



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for D-LINK DWR-921. You'll find the answers to all your questions on the D-LINK DWR-921 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 DWR-921**

**User guide D-LINK DWR-921**

**Operating instructions D-LINK DWR-921**

**Instructions for use D-LINK DWR-921**

**Instruction manual D-LINK DWR-921**

**D-Link**

Version 1.00 | 11/05/2012



**User Manual**

**4G LTE Router**

DWR-921



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**Manual abstract:**

All rights reserved. @@@@This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: • Reorient or relocate the receiving antenna. • Increase the separation between the equipment and receiver.

@@@@@@@@@In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation. D-Link DWR-921 User Manual ii Table of Contents Table of Contents Preface...

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*.83 D-Link DWR-921 User Manual iv Section 1 - Product Overview Product Overview Package Contents • D-Link DWR-921 4G LTE Router • Power adapter • Manual and Warranty on CD • (2) Antennas Note: Using a power supply with a different voltage rating than the one included with the DWR-921 will cause damage and void the warranty for this product. System Requirements • A compatible (U)SIM card with service.\* • Computer with Windows, Mac OS, or Linux-based operating system with an installed Ethernet adapter • Internet Explorer 6 or Firefox 7 or above (for configuration) \*Subject to services and service terms available from your carrier. D-Link DWR-921 User Manual 1 Section 1 - Product Overview Introduction The D-Link 4G LTE Router allows users to access worldwide mobile broadband networks.*

*Once connected, users can transfer data, stream media, and send SMS messages. Simply insert your UMTS/HSUPA SIM card, and share your 3G/4G Internet connection through a secure 802.11n wireless network or using any of the four 10/100 Ethernet ports. Keep your wireless network safe with WPA/WPA2 wireless encryption. The DWR-921 utilizes dual-active firewalls (SPI and NAT) to prevent potential attacks across the Internet, and includes MAC address filtering to control access to your network. The 4G LTE Router can be installed quickly and easily almost anywhere. This router is great for situations where an impromptu wireless network must be set up, or wherever conventional network access is unavailable. The DWR-921 can even be installed in buses, trains, or boats, allowing passengers to check e-mail or chat online while commuting. D-Link DWR-921 User Manual 2 Section 1 - Product Overview Hardware Overview Rear Panel WAN Port Power Connector LAN Ports SIM Card Slot Power Switch Port LAN Ports (RJ-45) WAN Port (RJ-45) SIM Power Power Switch D-Link DWR-921 User Manual Function Connects to a network device such as a desktop or notebook computer through an Ethernet cable. Connects to a DSL/Cable modem or router through an Ethernet cable.*

*Accepts a standard (U)SIM card for 3G/4G connectivity. Connects to the included power adapter. Turns the device on or off. 3 Section 1 - Product Overview Hardware Overview Front Panel LAN1 LAN2 WAN LAN3 LAN4 Status 3G 4G SMS WLAN Signal Strength Reset Button WPS Button Button Name Reset WPS Function Press this button with an unfolded paperclip to reset the device. Press this button to initiate a new WPS connection. Refer to “Wi-Fi Protected Setup” on page 29 for more details. D-Link DWR-921 User Manual 4 Section 1 - Product Overview Hardware Overview LEDs LED Name Signal Strength Status WAN LAN 1-4 Status 3G 4G SMS WLAN Function Blinking Red: No SIM card / signal or unverified PIN code Sways and drywall. Materials such as glass, metal, brick, insulation, concrete, and water can affect wireless performance. Large objects such as fish tanks, mirrors, file cabinets, metal doors, and aluminum studs may also have a negative effect on range. 4.*

*If you are using 2.4 GHz cordless phones, make sure that the 2.4 GHz phone base is as far away from your wireless device as possible. The base transmits a*



signal even if the phone is not in use. In some cases, cordless phones, X-10 wireless devices, and electronic equipment such as ceiling fans, fluorescent lights, and home security systems may dramatically degrade wireless connectivity.

*D-Link DWR-921 User Manual 7 Section 3 - Configuration Configuration* This section will show you how to configure your new D-Link mobile 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 rAfter entering the requested information,click Next to continue. Note: If you are not sure what connection type to use or what settings to enter, check with your Internet service provider. This completes the Internet Connection Setup Wizard. Click Connect to save your changes and reboot the router.

*D-Link DWR-921 User Manual 11 Section 3 - Configuration Manual Internet Connection Setup* To set up your Internet connection manually, click *Manual Internet Connection Setup*. *Internet Connection* Several different Internet Connection types can be selected depending upon the specifications of your Internet Service Provider (ISP).



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You can also set up the Auto-Backup feature, which allows you to use a 3G/4G connection for your Internet connection if your main connection fails. My Internet Select the Internet Connection type specified by your Internet Connection is: Service Provider (ISP). The corresponding settings will be displayed below. Please see the following pages for details on how to configure these different connection types. Host Name: If the Internet Host you are using for the Auto-Backup feature requires you to enter a Host Name, enter it here. In most cases, you may leave this blank. Auto-Backup: When this box is checked, the router will switch over to a 3G/4G connection if the Internet Host (specified below) is unreachable. Internet Host: Enter an IP address for the router to use to check if it is connected to the Internet.

If Auto-Backup is enabled and the IP address cannot be reached, the router will switch over to a 3G/4G connection. D-Link DWR-921 User Manual 12 Section 3 - Configuration Static IP Choose this Internet connection if your ISP assigns you a static IP address. @@IP Address: Enter the IP address assigned to your network connection. Subnet Mask: Enter the subnet mask. Default Gateway: Enter the default gateway. Primary DNS Server: Enter the primary DNS server. Secondary DNS Server: Enter the secondary DNS server. MTU: You may need to change the Maximum Transmission Unit (MTU) for optimal performance. The default value is 1500. 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 DWR-921 User Manual 13 Section 3 - Configuration Dynamic IP (DHCP) This section will help you to obtain IP Address information automatically from your ISP. Use this option if your ISP didn't provide you with IP Address information and/or a username and password. @@Primary DNS Server: (Optional) Fill in with IP address of primary DNS server. Secondary DNS Server: (Optional) Fill in with IP address of secondary DNS server. MTU (Maximum You may need to change the Maximum Transmission Unit Transmission Unit): (MTU) for optimal performance. The default value is 1500. 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 PC. Auto-reconnect: This feature enables this product to renew the WAN IP address automatically when the lease time has expired. D-Link DWR-921 User Manual 14 Section 3 - Configuration PPPoE Choose this Internet connection if your ISP provides you with a PPPoE account. @@Username: The username/account name that your ISP provides to you for PPPoE dial-up. Password: Password that your ISP provides to you for PPPoE dial-up. Verify Password: Fill in with the same password in Password field. Service Name: (Optional) Fill in if provided by your ISP. IP Address: Fill in if provided by your ISP. If not, keep the default value. Primary DNS Server: (Optional) Fill in if provided by your ISP.

