



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for D-LINK DIR-850L. You'll find the answers to all your questions on the D-LINK DIR-850L in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual D-LINK DIR-850L
User guide D-LINK DIR-850L
Operating instructions D-LINK DIR-850L
Instructions for use D-LINK DIR-850L
Instruction manual D-LINK DIR-850L

D-Link

Version 1.0 | 02/04/2013



User Manual

Wireless AC1200 Dual Band Gigabit Cloud Router

DIR-850L



[You're reading an excerpt. Click here to read official D-LINK DIR-850L user guide](http://yourpdfguides.com/dref/5434239)
<http://yourpdfguides.com/dref/5434239>

Manual abstract:

All rights reserved. @@@@i Trademarks.....

.....
.....
.....
.....
.....
.....
.....
.....
.....

..... i Table of Contents Product Overview..

.....
.....
.....
.....
.....
.....
.....

. 1 Package Contents.....

.....
.....
.....
.....
.....
.....
.....

1 System Requirements.....

.....
.....
.....
.....
.....
.....
.....

. @@@@ @@@@ 5 LEDs.....

.....
.....
.....
.....
.....
.....
.....
.....
.....

... 6 Installation.....

.....
.....
.....
.....

.....
.....
.....
.....

..... *7 Before you Begin...*

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.. *7 . Wireless Installation Considerations.....*

.....
.....
.....
.....

.. *8 Manual Setup.....*

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.... *9 Configuration.....*

.....
.....
.....
.....

.....
.....
.....
.....

.. *11 Quick Setup Wizard.....*

.....
.....
.....

.....
.....
.....
.....

.....

. *12 QRS Mobile App....*

.....
.....

.....
.....
.....

.....
.....
.....

.....19 D-Link® SharePort™ Plus.....

.....
.....
.....

.....
.....
.....

.....20 SharePort Mobile App.....

.....
.....
.....

.....
.....
.....

.....21 Web-based Configuration Utility..

.....
.....
.....

.....
.....
.....

.....25 Internet Connection Setup....

.....
.....

.....
.....
.....

.....26 Internet Connection Setup Wizard...

.....
.....
.....

.....27 Internet (Manual).

.....
.....
.....

.....
.....
.....

.....33 D-Link DIR-850L User Manual Static (assigned by ISP).....

.....
.....
.....

.....
.....
.....
.....35 PPPoE (DSL).....

.....
.....
.....
.....
.....
.....
.....
.....
.....

.....36 PPTP.....
.....
.....
.....
.....
.....
.....
.....

.....
.....
.....
.....38 L2TP.

.....
.....
.....
.....
.....
.....
.....

.....
.....
.....

.....40 DS-Lite.....

.....
.....
.....
.....
.....
.....
.....

.....
.....
.....

.....42 Wireless connection setup wizard.

.....
.....

..43 Wi-Fi Protected Setup Wizard...

.....
.....

.....
.....
.....46 Manual wireless network setup.

.....
.....
.....
.....
.....
.....47 Wireless Security...

.....
.....
.....
.....
.....
.....58 What is WPA?..

.....
.....
.....
.....
.....
.....
.....
.....58 Network Settings.....

.....
.....
.....
.....
.....
.....
.....
.....59 Router Settings....

.....
.....
.....
.....
.....
.....
.....
.....59 DHCP Server Settings.....

.....
.....
.....
.....
.....
.....
.....60 DHCP Reservation.....

.....
.....
.....

.....
.....
.....
.....
62 Storage.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
...63 Media Server.

.....
.....

.....
.....
.....
.....

.....
.....
.....

.....
.....66 IPv6..

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.....68 IPv6 Internet Connection Setup Wizard..

.....
.....

68 IPv6 Manual Setup.....

.....

.....
.....
.....
.....

..73 mydlink Settings...

.....
.....

.....
.....
.....
.....

.....
.....
...82 Advanced..
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....85 Virtual Server..
.....
.....
.....

.....
.....
.....
.....

.....
.....

.85 Port Forwarding....
.....

.....
.....
.....
.....

.....
.....

...86 Application Rules..
.....

.....
.....
.....
.....

.....
.....

...87 QoS Engine..
.....

.....
.....
.....
.....

.....
.....
.....
.....

88 Network Filters.....

.....
.....
.....
.....
.....

.....
.....

....90 ii Table of Contents Access Control.....

.....
.....
.....

.....
.....
.....
.....

.....
91 . Website Filters....

.....
.....

.....
.....
.....
.....

.....
.....
..94 Inbound Filters...

.....

.....
.....
.....
.....

.....
.....
.....

..95 Firewall Settings.....

.....
.....
.....
.....

.....
.....
.....

...96 Routing.....

.....
.....
.....
.....

.....
.....
.....
.....

...98 Advanced Wireless..

.....
.....

.....
.....
.....
.....

.....
99 Wi-Fi Protected Setup (WPS).....

.....
.....

.....
.....
100 Advanced Network Settings.....

.....
.....

.....
.....
.....
. 102 Guest Zone.....

.....
.....
.....
.....

.....
.....
.....
103 IPv6 Firewall.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
..... 104 IPv6 Routing...

.....
.....
.....

.....
.....
.....
.....

.....
.....
... 105 Tools..

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
..... 106 Admin.

.....
.....
.....
.....

.....
.....
111 Language Pack....
.....
.....

.....
.....
.....
.....

.....
.. 111 Dynamic DNS...
.....
.....

.....
.....
.....
.....

.....
.....
. 112 System Check....
.....

.....
.....
.....
.....

.....
.....
.....
113 Schedules.....

.....
.....
.....
.....

.....
.....
.....
.....

. 114 Status.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
..... 115 Device Info.....

.....
.....
.....
.....

.....
.....
.....
.....

.... *115 Logs.....*

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... *116 Statistics...*

.....
.....
.....
.....

.....
.....
.....
.....

117 Internet Sessions.....

.....
.....
.....

.....
.....
.....
.....

..... *118 Routing..*

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.... *119 D-Link DIR-850L User Manual Wireless.....*

.....
.....
.....
.....

.....
.....
.....
.....

..... *120 IPv6.*

.....

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

.. 121 IPV6 Routing.....

.....
.....
.....
.....
.....
.....

..... 122 Support..

.....
.....
.....
.....
.....
.....
.....
.....

..... 123 Connect a Wireless Client to your Router..

.....
.....

....124 WPS Button.

.....
.....
.....
.....
.....
.....
.....

124 Windows® 8.....

.....
.....
.....
.....
.....
.....
.....

125 . Windows® 7.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

. 127 . WPA/WPA2.....

.....
.....
.....

.....
.....
.....

.....

..... 127 WPS....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.... 130 Windows Vista®.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

... 134 WPA/WPA2..

.....
.....
.....

.....
.....
.....

.....
.....
.....

.. 135 WPS/WCN 2.0.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.. 137 Windows® XP...

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

138 WPA/WPA2.....

.....
.....
.....

.....
.....
.....
.....

.....
.... 139 Troubleshooting.

.....
.....

.....
.....
.....
.....

.....
.....
141 Wireless Basics.....

.....
.....
.....
.....
.....

.....
.....

....145 What is Wireless?.

.....

.....
.....
.....
.....

.....
.....
.....

.....
146 Tips.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... *148 . Wireless Modes...*

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

149 . Networking Basics.....

.....
.....
.....
.....

.....
.....

.... *150 Check your IP address.*

.....
.....
.....
.....

.....
.....
.....

