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You can read the recommendations in the user guide, the technical guide or the installation guide for D-LINK DIR-860L. You'll find the answers to all your questions on the D-LINK DIR-860L 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-860L

User guide D-LINK DIR-860L

Operating instructions D-LINK DIR-860L

Instructions for use D-LINK DIR-860L

Instruction manual D-LINK DIR-860L

D-Link

Version 1.0 | 03/22/2013



User Manual

Wireless AC1200 Dual Band Gigabit Router

DIR-860L



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

.. *11 D-Link Quick Setup Wizard.....*

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

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

..... *12 QRS Mobile App (iOS, Android)...*

.....
.....

...30 D-Link DIR-860L User Manual L2TP.....

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

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

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

.....32 DS-Lite..

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

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

.....
.....

...34 Wireless Settings..

.....

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

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

....35 Wireless Connection Setup Wizard.....

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

36 Add Wireless Device with WPS Wizard.....

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

39 Manual Wireless Settings.....

.....
.....

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

41 802.11ac draft (2.4GHz).....

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

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

41 802.11ac draft (5GHz).....

.....

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

.....
...42 Network Settings..

.....
.....

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

.....
.....

...43 Router Settings..

.....

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

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

..44 DHCP Server Settings.....

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

....45 DHCP Reservation.

.....
.....

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

..46 Storage...

.....
.....

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

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

.....47 Media Server....

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

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

.....
.....
.....
.....
.....48 IPv6.
.....

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

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

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

49 IPv6 Internet Connection Setup Wizard.....

.....50 Manual IPv6 Local Connectivity Setup...

.....
.....

.....55 IPv6 Manual Setup....

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

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

...56 mydlink Settings.....

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

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

.....67 Advanced.

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

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

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

.....68 Virtual Server....

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

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

.....68 Port Forwarding.

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

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

.....
.....

.69 Application Rules...

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

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

.70 QoS Engine.....

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

.....71 Network Filters...

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

.....
.....

..73 Access Control...

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

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

.....74 Website Filters...

.....
.....

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

.....77 ii *Table of Contents Inbound Filter..*

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

....78 *Firewall Settings.*

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

.....79 *Routing....*

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

81 *Advanced Wireless.....*

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

..82 *Wi-Fi Protected Setup.....*

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

...83 *Advanced Network..*

.....

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

.....85 Guest Zone.

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

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

.....86 IPv6 Firewall....

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

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

.87 IPv6 Routing.....

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

.....88 Tools.....

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

..89 Admin...

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

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

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

.....89 Time..

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

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

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

.....90 SysLog..

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

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

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

...91 Email Settings.....

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

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

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

92 System.....

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

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

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

93 Firmware.....

.....

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

.94 Firmware Upgrade.....

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

.....94 Language Pack.

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

....94 Dynamic DNS.....

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

.95 System Check....

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

.....96 Schedules..

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

.....
.....

..97 Status...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..98 Device Info.....

.....

.....

.....

.....

.....

.....

.....

.....

.....98 Logs.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....99 Statistics.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 100 Internet Sessions..

.....

.....

.....

.....

.....

.....

.....

.....
.....
. 101 Wireless.....

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

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

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

. 102 Routing.....

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

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

.. 103 IPv6...

.....
.....

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

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

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

104 D-Link DIR-860L User Manual IPv6 Routing.....

.....
.....

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

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

. 105 Support.....

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

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

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

.....
107 WPS Button.....

.....
.....

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

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

. 107 Windows® 8.....

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

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

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

. 108 . WPA/WPA2.....

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

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

..... 108 Windows® 7...

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

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

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

..... 110 . WPA/WPA2...

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

.....

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

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

..... 113 Windows Vista®.

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

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

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

... 117 WPA/WPA2.....

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

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

..... 118 WPS/WCN 2.0..

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

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

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

.. 120 Windows® XP...

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

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

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

.....
..... 121 WPA/WPA2.....

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

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

.....
.....
..... 122 Troubleshooting.

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

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

124 Wireless Basics.....

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

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

...128 What is Wireless?.....

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

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

..... 129 Tips.....

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

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

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

.....
..... 131 . Wireless Modes...

.....
.....

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

..... 132 . Networking Basics....

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

....133 Check your IP address.....

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

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

..... 133 Statically Assign an IP address.....

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

..... 134 Wireless Security.....

.....
.....

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

..... 135 What is WPA?..

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

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

... 135 Technical Specifications..

.....
.....

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

with a different voltage rating than the one included with the DIR-860L will cause damage and void the warranty for this product. D-Link DIR-860L User Manual 1 Section 1 - Product Overview System Requirements Network Requirements • An Ethernet-based Cable or DSL modem • An 802.11ac (draft), n, g, b, or a wireless adaptor, or an Ethernet port 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-860L User Manual 2 Section 1 - Product Overview Introduction The D-Link Wireless AC1200

Dual Band Gigabit Router (DIR-860L) comes equipped with four Gigabit ports to provide speeds up to 10x faster than standard 10/100 ports. It also uses 802.11ac (draft) technology with multiple intelligent antennas to maximize the speed and range of your wireless signal and significantly outperform 802.11n devices. With the addition of Intelligent Quality of Service (QoS), data streams are separated, helping to organize and prioritize your network traffic so that your video streaming, gaming, and VoIP calls run smoother over both your wired and wireless network. The DIR-860L supports a host of cloud features including QRS Mobile, which allows you to set up and configure the router using a mobile app.

