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You can read the recommendations in the user guide, the technical guide or the installation guide for D-LINK DIR-300. You'll find the answers to all your questions on the D-LINK DIR-300 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-300
User guide D-LINK DIR-300
Operating instructions D-LINK DIR-300
Instructions for use D-LINK DIR-300
Instruction manual D-LINK DIR-300



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Filtering - Easily applied content filtering based on MAC Address, URL, and/or Domain Name. · Filter Scheduling - These filters can be scheduled to be active on certain days or for a duration of hours or minutes. · Secure Multiple/Concurrent Sessions - The DIR-300 can pass through VPN sessions. It supports multiple and concurrent IPSec and PPTP sessions, so users behind the DIR-300 can securely access corporate networks. · User-friendly Setup Wizard - Through its easy-to-use Web-based user interface, the DIR-300 lets you control what information is accessible to those on the wireless network, whether from the Internet or from your company's server. Configure your router to your specific settings within minutes.

** Maximum wireless signal rate derived from IEEE Standard 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental conditions will adversely affect wireless signal range. D-Link DIR-300 User Manual 6 Section 1 - Product Overview Hardware Overview Connections Pressing the Reset Button restores the router to its original factory default settings. Receptor for the Power Adapter. LAN Ports Connect Ethernet devices such as computers, switches, and hubs. The Auto MDI/MDIX WAN port is the connection for the Ethernet cable to the Cable or DSL modem.*



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D-Link DIR-300 User Manual Section 1 - Product Overview Hardware Overview LEDs WAN LED A solid light indicates connection on the WAN port. This LED blinks during data transmission. WLAN LED A solid light indicates that the wireless segment is ready. This LED blinks during wireless data transmission. Local Network LEDs A solid light indicates a connection to an Ethernet port on your computer.

5. Turn on or plug in your modem. Wait for the modem to boot (about 30 seconds). 6. Plug the power adapter to the router and connect to an outlet or power strip. Wait about 30 seconds for the router to boot.

7. Turn on your computer. 8. Verify the link lights on the router. The power light, WAN light, and the LAN light (the port that your computer is plugged into) should be lit. If not, make sure your computer, modem, and router are powered on and verify the cable connections are correct. 9. Skip to page 14 to configure your router. *D-Link DIR-300 User Manual 11 Section - Installation Connect to Another Router* If you are connecting the D-Link router to another router to use as a wireless access point and/or switch, you will have to do the following before connecting the router to your network: · Disable UPnP · Disable DHCP · Change the LAN IP address to an available address on your network. The LAN ports on the router cannot accept a DHCP address from your other router.

To connect to another router, please follow the steps below: 1. Plug the power into the router. Connect one of your computers to the router (LAN port) using an Ethernet cable. Make sure your IP address on the computer is 192.168.0.xxx (where xxx is between 2 and 254). Please see the Networking Basics section for more information. If you need to change the settings, write down your existing settings before making any changes. In most cases, your computer should be set to receive an IP address automatically in which case you will not have to do anything to your computer.

2. Open a web browser and enter <http://192.168.0.1> and press Enter.

When the login window appears, set the user name to admin and leave the password box empty. Click OK to continue. 3. Click on Advanced and then click Advanced Network. Uncheck the Enable UPnP checkbox.

Click Save Settings to continue. 4. Click Setup and then click Network Settings. Uncheck the Enable DHCP Server server checkbox. Click Save Settings to continue. 5. Under Router Settings, enter an available IP address and the subnet mask of your network. Click Save Settings to save your settings. Use this new IP address to access the configuration utility of the router in the future. Close the browser and change your computer's IP settings back to the original values as in Step 1.

D-Link DIR-300 User Manual 1 Section - Installation 6. Disconnect the Ethernet cable from the router and reconnect your computer to your network. 7. Connect an Ethernet cable in one of the LAN ports of the router and connect it to your other router. Do not plug anything into the WAN port of the D-Link router. 8. You may now use the other three LAN ports to connect other Ethernet devices and computers. To configure your wireless network, open a web browser and enter the IP address you assigned to the router. Refer to the Configuration and Wireless Security sections for more information on setting up your wireless network. D-Link DIR-300 User Manual 13 Section 3 - Configuration Configuration This section will show you how to configure your new D-Link wireless router using the web-based configuration utility.

Web-based Configuration Utility To access the configuration utility, open a web-browser such as Internet Explorer and enter the IP address of the router (192.168.0.1). Enter the user name (admin) and your password.

Leave the password blank by default. If you get a Page Cannot be Displayed error, please refer to the Troubleshooting section for assistance. *D-Link DIR-300 User Manual 1 Section 3 - Configuration Setup Wizard* You may run the setup wizard from the opening Internet Setup window to quickly set up your router.

Click Internet Connection Setup Wizard, you will be directed to the first window of the wizard. Click Next to continue.

Create a new password and then click Next to continue. *D-Link DIR-300 User Manual 1 Section 3 - Configuration* Select your time zone from the drop-down menu and then click Next to continue. Select the type of Internet connection you use and then click Next to continue. If you selected Dynamic, you may need to enter the MAC address of the computer that was last connected directly to your modem. If you are currently using that computer, click Clone Your PC's MAC Address and then click Next to continue. The Host Name is optional but may be required by some ISPs. The default host name is the device name of the Router and may be changed. *D-Link DIR-300 User Manual 16 Section 3 - Configuration* If you selected PPPoE, enter your PPPoE username and password. Click Next to continue. Select Static if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses.

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 you selected PPTP, enter your PPTP username and password. Click Next to continue. If you selected LTP, enter your LTP username and password. Click Next to continue.

