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You can read the recommendations in the user guide, the technical guide or the installation guide for D-LINK GO-RT-N300. You'll find the answers to all your questions on the D-LINK GO-RT-N300 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 GO-RT-N300
User guide D-LINK GO-RT-N300
Operating instructions D-LINK GO-RT-N300
Instructions for use D-LINK GO-RT-N300
Instruction manual D-LINK GO-RT-N300

D-Link

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User Manual

Wireless N 300 Easy Router

GO-RT-N300



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Manual abstract:

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79 D-Link GO-RT-N300 User Manual iii Section 1 - Product Overview Product Overview Package Contents GO-RT-N300 Wireless N 300 Easy Router Power Adapter Ethernet Cable Note: Using a power supply with a different voltage rating than the one included with the GO-RT-N300 will cause damage and void the warranty for this product. D-Link GO-RT-N300 User Manual 1 Section 1 - Product Overview System Requirements Network Requirements • An Ethernet-based Cable or DSL modem • IEEE 802.11n or 802.11g wireless clients • 10/100 Ethernet Computer with the following: • Windows®, Macintosh, or Linux-based operating system • An installed Ethernet adapter Web-based Configuration Utility Requirements Browser Requirements: • Internet Explorer 7 or higher • Firefox 12.0 or higher • Safari 4.

0 or higher • Chrome 20.0 or higher Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version. D-Link GO-RT-N300 User Manual 2 Section 1 - Product Overview Features • Faster Wireless Networking - The GO-RT-N300 provides wireless connection of up to 300Mbps* for other 802.11n wireless clients. This capability allows users to participate in real-time activities online, such as video streaming, online gaming, and real-time audio. • Compatible with 802.11b and 802.

11g Devices - The GO-RT-N300 is fully compatible with the IEEE 802.11b and IEEE 802.11g standard, so it can connect with existing 802.11b and IEEE 802.11g PCI, USB and Cardbus adapters. • Advanced Firewall Features - The Web-based user interface displays a number of advanced network management features including: • Content Filtering - Easily applied content filtering based on URL. • User-friendly Setup Wizard - Through its easy-to-use Web-based user interface, the GO-RT-N300 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 and Draft 802.

11n 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 GO-RT-N300 User Manual 3 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 Internet port is the connection for the Ethernet cable to the Cable or DSL modem. The On/Off button turns the device on or off. D-Link GO-RT-N300 User Manual 4 Section 1 - Product Overview Hardware Overview LEDs INTERNET A solid light indicates connection on the WAN port.

Power LED A solid light indicates a proper connection to the power supply. D-Link GO-RT-N300 User Manual 5 Section 2 - Installation Installation This section will walk you through the installation process. Placement of the router is very important. Do not place the router in an enclosed area such as a closet, cabinet, or in the attic or garage. Before You Begin • Please configure the router with the computer that was last connected directly to your modem. • You can only use the Ethernet port on your modem. If you were using the USB connection before using the router, then you must turn off your modem, disconnect the USB cable and connect an Ethernet cable to the Internet port on the router, and then turn the modem back on. In some cases, you may need to call your ISP to change connection types (USB to Ethernet). • If you have DSL and are connecting via PPPoE, make sure you disable or uninstall any PPPoE software such as WinPoet, Broadjump, or Enternet 300 from your computer or you will not be able to connect to the Internet. • When running the Setup Wizard, make sure the computer is connected to the Internet and online or the wizard will not work.

If you have disconnected any hardware, re-connect your computer back to the modem and make sure you are online. D-Link GO-RT-N300 User Manual 6 Section 2 - Installation Wireless Installation Considerations The D-Link wireless router lets you access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. Keep in mind, however, that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines: 1. Keep the number of walls and ceilings between the D-Link router and other network devices to a minimum each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters). Position your devices so that the number of walls or ceilings is minimized. 2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception. 3. Building Materials make a difference router.

Do not plug anything into the Internet (WAN) port of the D-Link router.

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8. You may now use the other 3 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 GO-RT-N300 User Manual 10 Section 2 - Installation Getting Started The GO-RT-N300 will run a Setup Wizard when you first use it. Follow the simple steps below to run the Setup Wizard to guide you quickly through the installation process. Select your WAN network type, then enter your wireless SSID and key. Open a web browser (such as Internet Explorer) and enter the IP address of the router (<http://192.168.0.1>) in the address bar. The setup wizard will start automatically. The network map at the top of the page shows your current network connections. A green tick represents a successful connection between two devices. The IP address of each device will also be displayed.

