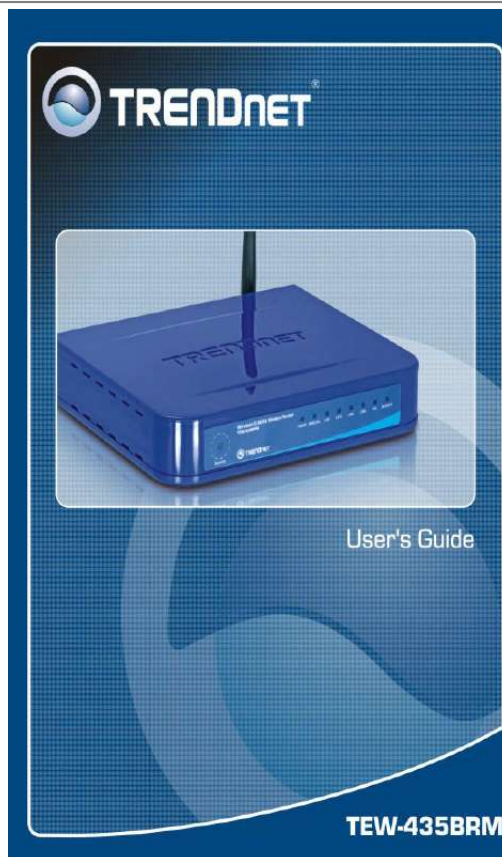




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You can read the recommendations in the user guide, the technical guide or the installation guide for TRENDNET TEW-435BRM. You'll find the answers to all your questions on the TRENDNET TEW-435BRM in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual TRENDNET TEW-435BRM
User guide TRENDNET TEW-435BRM
Operating instructions TRENDNET TEW-435BRM
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Manual abstract:

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Document Version: 1.0 All trademarks and trade names are the properties of their respective owners. iii Chapter 1 Introduction This Chapter provides an overview of the Wireless ADSL Router's features and capabilities. 1 Congratulations on the purchase of your new Wireless ADSL Router. The Wireless ADSL Router is a multi-function device providing the following services: ADSL Modem. Shared Broadband Internet Access for all LAN users. Wireless Access Point for 802.11b and 802.11g Wireless Stations. 4-Port Switching Hub for 10BaseT or 100BaseT connections.

Figure 1: Wireless ADSL Router Wireless ADSL Router Features The Wireless ADSL Router incorporates many advanced features, carefully designed to provide sophisticated functions while being easy to use. Internet Access Features · Shared Internet Access. All users on the LAN or WLAN can access the Internet through the Wireless ADSL Router, using only a single external IP Address. The local (invalid) IP Addresses are hidden from external sources. This process is called NAT (Network Address Translation). · Built-in ADSL Modem. The Wireless ADSL Router has a built-in ADSL modem, supporting all common ADSL connections. IPoA, PPPoE, PPPoA, Direct Connection Support. The Wireless ADSL Router supports all common connection methods. 1 Wireless ADSL Router User Guide · Auto-detection of Internet Connection Method.

In most situations, the Wireless ADSL Router can test your ADSL and Internet connection to determine the connection method used by your ISP. · Fixed or Dynamic IP Address. On the Internet (ADSL port) connection, the Wireless ADSL Router supports both Dynamic IP Address (IP Address is allocated on connection) and Fixed IP Address. Advanced Internet Functions · Application Level Gateways (ALGs). Applications which use non-standard connections or port numbers are normally blocked by the Firewall.

The ability to define and allow such applications is provided, to enable such applications to be used normally. . . . Port Triggering. This feature, also called Special Applications, allows you to use Internet applications which normally do not function when used behind a firewall. Port Forwarding. This feature allows Internet users to access Internet servers on your LAN.