150 Statically Assign an IP address.....

.....
.....
.....
.....

..... *151 Technical Specifications.....*

.....
.....
.....

.....
.....
.....

.... *152 iii Section 1 - Product Overview Product Overview Package Contents DIR-850L Wireless AC1200 Dual Band Gigabit Cloud Router Ethernet Cable Power Adapter Wi-Fi Configuration Note WI-FI Configuration Note CD If any of the above items are missing, please contact your reseller. Note: Using a*

power supply with a different voltage rating than the one included with the DIR-850L will cause damage and void the warranty for this product. D-Link DIR-850L User Manual 1 Section 1 - Product Overview System Requirements Network Requirements • An Ethernet-based Cable or DSL modem • IEEE 802.11ac, 802.11a, 802.11n or 802.

11g wireless clients • 10/100/1000 Ethernet Computer with the following: • Windows®, Macintosh, or Linux-based operating system • An installed Ethernet adapter Web-based Configuration Utility Requirements Browser Requirements: • Internet Explorer 7 or higher • Firefox 3.5 or higher • Safari 4 or higher • Chrome 8 or higher Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version. • iPhone/iPad/iPod Touch (iOS 3.0 or higher) • Android device (1.6 or higher) • Computer with the following browser requirements: • Internet Explorer 7 or higher • Firefox 3 or higher • Safari 5 or higher • Chrome 5 or higher iPhone, iPad, and iPod touch are registered trademarks of Apple Inc. Android is a trademark of Google, Inc. mydlink Requirements D-Link DIR-850L User Manual 2 Section 1 - Product Overview Introduction Now you can monitor and manage your home network right from your laptop, iPhone®, iPad®, or Android™ device.

The cloudenabled router can be configured to send an email to keep you informed anywhere, anytime when new devices are connecting to your network or unwanted access is detected. Monitor in realtime websites that are being visited with recent browser history displayed on the mydlink™ Lite app – which is great for parents. The D-Link Cloud Service can detect and block unwelcomed guests who try to get into your wireless network and suspicious activities will be displayed right on your mydlink™ Lite app or browser. The D-Link DIR-850L is a IEEE 802.11ac compliant device that delivers up to 3 times faster speeds than 802.

11n while staying backward compatible with 802.11a/g/b devices. Connect the DIR-850L to a Cable or DSL modem and provide high-speed Internet access to multiple computers, game consoles, and media players. Create a secure wireless network to share photos, files, music, videos, printers, and network storage. Powered by the 802.

11ac technology and equipped with six internal antennas, this router provides superior wireless coverage for larger homes and offices, or for users running bandwidth-intensive applications. The DIR-850L also includes a 4-port 10/100/1000 Gigabit switch that connects Gigabit wired devices for enjoying lag-free network gaming and faster file transfers. D-Link has created SharePort™ technology to bring more flexibility to your network. With SharePort™ technology, you can connect a USB printer and share . The light will blink orange during boot up. A solid light indicates connection on the Internet port. If the LED is orange, the connection is good but the router cannot connect to the Internet. D-Link DIR-850L User Manual 6 Section 2 - Installation Installation This section will walk you through the installation process. Placement of the router is very important. Do not place the router in an enclosed area such as a closet, cabinet, or in the attic or garage.

Before you Begin • Please configure the router with the computer that was last connected directly to your modem. • You can only use the Ethernet port on your modem. If you were using the USB connection before using the router, then you must turn off your modem, disconnect the USB cable and connect an Ethernet cable to the Internet port on the router, and then turn the modem back on. In some cases, you may need to call your ISP to change connection types (USB to Ethernet). • If you have DSL and are connecting via PPPoE, make sure you disable Manual 10 Section 2 - Installation Configuration There are several different ways you can configure your router to connect to the Internet and connect to your clients: • D-Link Setup Wizard - This wizard will launch when you log into the router for the first time. Refer to page 14. • QRS Mobile App - Use your iPhone, iPad, or iPod Touch to configure your router. Refer to page 21 • Manual Setup - Log into the router and manually configure your router (advanced users only). Refer to page 27. D-Link DIR-850L User Manual 11 Section 3 - Configuration Quick Setup Wizard If this is your first time installing the router, open your web browser. You will automatically be directed to the Wizard Setup Screen. If not, enter "http://dlinkrouter.local". Then, press Enter. If you have already configured your settings and you would like to access the configuration utility, please refer to page 27.



[You're reading an excerpt. Click here to read official D-LINK DIR-850L user guide](http://yourpdfguides.com/dref/5434239)
<http://yourpdfguides.com/dref/5434239>

If this is your first time logging into the router, this wizard will start automatically. This wizard is designed to guide you through a step-by-step process to configure your new D-Link router and connect to the Internet. Click Next to continue. Please wait while your router detects your internet connection type. If the router detects your Internet connection, you may need to enter your ISP information such as username and password.

D-Link DIR-850L User Manual 12 Section 3 - Configuration If the router does not detect a valid Ethernet connection from the Internet port, this screen will appear. Connect your broadband modem to the Internet port and then click Try Again. If the router detects an Ethernet connection but does not detect the type of Internet connection you have, this screen will appear. Click Guide me through the Internet Connection Settings to display a list of connection types to choose from. Select your Internet connection type and click Next to continue. D-Link DIR-850L User Manual 13 Section 3 - Configuration If the router detected or you selected PPPoE, enter your PPPoE username and password and click Next to continue. Note: Make sure to remove your PPPoE software from your computer. The software is no longer needed and will not work through a router. If the router detected or you selected PPTP, enter your PPTP username, password, and other information supplied by your ISP. Click Next to continue.

If the router detected or you selected L2TP, enter your L2TP username, password, and other information supplied by your ISP. Click Next to continue. D-Link DIR-850L User Manual 14 Section 3 - Configuration If the router detected or you selected Static, enter the IP and DNS settings supplied by your ISP. Click Next to continue. For both the 2.4GHz and 5GHz segments, create a Wi-Fi network name (SSID) using up to 32 characters. Create a Wi-Fi password (between 8-63 characters). Your wireless clients will need to have this passphrase or key entered to be able to connect to your wireless network. Click Next to continue. In order to secure your router, please enter a new password.

Check the Enable Graphical Authentication box to enable CAPTCHA authentication for added security. Click Next to continue. D-Link DIR-850L User Manual 15 Section 3 - Configuration Select your time zone from the drop-down menu and click Next to continue. The Setup Complete window will display your Wi-Fi settings. Click Save and Connect to continue.

If you want to create a bookmark to the router, click OK. Click Cancel if you do not want to create a bookmark. If you clicked Yes, a window may appear (depending on what web browser you are using) to create a bookmark. D-Link DIR-850L User Manual 16 Section 3 - Configuration To use the mydlink service (mydlink.com or the mydlink Lite app), you must have an account.

Select if you do have a mydlink account or if you need to create one. Click Next to continue. If you do not want to register at this time, click Cancel. If you clicked Yes, enter your mydlink account name (email address) and password. Click Login to register your router. If you clicked No, fill out the requested information and click Sign Up to create your mydlink account. D-Link DIR-850L User Manual 17 Section 3 - Configuration The mydlink App will allow you to receive notices, browse network users, and configure your router from an iPhone/iPad/iPod Touch (iOS 3.0 or higher), Android device (1.6 or higher). To download the "mydlink lite" app, visit the Apple Store, Android Market or <http://mydlink.com/Lite>.

