

Preamble:

I kept the default router settings:

My D-Link Router IP Setting: 192.168.0.1

The original La Fonera Router IP Setting is set at 192.168.1.1 I later changed it to the same subnet as my D-link at a IP address of 192.168.0.10

When I was done, I could access the La Fonera via 192.168.0.10 via wirelessly or hooked up to a PC. The Ethernet card should be set to obtain an IP automatically and was never set to a static address.

D-Link Setup

The only modification I made to my D-link 624 router was to enable 64-bit WEP Encryption. All other settings remain in the default state, with the exception of port forwarding. Why did I not enable a higher encryption? Because, I live in a neighborhood where the nearest house is 15 yards away and the network would hardly reach them. In addition, if it did reach them they could not join the network because it is secure. If they really wanted internet access that bad and cracked, the 64-bit key then it would show up in my logs and I could change it or let them have it for all their hard work.

Xbox Setup

Set your Xbox to DHCP - Recommended

Or

Set your IP in your Xbox dashboard to a static IP address in the 192.168.0.* subnet where you can change the * to any number unused or between 11 and 255


La Fonera Router Setup to Client Bridge Mode

1. Log into the La Fonera Router.
2. **Administration** Tab — **Factory Defaults** Subtab
 1. Restore Factory Defaults: Yes
 2. Click "Save Settings" — triggers reboot.
 3. Router's IP will now be 192.168.1.1 if it was not already.
This was a very important step.
3. Connect Wirelessly to the Router.
4. **Setup** Tab — **Basic Setup** Subtab
 1. Connection Type: Automatic Configuration - DHCP
 2. STP: Disable
 3. Router Name: BRIDGE - Optional Settings
 4. Host Name: BRIDGE - Optional Settings
 5. Domain Name: blank
 6. MTU: Auto
 7. **Network Setup** – Router IP
 1. Local IP Address: 192.168.0.10 (Changed to match main router subnet)
 2. Subnet Mask: 255.255.255.0
 3. Gateway: 192.168.0.1 (IP of the router your wanting to connect to)
 4. Local DNS: 192.168.0.1 (IP of the router your wanting to connect to)
 8. DHCP Type: DHCP Server
 9. DHCP Server: Disable
5. Click "Save Settings" — triggers reboot.

6. **Security** Tab — **Firewall** Subtab
 1. SPI Firewall: Disable
 2. Click "Save Settings"
7. **Wireless** Tab — **Basic Settings** Subtab
 1. Regulatory Domain:
 2. TX Power: 18 (default value is 16 but La Foneras max power is 18 dBm)
 3. Antenna Gain: 6 dBi
 4. Wireless Mode: Client Bridge
 5. Wireless Network Mode: G-Only Match your primary router.
 6. Short Preamble: Disabled
 7. Extended Range: Disabled
 8. Diversity: Disabled
 9. TX Antenna: Primary
 10. RX Antenna: Primary
 11. AP Isolation: Disabled
 12. Wireless Network Name (SSID): Match your primary router. (Mine is LEO227 and yes case matters!)
 13. Click "Save Settings"
8. **Wireless** Tab — **Wireless Security** Subtab
 1. Security Mode: Match your primary router; I used WEP 64 (*I know others have tried 128bit WEP and it works!*)
 2. Default Transmit Key: Check box 1
 3. Encryption: Match your primary router.
 4. Key 1: Match your primary router. (mine was abcdefghij *must be 10 characters)
 5. Click "Save Settings"
9. **Setup** Tab — **Advanced Routing** Subtab
 1. Operating Mode: RIP2 Router
 2. Click "Save Settings"
10. **Status** Tab — **Wireless** Subtab
 1. Click Site Survey and join the appropriate wireless network.
 2. You should get a window that says: Successfully Joined the following network as a client ""
 3. The Access Point table should show the MAC address of your Primary Router, along with signal strength. (SSID Broadcast MUST be enabled on your primary router) At this point, it was working 100% for me.
If that worked, then:
11. **Administration** Tab — **Backup** Subtab
 1. Click "Backup"
(*SAVE this config before doing anything else to your router, just in case!*)

Continue for Screenshots.

