

Preamble:

I kept the default router settings:

My D-Link Router IP Settings is set at 192.168.0.1

La Fonera Router IP Settings is set at 192.168.1.1

When you are done you can access your La Fonera via 192.168.1.1 if it's hooked up with an Ethernet cable to your pc or you can check the log files of your D-Link router for the assigned IP address. Your Ethernet card should be set to obtain an IP automatically.

D-Link Setup

The only modification I made to my D-link 624 router was enable 64-bit WEP Encryption. All other settings remain in the default state. 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.

Xbox Setup

Set your Xbox to DHCP - Recommended

Or

Set your IP in your Xbox dashboard to a static IP address in the 192.168.1.* subnet where you can change the * to any number between 2 and 255


La Fonera Router Setup to get on the internet

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. **Setup** Tab — **Basic Setup** Subtab
 1. Connection Type: Automatic Configuration - DHCP
 2. STP: Disable
 3. Local IP: 192.168.1.1
 4. Router Name: Bridge - optional Settings
 5. Host Name: Bridge - optional Settings
 6. Domain Name: blank
 7. Network Setup – Router IP

1. Local IP Address: 192.168.1.1
2. Subnet Mask: 255.255.255.0
3. Gateway: 0.0.0.0
4. Local DNS: 0.0.0.0
8. DHCP Type: DHCP Server
9. DHCP Server: enabled
4. Click "Save Settings" — triggers reboot.
5. **Security** Tab — **Firewall** Subtab
 1. SPI Firewall: Disable
 2. Click "Save Settings"
6. **Wireless** Tab — **Basic Settings** Subtab
 1. Regulatory Domain:
 2. TX Power: 18
 3. Antenna Gain: 8
 4. Wireless Mode: Client
 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"
7. **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 abcdef)
 5. Click "Save Settings"
8. **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:
9. **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 (03/10/07) sta
Time: 03:48:10 up 1 min, load average: 0.73, 0.23, 0.07
WAN IP: 192.168.0.100

SetupWirelessSecurityAccess RestrictionsApplications & GamingAdministrationStatus

Basic SetupDDNSMAC Address CloneAdvanced RoutingNetworking

Wireless Setup

Internet Connection Type

Connection Type: Automatic Configuration - DHCP

STP: Enable Disable (disable for COMCAST ISP)

Optional Settings (required by some ISPs)

Router Name:

Host Name:

Domain Name:

MTU: Auto

Network Setup

Router IP

Local IP Address: ...

Subnet Mask: ...

Gateway: ...

Local DNS: ...

Network Address Server Settings (DHCP)

DHCP Type: DHCP Server

DHCP Server: Enable Disable

Start IP Address: 192.168.1.

Maximum DHCP Users:

Client Lease Time: minutes

Static DNS 1: ...

Static DNS 2: ...

Static DNS 3: ...

WINS: ...

Use DNSMasq for DHCP:

Use DNSMasq for DNS:

DHCP-Authoritative:

Time Settings

Help

[more...](#)

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.

Step 5 Security Tab - Firewall Subtab

The screenshot shows the DD-WRT control panel interface. At the top, the logo 'dd-wrt.com' is on the left, and system information is on the right: 'Firmware: DD-WRT v24 Beta (03/10/07) std', 'Time: 03:49:22 up 2 min, load average: 0.50, 0.28, 0.10', and 'WAN IP: 192.168.0.100'. Below the logo is a navigation bar with tabs: 'Setup', 'Wireless', 'Security' (selected), 'Access Restrictions', 'Applications & Gaming', 'Administration', and 'Status'. Under 'Security', there are sub-tabs: 'Firewall' (selected) and 'VPN'. The main content area is titled 'Security' and contains several sections:

- Firewall Protection:** A section with a sub-header 'Firewall Protection' and a single option 'SPI Firewall' with radio buttons for 'Enable' and 'Disable'. The 'Disable' option is selected.
- Additional Filters:** A section with a sub-header 'Additional Filters' and four unchecked checkboxes: 'Filter Proxy', 'Filter Cookies', 'Filter Java Applets', and 'Filter ActiveX'.
- Block WAN Requests:** A section with a sub-header 'Block WAN Requests' and four checkboxes: 'Block Anonymous Internet Requests (ping)' (checked), 'Filter Multicast' (unchecked), 'Filter Internet NAT Redirection' (unchecked), and 'Filter IDENT (Port 113)' (checked).
- Log Management:** A section with a sub-header 'Log Management' and a sub-section 'Log' with radio buttons for 'Enable' and 'Disable'. The 'Disable' option is selected.