D-Link DIR-300 User Manual 1 Section 3 - Configuration If you selected Big Pond, enter your Big Pond username and password. Click Next to continue. If you selected Static, enter your network settings supplied by your Internet provider. Click Next to continue.

Click Connect to save your settings. Please allow 1-2 minutes for rebooting. When the router has finished rebooting, the opening window will be displayed. *D-Link DIR-300 User Manual 18 Section 3 - Configuration Internet Setup Dynamic (Cable)* To manually set up the Internet connection, click the Manual Internet Connection Setup button on the Router's opening window. Access Point Checking this box disables NAT and turns the Router into an Mode: Access Point only.

Dynamic IP Choose Dynamic IP Address to obtain IP Address information Address: automatically 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. Host Name: The Host Name is optional but may be required by some ISPs. The default host name is the device name of the Router and may be changed.

MAC Address: The default MAC Address is set to the WAN'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. Clone MAC The default MAC address is set to the WAN's physical interface Address: MAC address on the Broadband Router. You can use the "Clone MAC Address" button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with the MAC address of the router.



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It is not recommended that you change the default MAC address unless required by your ISP. Primary DNS Addresses: Enter the Primary DNS (Domain Name Server) server IP address assigned by your ISP. Secondary DNS: This is optional. MTU: Maximum Transmission Unit - You may need to change the MTU for optimal performance with your specific ISP. D-Link DIR-300 User Manual 1 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. PPPoE: Select Dynamic (most common) or Static. Select Static if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. User Name: Enter your PPPoE user name. Password: Enter your PPPoE password and then retype the password in the next box.

Service Name: Enter the ISP Service Name (optional). IP Address: Enter the IP address (Static PPPoE only). DNS Addresses: Enter the Primary and Secondary DNS Server Addresses (Static PPPoE only).

Maximum Idle Enter a maximum idle time during which the Internet Time: connection is maintained during inactivity. To disable this feature, enable Auto-reconnect. MTU: Maximum Transmission Unit - You may need to change the MTU for optimal performance with your specific ISP. 1492 is the default MTU.

Connection Mode Select either Always-on, Manual, or Connect-on Select: demand.

D-Link DIR-300 User Manual 0 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. PPTP: Select Dynamic (most common) or Static. Select Static if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses.

IP Address: Enter the IP address (Static PPTP only). Subnet Mask: Enter the Primary and Secondary DNS Server Addresses (Static PPTP only). Gateway: Enter the Gateway IP Address provided by your ISP. DNS: The DNS server information will be supplied by your ISP (Internet Service Provider.) Server IP: Enter the Server IP provided by your ISP (optional). PPTP Account: Enter your PPTP account name. PPTP 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 Time: connection is maintained during inactivity. To disable this feature, enable Auto-reconnect. MTU: Maximum Transmission Unit - You may need to change the MTU for optimal performance.

Connect Mode: Select either Always-on, Manual, or Connect-on demand. D-Link DIR-300 User Manual 1 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. L2TP: Select Dynamic (most common) or Static. Select Static if your ISP assigned you the IP address, subnet mask, gateway, and DNS server addresses. IP Address: Enter the IP address (Static L2TP only). Subnet Mask: Enter the Primary and Secondary DNS Server Addresses (Static L2TP only). Gateway: Enter the Gateway IP Address provided by your ISP. DNS: The DNS server information will be supplied by your ISP (Internet Service Provider.

) Server IP: Enter the Server IP provided by your ISP (optional). L2TP Account: Enter your LTP account name. L2TP Password: Enter your LTP password and then retype the password in the next box. Maximum Idle Enter a maximum idle time during which the Internet connection Time: is maintained during inactivity. To disable this feature, enable Auto-reconnect.

MTU: Maximum Transmission Unit - You may need to change the MTU for optimal performance with your specific ISP. Connect Mode: Select either Always-on, Manual, or Connect-on demand. D-Link DIR-300 User Manual Section 3 - Configuration Internet Setup Big Pond Choose Big Pond if your ISP uses a Big Pond connection. Your ISP will provide you with a username and password. User Name: Enter your Big Pond user name.

Password: Enter your Big Pond password and then retype the password in the next box. Auth Server: Enter the IP address of the login server. Login Server IP: Enter the IP address of the login server. MAC Address: The default MAC Address is set to the WAN'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. The default MAC address is set to the WAN's Clone MAC physical interface MAC address on the Broadband Address: Router. You can use the "Clone MAC Address" button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with the MAC address of the router. It is not recommended that you change the default MAC address unless required by your ISP. D-Link DIR-300 User Manual 3 Section 3 - Configuration Static (assigned by ISP) Select Static IP Address if all WAN 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. IP Address: Enter the IP address assigned by your ISP. Subnet Mask: Enter the Subnet Mask assigned by your ISP. ISP Gateway: Enter the Gateway assigned by your ISP. MAC Address: The default MAC Address is set to the WAN'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.

The default MAC address is set to the WAN's physical Clone MAC interface MAC address on the Broadband Router. You Address: can use the Clone MAC Address button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with the MAC address of the router. It is not recommended that you change the default MAC address unless required by your ISP. Enter the Primary DNS server IP address assigned by Primary DNS your ISP. Address: This is optional.

Secondary DNS Address: Maximum Transmission Unit - you may need to change MTU: the MTU for optimal performance with your specific ISP. 1492 is the default MTU. D-Link DIR-300 User Manual Internet Setup Section 3 - Configuration Wireless Setup Wireless settings for the router may be configured manually or by using a wizard. To use the wizard, click the Wireless Connection Setup Wizard button and then follow the steps that are described below. To configure the wireless settings manually, click the Manual Wireless Connection Setup button.

The parameters for this window are described later in this section.