If not, keep the default value. Secondary DNS Server: (Optional) Fill in if provided by your ISP. If not, keep the default value. MAC Address: MAC address of WAN interface. You can also copy MAC address of your PC to its WAN interface by clicking the Clone button. Maximum Idle Time: The amount of time of inactivity before disconnecting an established PPPoE session. Set it to zero or enable Autoreconnect will disable this feature. D-Link DWR-921 User Manual 15 Section 3 - Configuration Maximum Transmission The default setting of PPPoE is 1492. Unit (MTU): Auto-reconnect: The device will automatically reconnect to your PPPoE connection automatically. D-Link DWR-921 User Manual 16 Section 3 - Configuration PPTP Choose this Internet connection if your ISP provides you with a PPTP account.

@@Address Mode: Choose Static IP only if your ISP assigns you an IP address. Otherwise, please choose Dynamic IP. PPTP IP Address: Enter the information provided by your ISP. (Only applicable for Static IP PPTP.) PPTP Subnet Mask: Enter the information provided by your ISP. (Only applicable for Static IP PPTP.) PPTP Gateway IP Address: Enter the information provided by your ISP. (Only applicable for Static IP PPTP.) PPTP Server IP Address: IP address of PPTP server. Username: User/account name that your ISP provides to you for PPTP dialup. Password: Password that your ISP provides to you for PPTP dial-up. Verify Password: Re-enter your password for verification. Reconnect Mode: Choose Always-on when you want to establish PPTP connection all the time. If you choose Connect-on-demand, the device will establish a PPTP connection when local users want to surf Internet, and disconnect if there is no traffic after the time period defined by the Maximum Idle Time setting. D-Link DWR-921 User Manual 17 Section 3 - Configuration Maximum Idle Time: The time of no activity to disconnect your PPTP session. Set it to zero or choose Always-on to disable this feature. D-Link DWR-921 User Manual 18 Section 3 - Configuration L2TP Choose this Internet connection if your ISP provides you with an L2TP account. @@Address Mode: Choose Static IP only if your ISP assigns you an IP address. Otherwise, please choose Dynamic IP. L2TP IP Address: Enter the information provided by your ISP.

(Only applicable for Static IP L2TP.) L2TP Subnet Mask: Enter the information provided by your ISP. (Only applicable for Static IP L2TP.) L2TP Gateway IP Address: Enter the information provided by your ISP. (Only applicable for Static IP L2TP.) L2TP Server IP Address: IP address of L2TP server. Username: User/account name that your ISP provides to you for L2TP dialup. Password: Password that your ISP provides to you for L2TP dial-up. Verify Password: Fill in with the same password in Password field. Reconnect Mode: Choose Always-on when you want to establish L2TP connection all the time. Choose Connect-on-demand the device will establish L2TP connection when local users want to surf Internet, and disconnect if no traffic after time period of Maximum Idle Time. Maximum Idle Time: The time of no activity to disconnect your L2TP session. Set it to 0 or choose Always-on to disable this feature. D-Link DWR-921 User Manual 19 Section 3 - Configuration 3G/4G Choose this Internet connection if you already use a SIM card for 3G/4G Internet service from your mobile service company. The fields here may not be necessary for your connection.

The information on this page should only be used if required by your service provider. @@Prefer Service Type: Choose whether the DWR-921 should only use 4G networks, 3G networks, or use Auto Mode to automatically select a network.



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*Account/Profile Name: Fill in a name to identify the following 3G/4G configuration. Country/Telecom: Select your country and telecom to automatically fill in some of the required settings. Username: (Optional) Fill in only if requested by ISP.*

*Password: (Optional) Fill in only if requested by ISP. Dialed Number: Enter the number to be dialed. Authentication: Select PAP, CHAP, or Auto detection. The default authentication method is Auto. APN: (Optional) Enter the APN information. Pin Code: Enter the PIN associated with your SIM card. Reconnect Mode: Select Auto or Manual to decide whether the router should reconnect to your 3G/4G network automatically or manually. Maximum Idle Time: Set the maximum time your connection can be idle before disconnecting. Set it to 0 or choose Auto in Reconnect Mode to disable this feature. D-Link DWR-921 User Manual 20 Section 3 - Configuration Primary DNS Server: (Optional) Fill in if provided by your ISP.*

*If not, keep the default value. Secondary DNS Server: (Optional) Fill in if provided by your ISP. If not, keep the default value. Keep Alive: Select Disable or Use Ping depending on the settings required by your ISP. If you select Use Ping, set the ping interval and the IP address to ping. Bridge Ethernet Ports: Activate this feature to use the Ethernet WAN port as an additional LAN port. Roaming: Enabling this option will allow you to connect when roaming. Note: Roaming connections may incur additional fees from your service provider. DNS Check: Enabling this will send periodic DNS checks to make sure your connection is alive, and if the check fails, it will restart your 3G connection to resume connectivity. NAT Disable: Enabling this option will disable the NAT function of the DWR921, allowing it to act as a link for your devices to your Internet connection, but without routing functions.*

*D-Link DWR-921 User Manual 21 Section 3 - Configuration Wireless Settings This section will help you to manually configure the wireless settings of your router. Please note that changes made on this section may also need to be duplicated on your wireless devices and clients. The Wireless Settings page allows you to configure how your router connects to the Internet. There are several ways to set up your wireless connection. You can click on the Wireless Connection Setup Wizard button to start a wizard that will guide you through setting up your wireless settings.*