PC and Mac users can use the mydlink portal at <http://mydlink.com>. D-Link DIR-850L User Manual 18 Section 3 - Configuration QRS Mobile App D-Link offers an app for your iPad, iPod Touch, or iPhone (iOS 4.3 or higher) to install and configure your router. Step 1 From your iPad, Touch, or iPhone, go to the iTunes Store and search for 'D-Link'. Select QRS Mobile and then download it. You may also scan this code to download. Step 2 Once your app is installed, you may now configure your router. Connect to the router wirelessly by going to your wireless utility on your device.

Scan for the Wi-Fi name (SSID) as listed on the supplied info card. Select and then enter your Wi-Fi password. Step 3 Once you connect to the router, launch the QRS mobile app and it will guide you through the installation of your router. D-Link DIR-850L User Manual 19 Section 3 - Configuration Introduction D-Link® SharePort™ Plus The D-Link SharePort™ Plus technology will allow you to connect a multi-function printer (MFP), scanner, or USB storage device to your SharePort™ Plus enabled device and share the device with multiple computers*. Only these devices will be supported.

SharePort™ Plus enabled devices will allow multiple users to simultaneously connect to and share a USB disk drive. Install the SharePort™ Plus Utility on the computer or computers that you would like to use the USB device(s) with. Remember that the computer(s) will also need the device drivers for the USB devices connected to the router. * For devices other than USB storage, only one user can be connected to a USB device at a time. SharePort™ Plus has a printer autoconnect function to make sharing printers easy among multiple users as well as other features for sharing devices.

How to setup and use this function. Please refer to the content of CD "SharePort plus manual" and install SharePort plus utility. D-Link DIR-850L User Manual 20 Section 3 - Configuration SharePort Mobile App The SharePort Mobile app will allow you to access files from a USB thumb drive that is plugged into your router. You must enable file sharing from the Setup > Storage page (refer to page 68) for this app to work properly. 1. Insert your USB flash drive into DIR-850L. 2. Scan the bar code to download the SharePort Mobile APP from the app store to your iPhone or iPad. 3. From your iOS mobile device, click Settings.

Settings D-Link DIR-850L User Manual 21 Section 3 - Configuration 4. Click Wi-Fi, select the Wi-Fi Network Name (SSID) that you created in the setup and then enter your Wi-Fi password. 5. Once connected, click on the SharePort Mobile icon. 6. The following screen will appear. D-Link DIR-850L User Manual 22 Section 3 - Configuration 7. Click on Settings icon located on the right top corner of the screen. Click Edit to enter your User Name and Password. Once you finish, click Done to continue.

8. For the Movie section, click the movie icon to play your movie from your USB flash drive. 9. For the Music section, click the music icon to play your music from your USB flash drive. D-Link DIR-850L User Manual 23 Section 3 - Configuration 10.

For the Photo section, click the Photo icon to view your photos from your USB flash drive. 11. For the Files section, click on the Files icon to view your files from your USB flash drive. 12. For the Folder section, click the folder icon to view your folders from your USB flash drive.



You're reading an excerpt. Click here to read official D-LINK DIR-850L user guide
<http://yourpdfguides.com/dref/5434239>

D-Link DIR-850L User Manual 24 Section 3 - Configuration Web-based Configuration Utility To access the configuration utility, open a web-browser such as Internet Explorer and enter address of the router (http://dlinkrouter.local or http://192.168.0.1). Non-Windows and Non-Mac users may also connect by typing http://192.168.0.1 in the address bar. Leave the password blank by default.

D-Link DIR-850L User Manual 25 Section 3 - Configuration Internet Connection Setup Click Manual Internet Connection Setup to configure your connection manually and continue to the next page. If you want to configure your router to connect to the Internet using the wizard, click Internet Connection Setup Wizard. You will be directed to the Quick Setup Wizard. D-Link DIR-850L User Manual 26 Internet Connection Setup Wizard When configuring the router for the first time, we recommend that you click use the Internet Connection Setup Wizard, and follow the instructions on the screen. This wizard is designed to assist user with a quick and easy method to configure the Internet Connectivity of this router. Anytime during the Internet Connection Setup Wizard, the user can click on the Cancel button to discard any changes made and return to the main Internet page. Also the user can click on the Prev button, to return to the previous window for reconfiguration. Welcome: This wizard will guide you through a step-by-step process to configure your new D-Link router and connect to the Internet. Click Next to continue. Step 1: Set Your Password By default, the D-Link Router does not have a password configured for administrator access to the Web-based configuration pages.

To secure your new networking device, please enter and verify a password in the spaces provided. The two passwords must match. Click Next to continue. D-Link DIR-850L User Manual 27 Step 2: Select Your Time Zone Select the appropriate time zone for your location. This information is required to configure the time-based options for the router.

Click Next to continue. Step 3: Internet Connection Here the user will be able to configure the Internet Connectivity used by this device. If your ISP connection is listed in the drop-down menu select it and click Next. If your ISP connection is not listed then you can proceed to select any of the other manual Internet Connection methods listed below. The following parameters will be available for configuration: Dynamic IP Address: Choose this if your Internet connection automatically provides you with an IP Address.

Most Cable Modems use this type of connection. PPPoE: Choose this option if your Internet connection requires a PPPoE username and password to get online. Most DSL modems use this type of connection. PPTP: Choose this option if your Internet connection requires a PPTP username and password to get online. L2TP: Choose this option if your Internet connection requires an L2TP username and password to get online. Static IP Address: Choose this option if your Internet Setup Provider provided you with IP Address information that has to be manually configured. D-Link DIR-850L User Manual 28 Step 3: Internet Connection (Dynamic IP Address) After selecting the Dynamic IP Address Internet connection method, the following page will appear. The following parameters will be available for configuration: MAC Address: Enter the MAC address of the Internet gateway (plugged into the Internet port of this device) here. Clone Button: If the configuration PC also acts as the Internet gateway, then click on the Clone Your PC's MAC Address button to copy the PC's MAC address into the space provided. If you're not sure, leave the MAC Address field blank.

Host Name: Enter the host name used here. You may also need to provide a Host Name. If you do not have or know this information, please contact your ISP. Primary DNS Address: Enter the Primary DNS IP address used here. Secondary DNS Address: Enter the Secondary DNS IP address used here. This field is normally optional. Only one DNS address is required for a functional Internet connection, but using a second DNS address provides more stability. Click Next to continue. Step 3: Internet Connection (PPPoE) After selecting the PPPoE Internet connection method, the following page will appear: The following parameters will be available for configuration: User Name: Enter the PPPoE account user name used here. This information is given by the ISP.

Password: Enter the PPPoE account password used here. This information is given by the ISP. Click Next to continue. D-Link DIR-850L User Manual 29 Step 3: Internet Connection (PPTP) After selecting the PPTP Internet connection method, the following page will appear: The following parameters will be available for configuration: Address Mode: Here the user can specify whether this Internet connection requires the use of a Dynamic or Static IP address. PPTP usual requires a Dynamic IP configuration.

PPTP IP Address: Enter the PPTP IP address used here. This option is only available if Static IP is selected. PPTP Subnet Mask: Enter the PPTP Subnet Mask used here. PPTP Gateway IP Address: Enter the PPTP Gateway IP address used here. PPTP Server IP Address: Enter the PPTP Server IP address used here.