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The Wireless Security section that directly follows this Configuration section provides additional explanation for how to configure the WEP, WPA, WPA2, and WPA/WPA2 wireless security mode options. Click Next to continue. Enter a Wireless Network Name in the textbox, which is also known as the SSID, and then click Next to continue. D-Link DIR-300 User Manual Section 3 - Configuration Use the radio buttons to select the desired level of wireless security, Best, Better, or Good, and then click Next to continue. Enter a Wireless Security Password in the textbox and then click Next to continue. This window displays a summary of your wireless security settings. Please print this out or record this information in a safe place and then click Save to continue. The Router will save your new settings and reboot. When it is finished after 1-2 minutes, the opening Wireless Setup window is displayed.

D-Link DIR-300 User Manual 6 Section 3 - Configuration Wi-Fi Protected To implement Wi-Fi protection, or WCN 2.0, tick the Setup: Enable checkbox, click either Generate New PIN or Reset PIN to Default, and then configure the WiFi settings below. Please see the Setting Up Wi-Fi Protection (WCN 2.0 in Windows Vista) section later in this manual for detailed configuration information. Enable 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. Wireless Network Service Set Identifier (SSID) is the name of your Name: wireless network.

Create a name using up to 3 characters. The SSID is case-sensitive. Wireless Channel: Indicates the channel setting for the DIR-300.

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.

The Auto Channel Selection setting can be selected to allow the DIR-300 to choose the channel with the least amount of interference. Transmission Use the drop-down menu to select the appropriate Transmission Rate in Mbits per second. Many users will want to use the default setting, Rate: Best (automatic).

WMM Enable: Enable Wi-Fi Multimedia to enjoy basic quality of service features. WMM prioritizes traffic according to four access categories: voice, video, best effort, and background. Enable Hidden Check this option if you would not like the SSID of your wireless network to be broadcasted by the DIR-300. If this option is checked, Wireless: the SSID of the DIR-300 will not be seen by Site Survey utilities so your wireless clients will have to know the SSID of your DIR-300 in order to connect to it. D-Link DIR-300 User Manual Section 3 - Configuration Security Mode: 1.

To enable wireless security on the Router, use the dropdown menu to select the desired option. To enable WEP, select Enable WEP Wireless Security (basic).

2. Next to Authentication, select either Open or Shared Key. Shared Key provides greater security. 3. Select either 64Bit or 128Bit encryption from the dropdown menu next to WEP Encryption. 4. Next to Default Key Type, select WEP Key 1 and enter a WEP key that you create. Make sure you enter this key exactly on all your wireless devices.

You may enter up to four different keys either using Hex or ASCII. Hex is recommended (letters A-F and numbers 0-9 are valid). In ASCII all numbers and letters are valid. 5. Click Save Settings to save your settings. If you are configuring the Router with a wireless adapter, you will lose connectivity until you enable WEP on your adapter and enter the same WEP key as you did on the Router. NOTE: It is recommended to enable encryption on your wireless Router before your wireless network adapters. Please establish wireless connectivity before enabling encryption. D-Link DIR-300 User Manual 8 Section 3 - Configuration 1. To enable WPA, WPA2, or WPA/WPA2, select either Enable WPA Only Wireless Security (enhanced), Enable WPA2 Only Wireless Security (enhanced), or Enable WPA/WPA2 Wireless Security (enhanced).

2. Next to Cipher Type, select TKIP, AES, or Both. 3. Next to PSK/EAP, select PSK. 4.

Next to Network Key, enter a passphrase. The key is an alpha-numeric password between 8 and 63 characters long. The password can include symbols (!?*&_) and spaces. Make sure you enter this key exactly the same on all other wireless clients. 5.

Click Save Settings to save your settings. If you are configuring the router with a wireless adapter, you will lose connectivity until you enable WPA, WPA, or WPA/WPA2 (whichever of the three options you have selected above) on your adapter and enter the same network key as you did on the router. D-Link DIR-300 User Manual Section 3 - Configuration 1. To enable WPA, WPA2, or WPA/WPA2 for a RADIUS server, next to Security Mode, select Enable WPA Only Wireless Security (enhanced), Enable WPA2 Only Wireless Security (enhanced), or Enable WPA/WPA2 Wireless Security (enhanced). 2. Next to Cipher Type, select TKIP, AES, or Auto. 3. Next to PSK/EAP, select EAP. 4. Next to RADIUS Server 1 enter the IP Address of your RADIUS server.

5. Next to Port, enter the port you are using with your RADIUS server. 1812 is the default port. 6. Next to Shared Secret, enter the security key. 7. If you have a secondary RADIUS server, enter its IP address, port, and secret key. 8. Click Save Settings to save your settings. D-Link DIR-300 User Manual 30 Section 3 - Configuration LAN Setup This section will allow you to change the local network settings of the router and to configure the DHCP settings.

Router IP Address: Enter the IP address of the router. The default IP address is 1.168.0.1.

If you change the IP address, once you click Apply, you will need to enter the new IP address in your browser to get back into the configuration utility.

Default Subnet Mask: Enter the Subnet Mask. The default subnet mask is ...

0. Local Domain Enter the Domain name (Optional). Name: Check the box to transfer the DNS server information Enable DNS Relay: from your ISP to your computers. If unchecked, your computers will use the router for a DNS server. Refer to the next page for DHCP information. D-Link DIR-300 User Manual 31 Section 3 - Configuration DHCP Server Settings DHCP stands for Dynamic Host Control Protocol. The DIR-300 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-300.

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 the box to enable the DHCP server on your Server: router. Uncheck to disable this function.

DHCP IP Enter the starting and ending IP addresses for the Address Range: DHCP server's IP assignment.