The required setup is quick and easy. Dynamic DNS Support. DDNS, when used with the Virtual Servers feature, allows users to connect to Servers on your LAN using a Domain Name, even if you have a dynamic IP address which changes every time you connect. . . . URL Filter. Use the URL Filter to block access to undesirable Web s attacks from external sources. Protection against DoS attacks. DoS (Denial of Service) attacks can flood your Internet connection with invalid packets and connection requests, using so much bandwidth and so many resources that Internet access becomes unavailable. The Wireless ADSL Router incorporates protection against DoS attacks. 3 Wireless ADSL Router User Guide Package Contents The following items should be included. If any of these items are damaged or missing, please contact your dealer immediately.

. The Wireless ADSL Router Unit 1 Cat-5 Ethernet (LAN) cable 1 RJ-11 (ADSL) cable Power Adapter Quick Installation Guide CD-ROM containing the on-line manual. 4 Introduction Physical Details Front-mounted LEDs Figure 2: Front Panel Security/WPS Push the WPS button on the device and on your other wireless device to perform WPS function that easily creates an encryption-secured wireless connection automatically. On - Power on. Off - No power. WLAN On - Wireless enabled. Off - No Wireless connections currently exist. Flashing - Data is being transmitted or received via the Wireless access point. This includes "network traffic" as well as user data. LAN It indicates the connection of each port. If neither LED is on, there is no active connection on the corresponding LAN port.

On - ADSL connection established. Off - No ADSL connection currently exists. Flashing - ADSL is synchronizing. Internet On - Internet connection is available. Off - No Internet connection available.

Flashing - Data is being transmitted or received via the ADSL connection. Power LED ADSL 5 Wireless ADSL Router User Guide Rear Panel Figure 3: Rear Panel ADSL port LAN connections Connect this port to your ADSL line. Use standard LAN cables (RJ45 connectors) to connect your PCs to these ports. Note: Any LAN port on the Wireless ADSL Router will automatically function as an "Uplink" port when required. Just connect any port to a normal port on the other hub, using a standard LAN cable.

Reset Button (Reset to Defaults) This button will reset the Wireless ADSL Router to the factory default settings. To do this, press and hold the Reset Button for five (5) seconds, until the Power LED is lit, then release the Reset Button, and wait the Wireless ADSL Router to restart using the factory default values. Connect the supplied power adapter here. Power port 6 Chapter 2 Installation This Chapter covers the physical installation of the Wireless ADSL Router. 2 Requirements Network cables.



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Use standard 10/100BaseT network (UTP) cables with RJ45 connectors. TCP/IP protocol must be installed on all PCs. For Internet Access, an Internet Access account with an ISP, and a DSL connection. To use the Wireless Access Point, all Wireless devices must be compliant with the IEEE 802.11g or IEEE 802.

11b specifications. Procedure Figure 4: Installation Diagram 1. Choose an Installation Site Select a suitable place on the network to install the Wireless ADSL Router. For best Wireless reception and performance, the Wireless ADSL Router should be positioned in a central location with minimum obstructions between the Wireless ADSL Router and the PCs. Also, if using multiple Access Points, adjacent Access 7 Wireless ADSL Router User Guide Points should use different Channels. 2. Connect LAN Cables Use standard LAN cables to connect PCs to the Switching Hub ports on the Wireless ADSL Router. Both 10BaseT and 100BaseT connections can be used simultaneously. If required, connect any port to a normal port on another Hub, using a standard LAN cable. Any LAN port on the Wireless ADSL Router will automatically function as an "Uplink" port when required.

3. Connect ADSL Cable Connect the supplied ADSL cable from to the ADSL port on the Wireless ADSL Router (the RJ11 connector) to the ADSL terminator provided by your phone company. 4. Power Up Connect the supplied power adapter to the Wireless ADSL Router. Use only the power adapter provided. Using a different one may cause hardware damage. 5. Check the LEDs The Power LED should be ON. For the LAN (PC) connection, one of the LAN LEDs should be ON (provided the PC is also ON.) The WLAN LED should be ON The ADSL LED should be ON if ADSL line is connected. The Internet LED may be OFF. After configuration, it should come ON. For more information, refer to Front-mounted LEDs in Chapter 1. 8 Chapter 3 Setup Overview This Chapter provides Setup details of the Wireless ADSL Router. 3 This chapter describes the setup procedure for: . . . Internet Access LAN configuration Wireless setup Assigning a Password to protect the configuration data. PCs on your local LAN may also require configuration. For details, see Chapter 4 - PC Configuration. Other configuration may also be required, depending on which features and functions of the Wireless ADSL Router you wish to use. Use the table below to locate detailed instructions for the required functions. To Do this: Configure PCs on your LAN.