This is normally the same as the PPTP Gateway IP address. User Name: Enter the PPTP username used here. Password: Enter the PPTP password used here. Verify Password: Re-enter the PPTP password used here. Primary DNS Address: Enter the Primary DNS IP address used here. Secondary DNS Address: Enter the Secondary DNS IP address used here. This field is normally optional. Only one DNS address is required for a functional Internet connection, but using a second DNS address provides more stability. Click Next to continue. D-Link DIR-850L User Manual 30 Step 3: Internet Connection (L2TP) After selecting the L2TP Internet connection method, the following page will appear: The following parameters will be available for configuration: Address Mode: Here the user can specify whether this Internet connection requires the use of a Dynamic or Static IP address.

L2TP usual requires a Dynamic IP configuration. L2TP IP Address: Enter the L2TP IP address used here. This option is only available if Static IP is selected. L2TP Subnet Mask: Enter the L2TP Subnet Mask used here. L2TP Gateway IP Address: Enter the L2TP Gateway IP address used here. L2TP Server IP Address: Enter the L2TP Server IP address used here. This is normally the same as the L2TP Gateway IP address. User Name: Enter the L2TP username used here. Password: Enter the L2TP password used here. Verify Password: Re-enter the L2TP password used here.

Primary DNS Address: Enter the Primary DNS IP address used here. Secondary DNS Address: Enter the Secondary DNS IP address used here. This field is normally optional. Only one DNS address is required for a functional Internet connection, but using a second DNS address provides more stability. Click Next to continue.

D-Link DIR-850L User Manual 31 Step 3: Internet Connection (Static IP Address) After selecting the Static IP Address Internet connection method, the following page will appear: The following parameters will be available for configuration: IP Address: Enter the Static IP address provided by the ISP here.



[You're reading an excerpt. Click here to read official D-LINK](http://yourpdfguides.com/dref/5434239)

[DIR-850L user guide](http://yourpdfguides.com/dref/5434239)

<http://yourpdfguides.com/dref/5434239>

Subnet Mask: Enter the Subnet Mask provided by the ISP here. Gateway Address: Enter the Gateway IP address provided by the ISP here. Primary DNS Address: Enter the Primary DNS IP address used here. Secondary DNS Address: Enter the Secondary DNS IP address used here.

This field is normally optional. Only one DNS address is required for a functional Internet connection, but using a second DNS address provides more stability. Click Next to continue. Setup Complete! This is the last page of the Internet Connection Setup Wizard. Click the Connect button to save your settings. D-Link DIR-850L User Manual 32 Internet (Manual) On this page the user can configure the Internet Connection settings manually. To access the Manual Internet Connection Setup page, click on the Manual Internet Connection Setup button. On this page there are multiple parameters that can be configured regarding the Internet Connection setup. We'll discuss them from top to bottom. At any given point the user can save the configuration done, on this page, by clicking on the Save Settings button.

If you choose to discard the changes made, click on the Don't Save Settings button. D-Link DIR-850L User Manual 33 Internet Connection Type In this section, the user can select from a list of Internet Connection types that can be configured and used on this router. Options to choose from are Static IP, Dynamic IP, PPPoE, PPTP, L2TP, and DS-Lite. After selecting a specific Internet Connection type, this page will automatically refresh and provide unique fields to configure related to the specified Internet Connection type. My Internet Connection is: Dynamic IP (DHCP) The default WAN configuration for this router is Dynamic IP (DHCP). This option allows the router to obtain an IP address automatically from the device that is connected to the Internet port. Note: If you're not sure about the type of Internet Connection you have, please contact your Internet Service Provider (ISP) for assistance. After selecting Dynamic IP, the following parameters will be available for configuration: Host Name: The Host Name is optional but may be required by some ISPs. Leave blank if you are not sure. Use Unicasting: Tick this option if your ISP uses the unicast method to provide IP addresses.

Primary DNS: Enter the Primary DNS IP address used here. Secondary DNS: Enter the Secondary DNS IP address used here. This field is normally optional. Only one DNS address is required for a functional Internet connection, but using a second DNS address provides more stability. @1500 is the default MTU.

MAC Address: The default MAC Address is set to the Internet port's physical interface MAC address on the Broadband Router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the Clone Your PC's MAC Address button to replace the Internet port's MAC address with the MAC address of your Ethernet card. D-Link DIR-850L User Manual 34 Section 3 - Configuration Manual Internet Setup Static (assigned by ISP) Select Static IP Address if all the Internet port's IP information is provided to you by your ISP. You will need to enter in the IP address, subnet mask, gateway address, and DNS address(es) provided to you by your ISP.

Each IP address entered in the fields must be in the appropriate IP form, which are four octets separated by a dot (x.x.x.x). The Router will not accept the IP address if it is not in this format. My Internet Connection: Select Static IP to manually enter the IP settings supplied by your ISP. IP Address: Enter the IP address assigned by your ISP. Subnet Mask: Enter the Subnet Mask assigned by your ISP. Default Gateway: Enter the Gateway assigned by your ISP. DNS Servers: The DNS server information will be supplied by your ISP (Internet Service Provider).

@1500 is the default MTU. MAC Address: The default MAC Address is set to the Internet port's physical interface MAC address on the Broadband Router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the Copy Your PC's MAC Address button to replace the Internet port's MAC address with the MAC address of your Ethernet card. D-Link DIR-850L User Manual 35 Section 3 - Configuration Internet Setup PPPoE (DSL) Choose PPPoE (Point to Point Protocol over Ethernet) if your ISP uses a PPPoE connection. Your ISP will provide you with a username and password. This option is typically used for DSL services. Make sure to remove your PPPoE software from your computer. The software is no longer needed and will not work through a router. My Internet Connection: Select PPPoE (Username/Password) from the drop-down menu.

Address Mode: Here the user can specify whether this Internet connection requires the use of a Dynamic or Static IP address. PPPoE usually requires a Dynamic IP configuration. IP Address: Enter the PPPoE IP address used here. This option is only available if Static IP is selected. Username: Enter the PPPoE account user name used here.

This information is given by the ISP. Password: Enter the PPPoE account password used here. This information is given by the ISP. Verify Password: Re-enter the PPPoE account password used here. Service Name: This optional field enables the user to enter a service name to identify this Internet connection here.

Reconnect Mode: Use the radio buttons to specify the reconnect mode. The user can specify a custom schedule or specify the On Demand, or Manual option. To specify a custom schedule, use the dropdown menu to select one of the schedules that has been defined in the Schedules page. To create a new schedule, click the New Schedule button to open the Schedules page. Schedules will be discussed later. D-Link DIR-850L User Manual 36 Section 3 - Configuration

@DNS Mode: This option allows the router to obtain the DNS IP addresses from the ISP, when Receive DNS from ISP is selected, or allows the user to enter DNS IP address manually, when Enter DNS Manually is selected. Primary DNS Server: Enter the Primary DNS IP address used here. Secondary DNS Server: Enter the Secondary DNS IP address used here. This field is normally optional. Only one DNS address is required for a functional Internet connection, but using a second DNS address provides more stability.

@1492 is the default MTU. MAC Address: The default MAC Address is set to the Internet port's physical interface MAC address on the Broadband Router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the Clone Your PC's MAC Address button to replace the Internet port's MAC address with the MAC address of your Ethernet card. D-Link DIR-850L User Manual 37 Section 3 - Configuration Internet Setup PPTP Choose PPTP (Point-to-Point-Tunneling Protocol) if your ISP uses a PPTP connection. Your ISP will provide you with a username and password. This option is typically used for DSL services. My Internet Connection: Select PPTP (Username/Password) from the dropdown menu.