You can set up your router right from your sofa, without requiring a computer. The Wireless AC1200 Dual Band Gigabit Router is also mydlink-enabled, which gives you access to your home network no matter where you are. Now you can monitor and manage your home network right from your laptop, iPhone®, iPad®, or Android™ device. mydlink-enabled routers can be configured to send an email to keep you informed anywhere, anytime when new devices are connecting to your default settings. 5 Section 1 - Product Overview Hardware Overview LEDs 1 2 1 2 Power LED Internet LED A solid green light indicates a proper connection to the power supply. The light will blink green during the WPS process. The light will be a solid orange during bootup. A solid light indicates a successful 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-860L 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 or cabinet, or in an 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 a USB connection before using the router, then you must turn off your modem, disconnect the 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 12. • QRS Mobile App - Use your iPhone, iPad, or iPod Touch to configure your router. Refer to page 19. • Manual Setup - Log into the router and manually configure your router (advanced users only). Refer to page 26.

D-Link DIR-860L User Manual 11 Section 3 - Configuration D-Link 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 the wizard does not open automatically, you can alternatively reach the configuration utility by entering "http://dlinkrouter.local" or the IP address of the router (http://192.168.

0.1). Please refer to page 24. 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-860L User Manual 12 Section 3 - Configuration If the router does not detect a valid Ethernet connection from the Internet port, this screen will appear.



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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-860L 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 any 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-860L 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 to use when accessing the web-based configuration utility (where the password field was previously left blank). Check the Enable Graphical Authentication box to enable CAPTCHA authentication for added security. Be sure to make a record of this password for future use. Click Next to continue.

D-Link DIR-860L 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 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-860L User Manual 16 Section 2 - Installation 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 selected Yes, enter your mydlink account name (email address) and password. Click Login to register your router. If you selected No, fill out the requested information and click Next to create your mydlink account. D-Link DIR-860L 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), or Android device (1.6 or higher). To download the "mydlink Lite" app, visit the App Store, Google Play, or <http://mydlink.com/Lite>. PC and Mac users can use the mydlink portal at <http://mydlink.com>. D-Link DIR-860L User Manual 18 Section 3 - Configuration QRS Mobile App (iOS, Android) D-Link offers an app for your iOS or Android device to install and configure your router. Step 1 From an iOS device, go to the App Store. From an Android device go to Google Play. Search for 'D-Link', select QRS Mobile, and download the app to your device.

You may also scan the appropriate code on the right to locate the app download page. iOS Android 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 configuration note. 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-860L User Manual 19 Section 3 - Configuration SharePort Mobile App (iOS, Android) The SharePort Mobile app will allow you to access files from a USB storage drive that is plugged into your router. You must enable file sharing from the Setup > Storage page (refer to page 22) for this app to work properly. 1. Plug your USB storage drive into the USB port.

Note: The DIR-860L supports hard drives with up to one terabyte of storage capacity. USB port 2. Use your iOS or Android mobile device to scan the QR code to the right to download the SharePort Mobile app. You can also search for the SharePort Mobile app directly in the iOS App Store or Google Play. iOS Android 3. From your iOS or Android mobile device, choose Settings. Note: These steps are for the iOS version of the app. The Android version may differ slightly. Settings D-Link DIR-860L User Manual 20 Section 3 - Configuration 4. Click Wi-Fi, select the Wi-Fi Network Name (SSID) that you created during setup and then enter the default Wi-Fi password located on your Wi-Fi configuration note.

5. Once connected, tap on the SharePort Mobile icon. The following screen will appear. D-Link DIR-860L User Manual 21 Section 3 - Configuration 6. Tap on the Settings icon located on the top-right corner of the screen. Tap Edit to enter your User Name and Password (the default username is admin and the password field should be left blank). Once you finish, click Done to continue. 7. For the Movie section, click the movie icon to play your movie from your USB flash drive. 8.

For the Music section, click the music icon to play your music from your USB flash drive. D-Link DIR-860L User Manual 22 Section 3 - Configuration 9. For the Photo section, click the Photo icon to view your photos from your USB flash drive. 10. For the Files section, click on the Files icon to view your files from your USB flash drive.

11. For the Folder section, click the folder icon to view your folders from your USB flash drive. D-Link DIR-860L User Manual 23 Section 3 - Configuration Web-based Configuration Utility To access the configuration utility, open a web-browser such as Internet Explorer and enter <http://dlinkrouter.local> Users may also connect by typing the IP address of the router ([\[0.1\]\(http://192.168.0.1\)\) in the address bar. Enter your password. The password should be left blank by default. D-Link DIR-860L User Manual 24 Section 3 - Configuration Internet Connection Setup 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. Please refer to page 12. Click Manual Internet Connection Setup to configure your connection manually and continue to the next page. D-Link DIR-860L User Manual 25 Section 3 - Configuration Manual Internet Setup Static IP Select your connection type from the My Internet Connect Is drop-down box. Choose Static IP if all of the necessary IP information has been provided by your ISP.](http://192.168.</p></div><div data-bbox=)



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You will need to enter the IP address, subnet mask, gateway address, and DNS address(es). 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 Select Static IP to manually enter the IP settings supplied by your ISP. Connection Is: Enable Advanced Domain Name System (DNS) services enhances your Internet DNS Service: performance by getting you the information and web pages you are looking for faster and more reliably. In addition, it improves your overall Internet experience by correcting many common typing mistakes automatically, taking you where you intended to go and saving you valuable time. Enable True Check to enable true Gigabit routing.