Check Wireless ADSL Router operation and Status. Use any of the following Advanced features: Internet (DMZ, URL Filter) Access Control Dynamic DNS Options Schedule Port Trigger Port Forward Port Range Forward QoS Refer to: Chapter 4: PC Configuration Chapter 5: Operation and Status Chapter 6: Advanced Features 9 Wireless ADSL Router User Guide Use any of the following Administration Configuration settings or features: PC Database Config File Logs E-mail Diagnostics Remote Admin Routing Upgrade Firmware Chapter 7 Advanced Administration 10 Setup Configuration Program The Wireless ADSL Router contains an HTTP server. This enables you to connect to it, and configure it, using your Web Browser. Your Browser must support JavaScript. The configuration program has been tested on the following browsers: . . . Netscape 7.1 or later. Mozilla 1.6 or later Internet Explorer V5.5 or later Preparation Before attempting to configure the Wireless ADSL Router, please ensure that: . Your PC can establish a physical connection to the Wireless ADSL Router. The PC and the Wireless ADSL Router must be directly connected (using the Hub ports on the Wireless ADSL Router) or on the same LAN segment.

The Wireless ADSL Router must be installed and powered ON. If the Wireless ADSL Router's default IP Address (192.168.0.1) is already used by another device, the other device must be turned OFF until the Wireless ADSL Router is allocated a new IP Address during configuration.

Using your Web Browser To establish a connection from your PC to the Wireless ADSL Router: 1. After installing the Wireless ADSL Router in your LAN, start your PC. If your PC is already running, restart it. 2. Start your WEB browser.

3. In the Address box, enter "HTTP://\" and the IP Address of the Wireless ADSL Router, as in this example, which uses the Wireless ADSL Router's default IP Address: HTTP://192.168.0.1 4. When prompted for the User name and Password, enter values as follows: . User name Password admin password 11 Wireless ADSL Router User Guide If you can't connect If the Wireless ADSL Router does not respond, check the following: . The Wireless ADSL Router is properly installed, LAN connection is OK, and it is powered ON. You can test the connection by using the "Ping" command: . Open the MS-DOS window or command prompt window. Enter the command: ping 192.168.0.

If no response is received, either the connection is not working, or your PC's IP address is not compatible with the Wireless ADSL Router's IP Address. (See next item.) . If your PC is using a fixed IP Address, its IP Address must be within the range 192.168.0.2 to 192.168.0.254 to be compatible with the Wireless ADSL Router's default IP Address of 192.168.

0.1. Also, the Network Mask must be set to 255.255.255.

0. See Chapter 4 - PC Configuration for details on checking your PC's TCP/IP settings. Ensure that your PC and the Wireless ADSL Router are on the same network segment. (If you don't have a router, this must be the case.) Ensure you are using the wired LAN interface.

The Wireless interface can only be used if its configuration matches your PC's wireless settings. . . Setup Wizard The first time you connect to the Wireless ADSL Router, you should run the Setup Wizard to configure the ADSL and Internet Connection. 1. Click the Setup Wizard link on the main menu 2. On the first screen, select VC 1 (Router - Primary Internet Connection), then click "Next" Figure 5: Setup Wizard Home Page 3. On the VCI screen, shown below, enter the VPI and VCI values provided by your ISP, then click "Next". 12 Setup Figure 6: Setup Wizard - VCI Figure 7: Setup Wizard - Internet Access 4. On the Internet Access Screen, shown above, select the correct connection type, as used by your ISP. Click "Next" and complete the configuration for your connection method. . . You need the data supplied by your ISP.