You can change the language of the configuration utility by selecting your desired language from the drop-down menu in the top right-hand corner of the screen. Click the Save and Connect button when you are finished. Note: It is recommended to write down the SSID and security key, followed by the login password. *D-Link GO-RT-N300 User Manual 11 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 Admin in the User Name field. Leave the password blank as the default password.

If you get a Page Cannot be Displayed error, please refer to the Troubleshooting section for assistance. *D-Link GO-RT-N300 User Manual 12 Section 3 - Configuration Setup Wizard* You can configure your WAN network connection using a wizard or manually. Click Next to use the Setup Wizard, or click Manual to configure the WAN connection manually, which will take you to the Setup > Internet Setup page. Setup Wizard will be explained in the next pages and Internet Setup will be explained in the Internet Setup section. *GO-RT-N300 D-Link GO-RT-N300 User Manual 13 Section 3 - Configuration* Select the connection type for your WAN and click Next to continue.

If you selected PPPoE, enter your PPPoE username and password twice and click Next to continue. Click the Account Validate button to validate the account. *D-Link GO-RT-N300 User Manual 14 Section 3 - Configuration* If you selected Static IP, enter your IP address, Subnet Mask, Default Gateway, Primary DNS, and Secondary DNS, and click Next to continue. You can also configure the wireless network and security settings. If you prefer not to, click Disable the wireless radio.

Click Next to continue. SSID: Enter the SSID name. Channel: Use the dropdown menu to select the wireless channel. Mode: Use the dropdown menu to specify the wireless mode Channel Width: Use the dropdown menu to select the channel bandwidth. If you selected the 802.11n, 802.11 b/g, or 802.11 b/g/n wireless modes, the available options are 20 MHz and 20/40MHz. For the others, 20MHz is the only option. Disable You can also choose to not use security by selecting this, Security: but this is not recommended.

WPA/WPA2- If you select this, enter a passkey in the box below the field. Personal: *GO-RT-N300 D-Link GO-RT-N300 User Manual 15 Section 3 - Configuration* Click Finish to complete the setup process. When the router has finished saving, the Status > Device Info window will open. *D-Link GO-RT-N300 User Manual 16 Section 3 - Configuration Local Network* This section will allow you to change the local network settings of the router and to configure the DHCP settings. LAN Interface: Use this section to configure the Router's local network settings. DHCP Server Use this section to configure the GO-RT-N300's built-in Settings: DHCP server settings. DHCP Static IP Use this section to add a new DHCP Static IP configuration. Configuration: DHCP Static IP Displays information about the devices that have a static Table: DHCP assigned from the GO-RT-N300. The information includes the IP Address and MAC Address. You can delete or edit an existing Static IP configuration in the table.

D-Link GO-RT-N300 User Manual 17 Section 3 - Configuration LAN Interface Setup IP Address: Enter the IP address of the router. The default IP address is 192.168.0.1.

If you change the IP address, once you click Apply, you will need to enter the new IP address in your browser to get back into the configuration utility. Default Subnet Enter the Subnet Mask. The default subnet mask is Mask: 255.255.255.

0. Local Network Click the Apply Changes button to save any changes made. *D-Link GO-RT-N300 User Manual 18 Section 3 - Configuration DHCP Server Settings* DHCP stands for Dynamic Host Control Protocol. The GO-RT-N300 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 GO-RT-N300. 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. DHCP Mode: Choose the DHCP Server option in the pulldown menu to enable the DHCP server on your router.

Choose None to disable this function. IP Pool Range: Enter the starting and ending IP addresses for the DHCP server's IP assignment. Note: If you statically (manually) assign IP addresses to your computers or devices, make sure the IP addresses are outside of this range or you may have an IP conflict. Max Lease Time: The maximum length of time for the IP address lease. Enter the Lease time in minutes. Domain Name: Enter the domain name. DNS Server 1: Enter the IP address of the first DNS Server. DNS Server 2: Enter the IP address of the second DNS Server, if there is one. DNS Server 3: Enter the IP address of the third DNS Server, if there is one. Local Network When you have finished configuring the new DHCP Server Settings, click the Apply Changes button.

D-Link GO-RT-N300 User Manual 19 Section 3 - Configuration DHCP Static IP Configuration If you want a computer or device to always have the same IP address assigned, you can create a DHCP reservation. The router will assign the IP address only to that computer or device. Note: This IP address must be within the DHCP IP Address Range. IP Address: Enter the IP address you want to assign to the computer or device. This IP Address must be within the DHCP IP Address Range.

MAC Address: Enter the MAC address of the computer or device. Local Network When you have finished configuring the new DHCP Reservation, click the Add button to activate your reservation.