[You're reading an excerpt. Click here to read official D-LINK](http://yourpdfguides.com/dref/5434239)

[DIR-850L user guide](http://yourpdfguides.com/dref/5434239)

<http://yourpdfguides.com/dref/5434239>

Address Mode: Here the user can specify whether this Internet connection requires the use of a Dynamic or Static IP address. PPTP usually requires a Dynamic IP configuration.

PPTP IP Address: Enter the PPTP IP address used here. This option is only available if Static IP is selected. PPTP Subnet Mask: Enter the PPTP Subnet Mask used here. PPTP Gateway IP Address: Enter the PPTP Gateway IP address used here. PPTP Server IP Address: Enter the PPTP Server IP address used here.

This is normally the same as the PPTP Gateway IP address. Username: Enter the PPTP username used here. Password: Enter the PPTP password used here. Verify Password: Re-enter the PPTP password used here. Reconnect Mode: Use the radio buttons to specify the reconnect mode.

The user can specify a custom schedule or specify the On Demand, or Manual option. To specify a custom schedule, use the drop-down menu to select one of the schedules that has been defined in the Schedules page. To create a new schedule, click the New Schedule button to open the Schedules page. Schedules will be discussed later. @@To disable this feature, enable Auto-reconnect. D-Link DIR-850L User Manual 38 Section 3 - Configuration Primary DNS Server: Enter the Primary DNS IP address used here. Secondary DNS Server: Enter the Secondary DNS IP address used here. This field is normally optional. Only one DNS address is required for a functional Internet connection, but using a second DNS address provides more stability. @@1400 is the default MTU.

MAC Address: The default MAC Address is set to the Internet port's physical interface MAC address on the Broadband Router. It is not recommended that you change the default MAC address unless required by your ISP. You can use the Clone Your PC's MAC Address button to replace the Internet port's MAC address with the MAC address of your Ethernet card. D-Link DIR-850L User Manual 39 Section 3 - Configuration Internet Setup L2TP Choose L2TP (Layer 2 Tunneling Protocol) if your ISP uses a L2TP connection. Your ISP will provide you with a username and password. This option is typically used for DSL services. My Internet Select L2TP (Username/Password) from the dropConnection: down menu. Address Mode: Here the user can specify whether this Internet connection requires the use of a Dynamic or Static IP address. L2TP usual requires a Dynamic IP configuration. L2TP IP Address: Enter the L2TP IP address used here.

This option is only available if Static IP is selected. L2TP Subnet Mask: Enter the L2TP Subnet Mask used here. L2TP Gateway IP Enter the L2TP Gateway IP address used here. Address: L2TP Server IP Enter the L2TP Server IP address used here. This is Address: normally the same as the L2TP Gateway IP address.

Username: Enter the L2TP username used here. Password: Enter the L2TP password used here. Verify Password: Re-enter the L2TP password used here. Reconnect Mode: Use the radio buttons to specify the reconnect mode. The user can specify a custom schedule or specify the On Demand, or Manual option. To specify a custom schedule, use the drop-down menu to select one of the schedules that has been defined in the Schedules page. To create a new schedule, click the New Schedule button to open the Schedules page. Schedules will be discussed later. D-Link DIR-850L User Manual 40 Section 3 - Configuration @@To disable this feature, enable Auto-reconnect. Primary DNS Server: Enter the Primary DNS IP address used here. Secondary DNS Server: Enter the Secondary DNS IP address used here. This field is normally optional. Only one DNS address is required for a functional Internet connection, but using a second DNS address provides more stability. @@1400 is the default MTU. MAC Address: The default MAC Address is set to the Internet port's physical interface MAC address on the Broadband Router.

It is not recommended that you change the default MAC address unless required by your ISP. You can use the Clone Your PC's MAC Address button to replace the Internet port's MAC address with the MAC address of your Ethernet card. D-Link DIR-850L User Manual 41 Section 3 - Configuration Internet Setup DS-Lite Another Internet Connection type is DS-Lite. DS-Lite is an IPv6 connection type. After selecting DS-Lite, the following parameters will be available for configuration: DS-Lite Configuration: Select the DS-Lite DHCPv6 Option to let the router allocate the AFTR IPv6 address automatically. Select the Manual Configuration to enter the AFTR IPv6 address in manually. AFTR IPv6 Address: After selecting the Manual Configuration option above, the user can enter the AFTR IPv6 address used here. B4 IPv4 Address: Enter the B4 IPv4 address value used here. WAN IPv6 Address: Once connected, the WAN IPv6 address will be displayed here. IPv6 WAN Default Gateway Once connected, the IPv6 WAN Default Gateway address will be displayed here.

Click on the Save Settings button to accept the changes made. Click on the Don't Save Settings button to discard the changes made. D-Link DIR-850L User Manual 42 Wireless connection setup wizard On this page the user can configure the Wireless settings for this device. There are 3 ways to configure Wireless using this router. Firstly, the user can choose to make use for the quick and easy Wireless Connection Setup Wizard.

Secondly, the user can choose to make use Wi-Fi Protected Setup. Lastly, the user can configure the Wireless settings manually. Wireless Settings: Wireless Connection Setup Wizard The Wireless Connection Setup Wizard is specially designed to assist basic network users with a simple, step-by-step set of instructions to configure the wireless settings of this router. It is highly recommended to customized the wireless network settings to fit into your environment and to add higher security. To initiate the Wireless Connection Setup Wizard click on the Wireless Connection Setup Wizard button.

Step 1: In this step, the user must enter a custom Wireless Network Name or SSID. Enter the new Network Name (SSID) in the appropriate space provided. There are separate spaces provided for a 2.4GHz Network Name and a 5GHz Network Name. Secondly the user can choose between two wireless security wizard configurations. The user can select 'Automatically assign a network key', by which the router will automatically generate a WPA/WPA2 pre-shared key using the TKIP and AES encryption methods; or the user can select 'Manually assign a network key', by which the user will be prompt to manually enter a WPA/WPA2 pre-shared key using the TKIP and AES encryption methods. Click on the Prev button to return to the previous page. Click on the Next button to continue to the next page. Click on the Cancel button to discard the changes made and return to the main wireless page. D-Link DIR-850L User Manual 43 Step 2: This step will only be available if the user selected 'Manually assign a network key' in the previous step.

Here the user can manually enter the WPA/WPA2 pre-shared key in the Wireless Security Password space provided.



[You're reading an excerpt. Click here to read official D-LINK DIR-850L user guide](http://yourpdfguides.com/dref/5434239)
<http://yourpdfguides.com/dref/5434239>

The key entered must be between 8 and 63 characters long. Remember, this key will be used when wireless clients want to connect to this device. So please remember this key to prevent future troubleshooting. If you want to use the same Wireless Security Password for both 2.4GHz and 5GHz bands, tick the option provided. If not selected, you need to input two separate Wireless Security Passwords for each individual Wireless band. Click on the Prev button to return to the previous page. Click on the Next button to continue to the next page. Click on the Cancel button to discard the changes made and return to the main wireless page.

Setup Complete: On this page the user can view the configuration made and verify whether they are correct. Click on the Prev button to return to the previous page. Click on the Cancel button to discard the changes made and return to the main wireless page. Click on the Save button to accept the changes made. D-Link DIR-850L User Manual 44 After click the Save button the device will save the settings made and return to the main wireless page.