Your ISP's data will also have the DSL Multiplexing Method (LLC or VC) The common connection types are explained in the following table.. Details Your IP Address is allocated automatically, when you connect to you ISP.



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ISP Data required Often, none. Some ISP's may require you to use a particular Hostname or Domain name, or MAC (physical) address. IP Address allocated to you, and related information, such as Network Mask, Gateway IP address, and DNS address. Connection Type Dynamic IP Address Static (Fixed) IP Address Your ISP allocates a permanent IP Address to you. Usually, the connection is "Always on". 13 Wireless ADSL Router User Guide PPPoE, PPPoA You connect to the ISP only when required. The IP address is usually allocated automatically.

a) User name and password are always required. b) If using a Static (Fixed) IP address, you need the IP address and related information (Network Mask, Gateway IP address, and DNS address) IP Address allocated to you, and related information, such as Network Mask, Gateway IP address, and DNS address. IPoA (IP over ATM) Normally, the connection is "Always on". 5. 6.

7. Step through the Wizard until finished. On the final screen of the Wizard, run the test and check that an Internet connection can be established. If the connection test fails: · · Check all connections, and the front panel LEDs. Check that you have entered all data correctly.

Configuring VCs The Wireless ADSL Router supports multiple VCs (Virtual Circuits) on the ADSL connection. VC1 must be used for general-purpose Internet access. The other VCs are available for special purposes, such as Video-on-Demand. You can only use these VCs if supported by your ISP and ADSL service provider. In that case, they will provide the necessary configuration data. Some ISP's allow multiple PPPoE connections. This allows multiple PCs to connect to the Internet using PPPoE client software. When using the Wireless ADSL Router, multiple PPPoE connections are neither necessary nor supported. To Configure additional VCs 1. 2.

3. Start the Setup Wizard again. On the first screen, select VC2, and click "Next" Configure the VC setup screen as described below, then click "Next". 14 Setup Figure 8: Setup Wizard - VC2 Setup Wizard VC Screen VC Enable VPI VCI Multiplexing ATM Service LAN IP Address The VC number is displayed To use this VC, you must enable it by checking this checkbox. Enter the VPI value provided by your ISP. Enter the VPI value provided by your ISP. Select the multiplexing value provided by your ISP. Select the multiplexing value provided by your ISP. Enter the IP address of the device on your LAN which will receive the data on this VC. · · · For Video-on-Demand, this would be the IP address of your SetTop Box.

For VoIP, this would be the IP address of your VoIP TA. Note that this IP address does not have to be in the same IP address range as other devices on your local LAN. 4. 5. When finished, click "Next" and complete the Wizard.

After completing the Wizard, you can check the Status screen to see the VC has been corrected established. 15 Wireless ADSL Router User Guide Home Screen After finishing the Setup Wizard, you will see the Home screen. When you connect in future, you will see this screen when you connect. An example screen is shown below. Figure 9: Home Screen Main Menu The main menu, on the left, contains links to the most-commonly used screen.

To see the links to the other available screens, click "Advanced" or "Administration". The main menu also contains one (1) button: · Log Out - When finished, you should click this button to logout. Navigation & Data Input · · Use the menu bar on the left of the screen, and the "Back" button on your Browser, for navigation. Changing to another screen without clicking "Save" does NOT save any changes you may have made. You must "Save" before changing screens or your data will be ignored. On each screen, clicking the "Help" button will display help for that screen. 16 Setup LAN Screen Use the LAN link on the main menu to reach the LAN screen. An example screen is shown below. Figure 10: LAN Screen Data - LAN Screen TCP/IP IP Address IP address for the Wireless ADSL Router, as seen from the local LAN. Use the default value unless the address is already in use or your LAN is using a different IP address range.

In the latter case, enter an unused IP Address from within the range used by your LAN. The default value 255.255.255.0 is standard for small (class "C") networks. For other networks, use the Subnet Mask for the LAN segment to which the Wireless ADSL Router is attached (the same value as the PCs on that LAN segment). · If Enabled, the Wireless ADSL Router will allocate IP Addresses to PCs (DHCP clients) on your LAN when they start up. The default (and recommended) value is Enabled. If you are already using a DHCP Server, this setting must be Disabled, and the existing DHCP server must be re-configured to treat the Wireless ADSL Router as the default Gateway. See the following section for further details.