*If you want to manually configure your settings, click the Manual Wireless Connection Setup button and skip to "Manual Wireless Connection Setup" on page 24. You can also set up a wireless connection to a device automatically, or configure your router automatically through Windows by clicking the Wi-Fi Protected Setup button. This is described in "Wi-Fi Protected Setup (WPS)" on page 29. Wireless Connection Setup Wizard This wizard will guide you through a step-by-step process to configure your D-Link router's wireless. Click Next to continue.*

*Note: While using the wizard, you can click Prev to go back to the previous page or you can click Cancel to close the wizard. D-Link DWR-921 User Manual 22 Section 3 - Configuration Enter a name for your wireless network, then click Next to continue. Select a level of wireless security to use, then click Next to continue. If you chose BEST or BETTER, select whether to use TKIP or AES encryption, then enter a password to use for your wireless network. It is recommended that you use AES if your wireless computers and devices support it, as it is more secure. Click Next to continue. If you chose GOOD, select whether to use a HEX or ASCII password, then enter a password to use for your wireless network. If you choose HEX, you will need to enter a 10 or 26 digit password using only hex characters (0-9, A-F). If you choose ASCII, the password can be up to 5 or 13 alphanumeric characters. Click Next to continue.*

*This completes the Wireless Connection Setup Wizard. Click Save to save your changes and reboot the router. D-Link DWR-921 User Manual 23 Section 3 - Configuration Manual Wireless Connection Setup To set up your wireless connection manually, click Manual Wireless Connection Setup. D-Link DWR-921 User Manual 24 Section 3 - Configuration Wireless Settings This page lets you set up your wireless network and choose a wireless security mode. @@Enable Wireless: Select this checkbox to enable wireless access. When you set this option, the following parameters take effect. Wireless Network Name: Also known as the SSID (Service Set Identifier), this is the name of your Wireless Local Area Network (WLAN). Enter a name using up to 32 alphanumeric characters. The SSID is casesensitive. 802.*

*11 Mode: B/G mixed: Enable this mode if your network contains a mix of 802.11b and 802.11g devices. N only: Enable this mode if your network only has 802.11n devices.*

*B/G/N mixed: Enable this mode if you have a mix of 802.11n, 802.11g, and 802.11b clients. Auto Channel Scan: Enabling this feature will allow the router to scan for the best channel to use automatically.*

*Wireless Channel: A wireless network uses specific channels in the wireless spectrum to handle communication between clients. Some channels in your area may experience interference from other electronic devices. Choose the clearest channel to help optimize the performance and coverage of your wireless network, or enable Auto Channel Scan for the router to automatically select the best channel. Visibility Status: This setting determines whether the SSID will be Visible or Invisible to wireless clients looking for wireless networks. Setting this to Invisible can increase the security of your network by hiding it, but clients will need to manually enter the SSID of your network to connect. D-Link DWR-921 User Manual 25 Section 3 - Configuration Wireless Security Mode You can choose from several different wireless security modes. After selecting a mode, the settings for that mode will appear. @@Security Mode: You can choose from 4 different security modes. •None: No security will be used. This setting is not recommended.*

*•WEP: WEP encryption will be used. This setting is only recommended if your wireless devices cannot support WPA or WPA2. •WPA-Personal: WPA-PSK encryption will be used. This setting is recommended for most users. •WPA-Enterprise: WPA-EAP encryption will be used. This setting is only recommended if you have a RADIUS authentication server. Otherwise, WPA-Personal should be used. D-Link DWR-921 User Manual 26 Section 3 - Configuration If you choose WEP, the following options will appear: Authentication: Select whether to use Open or Shared authentication. WEP Encryption: Select whether to use 64-bit or 128-bit encryption. Default WEP Key: Select which WEP key (1-4) to use as the default key.*

*This will also change the WEP Key text box to that WEP key for you to configure(1-4). WEP Key: Set the WEP key/password for your wireless network. Based on whether you are using 64 or 128-bit encryption, and whether you are using a HEX or ASCII key, you will need to enter different numbers of characters for your key, as indicated below the WEP Key text box.*



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ASCII keys may use letters and numbers only, and HEX keys may use numbers 0-9 and letters A-F only. If you choose WPA-Personal, the following options will appear: WPA Mode: Select whether to use WPA2 only or WPA only.

WPA2 only is the most secure, provided that all of your clients can support it. Cipher Type: Select whether to use the TKIP or AES cipher. The AES cipher is the most secure, provided that all of your clients can support it. Network Key: Enter the key/password you want to use for your wireless network. The key must be 8 to 63 characters long, and may only contain letters and numbers.

D-Link DWR-921 User Manual 27 Section 3 - Configuration If you choose WPA-Enterprise, the following options will appear: WPA Mode: Select whether to use WPA2 only or WPA only. WPA2 only is the most secure, provided that all of your clients can support it. Cipher Type: Select whether to use the TKIP or AES cipher. The AES cipher is the most secure, provided that all of your clients can support it. RADIUS Server IP Enter the IP address of your RADIUS server. Address: RADIUS Server Port: Enter the port used for your RADIUS server. RADIUS Server Shared Enter the Shared Secret/password for your RADIUS server. Secret: D-Link DWR-921 User Manual 28 Section 3 - Configuration Wi-Fi Protected Setup (WPS) To open the Wi-Fi Protected Setup page, click Wi-Fi Protected Setup. The Wi-Fi Protected Setup page allows you to create a wireless connection between your router and a device automatically by simply pushing a button or entering a PIN code. You can also use Windows 7 to do initial configuration of your router by using the Connect to a network wizard in Windows, and entering the WPS PIN/AP PIN of the router when prompted.