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It will then be displayed in the DHCP Static IP Table below. The DHCP Static IP Table displays the IP reservations that have been created. To make any changes, select a reservation in the table by clicking the circle next to it and click Update.

To delete a reservation, select a reservation and click Delete Selected. D-Link GO-RT-N300 User Manual 20 Section 3 - Configuration Setup Internet Setup This section allows you to manually configure your Router's Internet WAN settings. WAN Access Select the WAN interface type. Type: GO-RT-N300 If you choose DHCP Client, please configure the following fields: Host Name: Enter the host name of the router. MTU Size: Enter the MTU size. Obtain DNS Click this if the DNS is to be obtained automatically. Automatically: Set DNS Click this to specify a DNS Server. You can enter up to three Manually: DNS servers. MAC Clone Select the MAC address to be used for the connection. Select Default MAC to use the router's MAC address.

Select MAC from PC to copy your PC's MAC address, or select MAC Manual to manually enter a MAC address in the field provided. When you have finished configuring the WAN settings, click the Apply Changes button. D-Link GO-RT-N300 User Manual 21 Section 3 - Configuration If you choose Static IP, please configure the following fields; WAN Access Select Static IP from the drop-down menu. Type: IP Address: Enter the static IP address which was provided to you by your Internet Service Provider (ISP). Subnet Mask: Enter the subnet provided by your ISP. Default Enter the default gateway provided by your ISP. Gateway: MTU Size: Enter the Maximum Transmission Unit size. The default value is 1500. DNS Server 1: Enter the primary DNS server address provided by your ISP. DNS Server 2: Enter the secondary DNS server address provided by your ISP.

MAC Clone: Select the MAC address to be used for the connection. Select Default MAC to use the router's MAC address. Select MAC from PC to copy your PC's MAC address, or select MAC Manual to manually enter a MAC address in the field provided. Click Apply Changes to save the current configuration, or click Reset to discard. D-Link GO-RT-N300 User Manual 22 Section 3 - Configuration When you have finished configuring the WAN settings, click the Apply Changes button.

If you choose PPPoE, please configure the following fields: WAN Access Select PPPoE from the drop-down menu. Type: User Name: Enter the user name provided to you by your ISP. Password: Enter the password provided to you by your ISP. Idle Time: Enter the idle time (in minutes) after which the router will disconnect due to inactivity. To disable this feature, select Continuous as the connection type below.

MTU Size: Enter the Maximum Transmission Unit size. The default value is 1492. Static IP If your ISP or network administrator requires you to have a Address: static IP address for your connection, enter it here. Connection Select Continuous, Connect on Demand, or Manual as the Type: connection type from the drop-down menu. If you select Manual, the connect and disconnect buttons will be available. When you have finished configuring the WAN settings, click the Apply Changes button. D-Link GO-RT-N300 User Manual 23 Section 3 - Configuration Wireless Wireless Basics This page allows you to configure the wireless LAN settings. You can also configure the wireless encryption and wireless network parameters. Enable SSID Enable SSID broadcast if you want the router to transmit Broadcast: its SSID publicly so other wireless devices can discover it. Enable Wireless Enable wireless isolation to prevent connected wireless Isolation: devices from connecting to other wireless devices that are also connected to the router.

Name (SSID): Enter the SSID name of the router. Mode: Use the dropdown menu to specify the wireless mode. Channel: Use the dropdown menu to select the wireless channel. Band Width: Use the dropdown menu to select the channel bandwidth. If you selected the 802.11n, 802.11 b/g, or 802.11 b/g/n wireless modes, the available options are 20 MHz and 20/40MHz. For the others, 20MHz is the only option. Max Select the maximum transmission rate for the wireless Transmission network.

Rate: Security Select a wireless security encryption option. You can also Options: choose to not use one by selecting None, but this is not recommended. GO-RT-N300 GO-RT-N300 D-Link GO-RT-N300 User Manual 24 Section 3 - Configuration Wireless Security Wireless security helps to prevent unauthorized users from accessing your wireless network, or seeing data being passed between the router and wireless clients. The GO-RT-N300 supports two popular wireless security protocols, you should select a protocol based on the wireless clients which will be accessing your network. Wired Equivalent Privacy (WEP) - This is an older form of wireless security and should only be used if your wireless clients do not support the newer WPA or WPA2 protocols.

Security Select WEP from the drop-down menu. Options: Authentication Select either Automatic or Shared Key as the Type: authentication type. Encryption Select the encryption strength from the drop-down menu. Strength: 64-bit - A 64-bit key comprises a string of 10 hexadecimal characters, or 5 ASCII characters. 128-bit - A 128-bit key comprises a string of 26 hexadecimal characters, or 13 ASCII characters.