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DHCP Lease The length of time for the IP address lease. Enter the Time: Lease time in minutes. D-Link DIR-300 User Manual 3 Section 3 - Configuration Time and Date This section will allow you to configure, update, and maintain the correct time on the internal system clock. Time Zone: Select the Time Zone from the drop-down menu. Enable Ticking this checkbox enables Daylight Saving time.

Daylight Click Sync. your computer's time settings to copy Saving: your PC's time settings. NTP Tick the "Automatically synchronize with D-Link's Server Internet time server" checkbox and then use the dropUsed: down menu to select an NTP Server. NTP is short for Network Time Protocol. NTP synchronizes computer clock times in a network of computers.

Manual: To manually input the time, enter the values in these fields for the Year, Month, Day, Hour, Minute, and Second. Click Save Settings. D-Link DIR-300 User Manual 33 Section 3 - Configuration Parental Control This feature allows you to create a list of websites that you want to either allow or deny users access. Configure Select Turn Parental Control OFF, Turn Parental Parental Control ON and ALLOW computers access to ONLY Control: these sites, or Turn Parental Control ON and DENY computers access to ONLY these sites. Enter the keywords or URLs that you want to block Website URL: (or allow). Any URL with the keyword in it will be blocked. The schedule of time when the parental control filter Schedule: will be enabled. The schedule may be set to Always, which will allow the particular service to always be enabled. You can create your own times in the Maintenance > Schedules section. D-Link DIR-300 User Manual 3 Section 3 - Configuration Port Forwarding This will allow you to open a single port or a range of ports. Rule: Check the box to enable the rule. Name: Enter a name for the rule. IP Address: Enter the IP address of the computer on your local network that you want to allow the incoming service to. Start Port/ Enter the port or ports that you want to open. If you End Port: want to open one port, enter the same port in both boxes.

Traffic Type: Select TCP, UDP, or Any D-Link DIR-300 User Manual 3 Section 3 - Configuration Application Rules Some applications require multiple connections, such as Internet gaming, video conferencing, Internet telephony and others. These applications have difficulties working through NAT (Network Address Translation). Special Applications makes some of these applications work with the DIR-300. Rule: Check the box to enable the rule. Name: Enter a name for the rule. Trigger Port: This is the port used to trigger the application. It can be either a single port or a range of ports. Firewall Port: This is the port number on the WAN side that will be used to access the application. You may define a single port or a range of ports. You can use a comma to add multiple ports or port ranges.

Traffic Type: Select TCP, UDP, or Any. D-Link DIR-300 User Manual 36 Section 3 - Configuration Access Control Use MAC (Media Access Control) Filters to allow or deny LAN (Local Area Network) computers by their MAC addresses from accessing the Network. You can either manually add a MAC address or select the MAC address from the list of clients that are currently connected to the Broadband Router. Configure MAC Select Turn MAC Filtering OFF, Turn MAC Filter: Filtering ON and ALLOW computers listed to access the network, or Turn MAC Filtering ON and DENY computers listed to access the network. MAC Address: Enter the MAC address you would like to filter.

To find the MAC address on a computer, please refer to the Networking Basics section in this manual. DHCP Client Select a DHCP client from the drop-down menu and List: click the arrow to copy that MAC Address. The schedule of time when the network filter will be Schedule: enabled. The schedule may be set to Always, which will allow the particular service to always be enabled. You can create your own times in the Maintenance > Schedules section.

D-Link DIR-300 User Manual 3 Section 3 - Configuration Firewall & DMZ This section will allow you to set up a DMZ host and to set up firewall rules. If you have a client PC that cannot run Internet applications properly from behind the DIR-300, then you can set the client up for unrestricted Internet access. It allows a computer to be exposed to the Internet. This feature is useful for gaming purposes. Enter the IP address of the internal computer that will be the DMZ host. Adding a client to the DMZ (Demilitarized Zone) may expose your local network to a variety of security risks, so only use this option as a last resort. Enable SPI: Check this to enable SPI. Enable DMZ Check this box to enable DMZ. Host: DMZ IP Address: Enter the IP address of the computer you would like to open all ports to. Name: Choose a name for the firewall rule.

Action: Select to Allow or Deny transport of the data packets according to the criteria defined in the rule. Source/Dest: The Source/Destination is the TCP/UDP port on either the LAN or WAN side. Schedule: Click Add New to access the Schedules window. See Maintenance>Schedules for more information.

IP Address: Enter a beginning and ending IP address. Protocol: Select the transport protocol that will be used for the filter rule. Port Range: Enter the desired port range for the filter rule. D-Link DIR-300 User Manual 38 Section 3 - Configuration Advanced Wireless Transmit Power: Set the transmit power of the antennas. This window allows you to change the behavior of the 80.11g wireless radio from the standard settings.

Please be aware that any changes to the factory default settings may adversely affect the behavior of your network. Beacon Beacons are packets sent by an Access Point to synchronize a interval: wireless network. Specify a value. 100 is the default setting and is recommended. RTS Threshold: This value should remain at its default setting of 2346.

If inconsistent data flow is a problem, only a minor modification should be made. Fragmentation: The fragmentation threshold, which is specified in bytes, determines whether packets will be fragmented. Packets exceeding the 36 byte setting will be fragmented before transmission. 2346 is the default setting.

DTIM Interval: (Delivery Traffic Indication Message) 1 is the default setting.

A DTIM is a countdown informing clients of the next window for listening to broadcast and multicast messages. Preamble Type: Select Short or Long Preamble. The Preamble defines the length of the CRC block (Cyclic Redundancy Check is a common technique for detecting data transmission errors) for communication between the wireless router and the roaming wireless network adapters. Auto is the default setting. Note: High network traffic areas should use the shorter preamble type. CTS Mode: CTS (Clear To Send) is a function used to minimize collisions among wireless devices on a wireless local area network (LAN).