D-Link DWR-921 User Manual 29 Section 3 - Configuration WPS: Select whether you would like to enable or disable WPS features. AP PIN (also known as If you use Windows 7's Connect to a network wizard to do WPS PIN): initial configuration of the router, you will need to enter the WPS PIN/AP PIN into the wizard when prompted. The factory default WPS PIN/AP PIN is printed on a label located on the bottom of the router. You can click the Generate New PIN button to change it to a randomly generated PIN. Config Mode: Select whether the WPS config mode should be set to Registrar or Enrollee. In most cases, this should be set to Registrar so that you can use WPS to connect new wireless clients. Config Status: If this is set to CONFIGURED, the router will be marked as "already configured" to computers that try to use WPS configuration, such as Windows 7's Connect to a network wizard. You can click the Release button to change the status to UNCONFIGURED to allow for WPS configuration of the router. If this is set to UNCONFIGURED, you can click the Set button to change the status to CONFIGURED to block WPS configuration of the router. Config Method: This lets you choose whether to use the Push Button connection method (PBC) or PIN method to connect to a wireless client when the Trigger button is clicked.

If you choose the PIN method, you will need to enter an 8-digit PIN number that the wireless client need to use to connect to your router. WPS Status: This will show the current WPS connection process status. Click the Trigger button to initiate a WPS connection. D-Link DWR-921 User Manual 30 Section 3 - Configuration Network Settings This section will help you to change the internal network settings of your router and to configure the DHCP Server settings.

Router Settings Router IP Address: Enter the IP address you want to use for the router.

The default IP address is 192.168.0.1. If you change the IP address, you will need to enter the new IP address in your browser to get into the configuration utility.

Default Subnet Mask: Enter the Subnet Mask of the router. The default subnet mask is 255.255.255.0. Local Domain Name: Enter the local domain name for your network. D-Link DWR-921 User Manual 31 Section 3 - Configuration DHCP Server Settings The DWR-921 has a built-in DHCP (Dynamic Host Control Protocol) server. The DHCP server assigns IP addresses to devices on the network that request them. By default, the DHCP Server is enabled on the device. The DHCP address pool contains a range of IP addresses, which is automatically assigned to the clients on the network.

@@Enable DHCP Server: Select this box to enable the DHCP server on your router. DHCP IP Address Range: Enter the range of IPs for the DHCP server to use to assign IP addresses to devices on your network. DHCP Lease Time: Enter lease time for IP address assignments. Primary DNS IP Address: Enter the primary DNS IP Address that will be assigned to DHCP clients. Secondary DNS IP Address: Enter the secondary DNS IP Address that will be assigned to Address:

DHCP clients. Primary WINS IP Address: Enter the primary WINS IP Address that will be assigned to DHCP clients. Secondary WINS IP Address: Enter the secondary WINS IP Address that will be assigned to Address: DHCP clients. D-Link DWR-921 User Manual 32 Section 3 - Configuration Message Service If your ISP provides SMS service, you can check and send messages from this page. SMS Inbox: Click this button to view SMS messages that you have received.

Create Message: Click this button to create a new message to send.

SMS Inbox This page shows all messages that are stored on the SIM card. Select a message to display its contents in the SMS window. After you read it, you can delete it, or reply to the sender. Click the Refresh button to update the list. Delete: Deletes the selected SMS message.

Reply: Opens a Create Message window to reply to the selected SMS message. Forward: Opens a Create Message windows to forward the selected SMS message to another recipient. Refresh: Click this button to check for new messages. D-Link DWR-921 User Manual 33 Section 3 - Configuration Create

Message This page allows you to send an SMS to your contacts. Just fill in the phone number of the recipient, and type the content of message.

Then push the "Send Message" button to send out this message. If you would like to add more than one recipient, you must put a semicolon (;) between each of the phone numbers. Receiver: Type the phone number of the recipient. Text Message: Type the message that you would like to send. Send Message: Click this button to send the message. Cancel: Click this button to clear the message. D-Link DWR-921 User Manual 34 Section 3 - Configuration Advanced The

ADVANCED pages allow you to configure the more advanced settings of the router, such as Virtual Server(Port Forwarding), MAC and URL filtering, and advanced wireless and network settings. To view the Advanced configuration pages, click on ADVANCED at the top of the screen. Virtual Server The device can be configured as a virtual server so that users can access services such as Web or FTP via the public (WAN) IP address of the router. You can also allow the settings to run on a specified schedule.

The Virtual Server function is also known as Port Forwarding.



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**Well-known Services:** This contains a list of pre-defined services. **ID:** Specifies which rule to copy the selected Well known service settings to when you click the Copy to button. **Service Ports:** Enter the public port(s) you want to open. **Enable:** Tick the checkbox to enable the specified rule. **Schedule Rule #:** Specify the schedule rule number. **Popular Applications:** Select from a list of popular applications.

**APPLICATION RULES ID:** This identifies the rule. **Trigger:** Enter the port to listen to in order to trigger the rule. **QOS ENGINE SETUP Enable QOS Packet Filter:** Select this box to enable the QoS feature.

**Upstream Bandwidth:** Specify the maximum upstream bandwidth here (e.g. 400 kbps). **QOS RULES ID:** This identifies the rule. **Enable:** Tick the checkbox to enable the specified rule.

**Use Rule #:** Specify the schedule rule number. **MAC FILTERING RULES ID:** This identifies the rule. **MAC Address:** Specify the MAC Address of the computer to be filtered. **IP Address:** Specify the last section of the IP address. **Wake On LAN:** Click Trigger to configure Wake On LAN.

**URL Filtering:** Select this box to enable URL Filtering. **URL FILTERING RULES ID:** This identifies the rule. **URL:** Enter URL that you would like to block. All URLs that begin with this URL will be blocked. **The outbound filter applies to all outbound packets.** **OUTBOUND FILTER RULES LIST Here,** you can select whether to Allow or Deny all outgoing traffic except for traffic that matches the listed rules. **ID:** This identifies the rule. **Source IP : Ports:** Specify the local IP address and then specify the port after the colon. **Destination IP : Ports:** Specify the remote IP address and then the port after the colon. **Enable:** Tick the checkbox to enable the specified rule.