Key 1-4: You can predetermine up to 4 WEP keys. Select the WEP key you wish to use by clicking on the radio buttons next to the keys. Select whether you wish to use HEX or ASCII characters in your key using the drop-down menu. Enter the desired key in the field provided. Click Apply to save the current settings. D-Link GO-RT-N300 User Manual 25 Section 3 - Configuration Wi-Fi Protected Access (WPA/WPA2) - This is a newer and more secure protocol for wireless security. It uses a cipher combined with a pre-shared key (password) to encrypt data being sent over the wireless network. It is recommended that you use this security method if it is supported by your wireless clients. Security Select WPA-PSK/WPA2-PSK AES from the drop-down Options: menu. Pre-Shared Key: Enter a pre-shared key (password) to secure your wireless network.

Wireless clients will require this password in order to connect to your network. It is recommended that you make a record of this password for future reference. Click Apply to save the current settings. D-Link GO-RT-N300 User Manual 26 Section 3 - Configuration Wi-Fi Protected (WPS) Setup Wi-Fi Protected Setup (WPS) System is a simplified method for securing your wireless network during the "Initial setup" as well as the "Add New Device" processes. The Wi-Fi Alliance (WFA) has certified it across different products as well as manufacturers. The process is just as easy, as pressing a button for the Push-Button Method or correctly entering the 8-digit code for the PinCode Method. The time reduction in setup and ease of use are quite beneficial, while the highest wireless security setting of WPA2 is automatically used.



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If you wish to use the Push-Button Connection (PBC) method, simply press the WPS button on the side of the router. The power LED will begin to flash. Within 120 seconds, press the WPS button on the device that you wish to connect.

The power LED will turn solid green if the connection is successful. To connect using the PIN method, click Next to begin the WPS setup process. Enter the PIN for the wireless NIC and click Start PIN. If successful, you will then be taken to another screen and a message will tell you to run WPS in the client device within 2 minutes. D-Link GO-RT-N300 User Manual 27 Section 3 - Configuration Advanced Wireless Enable Wireless: Enable wireless on your network. Fragment The fragmentation threshold, which is specified in bytes, Threshold (256- determines whether packets will be fragmented. Packets 2346): exceeding the 2346 byte setting will be fragmented before transmission. 2346 is the default setting. RTS Threshold (1- This value should remain at its default setting of 2346. 2347): If inconsistent data flow is a problem, only a minor modification should be made.

Preamble Type: Use the dropdown menu to specify whether the Router should use the Short Preamble or Long Preamble type. The preamble type defines the length of the CRC (Cyclic Redundancy Check) block for communication between the Router and roaming wireless adapters. Radio Power: USet the transmit power of the antennas in percentage. HT20/40 Enable this feature to force the use of the 40 MHz band Coexistence: even in heavily congested areas. Enabling this feature may reduce transmission speeds when there are a number of other wireless N devices operating within the same vicinity. When disabled, the GO-RT-N300 will drop back to the slower 20 MHz when heavy congestion is detected on the 40 MHz band. Click the Apply Changes button to save any changes made. D-Link GO-RT-N300 User Manual 28 Section 3 - Configuration WPS Setup PIN of the Displays the current PIN for the router's WPS connection.

Router: Wireless clients connecting to the router using the PIN method should enter this PIN in order to connect. Enable WPS: Check the box to enable devices to connect to the router using WPS.

Disable PIN: Check the box to disable the PIN connection method. If this option is disabled, clients can only use the PBC method to connect. Keep Current Check this box to lock the current configuration. If this Configuration: option is disabled, wireless clients will not be able to automatically adjust the router's WPS settings when connecting. ACL Setup: Click this button to be taken to the Access Control setup tab, where you can configure filters to control which wireless clients access your network, and which network resources they can access. For more information on configuring access control, please refer to "Access Control List" on page <?>. Click Apply Changes to save the current configuration. D-Link GO-RT-N300 User Manual 29 Section 3 - Configuration Access Control List Click the ACL Setup button to edit the ACL (Access Control List). This takes you to the screen below. Enable Wireless Click to enable Wireless Access Control Mode.

In this Access Control mode, only listed wireless devices will be allowed to Mode: connect to the wireless network. Click the Apply button when you are done. MAC Address: Enter the MAC Address of a device you wish to allow access for to the WLAN. Click the Add button when you are done. This will add the device's MAC Address to the table above.

Click the Delete button and the button in the Select field to delete the device. D-Link GO-RT-N300 User Manual 30 Section 3 - Configuration Wireless Repeater This page allows you to configure wireless repeater settings for the GO-RT-N300. Repeater Enabled: Enable wireless on your network. SSID of AP: Click the Site Survey button to enable the router to search for nearby wireless networks. This will take about 30 seconds.