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CTS will make sure the wireless network is clear before a wireless client attempts to send wireless data. Enabling CTS will add overhead and may lower wireless throughput. None: CTS is typically used in a pure 80.11g environment.

If CTS is set to "None" in a mixed mode environment populated by 80.11b clients, wireless collisions may occur frequently. Always: CTS will always be used to make sure the wireless LAN is clear before sending data. Auto: CTS will monitor the wireless network and automatically decide whether to implement CTS based on the amount of traffic and collisions that occurs on the wireless 802.11g Only network. Mode: Tick this checkbox to restrict access to 80.11g devices only. D-Link DIR-300 User Manual 3 Section 3 - Configuration Advanced Network This window allows you to change the LAN settings. Please be aware that any changes to the factory default settings may affect the behavior of your network. Enable UPnP: To use the Universal Plug and Play (UPnP) feature tick this checkbox.

UPnP provides compatibility with networking equipment, software and peripherals. Enable WAN Unchecking the box will not allow the DIR-300 to Ping Respond: respond to Pings. Blocking the Ping may provide some extra security from hackers. Tick this checkbox to allow the WAN port to be "Pinged". WAN Port You may set the port speed of the WAN port to Speed: 10Mbps, 100Mbps, or 10/100Mbps Auto.

Some older cable or DSL modems may require you to set the port speed to 10Mbps. Enable Gaming Gaming mode allows a form of pass-through for Mode: certain Internet Games. If you are using Xbox, Playstation or a PC, make sure you are using the latest firmware and Gaming Mode is enabled. To utilize Gaming Mode, click the box. If you are not using a Gaming application, it is recommended that you Disable Gaming Mode.

D-Link DIR-300 User Manual 0 Section 3 - Configuration Routing This option allows you to define fixed routes to defined destinations. Enable: Tick this checkbox to enable or disable fixed routes to defined destinations. Interface: Use the drop-down menu to choose the WAN or WAN (Physical Port) Interface the IP packet must use to transit out of the Router. Destination: The IP address of the packets that will take this route. Subnet Mask: The subnet of the IP address of the packets that will take this route. Gateway: Specifies the next hop to be taken if this route is used. D-Link DIR-300 User Manual 1 Section 3 - Configuration Device Administration This window will allow you to change the Administrator password. You can also enable Remote Management.

Administrator Enter a new Login Name for the Administrator Login Name: account. Administrator Enter a new password for the Administrator Login Password: Name and then retype the new password in the Confirm Password textbox.

The administrator can make changes to the settings. Remote management allows the DIR-300 to be Enable Remote configured from the Internet by a web browser. A Management: username and password is still required to access the Web-Management interface. In general, only a member of your network can browse the built-in web pages to perform Administrator tasks. This feature enables you to perform Administrator tasks from the remote (Internet) host. IP

Allowed to The Internet IP address of the computer that has access to the Broadband Router. If you input an asterisk (*) into this field, then any Access: computer will be able to access the Router. Putting an asterisk (*) into this field would present a security risk and is not recommended. Port: The port number used to access the DIR-300. For example: http://x.

x.x.x:8080 whereas x.x.x.

x is the WAN IP address of the DIR-300 and 8080 is the port used for the Web-Management interface. D-Link DIR-300 User Manual Section 3 - Configuration Save and Restore This window allows you to save your configuration file to a hard drive, load configuration settings from a hard drive, and restore the Router's factory default settings. Save Settings Use this option to save the current router configuration to Local Hard settings to a file on the hard disk of the computer you Drive: are using. First, click the Save button. You will then see a file dialog, where you can select a location and file name for the settings.

Load Settings Use this option to load previously saved router from Local Hard configuration settings. First, use the Browse control Drive: to find a previously save file of configuration settings. Then, click the Upload Settings button to transfer those settings to the Router. Restore to This option will restore all configuration settings Factory Default back to the settings that were in effect at the time Settings: the router was shipped from the factory. Any settings that have not been saved will be lost, including any rules that you have created. If you want to save the current router configuration settings, use the Save button above. Reboots: Click the Reboots button on the left side of the window to restart the Router. D-Link DIR-300 User Manual 3 Section 3 - Configuration Firmware Update You can upgrade the firmware of the Router here. Make sure the firmware you want to use is on the local hard drive of the computer. Click on Browse to locate the firmware file to be used for the update.

Please check the D-Link support site for firmware updates at <http://support.dlink.com>. You can download firmware upgrades to your hard drive from the D-Link support site. Firmware Click the Check Now button (or the link at the top Upgrade: of the window) to find out if there is an updated firmware; if so, download the new firmware to your hard drive. Browse: After you have downloaded the new firmware, click Browse in this window to locate the firmware update on your hard drive. Click Save Settings to complete the firmware upgrade. D-Link DIR-300 User Manual Section 3 - Configuration DDNS Setting The router supports DDNS (Dynamic Domain Name Service). The Dynamic DNS service allows a dynamic public IP address to be associated with a static host name in any of the many domains, allowing access to a specified host from various locations on the Internet. This is enabled to allow remote access to a host by clicking a hyperlinked URL in the form "hostname.

dyndns.org". Many ISPs assign public IP addresses using DHCP, this can make it difficult to locate a specific host on the LAN using standard DNS. If for example you are running a public web server or VPN server on your LAN, this ensures that the host can be located from the Internet if the public IP address changes. DDNS requires that an account be setup with one of the supported DDNS providers.