This will increase the throughput Gigabit Routing of the WAN-LAN connectivity of the router. Connectivity: 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 MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP.

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-860L User Manual 26 Section 3 - Configuration Dynamic IP (DHCP)

If you are unsure what method you use to connect to the Internet, try this first.

Cable modems usually use this type of connection My Internet Select Dynamic IP (DHCP) to obtain IP Address information automatically Connection: from your ISP. Select this option if your ISP does not give you any IP numbers to use. This option is commonly used for cable modem services. Enable Advanced Domain Name System (DNS) enhances your Internet performance DNS Service: by getting you the information and web pages you are looking for faster and more reliably. In addition, it improves your overall Internet experience by correcting many common typing mistakes automatically, taking you where you intended to go and saving you valuable time. Disclaimer: D-Link makes no guarantee as to the availability, reliability, functionality and operation of the Advanced DNS service or its features. Enable True Check to enable true Gigabit routing. This will increase the throughput Gigabit Routing of the WAN-LAN connectivity of the router. Connectivity: Host Name: The Host Name is optional but may be required by some ISPs. Leave blank if you are not sure.

Use Unicasting: Check the box if you are having problems obtaining an IP address from your ISP. Primary/Secondary Enter the Primary and Secondary DNS server IP addresses assigned by your ISP. These addresses are usually obtained automatically DNS Server: from your ISP. Leave at 0.0.0.0 if you did not specifically receive these from your ISP. MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. 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-860L User Manual 27 Section 3 - Configuration PPPoE (Username/Password) 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 any PPPoE software from your computer. The software is not needed and will not work through a router. My Internet Select PPPoE (Username/Password) from the drop-down menu. Connection: Enable Advanced Domain Name System (DNS) enhances your Internet Advanced DNS performance by getting you the information and web pages you are Service: looking for faster and more reliably. In addition, it improves your overall Internet experience by correcting many common typing mistakes automatically, taking you where you intended to go and saving you valuable time.

Disclaimer: D-Link makes no guarantee as to the availability, reliability, functionality and operation of the Advanced DNS service or its features. Enable True Check to enable true Gigabit routing. This will increase the throughput Gigabit Routing of the WAN-LAN connectivity of the router. Connectivity: Address Mode: Select Static IP if your ISP assigned you an IP address, subnet mask, gateway, and DNS server addresses. In most cases, select Dynamic. IP Address: Enter the IP address (Static PPPoE only). Username: Enter your PPPoE username. Password: Enter your PPPoE password and then retype the password in the next box. Service Name: Enter the ISP Service Name (optional). Reconnect Select either Always-on, On-Demand, or Manual.

Mode: D-Link DIR-860L User Manual 28 Section 3 - Configuration Maximum Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, enable Idle Time: Auto-reconnect. DNS Enter the Primary and Secondary DNS Server Addresses (Static PPPoE only). Addresses: MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. 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-860L User Manual 29 Section 3 - Configuration 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 Select PPTP (Username/Password) from the drop-down menu. Connection: Enable Advanced Domain Name System (DNS) services enhances your Internet DNS Service: performance by getting you the information and web pages you are looking for faster and more reliably. In addition, it improves your overall Internet experience by correcting many common typing mistakes automatically, taking you where you intended to go and saving you valuable time. Disclaimer: D-Link makes no guarantee as to the availability, reliability, functionality and operation of the Advanced DNS service or its features. Enable True Check to enable true Gigabit routing.



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This will increase the throughput of Gigabit Routing the WAN-LAN connectivity of the router. Connectivity: Address Mode: Select Static if your ISP assigned you an IP address, subnet mask, gateway, and DNS server addresses. In most cases, select Dynamic. PPTP IP Address: Enter the IP address (Static PPTP only).

PPTP Subnet Mask: Enter the Primary and Secondary DNS Server Addresses (Static PPTP only). PPTP Gateway: Enter the Gateway IP Address provided by your ISP. PPTP Server IP: Enter the Server IP provided by your ISP (optional). Username: Enter your PPTP username. D-Link DIR-860L User Manual 30 Section 3 - Configuration Password: Enter your PPTP password and then retype the password in the next box. Maximum Idle Enter a maximum idle time during which the Internet connection is maintained during inactivity. To disable this feature, enable Time: Auto-reconnect. DNS Servers: The DNS server information will be supplied by your ISP. MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. 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-860L User Manual 31 Section 3 - Configuration 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 drop-down menu. Connection: Enable Advanced Domain Name System (DNS) services enhances your Internet DNS Service: performance by getting you the information and web pages you are looking for faster and more reliably. In addition, it improves your overall Internet experience by correcting many common typing mistakes automatically, taking you where you intended to go and saving you valuable time. Disclaimer: D-Link makes no guarantee as to the availability, reliability, functionality and operation of the Advanced DNS service or its features.