Subnet Mask DHCP Server · · The Start IP Address and Finish IP Address fields set the values used by the DHCP server when allocating IP Addresses to DHCP clients. This range also determines the number of DHCP clients supported. Enter the desired value for the Lease Time, which should be between 1 and 7. See the following section for further details on using DHCP. 17 Wireless ADSL Router User Guide DHCP What DHCP Does A DHCP (Dynamic Host Configuration Protocol) Server allocates a valid IP address to a DHCP Client (PC or device) upon request.

· · · · The client request is made when the client device starts up (boots). The DHCP Server provides the Gateway and DNS addresses to the client, as well as allocating an IP Address. The Wireless ADSL Router can act as a DHCP server. Windows 95/98/ME and other non-Server versions of Windows will act as a DHCP client. This is the default Windows setting for the TCP/IP network protocol.

However, Windows uses the term Obtain an IP Address automatically instead of "DHCP Client". You must NOT have two (2) or more DHCP Servers on the same LAN segment. (If your LAN does not have other Routers, this means there must only be one (1) DHCP Server on your LAN.) · Using the Wireless ADSL Router's DHCP Server This is the default setting. The DHCP Server settings are on the LAN screen. On this screen, you can: · · Enable or Disable the Wireless ADSL Router's DHCP Server function. Set the range of IP Addresses allocated to PCs by the DHCP Server function. You can assign Fixed IP Addresses to some devices while using DHCP, provided that the Fixed IP Addresses are NOT within the range used by the DHCP Server. Using another DHCP Server You can only use one (1) DHCP Server per LAN segment. If you wish to use another DHCP Server, rather than the Wireless ADSL Router's, the following procedure is required.



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· · Disable the DHCP Server feature in the Wireless ADSL Router. This setting is on the LAN screen. Configure the DHCP Server to provide the Wireless ADSL Router's IP Address as the Default Gateway. To Configure your PCs to use DHCP This is the default setting for TCP/IP for all non-Server versions of Windows. See Chapter 4 - Client Configuration for the procedure to check these settings. 18 Setup Wireless Screen The Wireless ADSL Router's settings must match the other Wireless stations. Note that the Wireless ADSL Router will automatically accept both 802.11b and 802.11g connections, and no configuration is required for this feature. To change the Wireless ADSL Router's default settings for the Wireless Access Point feature, use the Wireless link on the main menu to reach the Wireless screen.

An example screen is shown below. Figure 11: Wireless Screen Data - Wireless Screen Identification Region Select the correct domain for your location. It is your responsibility to ensure: · · Station name That the Wireless ADSL Router is only used in domains for which is licensed. That you select the correct domain, so that only the legal channels for that domain can be selected. This is the same as the "Device Name" for the Wireless ADSL Router.

19 Wireless ADSL Router User Guide SSID This is also called the "Network Name". · If using an ESS (Extended Service Set, with multiple access points) this ID is called an ESSID (Extended Service Set Identifier). To communicate, all Wireless stations should use the same SSID/ESSID. · Options Mode Select the desired mode: · · · 802.11g & 802.

11b - Both 802.11g and 802.11b Wireless stations will be able to use the Wireless ADSL Router. 802.11g only - Only 802.11g Wireless stations can use the Wireless ADSL Router. 802.11b only - Only 802.11b connections are available.

802.11g Wireless Stations will only be able to use the Wireless ADSL Router if they are fully backward-compatible with the 802.11b standard. If you experience interference (shown by lost connections and/or slow data transfers) you may need to experiment with different channels to see which is the best. If using multiple Access Points, adjacent Access Points should use different Channels to reduce interference. Channel No. Select the Channel you wish to use on your Wireless LAN. · · Broadcast SSID If enabled, the Wireless ADSL Router will broadcast its SSID. This allows PCs and other wireless stations to detect this Access Point and use the correct SSID. If disabled, PC users will have to manually enter the SSID and other details of the wireless interface before they can connect to this Access Point.