Enable DDNS: Tick the Enable DDNS checkbox to enable support for DDNS. Server Address: Select one of the DDNS registration organizations from those listed in the pull-down menu. Available servers include dlinkddns.com(Free), DynDns.org(Custom), Dyn.Dns.org(Static). Host Name: Enter the host name of the DDNS server.



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Username: Enter the username given to you by your DDNS server. Password: Enter the password or key given to you by your DDNS server. D-Link DIR-300 User Manual Section 3 - Configuration System Check This tool is used to verify the physical connectivity on both the LAN and the WAN interfaces. The Ping Test can be used to test the status of the Internet. Virtual Cable VCT is an advanced feature that integrates a LAN Tester (VCT) cable tester on every Ethernet port on the router.

Info: Through the graphical user interface (GUI), VCT can be used to remotely diagnose and report cable faults such as opens, shorts, swaps, and impedance mismatch. This feature significantly reduces service calls and returns by allowing users to easily troubleshoot their cable connections. Ping Test: The Ping Test is used to send Ping packets to test if a computer is on the Internet. Enter the IP Address that you wish to Ping, and click Ping. D-Link DIR-300 User Manual 6 Section 3 - Configuration Schedules The Router allows the user the ability to manage schedule rules for various firewall and parental control features on this window. Once you have finished configuring the new schedule rule, click the Save Settings button at the top of the window. Name: Enter a name for the new schedule rule. Choose the desired day(s), either All Week or Day(s): Select Days. If the latter is selected, please use the checkboxes directly below to specify the individual days. All Day - 24 hrs: Tick this check box if the new schedule rule applies to the full -hour period.

Start Time/ If the new schedule rule does not apply to the full End Time: -hour period, untick the previous checkbox and then enter a specific beginning and ending time. D-Link DIR-300 User Manual Section 3 - Configuration Log Settings The system log displays chronological event log data specified by the router user. You may also save a simple text file containing the log to your computer. @@@@It will display the LAN, WAN, and Wireless information.

@@@@@@@@@@@@@@@@Last Page: View the last page of the log.

Previous: View the previous page. Next: View the next page. Clear: Clear the log. @@@@@@@@@@@@@@@@To gain access to a WEP network, you must know the key. The key is a string of characters that you create.

When using WEP, you must determine the level of encryption. The type of encryption determines the key length. 18-bit encryption requires a longer key than 64-bit encryption. @@@@The ASCII string is converted to HEX for use over the network. @@Please establish wireless connectivity before enabling encryption. @@1. @@Click on Wireless Setup on the left side. 2. Next to Security Mode, select Enable WEP Wireless Security (basic). 3.

Next to Authentication, select either Shared Key or Open. @@4. Select either 64Bit or 128Bit encryption from the drop-down menu next to WEP Encryption.

5. Next to Default Key Type, select WEP Key 1 and enter a WEP key that you create. Make sure you enter this key exactly on all your wireless devices. You may enter up to four different keys either using Hex or ASCII. Hex is recommended (letters A-F and numbers 0-9 are valid). In ASCII all numbers and letters are valid. .

6. Click Save Settings to save your settings. If you are configuring the router with a wireless adapter, you will lose connectivity until you enable WEP on your adapter and enter the same WEP key as you did on the router. D-Link DIR-300 User Manual Section - Security What is WPA? WPA, or Wi-Fi Protected Access, is a Wi-Fi standard that was designed to improve the security features of WEP (Wired Equivalent Privacy). The two 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.

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-300 User Manual 6 Section - Security Configure WPA-PSK and WPA2-PSK It is recommended to enable encryption on your wireless Router before your wireless network adapters. Please establish wireless connectivity before enabling encryption. @@1.*

@@Click on Wireless Setup on the left side. 2. Next to Security Mode, select Enable WPA Only Wireless Security (enhanced) or Enable WPA2 Only Wireless Security (enhanced). 3. Next to Cipher Mode, select TKIP, AES, or Both. 4. Next to PSK/EAP, select PSK. 5. Next to Network Key, enter a key (p a s s p h r a s e). The key is an alpha-numeric password between 8 and 63 characters long.

The password can include symbols (!?&_) and spaces. Make sure you enter this key exactly the same on all other wireless clients. 6. Click Save Settings to save your settings. If you are configuring the Router with a wireless adapter, you will lose connectivity until you enable WPA-PSK or WPA2-PSK on your adapter and enter the same passphrase as you did on the Router.*

D-Link DIR-300 User Manual Section - Security Configure WPA/WPA2-PSK It is recommended to enable encryption on your wireless Router before your wireless network adapters. Please establish wireless connectivity before enabling encryption. @@1. @@Click on Wireless Setup on the left side. 2. Next to Security Mode, select Enable WPA/WPA2 Wireless Security (enhanced). 3. Next to Cipher Mode, select TKIP, AES, or Both. 4. Next to PSK/EAP, select PSK. 5. Next to Network Key, enter a key (p a s s p h r a s e). The key is an alpha-numeric password between 8 and 63 characters long. The password can include symbols (!?&_) and spaces. Make sure you enter this key exactly the same on all other wireless clients.*

6. Click Save Settings to save your settings. If you are configuring the Router with a wireless adapter, you will lose connectivity until you enable WPA/WPA2-PSK on your adapter and enter the same passphrase as you did on the Router. D-Link DIR-300 User Manual 8 Section - Security Configure WPA, WPA2, and WPA/WPA2 (RADIUS) It is recommended to enable encryption on your wireless router before your wireless network adapters.