GO-RT-N300 GO-RT-N300 A list of wireless networks that have been found will then appear. Select a network and click the Next button to move to the next step. D-Link GO-RT-N300 User Manual 31 Section 3 - Configuration You can then set up wireless security for the network. If you select WEP as the security option, the following settings below will appear. Authentication Select the authentication type. Type: Encryption Select the encryption strength. Strength: Security Select up to four WEP keys. Encryption (WEP) Key: If you have selected any WPA option, the following setting will appear. Pre-shared Enter a pre-shared key. Key: GO-RT-N300 Click the Apply button to save any changes made.

You will be taken to the next page. You can then set up wireless security for the network. IP Address: Enter the IP address. Subnet Mask: Enter the subnet mask. GO-RT-N300 Click the Finish button to save the configuration. D-Link GO-RT-N300 User Manual 32 Section 3 - Configuration Advanced Access Control List This page allows you to set up an Access Control List to restrict the types of data packets that can enter the network from the Internet. WAN Setting: Use the drop-down menu to select either WAN or IP address. IP Address: This option will only be seen if you have selected IP address above. Enter the IP address range for this rule. Services Allowed: Select the type of Internet service of which packets will be allowed into the network: Web - Allows web services from the specified IP address into the network.

You will also be required to enter a port number for the IP address range. Ping - Allows your network to receive 'ping' requests from the specified IP address range. The Current ACL Table will show a summary of current access control rules. Click Delete to remove a rule from the list. Click the Add button to save and add these settings to the Current ACL table.

D-Link GO-RT-N300 User Manual 33 Section 3 - Configuration Port Triggering This page allows you to enable port triggering to specify inbound traffic to be sent to specific ports while other ports are in use for outbound traffic. NAT Port Trigger: Enable or disable the Nat Port Trigger. GO-RT-N300 Click the Apply Changes button to save any changes made. Usual Application Select an application from the pulldown list. Name: User-defined Enter the name of an application.

Application Name: Start Match Port: Enter a start match port. End Match Port: Enter an end match port. Trigger Protocol: Select a protocol from the pulldown menu. Start Relate Port: Enter a start relate port. End Relate Port: Enter an end relate port. Open Protocol: Select a protocol from the pulldown menu. Nat Type: Select whether it will be outgoing or incoming. Click the Apply Changes button to save any changes made. The application will then be added to the Current Porttrigger Table. Click the Delete button in the Action field for an application type if you wish to delete it.

D-Link GO-RT-N300 User Manual 34 Section 3 - Configuration DMZ Sometimes you may want a computer exposed to the outside world for certain types of applications.



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If you choose to expose a computer, you can enable the Demilitarized Zone (DMZ). This option will expose the chosen computer completely to the outside world. Enable DMZ: Check the box to enable the DMZ function. DMZ Host IP Enter the IP address of the machine that you wish to place Address: in the DMZ. If the machine receives an IP address from the DHCP server, you should create a static DHCP reservation to ensure that the machine always receives the same address from the DHCP server. Click Apply Changes to save the current configuration. D-Link GO-RT-N300 User Manual 35 Section 3 - Configuration URL Block This page allows you to block specific websites or keywords in order to prevent network clients from accessing them. URL Blocking Enable or disable URL Blocking. Capability: GO-RT-N300 Click the Apply Changes button to save any changes made.

Keyword: Type a keyword or a URL site that you want to prevent network users from accessing. Click the Add Keyword button to save any changes made. The keyword will then be added to the URL Blocking Table below. @@@@DDNS Provider: Choose your DDNS provider from the dropdown menu.

@@Username: Enter the Username for your DDNS account.

@@@@@ (0, Unlimited): Auto Traffic Click to enable auto traffic shaping. @Source IP: Enter the source IP. Dest IP: Enter the destination IP. Source Port: Enter the source port number if applicable. This box will be greyed out for certain protocols.

@Source Netmask: Enter the source netmask. Dest Netmask: Enter the destination netmask. Dest Port: Enter the destination port. Up Ceiling: Enter the maximum upload speed. @The QoS Rule will then be added to the QoS Rules Table. @@@@ User-defined Enter a service name. @WAN Port: Enter the WAN port number. LAN Open Port: Enter the LAN Open port number. @@@@ To reset the system to the factory default setting, click the Reset button. D-Link GO-RT-N300 User Manual 43 Section 3 - Configuration Firmware Upgrade This page allows you to upgrade the firmware of the Router.