Step 3 Setup Tab - Basic Setup Subtab

 ... control panel

Firmware: DD-WRT v24 Beta (03/23/07) std
Time: 03:30:13 up 1 day, 22 min, load average: 0.21, 0.07, 0.01
WAN IP: 0.0.0.0

Setup Wireless Security Access Restrictions NAT / QoS Administration Status

Basic Setup DDNS MAC Address Clone Advanced Routing Networking

Wireless Setup

Help [more...](#)

WAN Connection Type

Connection Type: Automatic Configuration - DHCP

STP: Enable Disable

Optional Settings

Router Name: BRIDGE

Host Name: BRIDGE

Domain Name:

MTU: Auto 1500

Automatic Configuration - DHCP:

This setting is most commonly used by Cable operators.

Host Name:

Enter the host name provided by your ISP.

Domain Name:

Enter the domain name provided by your ISP.

Local IP Address:

This is the address of the router.

Subnet Mask:

This is the subnet mask of the router.

DHCP Server:

Allows the router to manage your IP addresses.

Start IP Address:

The address you would like to start with.

Maximum DHCP Users:

You may limit the number of addresses your router hands out.

Time Settings:

Choose the time zone you are in and Summer Time (DST) period. The router can use local time or UTC time.

Network Setup

Router IP

Local IP Address: 192 . 168 . 0 . 10

Subnet Mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 0 . 1

Local DNS: 192 . 168 . 0 . 1

Network Address Server Settings (DHCP)

DHCP Type: DHCP Server

DHCP Server: Enable Disable

Start IP Address: 192.168.0. 100

Maximum DHCP Users: 50

Client Lease Time: 1440 minutes

Static DNS 1: 0 . 0 . 0 . 0

Static DNS 2: 0 . 0 . 0 . 0

Static DNS 3: 0 . 0 . 0 . 0

WINS: 0 . 0 . 0 . 0

Use DNSMasq for DHCP:

Use DNSMasq for DNS:

DHCP-Authoritative:

Time Settings

Time Zone / Summer Time (DST): UTC+01:00 / last Sun Mar - last Sun Oct

Step 6 Security Tab - Firewall Subtab

dd-wrt.com ... control panel

Firmware: DD-WRT v24 Beta (03/23/07) std
Time: 03:35:31 up 1 day, 28 min, load average: 0.01, 0.03, 0.00
WAN IP: 0.0.0.0

Setup Wireless **Security** Access Restrictions NAT / QoS Administration Status

Firewall **VPN**

Security [Help](#) [more...](#)

Firewall Protection

SPI Firewall Enable Disable

Additional Filters

- Filter Proxy
- Filter Cookies
- Filter Java Applets
- Filter ActiveX

Block WAN Requests

- Block Anonymous WAN Requests (ping)
- Filter Multicast
- Filter WAN NAT Redirection
- Filter IDENT (Port 113)

Log Management

Log

Log Enable Disable

[Save Settings](#) [Cancel Changes](#)

Step 7 Wireless Tab – Basic Setting Subtab Screenshot

The screenshot shows the dd-wrt.com control panel with the 'Wireless' tab selected. The 'Basic Settings' subtab is active, displaying the 'Wireless Physical Interface' configuration for the ath0 interface. The settings include:

- Regulatory Domain: UNITED_STATES
- TX Power: 18 dBm
- Antenna Gain: 6 dBi
- Wireless Mode: Client Bridge
- Wireless Network Mode: G-Only
- Short Preamble: Disabled
- Extended Range: Disabled
- Diversity: Disabled
- TX Antenna: Primary
- RX Antenna: Primary
- AP Isolation: Disabled
- Wireless Network Name (SSID): LEO227
- Sensitivity Range (ACK Timing): 2000 (Default: 2000 meters)

On the right side, there is a 'Help' section with a 'more...' link. The 'Wireless Network Mode' section explains that G-Only mode is chosen to exclude Wireless-G clients, and the 'Sensitivity Range' section explains that it adjusts the ack timing, with 0 disabling it completely.