Enable True Check to enable true Gigabit routing. This will increase the throughput of Gigabit Routing the WAN-LAN connectivity of the router. Connectivity: Address Mode: Select Static if your ISP assigned you an IP address, subnet mask, gateway, and DNS server addresses. In most cases, select Dynamic. PPTP IP Address: Enter the IP address (Static PPTP only).

PPTP Subnet Mask: Enter the Primary and Secondary DNS Server Addresses (Static PPTP only). PPTP Gateway: Enter the Gateway IP Address provided by your ISP. PPTP Server IP: Enter the Server IP provided by your ISP (optional). Username: Enter your PPTP username. D-Link DIR-860L User Manual 32 Section 3 - Configuration Password: Enter your PPTP password and then retype the password in the next box.

Reconnect Select either Always-on, On-Demand, or Manual. Mode: D-Link DIR-860L User Manual 33 Section 3 - Configuration DS-Lite DS-Lite is an IPv6 connection type. After selecting DS-Lite, the following parameters will be available for configuration: DS-Lite Select the DS-Lite DHCPv6 option to let the router allocate the AFTR Configuration: 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, 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 Once connected, the IPv6 WAN Default Gateway address will be Gateway: displayed here. D-Link DIR-860L User Manual 34 Section 3 - Configuration Wireless Settings If you want to configure the wireless settings on your router using the wizard, click Wireless Network Setup Wizard and refer to page 42. Click Add Wireless Device with WPS if you want to add a wireless device using Wi-Fi Protected Setup (WPS) and refer to page 44.

If you want to manually configure the wireless settings on your router, click Manual Wireless Network Setup and refer to the next page. D-Link DIR-860L User Manual 35 Section 4 - Security Wireless Connection Setup Wizard To run the security wizard, click on Setup on the top menu bar and then click Wireless Connection Setup Wizard. STEP 1: Type your desired wireless network names (SSIDs) for both the 2.4 GHz band and the 5 GHz band. Automatically: Select this option to automatically generate the router's network key (password) and click Next. Manually: Select this option to manually enter your network key and click Next. D-Link DIR-860L User Manual 36 Section 4 - Security If you selected Automatically, the wizard will generate a pre-shared key (password). The password will be the same for both the 2.4GHz and 5GHz bands. Click Next.

You will now see a summary window that displays your settings. Write down the password and use it to access your wireless networks. Click Save to save your settings. D-Link DIR-860L User Manual 37 Section 4 - Security If you selected Manually, the option to make your password the same on both bands will be offered. Enter your wireless password in the box below.

If you chose to have different passwords for each band, you will need to enter a separate password for each band. Click Next. You will now see a summary window that displays your settings. Write down the password and use it to access your wireless networks. Click Save to save your settings.

D-Link DIR-860L User Manual 38 Section 4 - Security Add Wireless Device with WPS Wizard If you are unfamiliar with the types of wireless security, more information is located in the appendix at the back of this manual. From the Setup > Wireless Settings screen, click Add Wireless Device with WPS. Select Auto to add a wireless client using WPS (Wi-Fi Protected Setup) and then click Next. Skip to the next page. If you select Manual, a settings summary screen will appear. Write down the security key and use this to access your wireless networks. Click OK to finish. D-Link DIR-860L User Manual 39 Section 4 - Security PIN: Select this option to use the PIN method. In order to use this method you must know the wireless client's 8 digit PIN and click Connect. PBC: Select this option to use the PBC (Push Button) method to add a wireless client.

Click Connect. Once you click Connect, you will have a 120 second time limit to apply the settings to your wireless client(s) and successfully establish a connection. D-Link DIR-860L User Manual 40 Section 3 - Configuration Manual Wireless Settings 802.11ac draft (2.4GHz) If you are unfamiliar with the types of wireless security, more information is located in the appendix at the back of this manual. Enable Wireless: Check the box to enable the wireless function.