End of Wizard. D-Link DIR-850L User Manual 45 Wi-Fi Protected Setup Wizard Wireless Settings: Wi-Fi Protected Setup Wizard If your Wireless Clients support the WPS connection method, this Wi-Fi Protected Setup Wizard can be used to initiate a wireless connection between this device and Wireless clients with a simple click of the WPS button. The Wi-Fi Protected Setup Wizard is specially designed to assist basic network users with a simple, step-by-step set of instructions to connect wireless clients to this router using the WPS method. To initiate the Wi-Fi Protected Setup Wizard click on the Add Wireless Device with WPS button. Step 1: In this step the user have two options to choose from.

You can choose Auto if the wireless client supports WPS, or Manual if the wireless client does not support WPS. Click on the Prev button to return to the previous page. Click on the Next button to continue to the next page. Click on the Cancel button to discard the changes made and return to the main wireless page. Step 2: After selecting Auto, the following page will appear. There are two ways to add a wireless device, that supports WPS. Firstly, there is the Personal Identification Number (PIN) method. Using this method will prompt the user to enter a PIN code. This PIN code should be identical on the wireless client. Secondly, there is the Push Button Configuration (PBC) method.

Using this method will allow the wireless client to connect to this device by similarly pressing the PBC button on it. Click on the Prev button to return to the previous page. Click on the Next button to continue to the next page. Click on the Cancel button to discard the changes made and return to the main wireless page. D-Link DIR-850L User Manual 46 Step 2: After selecting Manual, the following page will appear. On this page the user can view the wireless configuration of this router. The wireless clients should configure their wireless settings to be identical to the settings displayed on this page for a successful connection. This option is for wireless clients that can't use the WPS method to connect to this device. Click on the Prev button to return to the previous page. Click on the Next button to continue to the next page.

Click on the Cancel button to discard the changes made and return to the main wireless page. Click on the Wireless Status button to navigate to the Status > Wireless page to view what wireless client are connected to this device. End of Wizard. Manual wireless network setup Wireless Settings: Manual Wireless Network Setup The manual wireless network setup option allows users to configure the wireless settings of this device manually. This option is for the more advanced user and includes all parameters that can be configured for wireless connectivity.

To initiate the Manual Wireless Setup page, click on the Manual Wireless Connection Setup button. On this page the user can configure all the parameters related to the wireless connectivity of this router. D-Link DIR-850L User Manual 47 The following parameters will be available for configuration: Wireless Band: Displays the wireless band being configured. In this option we find that the following parameters will be regarding the 2.4GHz band.

Enable Wireless: Check the box to enable the wireless function. If you do not want to use wireless, uncheck the box to disable all the wireless functions. Select the time frame that you would like your wireless network enabled. The schedule may be set to Always. Any schedule you create will be available in the drop-down menu. Click New Schedule to create a new schedule. Wireless Network Name: The Service Set Identifier (SSID) is the name of your wireless network. Create a name using up to 32 characters. The SSID is case-sensitive. Enable Auto Channel 802.

11 Mode: Here the user can manually select the preferred frequency band to use for this wireless network. Enable Auto Channel Scan: The auto channel selection setting can be selected to allow this device to choose the channel with the least amount of interference. Wireless Channel: By default the channel is set to 1. The Channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network. If you enable Auto Channel Selection, this option will be greyed out. Transmission Rate: Select the transmit rate. It is strongly suggested to select Best (Automatic) for best performance. Channel Width: When using the 802.11n frequency band, the user have an option to choose between a 20MHz or 20/40MHz bandwidth. Visibility Status: The Invisible option allows you to hide your wireless network.

When this option is set to Visible, your wireless network name is broadcasted to anyone within the range of your signal. If you are not using encryption then they could connect to your network. When Invisible mode is enabled, you must enter the Wireless Network Name (SSID) on the client manually to connect to the network. D-Link DIR-850L User Manual 48 By default the wireless security of this router will be disabled. In this next option the user can enable or disable wireless security for the frequency band 2.

4GHz. There are two types of encryption that can be used. WEP or WPA/WPA2. Wireless Security Mode: WEP Wired Equivalent Privacy (WEP) is the most basic form of encryption that can be used for wireless networks. Even though it is known as a 'weak' security method, it is better than no security at all. Older wireless adapter sometimes only supports WEP encryption and thus we still find this encryption method used today. The following parameters will be available for configuration: WEP Key Length: Here the user can specify to either use a 64Bit or a 128Bit encrypted key. Authentication: Authentication is a process by which the router verifies the identity of a network device that is attempting to join the wireless network. There are two types authentication for this device when using WEP. Open System allows all wireless devices to communicate with the router before they are required to provide the encryption key needed to gain access to the network.



[You're reading an excerpt. Click here to read official D-LINK](http://yourpdfguides.com/dref/5434239)

[DIR-850L user guide](http://yourpdfguides.com/dref/5434239)

<http://yourpdfguides.com/dref/5434239>

Shared Key requires any wireless device attempting to communicate with the router to provide the encryption key needed to access the network before they are allowed to communicate with the router. WEP Key 1: Enter the WEP key used here. For 64-bit keys you must enter 10 hex digits into each key box. For 128-bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 to 9 or a letter from A to F.

You may also enter any text string into a WEP key box, in which case it will be converted into a hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64-bit keys, and a maximum of 13 characters for 128-bit keys. D-Link DIR-850L User Manual 49 Wireless Security Mode: WPA-Personal Wi-Fi Protected Access (WPA) is the most advanced and up to date wireless encryption method used today. This is the recommended wireless security option. WPA supports two authentication frameworks. Personal (PSK) and Enterprise (EAP). Personal requires only the use of a passphrase (Shared Secret) for security. The following parameters will be available for configuration: WPA Mode: WPA is the older standard; select this option if the clients that will be used with the router only support the older standard. WPA2 is the newer implementation of the stronger IEEE 802.11i security standard.

With the "WPA2" option, the router tries WPA2 first, but falls back to WPA if the client only supports WPA. With the "WPA2 Only" option, the router associates only with clients that also support WPA2 security. Cipher Type: Select the appropriate cipher type to use here. Options to choose from are Temporal Key Integrity Protocol (TKIP), Advanced Encryption Standard (AES), and Both (TKIP and AES). Group Key Update Interval: Enter the amount of time before the group key used for broadcast and multicast data is changed.

Pre-Shared Key: Enter the shared secret used here. This secret phrase needs to be the same on all of the wireless clients for them to be able to connect to the wireless network successfully. D-Link DIR-850L User Manual 50 Wireless Security Mode: WPA-Personal Wi-Fi Protected Access (WPA) is the most advanced and up to date wireless encryption method used today. This is the recommended wireless security option. WPA supports two authentication frameworks.

Personal (PSK) and Enterprise (EAP). Personal requires only the use of a passphrase (Shared Secret) for security. The following parameters will be available for configuration: WPA Mode: WPA is the older standard; select this option if the clients that will be used with the router only support the older standard.

WPA2 is the newer implementation of the stronger IEEE 802.11i security standard. With the "WPA2" option, the router tries WPA2 first, but falls back to WPA if the client only supports WPA. With the "WPA2 Only" option, the router associates only with clients that also support WPA2 security. Cipher Type: Select the appropriate cipher type to use here. Options to choose from are Temporal Key Integrity Protocol (TKIP), Advanced Encryption Standard (AES), and Both (TKIP and AES). Group Key Update Interval: Enter the amount of time before the group key used for broadcast and multicast data is changed.