At the bottom of the page, there are two buttons: 'Save Settings' and 'Cancel Changes'.

Help more...

Firewall Protection:
Enable or disable the SPI firewall.

Step 6 Wireless Tab – Basic Setting Subtab Screenshot

The screenshot shows the dd-wrt.com control panel interface. At the top, the logo 'dd-wrt.com' is on the left, and system information is on the right: 'Firmware: DD-WRT v24 Beta (03/10/07) std', 'Time: 04:08:04 up 21 min, load average: 0.24, 0.11, 0.08', and 'WAN IP: 192.168.0.100'. Below the logo is a navigation bar with tabs: 'Setup', 'Wireless', 'Security', 'Access Restrictions', 'Applications & Gaming', 'Administration', and 'Status'. Under the 'Wireless' tab, there are sub-tabs: 'Basic Settings', 'Wireless Security', 'MAC Filter', and 'ATH0-WDS'. The main content area is titled 'Wireless Physical Interface' and contains a form for configuring the 'Physical Interface ath0 - SSID [LEO227] HWAddr [00: :1D]'. The form includes the following fields:

- Regulatory Domain: UNITED_STATES (dropdown)
- TX Power: 16 dBm (input)
- Antenna Gain: 6 dBi (input)
- Wireless Mode: Client (dropdown)
- Wireless Network Mode: G-Only (dropdown)
- Short Preamble: Disabled (dropdown)
- Extended Range: Disabled (dropdown)
- Diversity: Disabled (dropdown)
- TX Antenna: Primary (dropdown)
- RX Antenna: Primary (dropdown)
- AP Isolation: Disabled (dropdown)
- Wireless Network Name (SSID): LEO227 (input)
- Sensitivity Range (ACK Timing): 2000 (input), (Default: 2000 meters)

On the right side of the form, there are two informational sections:

- Wireless Network Mode:** If you wish to exclude Wireless-G clients, choose *B-Only* mode. If you would like to disable wireless access, choose *Disable*.
- Sensitivity Range:** Adjusts the ack timing. 0 disables ack timing completely.

Below the form is a section titled 'Virtual Interfaces' with an 'Add' button. At the bottom of the page are two buttons: 'Save Settings' and 'Cancel Changes'.

Step 7 Wireless Tab – Wireless Security Subtab Screenshot

The screenshot displays the dd-wrt.com control panel interface. At the top, the logo "dd-wrt.com" and "control panel" are visible. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration, and Status. The sub-navigation bar shows Basic Settings, Wireless Security, MAC Filter, and ATH0-WDS. The main content area is titled "Wireless Security" and contains the following configuration options:

- Physical Interface ath0 SSID [LE0227] HWAddr [00: :1D]**
- Security Mode:** A dropdown menu set to "WEP".
- Default Transmit Key:** Radio buttons for keys 1, 2, 3, and 4, with key 1 selected.
- Encryption:** A dropdown menu set to "64 bits 10 hex digits".
- Passphrase:** An input field with a "Generate" button.
- Key 1:** An input field containing "abcdef".
- Key 2:** An empty input field.
- Key 3:** An empty input field.
- Key 4:** An empty input field.

On the right side, there is a "Help" section with a "more..." link. The text reads: "Security Mode: You may choose from Disable, WEP, WPA Personal, WPA Enterprise, or RADIUS. All devices on your network must use the same security mode."

At the bottom of the configuration area, there is a "Save Settings" button.

Step 8 Status Tab – Wireless Subtab Screenshot

Firmware: DD-WRT v24 Beta (03/10/07) std
Time: 04:00:20 up 13 min, load average: 0.32, 0.11, 0.07
WAN IP: 192.168.0.100

dd-wrt.com ... control panel

Setup Wireless Security Access Restrictions Applications & Gaming Administration **Status**

Router LAN **Wireless** Bandwidth Sys-Info

Wireless Help more...

Wireless Status

MAC Address	00: :1D
Radio	Unknown
Mode	Client
Network	G-Only
SSID	LEO227
Channel	6
Xmit	16 dBm
Rate	48 Mb/s
Encryption - Interface ath0	Enabled, WEP
PPTP Status	Disconnected

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).

Wireless Packet Info

Received (RX)	4899 OK, no error	100%
Transmitted (TX)	6753 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	-71	-96	25	28%

[Site Survey](#)

Auto-Refresh is On

http://192.168.1.1 - BRIDGE - Join - Mozilla Firefox

Successfully joined the following network as a client: LEO227

[Continue](#)