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If you do not want to use wireless, uncheck the box to disable all the wireless functions. Schedule: 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 schedule. Wireless Network Service Set Identifier (SSID) is the name of your wireless network. Create a name for Name: your wireless network using up to 32 characters. The SSID is case-sensitive. 802.11 Mode: Select one of the following: Mixed 802.11ac, 802.11n, and 802.11a - Select if you are using both 802.11ac, 802.11n, and 802.11a wireless clients. Mixed 802.11ac and 802.11n - Select if you are using both 802.11 ac and 802.11 n wireless clients. Mixed 802.11n and 802.11a - Select if you are using both 802.11n and 802.11a wireless clients. 802.11ac Only - Select only if all of your wireless clients are 802.11ac. 802.11n Only - Select only if all of your wireless clients are 802.11n. Enable Auto Channel The Auto Channel Scan setting can be selected to allow the DIR-860L to choose the channel with the least amount of interference. Scan: Wireless Channel: Indicates the channel setting for the DIR-860L. By default the channel is set to 6. 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 Scan, this option will be greyed out. Channel Width: Select the Channel Width: Auto 20/40 - This is the default setting. Select if you are using both 802.11n and non-802.11n wireless devices. 20MHz - Select if you are not using any 802.11n wireless clients. Visibility Status: Select Invisible if you do not want the SSID of your wireless network to be broadcast by the DIR-860L. If Invisible is selected, the SSID of the DIR-860L will not be seen by site survey utilities so your wireless clients will have to know the SSID of your DIR-860L in order to connect to it. Wireless Security: Refer to the appendix in the back of the manual for more information regarding wireless security. D-Link DIR-860L User Manual 41 Section 3 - Configuration 802.11ac draft (5GHz) 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. Schedule: 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 schedule. Wireless Network Service Set Identifier (SSID) is the name of your wireless network. Create a name for Name: your wireless network using up to 32 characters. The SSID is case-sensitive. 802.11 Mode: Select one of the following: 802.11n Only - Select only if all of your wireless clients are 802.11n. 802.11ac Only - Select if all of your wireless clients are 802.11ac. Mixed 802.11n and 802.11a - Select if you are using both 802.11n and 802.11a wireless clients. Mixed 802.11ac and 802.11n - Select if you are using both 802.11ac and 802.11n wireless clients. Mixed 802.11ac and 802.11a - Select if you are using both 802.11ac and 802.11a wireless clients. Enable Auto Channel The Auto Channel Scan setting can be selected to allow the DIR-860L to choose the channel with the least amount of interference. Scan: Wireless Channel: Indicates the channel setting for the DIR-860L. By default the channel is set to 6. 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 Scan, this option will be greyed out. Channel Width: Select the Channel Width: Auto 20/40/80 - Select if you are using both 802.11ac, 802.11n and non-802.11n wireless devices. Auto 20/40 - This is the default setting. Select if you are using both 802.11n and non-802.11n wireless devices. 20MHz - Select if you are not using any 802.11n wireless clients. Visibility Status: Select Invisible if you do not want the SSID of your wireless network to be broadcast by the DIR-860L. If Invisible is selected, the SSID of the DIR-860L will not be seen by site survey utilities so your wireless clients will have to know the SSID of your DIR-860L in order to connect to it. Wireless Security: Refer to the next page for more information regarding wireless security. D-Link DIR-860L User Manual 42 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. D-Link DIR-860L User Manual 43 Section 3 - Configuration Router Settings This section will allow you to configure the 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 in order to log in to the configuration utility in the future. 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-860L User Manual 44 Section 3 - Configuration DHCP Server Settings DHCP stands for Dynamic Host Control Protocol. The DIR-860L 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-860L. 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. Uncheck to Server: disable this function. DHCP IP Address Enter the starting and ending IP addresses for the DHCP server's IP Range: assignment range. 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 Enable this feature to broadcast your network's DHCP server to LAN/ Broadcast: WLAN clients. NetBIOS NetBIOS allows LAN hosts to discover all other computers within the network, enable this feature to allow the DHCP Server to offer Announcement: NetBIOS configuration settings. Learn NetBIOS Enable this feature to allow WINS information to be learned from the WAN side, disable to allow manual configuration. from WAN: NetBIOS Scope: This feature allows the configuration of a NetBIOS 'domain' name under which network hosts operates. This setting has no effect if the 'Learn NetBIOS information from WAN' option is activated.



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NetBIOS Node: Select the different type of NetBIOS node; Broadcast only, Point-to-Point, Mixed-mode, and Hybrid. WINS IP Address: Enter your WINS Server IP address(es). D-Link DIR-860L User Manual 45 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-860L User Manual 46 Section 3 - Configuration Storage This page will allow you to set up access to files on an external USB hard drive or thumb drive that is plugged into the router. You can do this through local network or from the Internet using either a web browser or an app on your smartphone or tablet. You can create users that can be allowed access to these files through SharePort Mobile services accessible through a web UI or on mobile devices using the SharePort Mobile app available for iOS and Android. Enable SharePort Check this box if you wish to be able to access SharePort through a Web Access: browser as well as the mobile app. HTTP Access Port: Enter the port you want to use when accessing SharePort using a web browser.

HTTPS Access Port: Enter the port you want to use when accessing SharePort through a secure connection using a web browser. Allow Remote Check this box if you wish to be able to access SharePort through a web Access: browser over the Internet. User Creation: To give a new user access to your SharePort storage, enter a User Name and Password here. You can add new users or choose existing users from the drop-down menu if you wish to edit or delete them.

Note: The Admin password is the same as the admin password for the router.

The Guest password is "guest" and cannot be changed. User List: This list displays all of the users with access to the SharePort Mobile content, what they can access, and their Read/Write Permissions. Number of Devices: All devices you have set up for SharePort access will be listed here. SharePort Web This area will display the HTTP and HTTPS links to connect to your SharePort drive through a web browser from a device on Access Link: your network. 1 Supports capacities of up to 1TB for USB storage drives.