**Schedule Rule #:** Specify the schedule rule number. **Previous Page:** Go back to the previous filter page. **Next Page:** Advance to the next filter page. **D-Link DWR-921 User Manual 41 Section 3 - Configuration Inbound Filter** Inbound Filter enables you to control what packets are allowed to come in to your network from the Internet. The inbound filter only applies to packets that are destined for Virtual Servers or DMZ hosts. **INBOUND FILTER SETTING Inbound Filter:** Select this box to Enable the filter. **INBOUND FILTER RULES LIST Here,** you can select whether to Allow or Deny all incoming traffic except for traffic that matches the listed rules. **ID:** This identifies the rule. **Source IP : Ports:** Specify the local IP address and then specify the port after the colon. **Destination IP : Ports:** Specify the remote IP address and then the port after the colon.

**Enable:** Tick the checkbox to enable the specified rule. **Schedule Rule #:** Specify the schedule rule number. **Previous Page:** Go back to the previous filter page.

**Next Page:** Advance to the next filter page. **D-Link DWR-921 User Manual 42 Section 3 - Configuration SNMP** SNMP (Simple Network Management Protocol) is a widely used network monitoring and control protocol that reports activity on each network device to the administrator of the network. SNMP can be used to monitor traffic and statistics of the DWR-921. The DWR-921 supports SNMP v1 and v2c. **SNMP Local:** Select whether to Enable or Disable local SNMP administration. **SNMP Remote:** Select whether to Enable or Disable remote SNMP administration. **Get Community:** Enter the password public in this field to allow read-only access to network administration using SNMP.

You can view the network, but no configuration is possible with this setting. **Set Community:** Enter the password private in this field to enable read/write access to the network using SNMP. **IP 1, IP 2, IP 3, IP 4:** Enter up to 4 IP addresses to use as trap targets for your network. **SNMP Version:** Select the SNMP version of your system. **WAN Access IP Address** If you want to limit remote access SNMP access, enter the IP address of the remote computer you will use to access this device; all other IP addresses will be denied remote SNMP access. **D-Link DWR-921 User Manual 43 Section 3 - Configuration Routing** The Routing page allows you to specify custom routes that determine how data is moved around your network. **RIP SETTING RIP:** Select this box to enable routing, then select which routing protocol to use: **RIPv1:** Protocol in which the IP address is routed through the internet. **RIPv2:** Enhanced version of RIPv1 with added features such as Authentication, Routing Domain, Next Hop Forwarding, and Subnet-mask Exchange. **ROUTING RULES ID:** This identifies the rule. **Destination:** Enter in the IP of the specified network that you want to access using the static route.

**Subnet Mask:** Enter in the subnet mask to be used for the specified network. **Gateway:** Enter in the gateway IP address for the specified network. **Enable:** Select this box to enable the rule. **Beacon Interval:** Specify a value for the beacon interval. **100** is the default setting and is recommended. **Transmit Power:** Set the transmit power of the antennas. **2346** is the default setting. **DTIM Interval:** Set the interval for DTIM. **The default interval is 3.** **WMM Capable:** WMM (Wi-Fi Multimedia) is a QoS (Quality of Service) system for your wireless network. Enable this option to improve the quality of video and voice applications for your wireless clients. **TX Rates:** Select the basic transfer rates based on the speed of wireless adapters on your wireless network. It is strongly recommended to keep this setting to Auto. **D-Link DWR-921 User Manual 45 Section 3 - Configuration Advanced Network** Advanced Network contains settings which can change the way the router handles certain types of traffic. We recommend that you do not change any of these settings unless you are already familiar with them or have been instructed to make the change by one of our support personnel.

**Enable UPnP:** Tick this checkbox to use the Universal Plug and Play (UPnP™) feature. UPNP provides compatibility with various networking equipment, software, and peripherals. **Enable WAN Ping** Select the box to allow the WAN port to be "pinged." **Blocking Respond:** WAN pings may provide some extra security from hackers. **D-Link DWR-921 User Manual 46 Section 3 - Configuration Tools** The TOOLS pages allow you to adjust various system settings for your router, such as the system time, firmware, and custom schedules.

To view the Tools pages, click on TOOLS at the top of the screen. **Admin** The Admin page allows you to change the Administrator password and enable Remote Management. The admin has read/write access while users only have read-only access. Only the admin has the ability to change both admin and user account passwords. **ADMINISTRATOR Admin Password:** Enter and confirm the password that the admin account will use to access the router's management interface. **REMOTE MANAGEMENT Remote Management:** Tick this check box to enable remote management. Remote management allows the DWR-921 to be configured over the Internet through a web browser. A username and password will still be required to access the Web-Management interface.



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*IP Allowed to Access: Enter the Internet IP address of the PC that has access to the Broadband Router. If you enter an asterisk (\*) in this field, then anyone will be able to access the Router.*

*Adding an asterisk (\*) into this field could present a security risk and is not recommended. Port: This is the port number used to access the router. 8080 is the port usually used for the Web-Management interface. D-Link DWR-921 User Manual 47 Section 3 - Configuration Time This section will help you set the time zone that you are in and an NTP (Network Time Protocol) server to use. Daylight Saving can also be configured to adjust the time when needed. @@TIME AND DATE CONFIGURATION Time Zone: Select the appropriate Time Zone from the drop-down box. Enable Daylight Saving: Tick this checkbox to allow for daylight saving adjustments. Use the dropdown boxes to specify a start date and end date for daylight saving time adjustments. AUTOMATIC TIME AND DATE CONFIGURATION Tick the Automatically synchronize with Internet time server checkbox to allow the router to use an NTP server to update the router's internal clock. NTP Server Used: Enter an NTP server to use for time synchronization, or use the dropdown box to select one.*

*Click the Update Now button to synchronize the time with the NTP server. D-Link DWR-921 User Manual 48 Section 3 - Configuration Syslog The DWR-921 keeps a running log of events and activities occurring on the router. You may send these logs to a syslog server on your network. @@Enable Logging to Syslog Tick this checkbox to send the router logs to a syslog server. Server: Syslog Server IP Address: Enter the IP address of the syslog server that the router will send the logs to.*

*D-Link DWR-921 User Manual 49 Section 3 - Configuration E-mail Settings E-mail Settings allow you to send the system log files, router alert messages, and firmware update notifications to an e-mail address. Enable E-mail When this option is enabled, router activity logs will be Notification: e-mailed to the specified e-mail address. SMTP Sever IP and Port: Enter the SMTP server IP address the router will use to send e-mails. Enter the complete IP address followed by a colon(:) and the port number. (e.*