WMM Support Wireless Security Current Setting Configure Button Access Point Enable Wireless Access Point Enable or disable this feature as required. The current Wireless security is displayed. The default value is Disabled. Click this button to access the Wireless security sub-screen, and view or change the settings. See the following section for details.

Enable this if you want to use Wireless Access Point function. If disabled, no Wireless stations can use the Access Point function, and all connections must be made via the wired LAN. 20 Setup Allow access by ...

Use this feature to determine which Wireless stations can use the Access Point. The options are: · All Wireless Stations - All wireless stations can use the access point, provided they have the correct SSID and security settings. · Trusted Wireless stations only - Only wireless stations you designate as "Trusted" can use the Access Point, even if they have the correct SSID and security settings. This feature uses the MAC address to identify Wireless stations. The MAC address is a low-level network identifier which is unique to each PC or network device. To define the trusted wireless stations, use the "Set Stations" button. Set Stations Button Click this button to manage the trusted PC database. WiFi Protect Setup WPS Enable WPS-Configure WPS Configurable Enable this if you want to use Wireless WPS function. Click this button to open a sub-screen where you can modify the "WPS" settings. See the following section for more details.

Select the desired option: Enabled - Select this if you want to configure wireless through WPS. Disabled - WPS is unconfigurable. WiFi Protect Setup Click WPS-Configure on the Wireless screen to view a screen like the following. Figure 12: WiFi Protect Setup Screen Data - WiFi Protect Setup Screen WPS PIN Enrollee's PIN Device's PIN Enter the PIN code and click Add Client to AP to add the client device. Click the Generate Device's Pin button to have the new pin code displayed in the field. 21 Wireless ADSL Router User Guide Wireless Security This screen is accessed by clicking the "Configure" button on the Wireless screen. There are 3 options for Wireless security: · · · Disabled - no data encryption is used. WEP - data is encrypted using the WEP standard.

WPA-802.1x - This version of WPA requires a Radius Server on your LAN to provide the client authentication according to the 802.

1x standard. Data transmissions are encrypted using the WPA standard. If this option is selected: · · · · This Access Point must have a "client login" on the Radius Server. Each user must have a "user login" on the Radius Server. Each user's wireless client must support 802.

1x and provide the login data when required. All data transmission is encrypted using the WPA standard. Keys are automatically generated, so no key input is required. WPA2-802.1x - This version of WPA2 requires a Radius Server on your LAN to provide the client authentication according to the 802.

1x standard. Data transmissions are encrypted using the WPA2 standard. If this option is selected: · · · · This Access Point must have a "client login" on the Radius Server. Each user must authenticate on the Radius Server. This is usually done using digital certificates. Each user's wireless client must support 802.1x and provide the Radius authentication data when required. All data transmission is encrypted using the WPA2 standard. Keys are automatically generated, so no key input is required. WEP Wireless Security Figure 13: WEP Data - WEP Screen WEP Data Encryption WEP Data Select the desired option, and ensure the Wireless Stations use the same 22 Setup Encryption setting.

· 64 Bit - data is encrypted, using the default key, before being transmitted. You must enter at least the default key. For 64 Bit Encryption, the key size is 10 chars in HEX (0~9 and A~F). 128 Bit - data is encrypted, using the default key, before being transmitted. You must enter at least the default key. For 128 Bit Encryption, the key size is 26 chars in HEX (0~9 and A~F).



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· **Default Key** Select the key you wish to be the default. Transmitted data is ALWAYS encrypted using the Default Key; the other Keys are for decryption only. You must enter a Key Value for the Default Key. Key Value Enter the key value or values you wish to use.

The Default Key is required, the other keys are optional. Other stations must have the same key. If desired, you can generate a key from a phrase, instead of entering the key value directly. Enter the desired phrase, and click the "Generate Keys" button. Passphrase WPA-PSK Wireless Security Figure 14: WPA-PSK Data - WPA-PSK Screen PSK Enter the PSK (network key).