If you plan to install new firmware, make sure the firmware you want to use is on the local hard drive of the computer. 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. Choose File: After you have downloaded the new firmware, click Browse to locate the firmware update on your hard drive. GO-RT-N300 Click the Upload button to upload a file to the router after you have selected it, or click the Reset button to cancel the selection. D-Link GO-RT-N300 User Manual 44 Section 3 - Configuration Backup/Restore This page allows you to save the router's current configuration file onto your computer's hard drive or load a saved file from your hard drive. GO-RT-N300 Click the Save button to download the current configuration settings as a file onto your hard drive. To load a previously saved settings file, click the Choose File button to locate the file on your hard drive, then click the Upload button.

D-Link GO-RT-N300 User Manual 45 Section 3 - Configuration Admin This page allows you to add a user account to the router's Web server. You can also delete or modify existing accounts. User Name: Enter a username. Privilege: The user has Root privilege. Old Password: Enter the current password of the account.

New Password: Enter the new password for the account. Confirm Password: Retype the new password. GO-RT-N300 Click the Add button to save any changes made. The user account will also be added to the User Account Table below. To modify an existing user account, click the Select tab next to the user account in the table, edit the user settings you wish to change, and then click the Modify button.

To delete an existing account, click the Select tab next to the user account in the table and then click the Delete button. D-Link GO-RT-N300 User Manual 46 Section 3 - Configuration Time and Date This page allows you to edit the system time and Network Time Protocol (NTP). You can configure, update, and maintain the correct time on the system clock, and configure Daylight Saving. System Time: Enter the correct year, month, day, and time. Daylight Saving Enter the correct year, month, day, and time. Offset: Select the daylight saving offset from the drop-down menu to have the router adjust the time to reflect the starting or finishing of daylight saving in your region. This adjustment should be made manually each time daylight saving time begins or ends. Click the Apply Changes button to save the current configuration. Network Time Protocol (NTP) automatically synchronizes your router's time and date settings with an Internetbased time server. State: Select Enable to enable the NTP server.

Server: Enter the name of the NTP server. Server2: Enter the name of the second NTP server. Interval: Enter the time period that you want the NTP server to synchronize time with the devices on the network. The default value is one hour. Time Zone: Select the time zone you are in from the pulldown menu. GMT Time: This shows the current GMT (Greenwich Mean Time) time. GO-RT-N300 Click the Apply Changes button to save any changes made. To start the NTP, click the Get GMT Time button to obtain the GMT time. D-Link GO-RT-N300 User Manual 47 Section 3 - Configuration Status Device Info This page displays the current status and basic settings of the router. System: Displays the router's time and firmware version.

LAN Displays the MAC address and the private (local) IP Configuration: settings for the router. WLAN Displays the wireless MAC address and your wireless Configuration: settings such as SSID and Channel. WAN Displays the MAC address and the public IP settings for Configuration: the router. Click the Refresh button to view the most current information. D-Link GO-RT-N300 User Manual 48 Section 3 - Configuration Active Client Table This page displays lists of all wired and wireless clients.

The IP address and MAC address of each client is displayed in the tables. Active Wired Client This table displays all active wired clients. Table: Active Wireless This table displays all active wireless clients. Client Table: GO-RT-N300 Click the Save Settings button to save any changes made. D-Link GO-RT-N300 User Manual 49 Section 3 - Configuration Statistics This page displays the statistics for packets that have been transmitted and received on the network on the router's WAN and LAN ports, and wireless bands.

GO-RT-N300 Click the Refresh button to refresh the router's traffic statistics. D-Link GO-RT-N300 User Manual 50 Section 3 - Configuration Help This section provides an explanation of each configuration or setting for the GO-RT-N300. Click on the links to be taken to the help text for that particular section of router's setup. D-Link GO-RT-N300 User Manual 51 Section 4 - Security Wireless Security This section will show you the different levels of security you can use to protect your data from intruders.



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The GO-RT-N300 offers the following types of security: • WPA2 (Wi-Fi Protected Access 2) • WPA (Wi-Fi Protected Access) • WPA2-PSK (Pre-Shared Key) • WPA-PSK (Pre-Shared Key) What is WPA? WPA (Wi-Fi Protected Access), is a Wi-Fi standard that was designed to improve the security features of WEP (Wired Equivalent Privacy). The 2 major improvements over WEP: • Improved data encryption through the Temporal Key Integrity Protocol (TKIP). TKIP scrambles the keys using a hashing algorithm and, by adding an integrity-checking feature, ensures that the keys haven't been tampered with. WPA2 is based on 802.11i and uses Advanced Encryption Standard (AES) instead of TKIP. • User authentication, which is generally missing in WEP, through the extensible authentication protocol (EAP).