*g. 123.123.123.1:25). SMTP Username: Enter the username for the SMTP account. SMTP Password: Enter the password for the SMTP account. Send E-mail Alert to: Enter the e-mail address where you would like the router to send e-mails to. E-mail Subject: Enter a subject for the e-mail. E-mail Log Now: Click this button to send the current logs to the specified e-mail address.*

*D-Link DWR-921 User Manual 50 Section 3 - Configuration System Here, you can save the current system settings to a local hard drive. @@Save Settings To Local Use this option to save your current router configuration Hard Drive settings to a file. Click Save to open a file dialog, and then select a location and file name for the settings. Load Settings From Local Use this option to load previously saved router configuration Hard Drive: settings. Click Browse... and select the saved file and then click the Upload Settings button to upload the settings to the router. Restore To Factory This option will restore all settings back to their defaults. Any Default Settings: settings that have not been backed up will be lost, including any rules that you have created.*

*D-Link DWR-921 User Manual 51 Section 3 - Configuration Firmware Here, you can upgrade the firmware of your router. Make sure the firmware you want to use is on the local hard drive of the computer and then click Browse to upload the file. You can check for and download firmware updates at the D-Link support site at <http://support.dlink.com>.*

*@@Current Firmware Version: Displays your current firmware's version. Current Firmware Date: Displays your current firmware's release date. Upload: After you have downloaded a new firmware, click Browse to locate the firmware on your computer, then click Upload to start the firmware upgrade. Warning: You must use a wired computer to upload the firmware file; do not use a wireless computer. During the upgrade process, do not power off your computer or router, and do not refresh the browser window until the upgrade is complete.*

*Accept Unofficial If the firmware you want to install is not an official D-Link Firmware: release, you will need to check this checkbox. Warning: Unofficial firmwares are not supported, and may cause damage to your device. Use of unofficial firmwares is at your own risk. D-Link DWR-921 User Manual 52 Section 3 - Configuration Dynamic DNS The DDNS feature allows you to host a server (Web, FTP, or Game Server) using a domain name that you have purchased (such as [www.exampledomain.com](http://www.exampledomain.com)) with your dynamically assigned IP address. You can use one of the listed DDNS service, or you can sign up for D-Link's free DDNS service at [www.dlinkddns.com](http://www.dlinkddns.com). @@DDNS: Tick this checkbox to enable the DDNS feature.*

*Provider: Select a DDNS service provider to use. Host Name: Enter the Host Name that you registered with your DDNS service provider. Username / E-mail: Enter the Username for your DDNS account. Password / Key: Enter the Password for your DDNS account. D-Link DWR-921 User Manual 53 Section 3 - Configuration System Check This useful diagnostic utility can be used to check if a computer is connected to the network. It sends ping packets and listens for responses from the specific host. @@Host Name or IP Address: Enter a host name or the IP address that you want to ping and click the Ping button. The results of the ping attempt will be displayed in the PING RESULT section below. D-Link DWR-921 User Manual 54 Section 3 - Configuration Schedules This section allows you to manage schedule rules for various firewall and parental control features. @@Enable Schedule: Tick this checkbox to enable schedules. Edit: Click this button to edit the selected rule. (see below) Delete: Click this button to delete the selected rule. Previous Page: Click this button to go to the previous page of rules. Next Page: Click this button to go to the next page of rules. Click this button to specify the start time, end time, and name of the rule. Add New Rule...: Click this button to create a new rule. (see below) Name of Rule #: Enter a name for your new schedule. Policy: Select Activate or Inactivate to decide whether features that use the schedule should be active or inactive except during the times specified.*

*Week Day: Select a day of the week for the start time and end time. Start Time (hh:mm): Enter the time at which you would like the schedule to become active. End Time (hh:mm): Select the time at which you would like the schedule to become inactive. After making your changes, click Save Settings to save the schedule. D-Link DWR-921 User Manual 55 Section 3 - Configuration Status The STATUS pages allow you to see the current status of the router for various categories, including WAN, 3G, network, and wireless. To view the Status pages, click on STATUS at the top of the screen.*



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*Device Info* All of your Internet and network connection details are displayed on this page. The firmware version is also displayed here. *General*: Displays the current time and firmware version. *WAN*: Displays the WAN connection details of the router.

*3G Card*: Displays the 3G connection details of the router. *LAN*: Displays the LAN connection details of the router. *Wireless LAN*: Displays the wireless LAN connection details of the router. *LAN Computers*: Displays the list of clients connected to the router. *D-Link DWR-921 User Manual 56 Section 3 - Configuration Log* Here, you can view and download the system log. *Previous*: Click this button to go to the previous page of the log. *Next*: Click this button to go to the next page of the log. *First Page*: Click this button to skip to the first page of the log. *Last Page*: Click this button to skip to the last page of the log.

*Refresh*: Click this button to refresh the system log. *Download*: Click this button to download the current system log to your computer.

*Clear Logs*: Click this button to clear the system log. *Link To Log Settings*: Click this button for a link that goes to the Log Settings page. *D-Link DWR-921 User Manual 57 Section 3 - Configuration Statistics* Here you can view the packets transmitted and received by your router for both the WAN and LAN ports. The traffic counter will reset if the device is rebooted. Click the Refresh button to refresh the WAN statistics.

*D-Link DWR-921 User Manual 58 Section 3 - Configuration Wireless* This table displays a list of wireless clients that are connected to your wireless router. Click Refresh to refresh the list. *D-Link DWR-921 User Manual 59 Section 3 - Configuration Support* The SUPPORT pages provide help information for each section of the device's interface. To view the Support pages, click on SUPPORT at the top of the screen. *D-Link DWR-921 User Manual 60 Section 4 - Connecting to a Wireless Network* Connecting to a Wireless Network Using Windows 7 Windows 7 users may use the built-in wireless utility to connect to a wireless network.