At the bottom, there are buttons for 'Add', 'Save Settings', and 'Cancel Changes'.

Step 8 Wireless Tab – Wireless Security Subtab Screenshot

The screenshot shows the dd-wrt.com control panel with the 'Wireless' tab selected. The 'Wireless Security' subtab is active, displaying the security configuration for the ath0 interface. The settings include:

- Security Mode: WEP
- Default Transmit Key: 1 (selected)
- Encryption: 64 bits 10 hex digits
- Passphrase: (empty) with a 'Generate' button
- Key 1: abcdefghij
- Key 2: (empty)
- Key 3: (empty)
- Key 4: (empty)

On the right side, there is a 'Help' section with a 'more...' link. The 'Security Mode' section explains that users can choose from Disable, WEP, WPA Personal, WPA Enterprise, or RADIUS, and that all devices must use the same security mode.

At the bottom, there is a 'Save Settings' button.

Step 9 Setup Tab — Advanced Routing Subtab

Firmware: DD-WRT v24 Beta (03/23/07) std
Time: 03:28:24 up 21 min, load average: 0.30, 0.15, 0.05
WAN IP: 0.0.0.0

dd-wrt.com ... control panel

Setup Wireless Security Access Restrictions NAT / QoS Administration Status

Basic Setup DDNS MAC Address Clone **Advanced Routing** Networking

Advanced Routing

Operating Mode

Operating Mode: RIP2 Router

Dynamic Routing

Interface: Disable

Static Routing

Select set number: 1 () Delete

Route Name:

Destination LAN IP: 0. 0. 0. 0

Subnet Mask: 0. 0. 0. 0

Gateway: 0. 0. 0. 0

Interface: LAN & WLAN

Show Routing Table

Save Settings Cancel Changes

Help more...

Operating Mode:
If the router is hosting your Internet connection, select *Gateway* mode. If another router exists on your network, select *Router* mode.

Select set number:
This is the unique route number, you may set up to 20 routes.

Route Name:
Enter the name you would like to assign to this route.

Destination LAN IP:
This is the remote host to which you would like to assign the static route.

Subnet Mask:
Determines the host and the network portion.

Step 10 Status Tab – Wireless Subtab Screenshot

Firmware: DD-WRT v24 Beta (03/23/07) std
Time: 03:29:59 up 22 min, load average: 0.32, 0.17, 0.07
WAN IP: 0.0.0.0

dd-wrt.com ... control panel

Setup Wireless Security Access Restrictions NAT / QoS Administration **Status**

Router LAN **Wireless** Bandwidth Sys-Info

Wireless

Wireless Status

MAC Address: 00: :1D

Radio: Radio is On

Mode: Client Bridge

Network: G-Only

SSID: LEO227

Channel: 6

Xmit: 18 dBm

Rate: 48 Mb/s

Encryption - Interface ath0: Enabled, WEP

PPTP Status: Disconnected

Wireless Packet Info

Received (RX): 3418 OK, no error 100%

Transmitted (TX): 3669 OK, no error 100%

Wireless Nodes

Access Point

MAC Address	Interface	Rate	Signal	Noise	SNR	Signal Quality
xx:xx:xx:xx:08:92	ath0	48M	-69	-95	26	30%

Site Survey

Auto-Refresh is On

Help more...

MAC Address:
This is the Router's MAC Address, as seen on your local, wireless network.

Network:
As selected from the Wireless tab, this will display the wireless mode (Mixed, G-Only, B-Only or Disabled) used by the network.

OUI Search:
By clicking on any MAC address, you will obtain the Organizationally Unique Identifier of the network interface (IEEE Standards OUI database search).