WEP regulates access to a wireless network based on a computer's hardware-specific MAC address, which is relatively simple to be sniffed out and stolen. 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 GO-RT-N300 User Manual 52 Section 5 - Connecting to a Wireless Network Connect to a Wireless Network Windows® 8 WPA/WPA2 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 (Wi-Fi password) being used.

To join an existing network, locate the wireless network icon in the taskbar, next to the time display. Wireless Icon Clicking on this icon will display a list of wireless networks which are within connecting proximity of your computer. Select the desired network by clicking on the network name. D-Link GO-RT-N300 User Manual 53 Section 5 - Connecting to a Wireless Network You will then be prompted to enter the network security key (Wi-Fi password) for the wireless network. Enter the password into the box and click Next.

If you wish to use Wi-Fi Protected Setup (WPS) to connect to the router, you can also press the WPS button on your router at this point to enable the WPS function. When you have established a successful connection to a wireless network, the word Connected will appear next to the name of the network to which you are connected. D-Link GO-RT-N300 User Manual 54 Section 5 - Connecting to a Wireless Network Using Windows® 7 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 Icon 2. The utility will display any available wireless networks in your area. D-Link GO-RT-N300 User Manual 55 Section 5 - Connecting to a Wireless Network 3. 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 the Networking Basics section in this manual for more information. 4. The following window appears while your computer tries to connect to the router. D-Link GO-RT-N300 User Manual 56 Section 5 - Connecting to a Wireless Network 5.

Enter the same security key or passphrase that is on your router and click Connect. You can also connect by pushing the WPS button on the router. 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 GO-RT-N300 User Manual 57 Section 5 - Connecting to a Wireless Network Configure WPS The WPS feature of the router can be configured using Windows® 7. Carry out the following steps to use Windows® 7 to configure the WPS feature of the router: 1.

Click the Start button and select Computer from the Start menu. 2. Click the Network option.

D-Link GO-RT-N300 User Manual 58 Section 5 - Connecting to a Wireless Network 3. Double-click the GO-RT-N300. 4. Input the WPS PIN number (on the Router label) or in the Setup > Wireless Setup menu in the Router's Web UI and click Next. D-Link GO-RT-N300 User Manual 59 Section 5 - Connecting to a Wireless Network 5.

Type a name to identify the network. 6. To configure advanced settings, click the icon. Click Next to continue. D-Link GO-RT-N300 User Manual 60 Section 5 - Connecting to a Wireless Network 7.

The following window appears while the Router is being configured. Wait for the configuration to complete. 8. The following window informs you that WPS on the GO-RT-N300 has been setup successfully. Make a note of the security key as you may need to provide this security key if adding an older wireless device to the network in the future. 9. Click Close to complete WPS setup. D-Link GO-RT-N300 User Manual 61 Section 5 - 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 you TCP/IP settings for your wireless adapter. Refer to the Networking Basics section in this manual for more information. D-Link GO-RT-N300 User Manual 62 Section 5 - Connecting to a Wireless Network Configure 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.

Open the Windows Vista® Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower right corner of screen).



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Select Connect to a network. 2. Highlight the wireless network (SSID) you would like to connect to and click Connect. D-Link GO-RT-N300 User Manual 63 Section 5 - 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 GO-RT-N300 User Manual 64 Section 5 - Connecting 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. 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 your TCP/IP settings for your wireless adapter. Refer to the Networking Basics section in this manual for more information.

D-Link GO-RT-N300 User Manual 65 Section 5 - 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 GO-RT-N300 User Manual 66 Section 5 - 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 GO-RT-N300 User Manual 67 Section 6 - Troubleshooting Troubleshooting This chapter provides solutions to problems that can occur during the installation and operation of the GO-RT-N300. Read the following descriptions if you are having problems.

The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples. 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 nor do you 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: - Microsoft Internet Explorer® 6.0 and higher - Mozilla Firefox 3.0 and higher - Google™ Chrome 2.0 and higher - Apple Safari 3.0 and 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 GO-RT-N300 User Manual 68 Section 6 - 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 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. Unfortunately 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. When logging in, the username is admin and leave the password box empty. D-Link GO-RT-N300 User Manual 69 Section 6 - Troubleshooting 3. Why can't I connect to certain sites or send and receive emails when connecting through my router? If you are having a problem sending or receiving email, or connecting to secure sites such as eBay, banking sites, and Hotmail, we suggest lowering the MTU in increments of ten (Ex. 1492, 1482, 1472, etc). Note: AOL DSL+ users must use MTU of 1400. To find the proper MTU Size, you'll have to do a special ping of the destination you're trying to go to. A destination could be another computer, or a URL. • Click on Start and then click Run.