D-Link DIR-860L User Manual 47 Section 3 - Configuration Media Server This page will allow you to enable a DLNA Media Server. DLNA (Digital Living Network Alliance) is the standard for the interoperability of Network Media Devices (NMDs). The user can enjoy multimedia applications (music, pictures and videos) on your network connected PC or media devices. If you agree to share media with devices, any computer or device that connects to your network can play your shared music, pictures and videos. Note: The shared media may not be secure. Allowing any device to stream is recommended only on secure networks. DLNA Server: Check to enable DLNA Media Server functions. DLNA Server Choose a name for your DLNA media server so that it can be Name: found. Folder: Choose the location of the folder you wish to share or check the box to use the root folder of the entire drive. iTunes Server: Check to enable iTunes Server functions.

Folder: Choose the location of the iTunes Library folder you wish to share or check the box to use the root folder if it is located on the root folder of the connected drive. USB 3.0 Use this setting to enable USB 3.0 functionality for the USB port on the back of the router. USB 3.0 provides high-speed transfer speeds with compatible devices. This setting is disabled by default, which means that the USB port will operate at the USB 2.0 specification. D-Link DIR-860L User Manual 48 Section 3 - Configuration IPv6 On this page, you can configure the IPv6 Connection type. There are two ways to set up the IPv6 Internet connection.

You can use the Web-based IPv6 Internet Connection Setup Wizard, or you can manually configure the connection. If you are a beginner who has not configured a router before, click on the IPv6 Internet Connection Setup Wizard button and the router will guide you through a few simple steps to get your network up and running. If you are an advanced user who has configured a router before, click on the Manual IPv6 Internet Connection Setup button to input all the settings manually. D-Link DIR-860L User Manual 49 Section 3 - Configuration IPv6 Internet Connection Setup Wizard On this page, the you can configure the IPv6 Connection type using the IPv6 Internet Connection Setup Wizard. Click the IPv6 Internet Connection Setup Wizard button and the router will guide you through a few simple steps to get your network up and running.

Click Next to continue to the next page. Click Cancel to discard the changes made and return to the main page. The router will attempt to detect whether it is possible to obtain the IPv6 Internet connection type automatically. If this succeeds then you will be guided through the input of the appropriate parameters for the connection type found. D-Link DIR-860L User Manual 50 Section 3 - Configuration However, if the automatic detection fails, you will be prompted to either Try again or to click on the Guide me through the IPv6 settings button to initiate the manual continuation of the wizard.

There are several connection types to choose from. If you are unsure of your connection method, please contact your IPv6 Internet Service Provider. Note: If using the PPPoE option, you will need to ensure that any PPPoE client software on your computers has been removed or disabled. The 3 options available on this page are IPv6 over PPPoE, Static IPv6 address and Route, and Tunneling Connection. Choose the required IPv6 Internet Connection type and click on the Next button to continue. Click on the Prev button to return to the previous page. Click on the Cancel button to discard all the changes made and return to the main page. Click on the Next button to continue. Click on the Prev button to return to the previous page. Click on the Cancel button to discard all the changes made and return to the main page.



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D-Link DIR-860L User Manual 51 Section 3 - Configuration IPv6 over PPPoE After selecting the IPv6 over PPPoE option, you will be able to configure the IPv6 Internet connection that requires a username and password to get online. Most DSL modems use this type of connection. The following parameters will be available for configuration: PPPoE Session: Select the PPPoE Session value used here. This option will state that this connection shares its information with the already configured IPv6 PPPoE connection, or the user can create a new PPPoE connection here. User Name: Enter the PPPoE username used here. If you do not know your user name, please contact your ISP. Password: Enter the PPPoE password used here. If you do not know your password, please contact your ISP. Verify Password: Re-enter the PPPoE password used here. Service Name: Enter the service name for this connection here.

This option is optional. *D-Link DIR-860L User Manual 52 Section 3 - Configuration Static IPv6 Address Connection* This mode is used when your ISP provides you with a set of IPv6 addresses that does not change. The IPv6 information is manually entered in your IPv6 configuration settings. You must enter the IPv6 address, Subnet Prefix Length, Default Gateway, Primary DNS Server, and Secondary DNS Server. Your ISP provides you with all of this information.

Use Link-Local The Link-local address is used by nodes and routers when Address: communicating with neighboring nodes on the same link. This mode enables IPv6-capable devices to communicate with each other on the LAN side. IPv6 Address: Enter the WAN IPv6 address for the router here. Subnet Prefix Enter the WAN subnet prefix length value used here. Length: Default Gateway: Enter the WAN default gateway IPv6 address used here.

Primary DNS Enter the WAN primary DNS Server address used here. Address: Secondary DNS Enter the WAN secondary DNS Server address used here. Address: LAN IPv6 Address: These are the settings of the LAN (Local Area Network) IPv6 interface for the router. The router's LAN IPv6 Address configuration is based on the IPv6 Address and Subnet assigned by your ISP. (A subnet with prefix /64 is supported in LAN.) *D-Link DIR-860L User Manual 53 Section 3 - Configuration Tunneling Connection (6rd)* After selecting the Tunneling Connection (6rd) option, you can configure the IPv6 6rd connection settings. 6rd IPv6 Prefix: Enter the 6rd IPv6 address and prefix value used here. IPv4 Address: Enter the IPv4 address used here. Mask Length: Enter the IPv4 mask length used here. Assigned Displays the IPv6 assigned prefix value here.