If you are using another company's utility or Windows 2000, 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 7 utility as seen below. If you receive the Wireless Networks Detected bubble, click on the center of the bubble to access the utility. You can also click on the wireless icon in your system tray (lower-right corner). The utility will display any available wireless networks in your area. *Wireless D-Link DWR-921 User Manual 61 Section 4 - Connecting to a Wireless Network* Highlight the wireless network (SSID) you would like to connect to and click the Connect button. If you get a good signal but cannot access the Internet, check your TCP/IP settings for your wireless adapter. Refer to "Networking Basics" on page 81 for more information. *D-Link DWR-921 User Manual 62 Section 4 - Connecting to a Wireless Network* Configuring Wireless Security It is recommended to enable wireless security (WPA/WPA2) 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 security key or passphrase being used.

1. Click on the wireless icon in your system tray (lower-right corner). *Wireless 2*. The utility will display any available wireless networks in your area. *D-Link DWR-921 User Manual 63 Section 4 - Connecting to a Wireless Network 3*. Highlight the wireless network (SSID) you would like to connect to and click the Connect button. 4. The following window appears while your computer tries to connect to the router. *D-Link DWR-921 User Manual 64 Section 4 - Connecting to a Wireless Network 5*. Enter the same security key or passphrase that is on your router and click Connect.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router. *D-Link DWR-921 User Manual 65 Section 4 - Connecting to a Wireless Network Using Windows Vista™* Windows® Vista™ users may use the built-in wireless utility. If you are using another company's utility or Windows® 2000, 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® Vista™ 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 Connect to a network. 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 the TCP/IP settings for your wireless adapter. Refer to "Networking Basics" on page 81 for more information. *D-Link DWR-921 User Manual 66 Section 4 - Connecting to a Wireless Network* Configuring Wireless Security It is recommended to enable wireless security (WEP/WPA/WPA2) 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 security key or passphrase being used. 1. Open the Windows® Vista™ Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower right corner of screen). Select Connect to a network. 2. Highlight the wireless network (SSID) you would like to connect to and click Connect.

*D-Link DWR-921 User Manual 67 Section 4 - Connecting to a Wireless Network 3*. Enter the same security key or passphrase that is on your router and click Connect. It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router. *D-Link DWR-921 User Manual 68 Section 4 - 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 2 users. If you are using another company's utility or Windows® 2000, 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.



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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 the TCP/IP settings for your wireless adapter.

Refer to "Networking Basics" on page 81 for more information. D-Link DWR-921 User Manual 69 Section 4 - 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 DWR-921 User Manual 70 Section 4 - 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 20-30 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 DWR-921 User Manual 71 Section 4 - Connecting to a Wireless Network Configure WPA-PSK It is recommended to enable WPA 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 WPA 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 DWR-921 User Manual 72 Section 4 - Connecting to a Wireless Network 3. The Wireless Network Connection box will appear. Enter the WPA-PSK passphrase and click Connect. It may take 20-30 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 DWR-921 User Manual 73 Section 5 - Troubleshooting Troubleshooting This chapter provides solutions to problems that can occur during the installation and operation of the DWR-921. Read the following descriptions if you are having problems. 1.

Why can't I access the web-based configuration utility? When entering the IP address of the D-Link router (192.168.0.1 for example), you are not connecting to a website on the Internet or have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself.

Your computer must be on the same IP subnet to connect to the web-based utility. • Make sure you have an updated Java-enabled web browser. We recommend the following: • Internet Explorer 6 or higher • Netscape 8 or higher • Mozilla 1.7.12 (5.0) or higher • Opera 8.5 or higher • Safari 1.2 or higher (with Java 1.3.1 or higher) • Camino 0.

8.4 or higher • Firefox 1.5 or higher • Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on. • Disable any internet security software running on the computer. Software firewalls such as Zone Alarm, Black Ice, Sygate, Norton Personal Firewall, and Windows® XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it. D-Link DWR-921 User Manual 74 Section 5 - Troubleshooting • Configure your Internet settings: • Go to Start > Settings > Control Panel. Double-click the Internet Options Icon.

From the Security tab, click the button to restore the settings to their defaults. • Click the Connection tab and set the dial-up option to Never Dial a Connection. Click the LAN Settings button. Make sure nothing is checked. Click OK.

• Go to the Advanced tab and click the button to restore these settings to their defaults. Click OK three times. • Close your web browser (if open) and open it. • Access the web management. Open your web browser and enter the IP address of your D-Link router in the address bar.

This should open the login page for your the web management. • If you still cannot access the configuration, unplug the power to the router for 10 seconds and plug back in. Wait about 30 seconds and try accessing the configuration. If you have multiple computers, try connecting using a different computer. 2. What can I do if I forgot my password? If you forgot your password, you must reset your router. Please note that this process will change all your settings back to the factory defaults. To reset the router, locate the reset button (hole) on the rear panel of the unit. With the router powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the router will go through its reboot process.

Wait about 30 seconds to access the router. The default IP address is 192.168.0.1, and the default username is admin and the password should be left blank. D-Link DWR-921 User Manual 75 Appendix A - Wireless Basics Wireless Basics D-Link wireless products are based on industry standards to provide easy-to-use and compatible high-speed wireless connectivity within your home, business or public access wireless networks. Strictly adhering to the IEEE standard, the D-Link wireless family of products will allow you to securely access the data you want, when and where you want it. You will be able to enjoy the freedom that wireless networking delivers. A wireless local area network (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. Wireless LANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people to work and communicate more efficiently. Increased mobility and the absence of cabling and other fixed infrastructure have proven to be beneficial for many users. Wireless users can use the same applications they use on a wired network. Wireless adapter cards used on laptop and desktop systems support the same protocols as Ethernet adapter cards. Under many circumstances, it may be desirable for mobile network devices to link to a conventional Ethernet LAN in order to use servers, printers or an Internet connection supplied through the wired LAN. A Wireless Router is a device used to provide this link. D-Link DWR-921 User Manual 76 Appendix A - Wireless Basics What is Wireless? Wireless or Wi-Fi technology is another way of connecting your computer to the network without using wires.



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Wi-Fi uses radio frequency to connect wirelessly, so you have the freedom to connect computers anywhere in your home or office network. Why D-Link Wireless? D-Link is the worldwide leader and award winning designer, developer, and manufacturer of networking products. D-Link delivers the performance you need at a price you can afford.