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Please establish wireless connectivity before enabling encryption. @@1. @@Click on Wireless Settings on the left side. 2. Next to Security Mode, select Enable WPA Only Wireless Security (enhanced), Enable WPA2 Only Wireless Security (enhanced), or Enable WPA/WPA2 Wireless Security (enhanced). 3. Next to Cipher Type, select TKIP, AES, or Auto. 4. Next to PSK/EAP, select EAP. 5. Next to RADIUS Server 1 enter the IP Address of your RADIUS server. 6. Next to Port, enter the port you are using with your RADIUS server. 1812 is the default port. 7. Next to Shared Secret, enter the security key.

8. If you have a secondary RADIUS server, enter its IP address, port, and secret key. 9. Click Save Settings to save your settings. D-Link DIR-300 User Manual Section - Connecting to a Wireless Network Connect to a Wireless Network Using Windows® XP Windows® XP users may use the built-in wireless utility (Zero Configuration Utility). The following instructions are for Service Pack users. If you are using another company's utility or Windows® 000, please refer to the user manual of your wireless adapter for help with connecting to a wireless network. Most utilities will have a "site survey" option similar to the Windows® XP utility as seen below. If you receive the Wireless Networks Detected bubble, click on the center of the bubble to access the utility. or Right-click on the wireless computer icon in your system tray (lower-right corner next to the time).

Select View Available Wireless Networks. The utility will display any available wireless networks in your area. Click on a network (displayed using the SSID) and click the Connect button. If you get a good signal but cannot access the Internet, check you TCP/IP settings for your wireless adapter. Refer to the Networking Basics section in this manual for more information. D-Link DIR-300 User Manual 60 Section - Connecting to a Wireless Network Configure WEP It is recommended to enable WEP on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the WEP key being used. 1. Open the Windows® XP Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower-right corner of screen). Select View Available Wireless Networks.

2. Highlight the wireless network (SSID) you would like to connect to and click Connect. D-Link DIR-300 User Manual 61 Section - Connecting to a Wireless Network 3. The Wireless Network Connection box will appear. Enter the same WEP key that is on your router and click Connect.

It may take 0-30 seconds to connect to the wireless network. If the connection fails, please verify that the WEP settings are correct. The WEP key must be exactly the same as on the wireless router. D-Link DIR-300 User Manual 6 Section - Connecting to a Wireless Network Configure WPA-PSK It is recommended to enable WEP on your wireless router or access point before configuring your wireless adapter. If you are joining an existing network, you will need to know the WEP key being used.

1. Open the Windows® XP Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower-right corner of screen). Select View Available Wireless Networks. 2. Highlight the wireless network (SSID) you would like to connect to and click Connect. D-Link DIR-300 User Manual 63 Section - Connecting to a Wireless Network 3. The Wireless Network Connection box will appear. Enter the WPA-PSK passphrase and click Connect. It may take 0-30 seconds to connect to the wireless network. If the connection fails, please verify that the WPA-PSK settings are correct.

The WPA-PSK passphrase must be exactly the same as on the wireless router. D-Link DIR-300 User Manual 6 Section 6 - Setting Up Wi-Fi Protection (WCN 2.0 in Windows Vista) Setting Up Wi-Fi Protection (WCN 2.0 in Windows Vista) The DIR-300 supports Wi-Fi protection, referred to as WCN 2.0 in Windows Vista. The instructions for setting this up depend on whether you are using Windows Vista to configure the Router or third party software. Initial Router Configuration for Wi-Fi Protection When you first set up the Router, Wi-Fi protection is disabled and unconfigured. To enjoy the benefits of Wi-Fi protection, the Router must be both enabled and configured. There are three basic methods to accomplish this: use Windows Vista's built-in support for WCN .0, use software provided by a third party, or use the traditional Ethernet approach.

If you are running Windows Vista, tick the Enable checkbox on the Wireless Network window. Use the Current PIN that is displayed on the Wireless Network window or choose to click the Generate New PIN button or Reset PIN to Default button. If you are using third party software to set up Wi-Fi Protection, carefully follow the directions. When you are finished, proceed to the next section to set up the newly-configured Router. D-Link DIR-300 User Manual 6 Section 6 - Setting Up Wi-Fi Protection (WCN 2.

0 in Windows Vista) Setting Up a Configured Router Once the Router has been configured, you can use the push button on the Router or third party software to invite a newcomer to join your Wi-Fi protected network. For maximum security, the software method is recommended. However, the push button method is ideal if there is no access to a GUI. If you are using the Router's Wi-Fi Security push button option, simultaneously depress the push button located on the side of the Router and the button on the client (or virtual button on the client's GUI). Next click Finish.

The Client's software will then allow a newcomer to join your secure, Wi-Fi protected network. If you are using third party software, run the appropriate Wi-Fi Protected System utility. You will be asked to either use the push button method or to manually enter the PIN. Follow the on-screen instructions. D-Link DIR-300 User Manual 66 Section - Changing the Computer Name and Joining a Workgroup Changing the Computer Name and Joining a Workgroup The following are step-by-step directions to change the computer name and join a workgroup. 1. Click on Properties. 2. Click on the Advanced system settings link. D-Link DIR-300 User Manual 6 Section - Changing the Computer Name and Joining a Workgroup 3.

Click the Computer Name tab in the System Properties window and enter a description of your computer in the textbox. When you are finished, click the Change button. 4. Go to the Computer Name/Domain Changes window and click the radio button next to the Workgroup you want to join. When you are finished, click the OK button. D-Link DIR-300 User Manual 68 Section 8 - Configuring the IP Address in Vista Configuring the IP Address in Vista The following are step-by-step directions to configure the IP address in Windows Vista. 1. Click on Properties. 2. Go to the Network and Internet window and click the appropriate Local Area Connection icon.



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3. Right-click the Local Area Connection icon and then select Properties from the drop-down menu. D-Link DIR-300 User Manual 6 Section 8 - Configuring the IP Address in Vista 4. Tick the Internet Protocol Version 4 (TCP/IPv4) checkbox in the Networking tab in the Local Area Connection Properties window.