IPv6 Prefix: 6rd Border Relay Enter the 6rd border relay IPv4 address used here. IPv4 Address: IPv6 DNS Server: Enter the primary DNS Server address used here. The IPv6 Internet Connection Setup Wizard is complete. Click on the Connect button to continue. Click on the Prev button to return to the previous page. Click on the Cancel button to discard all the changes made and return to the main page. *D-Link DIR-860L User Manual 54 Section 3 - Configuration Manual IPv6 Local Connectivity Setup* You can set up a local-only IPv6 Internet connection as well. If you want to configure an IPv6 connection that will not connect to the Internet, click on the Manual IPv6 Local Connectivity Settings button. Enable ULA: Click here to enable Unique Local IPv6 Unicast Addresses settings. Use Default Checking this box will automatically configure ULA Prefix: the ULA prefix for the default setting.

ULA Prefix: If you wish to choose your own ULA prefix, enter it here. Current IPv6 This section with display the current settings for your IPv6 ULA. ULA Settings: *D-Link DIR-860L User Manual 55 Section 3 - Configuration IPv6 Manual Setup* There are several connection types to choose from: Auto Detection, Static IPv6, Autoconfiguration (SLAAC/DHCPv6), PPPoE, IPv6 in IPv4 Tunnel, 6to4, 6rd, and Link-local. If you are unsure of your connection method, please contact your IPv6 Internet Service Provider. Note: If using the PPPoE option, you will need to ensure that any PPPoE client software on your computers has been removed or disabled.

D-Link DIR-860L User Manual 56 Section 3 - Configuration Static IPv6 My IPv6 Select Static IPv6 from the drop-down menu. Connection Is: Use Link-Local Enter the address settings supplied by your Internet provider (ISP). Address: Subnet Prefix Enter a subnet prefix length. Length: IPv6 Default Enter the default gateway for your IPv6 connection. Gateway: Primary/ Enter the primary and secondary DNS server addresses.

Secondary IPv6 DNS Servers: LAN IPv6 Address: Enter the LAN (local) IPv6 address for the router. LAN Link-Local Address: Displays the router's LAN Link-Local Address. Enable Automatic Check to enable the Autoconfiguration feature. IPv6 Address Assignment: Autoconfiguration Choose either Stateful DHCPv6, SLAAC + RDNSS or SLAAC + Stateless DHCPv6 from the drop-down menu. Type: Router Enter the IPv6 Address Lifetime (in minutes).

Advertisement Lifetime: *D-Link DIR-860L User Manual 57 Section 3 - Configuration Auto Configuration My IPv6* Select Auto Detection from the drop-down menu. Connection Is: IPv6 DNS Settings: Select either Obtain DNS server address automatically or Use the following DNS Address. @@DNS Address: Enable DHCP-PD: Check this box to enable DHCP-PD services. LAN IPv6 Address: Enter the LAN (local) IPv6 address for the router. LAN Link-Local Displays the Router's LAN Link-Local Address.

@@IPv6 Address Assignment: Enable Automatic Check this box to automatically enable DHCP-PD services. DHCP-PD in LAN: Autoconfiguration Select Stateful (DHCPv6), SLAAC + RDNSS or SLAAC + Stateless Type: DHCPv6. Router Enter the IPv6 Address Lifetime (in minutes). Advertisement Lifetime: *D-Link DIR-860L User Manual 58 Section 3 - Configuration PPPoE My IPv6* Select PPPoE from the drop-down menu. Connection Is: PPPoE Session: Enter the PPPoE account settings supplied by your Internet provider. Address Mode: Select Static if your ISP assigned you an IP address, subnet mask, gateway, and DNS server addresses. In most cases, select Dynamic. IP Address: Enter the IP address (Static PPPoE only). Username: Enter your PPPoE user name. Password: Enter your PPPoE password and retype the password in the next box.

Service Name: Reconnection mode: Enter the ISP Service Name (optional). Select either Always-on, On-Demand, or Manual. Enter a maximum idle time during which the Internet connection is Maximum Idle maintained during inactivity. Time: MTU: Maximum Transmission Unit - you may need to change the MTU for optimal performance with your specific ISP. 1492 is the default MTU.

IPv6 DNS Settings: Select either Obtain DNS server address automatically or Use the following DNS Address. @@DNS Address: *D-Link DIR-860L User Manual 59 Section 3 - Configuration Enable DHCP-D*: Check this box to enable DHCP prefix delegation for each LAN on the network. LAN IPv6 Address: Enter the LAN (local) IPv6 address for the router. LAN Link-Local Displays the router's LAN Link-Local Address.



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To enable web logging, click Enable. Click Save to save the access control rule. Your newly created policy will now show up under Policy Table. D-Link DIR-860L User Manual 76 Section 3 - Configuration Website Filters Website Filters are used to allow you to set up a list of Web sites that can be viewed by multiple users through the network. To use this feature, select Allow or Deny, enter the domain or website and click Save Settings. You must also select Apply Web Filter under the Access Control section. Configure Website Select either DENY computers access to ONLY these sites Filter: or ALLOW computers access to ONLY these sites. Website URL/ Enter the keywords or URLs that you want to allow or block. Domain: Click Save Settings.