Data is encrypted using a key derived from the network key. Other Wireless Stations must use the same network key. The PSK must be from 8 to 63 characters in length. The WPA-PSK standard allows different encryption methods to be used. Select the desired option.

Wireless Stations must use the same encryption method. Encryption 23 Wireless ADSL Router User Guide WPA-802.1x Wireless Security Figure 15: WPA-802.1x Data - WPA-802.1x Screen Server Address Radius Port Shared Key Enter the server address here. Enter the port number used for connections to the Radius Server. Enter the shared key. Data is encrypted using a key derived from the network key. Other Wireless Stations must use the same key. The key must be from 8 to 63 characters in length.

The encryption method is TKIP. Wireless Stations must also use TKIP. Encryption 24 Setup WPA2-802.1x Wireless Security Figure 16: WPA2-802.1x Data - WPA2-802.1x Screen Server Address Radius Port Shared Key Enter the server address here. Enter the port number used for connections to the Radius Server. Enter the shared key. Data is encrypted using a key derived from the network key. Other Wireless Stations must use the same key.

The key must be from 8 to 63 characters in length. The encryption method is AES. Wireless Stations must also use AES. Encryption 25 Wireless ADSL Router User Guide Trusted Wireless Stations This feature can be used to prevent unknown Wireless stations from using the Access Point. This list has no effect unless the setting Allow access by trusted stations only is enabled.

To change the list of trusted wireless stations, use the Modify List button on the Access Control screen. You will see a screen like the sample below. Figure 17:

Trusted Wireless Stations Data - Trusted Wireless Stations Trusted Wireless Stations Other Wireless Stations Name Address Buttons << Add a Trusted Wireless Station to the list (move from the "Other Stations" list). · · >> Select an entry (or entries) in the "Other Stations" list, and click the "<<" button.

Enter the Address (MAC or physical address) of the wireless station, and click the "Add" button.

This lists any Wireless Stations which you have designated as "Trusted". This list any Wireless Stations detected by the Access Point, which you have not designated as "Trusted". The name assigned to the Trusted Wireless Station. Use this when adding or editing a Trusted Station. The MAC (physical) address of the Trusted Wireless Station. Use this when adding or editing a Trusted Station. Delete a Trusted Wireless Station from the list (move to the "Other Stations" list). · · Select an entry (or entries) in the "Trusted Stations" list. Click the ">>" button. 26 Setup Edit Use this to change an existing entry in the "Trusted Stations" list: 1.

Select the Station in the Trusted Station list. 2. Click the Edit button. The address will be copied to the "Address" field, and the Add button will change to Update. 3. Edit the address (MAC or physical address) as required. 4. Click Update to save your changes. To add a Trusted Station which is not in the "Other Wireless Stations" list, enter the required data and click this button. When editing an existing Wireless Station, this button will change from Add to Update. Add (Update) Clear Clear the Name and Address fields. 27 Wireless ADSL Router User Guide Password Screen The password screen allows you to assign a password to the Wireless ADSL Router. Figure 18: Password Screen Old Password New password Verify password Enter the existing password in this field. Enter the new password here. Re-enter the new password here.

You will be prompted for the password when you connect, as shown below. Figure 19: Password Dialog · · The "User Name" is always admin Enter the password for the Wireless ADSL Router, as set on the Password screen above. 28 Setup Mode Screen Use this screen to change the mode between Router mode and Modem (Bridge) mode. Figure 20: Mode Screen Select the desired option, and click "Save". Router Both the ADSL Modem and the Router features are operational.

In this mode, this device can provide shared Internet Access to all your LAN users. Also, by default, it acts a DHCP Server, providing an IP address and related information to all Wireless and LAN users. Only the ADSL Modem component is operational. · All Router features are disabled. This device is "transparent" - it does not perform any operations or make any changes to the network traffic passing through it. You need to have a DHCP Server on your LAN to provide IP addresses to the Wireless clients using this Access Point. All traffic received on either the Wireless or LAN interface will be sent over the ADSL connection. Modem · · Notes: · · · Generally, you should NOT use modem mode. Only select this mode if you are sure this is what you want. After changing the mode, this device will restart, which will take a few seconds.