• Windows® 95, 98, and Me users type in command (Windows® NT, 2000, and XP users type in cmd) and press Enter (or click OK). • Once the window opens, you'll need to do a special ping. Use the following syntax: ping [url] [-f] [-l] [MTU value] Example: ping yahoo.com -f -l 1472 D-Link GO-RT-N300 User Manual 70 Section 6 - Troubleshooting You should start at 1472 and work your way down by 10 each time. Once you get a reply, go up by 2 until you get a fragmented packet.

Take that value and add 28 to the value to account for the various TCP/IP headers.



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For example, lets say that 1452 was the proper value, the actual MTU size would be 1480, which is the optimum for the network we're working with (1452+28=1480). Once you find your MTU, you can now configure your router with the proper MTU size. To change the MTU rate on your router follow the steps below: • Open your browser, enter the IP address of your router (192.168.

0.1) and click OK. • Enter your username (admin) and password (blank by default). Click OK to enter the web configuration page for the device. • Click on Setup and then click Manual Configure. • To change the MTU enter the number in the MTU field and click Save Settings to save your settings. • Test your email. If changing the MTU does not resolve the problem, continue changing the MTU in increments of ten. D-Link GO-RT-N300 User Manual 71 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 GO-RT-N300 User Manual 72 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. 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 phones 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, 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. D-Link GO-RT-N300 User Manual 73 Appendix A - Wireless Basics 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. Who uses wireless? Wireless technology has become so popular in recent years that almost everyone is using it, whether it's for home, office, business, D-Link has a wireless solution for it. Home • Gives everyone at home broadband access • Surf the web, check email, instant message, etc. • Gets rid of the cables around the house • Simple and easy to use Small Office and Home Office • Stay on top of everything at home as you would at office • Remotely access your office network from home • Share Internet connection and printer with multiple computers • No need to dedicate office space D-Link GO-RT-N300 User Manual 74 Appendix A - Wireless Basics Where is wireless used? Wireless technology is expanding everywhere not just at home or office. People like the freedom of mobility and it's becoming so popular that more and more public facilities now provide wireless access to attract people. The wireless connection in public places are usually called "hotspots".

Using a D-Link Cardbus Adapter with your laptop, you can access the hotspot to connect to the 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. Try to place the router/access point as high as possible in the room, so the signal gets dispersed throughout your home. If you have a two-story home, you may need a repeater to boost the signal to extend the range. Eliminate Interference Place home appliances such as cordless telephones, microwaves, and televisions as far away as possible from the router/access point. This would significantly reduce any interference that the appliances might cause since they operate on same frequency. @@@@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 GO-RT-N300 User Manual 76 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.



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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® 7/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 GO-RT-N300 User Manual 77 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® 7 - Click on Start > Control Panel > Network and Internet > Network and Sharing Center > Change Adapter Setting. Windows Vista® - Click on Start > Control Panel > Network and Internet > Network and Sharing Center > Manage Network Connections. Windows® XP - Click on Start > Control Panel > Network Connections.

Windows® 2000 - From the desktop, right-click My Network Places > Properties. 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 GO-RT-N300 User Manual 78 Appendix C - Technical Specifications Technical Specifications Standards • IEEE 802.11n • IEEE 802.11g • IEEE 802.3 • IEEE 802.3u Security • WEPTM • WPATM - Personal/Enterprise • WPA2TM - Personal/Enterprise Wireless Signal Rates1 IEEE 802.11n: 20MHz Channel: • 150 Mbps (max) 40MHz Channel: • 300 Mbps (max) Storage Temperature • -20 °C to 65 °C (-4 °F to 149 °F) Humidity • 10% minimum (non-condensing) • 95% maximum (non-condensing) Safety & Emissions • CE • Wi-Fi Certified Dimensions • L = 160 mm (6.3 inches) • W = 120 mm (4.72 inches) • H = 59 mm (2.

32 inches) IEEE 802.11g: • 54 Mbps • 48 Mbps • 36 Mbps • 24 Mbps • 18 Mbps • 12 Mbps • 11 Mbps • 9 Mbps • 6 Mbps Wireless Frequency Range2 (Europe) • 2.4 GHz to 2.4835 GHz (802.11g/n) Operating Temperature • 0 °C to 40 °C (32 °F to 104 °F) 1 aximum wireless signal rate derived from IEEE Standard 802.11b, 802.11g and 802.11n specifications. Actual data throughput will vary. Network conditions and environmental factors, including M volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate.

Environmental factors will adversely affect wireless signal range. 2 Frequency Range varies depending on country's regulation D-Link GO-RT-N300 User Manual 79 .



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