D-Link DIR-860L User Manual 77 Section 3 - Configuration Inbound Filter The Inbound Filter option is an advanced method of controlling data received from the Internet. With this feature you can configure inbound data filtering rules that control data based on an IP address range. Inbound Filters can be used with Virtual Server, Port Forwarding, or Remote Administration features. Name: Enter a name for the inbound filter rule. Action: Select Allow or Deny. Enable: Check to enable rule. Remote IP Start: Enter the starting IP address. Enter 0.0.0.

0 if you do not want to specify an IP range. Remote IP End: Enter the ending IP address. Enter 255.255.255.

255 if you do not want to specify and IP range. Add: Click the Add button to apply your settings. You must click Save Settings at the top to save the settings. Inbound Filter This section will list any rules that are created. You may click Rules List: the Edit icon to change the settings or enable/disable the rule, or click the Delete icon to remove the rule.

D-Link DIR-860L User Manual 78 Section 3 - Configuration Firewall Settings A firewall protects your network from the outside world. The DIR-860L offers a firewall type functionality. The SPI feature helps prevent cyber attacks. Sometimes you may want a computer exposed to the outside world for certain types of applications. If you choose to expose a computer, you can enable Demilitarized Zone (DMZ). This option will expose the chosen computer completely to the outside world. Enable SPI: SPI (Stateful Packet Inspection, also known as dynamic packet filtering) helps to prevent cyber attacks by tracking the state of each session. It validates that the traffic passing through the session conforms to the protocol. Anti-Spoof Check: Enable this feature to protect your network from certain kinds of "spoofing" attacks. Enable DMZ: If an application has trouble working from behind the router, you can expose one computer to the Internet and run the application on that computer.

Note: Placing a computer in the DMZ may expose that computer to a variety of security risks. Use of this option is only recommended as a last resort. DMZ IP Address: Specify the IP address of the computer on the LAN that you want to have unrestricted Internet communication. If this computer obtains its IP address automatically using DHCP, be sure to make a static reservation on the Setup > Network Settings page so that the IP address of the DMZ machine does not change. PPTP: Allows multiple machines on the LAN to connect to their corporate network using PPTP protocol. IPSEC (VPN): Allows multiple VPN clients to connect to their corporate network using IPsec. Some VPN clients support traversal of IPsec through NAT. This Application-level Gateway (ALG) may interfere with the operation of such VPN clients. If you are having trouble connecting with your corporate network, try turning this ALG off.

Please check with the system administrator of your corporate network whether your VPN client supports NAT traversal.

D-Link DIR-860L User Manual 79 Section 3 - Configuration RTSP: Allows applications that use Real Time Streaming Protocol to receive streaming media from the Internet. QuickTime and Real Player are some of the common applications using this protocol. SIP: Allows devices and applications using VoIP (Voice over IP) to communicate across NAT. Some VoIP applications and devices have the ability to discover NAT devices and work around them. This ALG may interfere with the operation of such devices.

If you are having trouble making VoIP calls, try turning this ALG off. D-Link DIR-860L User Manual 80 Section 3 - Configuration Routing The Routing option is an advanced method of customizing specific routes of data through your network. Name: Enter a name for your route. Destination IP: Enter the IP address of packets that will take this route. Netmask: Enter the netmask of the route, please note that the octets must match your destination IP address.

Gateway: Enter your next hop gateway to be taken if this route is used. Metric: The route metric is a value from 1 to 16 that indicates the cost of using this route. A value 1 is the lowest cost and 15 is the highest cost. Interface: Select the interface that the IP packet must use to transit out of the router when this route is used. D-Link DIR-860L User Manual 81 Section 3 - Configuration Advanced Wireless This page allows you to change some of the advanced wireless settings of the DIR-860L. It is recommended that you only change these settings if you are familiar with their functions and proper settings, or are instructed to do so. Wireless Band This section will allow you to adjust the settings for the 2.4GHz band Transmit Power: Set the transmission power of the antennas for the 2.4 GHz band. WLAN Partition: This enables 802.

11d operation. 802.11d is a wireless specification developed to allow implementation of wireless networks in countries that cannot use the 802.11 standard.

This feature should only be enabled if you are in a country that requires it. WMM Enable: WMM is QoS for your wireless network. This will improve the quality of video and voice applications for your wireless clients. HT20/40 Enable this option to reduce interference from other wireless networks Coexistence: in your area. If the channel width is operating at 40MHz and there is another wireless network's channel over-lapping and causing interference, the router will automatically change to 20MHz. Wireless Band: This section will allow you to adjust the settings for the 5 GHz band.

Transmit Power: Set the transmission power of the antennas for the 5 GHz band. WLAN Partition: This enables 802.11d operation. 802.11d is a wireless specification developed to allow implementation of wireless networks in countries that cannot use the 802.

11 standard. This feature should only be enabled if you are in a country that requires it. WMM Enable: WMM is QoS for your wireless network. This will improve the quality of video and voice applications for your wireless clients. D-Link DIR-860L User Manual 82 Section 3 - Configuration Wi-Fi Protected Setup Wi-Fi Protected Setup (WPS) is a simplified method for securing your wireless network during the "Initial setup" as well as the "Add New Device" processes.



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