RADIUS Server IP Address: When the user chooses to use the EAP authentication framework, the RADIUS server's IP address can be entered here. RADIUS Server Port: When the user chooses to use the EAP authentication framework, the RADIUS server's port number can be entered here. RADIUS Server Shared Secret: Enter the shared secret used here. This secret phrase needs to be the same on all of the wireless clients for them to be able to connect to the wireless network successfully. D-Link DIR-850L User Manual 51 The following parameters will be available for configuration: Wireless Band: Displays the wireless band being configured. In this option we find that the following parameters will be regarding the 5GHz band. Enable Wireless: Check the box to enable the wireless function. If you do not want to use wireless, uncheck the box to disable all the wireless functions. Select the time frame that you would like your wireless network enabled. The schedule may be set to Always.

Any schedule you create will be available in the drop-down menu. Click New Schedule to create a new schedule. Wireless Network Name: The Service Set Identifier (SSID) is the name of your wireless network. Create a name using up to 32 characters. The SSID is case-sensitive.

Enable Auto Channel 802.11 Mode: Here the user can manually select the preferred frequency band to use for this wireless network. Enable Auto Channel Scan: The auto channel selection setting can be selected to allow this device to choose the channel with the least amount of interference. Wireless Channel: By default the channel is set to 36. The Channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network.

If you enable Auto Channel Selection, this option will be greyed out. Transmission Rate: Select the transmit rate. It is strongly suggested to select Best (Automatic) for best performance. Channel Width: When using the 802.11n frequency band, the user have an option to choose between a 20 MHz, 20/40 MHz, or 20/40/80 MHz bandwidth. Visibility Status: The Invisible option allows you to hide your wireless network. When this option is set to Visible, your wireless network name is broadcasted to anyone within the range of your signal. If you are not using encryption then they could connect to your network. When Invisible mode is enabled, you must enter the Wireless Network Name (SSID) on the client manually to connect to the network. D-Link DIR-850L User Manual 52 By default the wireless security of this router will be disabled.

In this next option the user can enable or disable wireless security for the frequency band 2.4GHz. There are two types of encryption that can be used. WEP or WPA/WPA2. Wireless Security Mode: WEP Wired Equivalent Privacy (WEP) is the most basic form of encryption that can be used for wireless networks. Even though it is known as a 'weak' security method, it is better than no security at all. Older wireless adapter sometimes only supports WEP encryption and thus we still find this encryption method used today. The following parameters will be available for configuration: WEP Key Length: Here the user can specify to either use a 64Bit or a 128Bit encrypted key. Authentication: Authentication is a process by which the router verifies the identity of a network device that is attempting to join the wireless network. There are two types authentication for this device when using WEP.

Open System allows all wireless devices to communicate with the router before they are required to provide the encryption key needed to gain access to the network. Shared Key requires any wireless device attempting to communicate with the router to provide the encryption key needed to access the network before they are allowed to communicate with the router.



[You're reading an excerpt. Click here to read official D-LINK DIR-850L user guide](http://yourpdfguides.com/dref/5434239)
<http://yourpdfguides.com/dref/5434239>

WEP Key 1: Enter the WEP key used here. For 64-bit keys you must enter 10 hex digits into each key box. For 128-bit keys you must enter 26 hex digits into each key box.

A hex digit is either a number from 0 to 9 or a letter from A to F. You may also enter any text string into a WEP key box, in which case it will be converted into a hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64-bit keys, and a maximum of 13 characters for 128-bit keys. D-Link DIR-850L User Manual 53 Wireless Security Mode: WPA-Personal Wi-Fi Protected Access (WPA) is the most advanced and up to date wireless encryption method used today. This is the recommended wireless security option.

WPA supports two authentication frameworks. Personal (PSK) and Enterprise (EAP). The following parameters will be available for configuration: WPA Mode: WPA is the older standard; select this option if the clients that will be used with the router only support the older standard. WPA2 is the newer implementation of the stronger IEEE 802.11i security standard. With the "WPA2" option, the router tries WPA2 first, but falls back to WPA if the client only supports WPA. With the "WPA2 Only" option, the router associates only with clients that also support WPA2 security. Cipher Type: Select the appropriate cipher type to use here. Options to choose from are Temporal Key Integrity Protocol (TKIP), Advanced Encryption Standard (AES), and Both (TKIP and AES). Group Key Update Interval: Enter the amount of time before the group key used for broadcast and multicast data is changed.

Pre-Shared Key: Enter the shared secret used here. This secret phrase needs to be the same on all of the wireless clients for them to be able to connect to the wireless network successfully. D-Link DIR-850L User Manual 54 Wireless Security Mode: WPA-Enterprise Wi-Fi Protected Access (WPA) is the most advanced and up to date wireless encryption method used today. This is the recommended wireless security option. WPA supports two authentication frameworks. Personal (PSK) and Enterprise (EAP). The following parameters will be available for configuration: WPA Mode: WPA is the older standard; select this option if the clients that will be used with the router only support the older standard. WPA2 is the newer implementation of the stronger IEEE 802.11i security standard. With the "WPA2" option, the router tries WPA2 first, but falls back to WPA if the client only supports WPA.

With the "WPA2 Only" option, the router associates only with clients that also support WPA2 security. Cipher Type: Select the appropriate cipher type to use here. Options to choose from are Temporal Key Integrity Protocol (TKIP), Advanced Encryption Standard (AES), and Both (TKIP and AES). Group Key Update Interval: Enter the amount of time before the group key used for broadcast and multicast data is changed. RADIUS Server IP Address: When the user chooses to use the EAP authentication framework, the RADIUS server's IP address can be entered here.

RADIUS Server Port: When the user chooses to use the EAP authentication framework, the RADIUS server's port number can be entered here. RADIUS Server Shared Secret: Enter the shared secret used here. This secret phrase needs to be the same on all of the wireless clients for them to be able to connect to the wireless network successfully. D-Link DIR-850L User Manual 55 Wireless Security Mode: Enable WEP Wireless Security (basic) Wired Equivalent Privacy (WEP) is the most basic form of encryption that can be used for wireless networks. Even though it is known as a 'weak' security method, it is better than no security at all.

Older wireless adapter sometimes only supports WEP encryption and thus we still find this encryption method used today. The following parameters will be available for configuration: Authentication: Authentication is a process by which the router verifies the identity of a network device that is attempting to join the wireless network. There are two types authentication for this device when using WEP. Open System allows all wireless devices to communicate with the router before they are required to provide the encryption key needed to gain access to the network. Shared Key requires any wireless device attempting to communicate with the router to provide the encryption key needed to access the network before they are allowed to communicate with the router. WEP Encryption: Here the user can specify to either use a 64Bit or a 128Bit encrypted key. Default WEP Key: Select the default WEP key number that will be used for the encryption. WEP Key: Enter the WEP key used here. For 64-bit keys you must enter 10 hex digits into each key box. For 128-bit keys you must enter 26 hex digits into each key box.

A hex digit is either a number from 0 to 9 or a letter from A to F. You may also enter any text string into a WEP key box, in which case it will be converted into a hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64-bit keys, and a maximum of 13 characters for 128-bit keys. D-Link DIR-850L User Manual 56 Wireless Security Mode: Enable WPA/WPA2 Wireless Security (enhanced) Wi-Fi Protected Access (WPA) is a more advanced and up to date wireless encryption method used today. This is the recommended wireless security option. The following parameters will be available for configuration: Cipher Type: Select the appropriate cipher type to use here. Options to choose from are Temporal Key Integrity Protocol (TKIP), Advanced Encryption Standard (AES), and Both (Auto TKIP and AES). Network Key: Enter the shared secret used here. This secret phrase needs to be the same on all of the wireless clients for them to be able to connect to the wireless network successfully. Click on the Save Settings button to accept the changes made.