5.

Click the "Use the following IP address" option in the General tab in the Local Area Connections Properties window and enter the desired IP address in the space offered. Then click the "Use the following DNS server addresses" option on the same tab and enter the desired DNS server information. D-Link DIR-300 User Manual 0 Section 8 - Configuring the IP Address in Vista 6. Right-click the Local Area Connection icon and then select Status from the drop-down menu. 7.

Go to the Local Area Connection Status window and click the Details button. 8. Confirm your new settings on the Network Connection Status window. When you are finished, click the Done button. D-Link DIR-300 User Manual 1 Section - Setting Up a Connection Wirelessly Setting Up a Connection or Network Wirelessly The following are step-by-step directions to set up a wireless connection. 1. Click on Set up a connection or network in the Network and Sharing Center section. 2. Go to the Set up a connection or network window and choose the Set up a wireless router or access point Set up a new wireless network for your home or business option. Click the Next button.

D-Link DIR-300 User Manual Section - Setting Up a Connection Wirelessly 3. Click the Next button on the Set up a wireless router or access point window. 4. The following window displays the system progress. 5. This window confirms that you want to create wireless network settings that are savable to a USB flash drive. D-Link DIR-300 User Manual 3 Section - Setting Up a Connection Wirelessly 6. Enter a network name on the Give your network a name window in the Set up a wireless router or access point wizard. Click the Next button. 7.

Enter a passphrase on the Help make your network more secure with a passphrase window in the Set up a wireless router or access point wizard. Click the Show advanced network security options link. 8. Select security method on the Choose advanced network security options window in the Set up a wireless router or access point wizard. Click the Next button.

D-Link DIR-300 User Manual Section - Setting Up a Connection Wirelessly 9. Once you have selected the desired security method on the Choose advanced network security options window in the Set up a wireless router or access point wizard, click the Next button. 10. Select the desired file and printer sharing option on the Choose file and printer sharing options window in the Set up a wireless router or access point wizard. Click the Next button.

11. Once you have saved your network settings to USB, use the pull-down menu on the Insert the USB flash drive into this computer window in the Set up a wireless router or access point wizard to select a destination for your network settings. Click the Next button. D-Link DIR-300 User Manual Section - Setting Up a Connection Wirelessly 12. Once you have saved your network settings to USB, the Copying settings to the USB drive window in the Set up a wireless router or access point wizard opens to indicate the system progress. 13. Once you are finished, the To add a device or computer, follow these instructions window in the Set up a wireless router or access point wizard opens. When you are finished, click the Close button. D-Link DIR-300 User Manual 6 Section 10 - Connecting to a Secured Wireless Network (WEP, WPA-PSK & WPA- Connecting to a Secured Wireless Network (WEP, WPA-PSK & WPA2-PSK) The following are step-by-step directions to set up a wireless connection. 1.

Click on Properties. 2. Click the Manage network connections link in the Network and Sharing Center window. D-Link DIR-300 User Manual Section 10 - Connecting to a Secured Wireless Network (WEP, WPA-PSK & WPA- 3. Right-click the Wireless Network Connection entry and then select Connect/Disconnect from the drop-down menu. 4. Select a network to connect to in the Select a network to connect to window in the Connect to a network wizard and then click the Connect button. 5. The following Connect to a network wizard window displays the system progress. D-Link DIR-300 User Manual 8 Section 10 - Connecting to a Secured Wireless Network (WEP, WPA-PSK & WPA- 6.

Enter the network security key or passphrase for the Router in the textbox provided in the Type the network security key or passphrase for dlink300 window in the Connect a network wizard. When you are finished, click the Connect button. 7. The following Successfully connected to dlink300 window in the Connect to a network wizard is displayed. Choose to save to the network and/or start the new connection automatically.

When you are finished, click the Close button. 8. The successful connection is displayed at the bottom of the Windows start up menu. D-Link DIR-300 User Manual Section 10 - Connecting to a Secured Wireless Network (WEP, WPA-PSK & WPA- 9. Confirm your new settings by calling up the command prompt and then entering the ipconfig command.

10. To test the new IP address, use the Ping feature of the command prompt. D-Link DIR-300 User Manual 80 Section 11 - Connecting to an Unsecured Wireless Network Connecting to an Unsecured Wireless Network The following are step-by-step directions to set up an unsecured wireless connection. 1. Click on Properties. 2. Go to the Network and Sharing Center window and click the Manage Network Connections link. D-Link DIR-300 User Manual 81 Section 11 - Connecting to an Unsecured Wireless Network 3. Right-click the Wireless Network Connection entry and then select Connect/Disconnect from the drop-down menu. 4.

Select a network to connect to in the Select a network to connect to window in the Connect to a network wizard and then click the Connect button. 5. Confirm your desire to connect anyway on the following Network Connection Status window. D-Link DIR-300 User Manual 8 Section 11 - Connecting to an Unsecured Wireless Network 6. The following Connect to a network wizard window displays the system progress. 7. The following Successfully connected to dlink300 window in the Connect to a network wizard is displayed. Choose to save to the network and/or start the new connection automatically. When you are finished, click the Close button. 8.

The successful connection is displayed at the bottom of the Windows start up menu. D-Link DIR-300 User Manual 83 Section 11 - Connecting to an Unsecured Wireless Network 9. Confirm your new settings by calling up the command prompt and then entering the ipconfig command. 10. To test the new IP address, use the Ping feature of the command prompt.

D-Link DIR-300 User Manual 8 Section 1 - Troubleshooting Troubleshooting This chapter provides solutions to problems that can occur during the installation and operation of the DIR-300.



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