D-Link has all the products you need to build your network. How does wireless work? Wireless works similar to how cordless phone work, through radio signals to transmit data from one point A to point B. But wireless technology has restrictions as to how you can access the network. You must be within the wireless network range area to be able to connect your computer. There are two different types of wireless networks Wireless Local Area Network (WLAN), and Wireless Personal Area Network (WPAN). Wireless Local Area Network (WLAN) In a wireless local area network, a device called an Access Point (AP) connects computers to the network. The access point has a small antenna attached to it, which allows it to transmit data back and forth over radio signals. With an indoor access point as seen in the picture, the signal can travel up to 300 feet. With an outdoor access point the signal can reach out up to 30 miles to serve places like manufacturing plants, industrial locations, college and high school campuses, airports, golf courses, and many other outdoor venues. Wireless Personal Area Network (WPAN) Bluetooth is the industry standard wireless technology used for WPAN.

Bluetooth devices in WPAN operate in a range up to 30 feet away. Compared to WLAN the speed and wireless operation range are both less than WLAN, but in return it doesn't use nearly as much power which makes it ideal for personal devices, such as mobile phones, PDAs, headphones, laptops, speakers, and other devices that operate on batteries. D-Link DWR-921 User Manual 77 Appendix A - Wireless Basics Who uses wireless? Wireless technology has become so popular in recent years that almost everyone is using it. @@@@Using a D-Link Cardbus Adapter with your laptop, you can access the hotspot to connect to Internet from remote locations like Airports, Hotels, Coffee Shops, Libraries, Restaurants, and Convention Centers. Wireless network is easy to setup, but if you're installing it for the first time it could be quite a task not knowing where to start. That's why we've put together a few setup steps and tips to help you through the process of setting up a wireless network. Tips Here are a few things to keep in mind, when you install a wireless network. Centralize your Router or Access Point Make sure you place the router/access point in a centralized location within your network for the best performance. @@@@Security Don't let you next-door neighbors or intruders connect to your wireless network. Secure your wireless network by turning on the WPA or WEP security feature on the router.

Refer to product manual for detail information on how to set it up. D-Link DWR-921 User Manual 79 Appendix A - Wireless Basics Wireless Modes There are basically two modes of networking: • Infrastructure – All wireless clients will connect to an access point or wireless router. • Ad-Hoc – Directly connecting to another computer, for peer-to-peer communication, using wireless network adapters on each computer. An Infrastructure network contains an Access Point or wireless router. All the wireless devices, or clients, will connect to the wireless router or access point.

An Ad-Hoc network contains only clients, such as laptops with wireless cardbus adapters. All the adapters must be in Ad-Hoc mode to communicate. D-Link DWR-921 User Manual 80 Appendix B - Networking Basics Networking Basics Check your IP address After you install your new D-Link adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically.

To verify your IP address, please follow the steps below. Click on Start > Run. In the run box type cmd and click OK. (Windows® Vista™ users type cmd in the Start Search box.) At the prompt, type ipconfig and press Enter. This will display the IP address, subnet mask, and the default gateway of your adapter. If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router.

Some firewall software programs may block a DHCP request on newly installed adapters. D-Link DWR-921 User Manual 81 Appendix B - Networking Basics Statically Assign an IP address If you are not using a DHCP capable gateway/router, or you need to assign a static IP address, please follow the steps below: Step 1 Windows® Vista™ - Windows® XP - Windows® 2000 - Step 2 Right-click on the Local Area Connection which represents your network adapter and select Properties. Step 3 Highlight Internet Protocol (TCP/IP) and click Properties. Step 4 Click Use the following IP address and enter an IP address that is on the same subnet as your network or the LAN IP address on your router. Example: If the router's LAN IP address is 192.168.0.1, make your IP address 192.168.0.

X where X is a number between 2 and 99. Make sure that the number you choose is not in use on the network. Set Default Gateway the same as the LAN IP address of your router (192.168.0).

1). Set Primary DNS the same as the LAN IP address of your router (192.168.0.1).

The Secondary DNS is not needed or you may enter a DNS server from your ISP. Step 5 Click OK twice to save your settings. D-Link DWR-921 User Manual 82 Click on Start > Control Panel > Network and Internet > Network and Sharing Center > Manage Network Connections. Click on Start > Control Panel > Network Connections. From the desktop, right-click My Network Places > Properties. Appendix C - Technical Specifications Technical Specifications LTE Band □□ 800 / 900 / 1800 / 2600 MHz; UMTS/HSDPA/HSUPA Band 1 □□ 900 / 2100 MHz; □□ Power Class 3 Data Rates 2 □□ Up to 150 Mbps with 802.11n clients □□ 6/9/11/12/18/24/36/48/54 Mbps in 802.11g mode □□ 1/2/5.5/11 Mbps in 802.11b mode □□ LTE Uplink: Up to 50 Mbps □□ LTE Downlink: Up to 100 Mbps Standards □□ 802.

11b/g, compatible with 802.11n devices □□ 802.3 □□ 802.3u Wireless Security □□ 64/128-bit WEP (Wired Equivalent Privacy) □□ WPA & WPA2 (Wi-Fi Protected Access) Firewall □□ Network Address Translation (NAT) □□ Stateful Packet Inspection (SPI) VPN □□ L2TP/PPTP/IPSEC/VPN Pass-through Antenna □□ Two detachable 3G/4G antennas Ports □□ Four LAN ports (RJ-45) □□ WAN port (RJ-45) USIM Slot □□ Standard 6-pin SIM card interface LED Status Indicators □□ WAN □□ LAN □□ WLAN □□ 3G □□ 4G □□ SMS □□ Signal Dimensions (L x W x H) □□ 190 x 111.5 x 23.5 mm (7.48 x 4.39 x 0.93 inches) D-Link DWR-921 User Manual 83 Appendix C - Technical Specifications Operating Temperature □□ 0 to 40 °C (32 to 104 °F) Operating Humidity □□ 10% to 90% (Non-condensing) 1 2 Certifications □□ CE □□ Wi-Fi Certified Supported frequency band is dependent upon regional hardware version.



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