Click on the Don't Save Settings button to discard the changes made. D-Link DIR-850L User Manual 57 Section 4 - Security Wireless Security This section will show you the different levels of security you can use to protect your data from intruders. The DIR-850L offers the following types of security: • WPA2 (Wi-Fi Protected Access 2) • WPA (Wi-Fi Protected Access) • WPA2-PSK (Pre-Shared Key) • WPA-PSK (Pre-Shared Key) What is WPA? WPA (Wi-Fi Protected Access), is a Wi-Fi standard that was designed to improve the security features of WEP (Wired Equivalent Privacy). The 2 major improvements over WEP: • Improved data encryption through the Temporal Key Integrity Protocol (TKIP). TKIP scrambles the keys using a hashing algorithm and, by adding an integrity-checking feature, ensures that the keys haven't been tampered with.

WPA2 is based on 802.11i and uses Advanced Encryption Standard (AES) instead of TKIP. • User authentication, which is generally missing in WEP, through the extensible authentication protocol (EAP). WEP regulates access to a wireless network based on a computer's hardware-specific MAC address, which is relatively simple to be sniffed out and stolen.



[You're reading an excerpt. Click here to read official D-LINK DIR-850L user guide](http://yourpdfguides.com/dref/5434239)

<http://yourpdfguides.com/dref/5434239>

EAP is built on a more secure public-key encryption system to ensure that only authorized network users can access the network.

WPA-PSK/WPA2-PSK uses a passphrase or key to authenticate your wireless connection. The key is an alpha-numeric password between 8 and 63 characters long. The password can include symbols (!?*&_) and spaces. This key must be the exact same key entered on your wireless router or access point.

WPA/WPA2 incorporates user authentication through the Extensible Authentication Protocol (EAP). EAP is built on a more secure public key encryption system to ensure that only authorized network users can access the network. D-Link DIR-850L User Manual 58 Section 3 - Configuration Network Settings This section will allow you to change the local network settings of the router and to configure the DHCP settings. Router Settings Router IP Address: Enter the IP address of the router. The default IP address is 192.168.

0.1. If you change the IP address, once you click Save Settings, you will need to enter the new IP address in your browser to get back into the configuration utility. Subnet Mask: Enter the Subnet Mask. The default subnet mask is 255.255.255.0. Device Name: Enter a name for the router. Local Domain: Enter the Domain name (Optional).

Enable DNS Relay: Uncheck the box to transfer the DNS server information from your ISP to your computers. If checked, your computers will use the router for a DNS server. D-Link DIR-850L User Manual 59 Section 3 - Configuration DHCP Server Settings DHCP stands for Dynamic Host Control Protocol. The DIR-850L has a built-in DHCP server. The DHCP Server will automatically assign an IP address to the computers on the LAN/private network.

Be sure to set your computers to be DHCP clients by setting their TCP/IP settings to "Obtain an IP Address Automatically." When you turn your computers on, they will automatically load the proper TCP/IP settings provided by the DIR-850L. The DHCP Server will automatically allocate an unused IP address from the IP address pool to the requesting computer. You must specify the starting and ending address of the IP address pool. Enable DHCP Check this box to enable the DHCP server on your router.

Server: Uncheck to disable this function. DHCP IP Address Enter the starting and ending IP addresses for the DHCP Range: server's IP assignment. Note: If you statically (manually) assign IP addresses to your computers or devices, make sure the IP addresses are outside of this range or you may have an IP conflict. DHCP Lease Time: The length of time for the IP address lease. Enter the Lease time in minutes. Always If all the computers on the LAN successfully obtain their Broadcast: IP addresses from the router's DHCP server as expected, this option can remain disabled. However, if one of the computers on the LAN fails to obtain an IP address from the router's DHCP server, it may have an old DHCP client that incorrectly turns off the broadcast flag of DHCP packets. Enabling this option will cause the router to always broadcast its responses to all clients, thereby working around the problem, at the cost of increased broadcast traffic on the LAN. NetBIOS Check this box to allow the DHCP Server to offer NetBIOS configuration settings to the LAN hosts. NetBIOS allow LAN hosts to Announcement: discover all other computers within the network, e.

g. within Network Neighborhood. Learn NetBIOS If NetBIOS announcement is switched on, it will cause WINS information to be learned from the WAN side, if available. Turn this from WAN: setting off to configure manually. D-Link DIR-850L User Manual 60 Section 3 - Configuration NetBIOS Scope: This is an advanced setting and is normally left blank. This allows the configuration of a NetBIOS 'domain' name under which network hosts operate. This setting has no effect if the 'Learn NetBIOS information from WAN' is activated. NetBIOS Node: This field indicates how network hosts are to perform NetBIOS name registration and discovery. H-Node, this indicates a Hybrid-State of operation. First WINS servers are tried, if any, followed by local network broadcast. This is generally the preferred mode if you have configured WINS servers. M-Node (default), this indicates a Mixed-Mode of operation. First Broadcast operation is performed to register hosts and discover other hosts, if broadcast operation fails, WINS servers are tried, if any. This mode favours broadcast operation which may be preferred if WINS servers are reachable by a slow network link and the majority of network services such as servers and printers are local to the LAN. P-Node, this indicates to use WINS servers ONLY.

This setting is useful to force all NetBIOS operation to the configured WINS servers. You must have configured at least the primary WINS server IP to point to a working WINS server. B-Node, this indicates to use local network broadcast ONLY. This setting is useful where there are no WINS servers available, however, it is preferred you try M-Node operation first. This setting has no effect if the 'Learn NetBIOS information from WAN' is activated.

WINS IP Enter your WINS Server IP address(es). Address: D-Link DIR-850L User Manual 61 Section 3 - Configuration DHCP Reservation If you want a computer or device to always have the same IP address assigned, you can create a DHCP reservation. The router will assign the IP address only to that computer or device. Note: This IP address must be within the DHCP IP Address Range. Enable: Check this box to enable the reservation. Computer Name: Enter the computer name or select from the drop-down menu and click <<. IP Address: Enter the IP address you want to assign to the computer or device. This IP Address must be within the DHCP IP Address Range. MAC Address: Enter the MAC address of the computer or device. Copy Your PC's If you want to assign an IP address to the computer you MAC Address: are currently on, click this button to populate the fields.

Save: Click Save to save your entry. You must click Save Settings at the top to activate your reservations. DHCP Reservations List DHCP Displays any reservation entries. Displays the host name Reservations List: (name of your computer or device), MAC Address, and IP address. Enable: Check to enable the reservation. Edit: Click the edit icon to make changes to the reservation entry. Delete: Click to remove the reservation from the list. D-Link DIR-850L User Manual 62 Storage This page allows the user to use a web browser to remotely access files stored on an SD card or USB storage drive plugged into the router. You can access storage device by http://shareport.local when you enable SharePort Web Access The following parameters will be available for configuration: Enable SharePort Web Tick this option to enable the share port Access: web access feature.

HTTP Access Port: Enter the HTTP Access Port number used here. By default, this value is 8181. HTTPS Access Port: Enter the HTTPS Access Port number used here.



[You're reading an excerpt. Click here to read official D-LINK](http://yourpdfguides.com/dref/5434239)

[DIR-850L user guide](http://yourpdfguides.com/dref/5434239)

<http://yourpdfguides.com/dref/5434239>