What is "phoneHome.sh"?

phoneHome.sh is a very small program which connects back to Wireless Nomad's servers every 5 minutes. We keep track of which routers have recently "Phoned Home" in order to help troubleshoot connection problems. No other data is collected during the "phone home" process.

What is the authorized_keys file?

This file allows Wireless Nomad to access your router remotely to aid in troubleshooting connection difficulties and performing routine upgrades.

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