The menu will also change, depending on the mode you are in. The Wireless Access Point can function in either Router or Modem mode. But generally it is not a good idea to combine a Modem with an Access Point, because all data received from the wireless stations will be sent over the modem connection.

(Since the modem is transparent, it does not examine the traffic to determine whether the traffic is for the LAN or the WAN.) For details on using Modem Mode, see Chapter 8. · 29 Chapter 4 PC Configuration This Chapter details the PC Configuration required on the local ("Internal") LAN. 4 Overview For each PC, the following may need to be configured: · · · TCP/IP network settings Internet Access configuration Wireless configuration Windows Clients This section describes how to configure Windows clients for Internet access via the Wireless ADSL Router. The first step is to check the PC's TCP/IP settings. The Wireless ADSL Router uses the TCP/IP network protocol for all functions, so it is essential that the TCP/IP protocol be installed and configured on each PC.



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TCP/IP Settings - Overview If using the default Wireless ADSL Router settings, and the default Windows TCP/IP settings, no changes need to be made. · · By default, the Wireless ADSL Router will act as a DHCP Server, automatically providing a suitable IP Address (and related information) to each PC when the PC boots. For all non-Server versions of Windows, the default TCP/IP setting is to act as a DHCP client. If using a Fixed (specified) IP address, the following changes are required: · · The Gateway must be set to the IP address of the Wireless ADSL Router. The DNS should be set to the address provided by your ISP. If your LAN has a Router, the LAN Administrator must reconfigure the Router itself. Refer to Chapter 8 - Advanced Setup for details.

30 PC Configuration Checking TCP/IP Settings - Windows 9x/ME: 1. Select Control Panel - Network. You should see a screen like the following: Figure 21: Network Configuration 2. 3. Select the TCP/IP protocol for your network card.

Click on the Properties button. You should then see a screen like the following. Figure 22: IP Address (Win 95) Ensure your TCP/IP settings are correct, as follows: Using DHCP To use DHCP, select the radio button Obtain an IP Address automatically. This is the default Windows setting. Using this is recommended. By default, the Wireless ADSL Router will act as a DHCP Server. Restart your PC to ensure it obtains an IP Address from the Wireless ADSL Router. Using "Specify an IP Address" If your PC is already configured, check with your network administrator before making the following changes: 31 Wireless ADSL Router User Guide · On the Gateway tab, enter the Wireless ADSL Router's IP address in the New Gateway field and click Add, as shown below. Your LAN administrator can advise you of the IP Address they assigned to the Wireless ADSL Router. Figure 23: Gateway Tab (Win 95/98) · On the DNS Configuration tab, ensure Enable DNS is selected.

If the DNS Server Search Order list is empty, enter the DNS address provided by your ISP in the fields beside the Add button, then click Add. Figure 24: DNS Tab (Win 95/98) 32 PC Configuration Checking TCP/IP Settings - Windows NT4.0 1. Select Control Panel - Network, and, on the Protocols tab, select the TCP/IP protocol, as shown below. Figure 25: Windows NT4.0 - TCP/IP 2. Click the Properties button to see a screen like the one below. 33 Wireless ADSL Router User Guide Figure 26: Windows NT4.0 - IP Address 3. 4.

Select the network card for your LAN. Select the appropriate radio button - Obtain an IP address from a DHCP Server or Specify an IP Address, as explained below. Obtain an IP address from a DHCP Server This is the default Windows setting. Using this is recommended. By default, the Wireless ADSL Router will act as a DHCP Server.

Restart your PC to ensure it obtains an IP Address from the Wireless ADSL Router. Specify an IP Address If your PC is already configured, check with your network administrator before making the following changes. 1. The Default Gateway must be set to the IP address of the Wireless ADSL Router. To set this: · · Click the Advanced button on the screen above.

On the following screen, click the Add button in the Gateways panel, and enter the Wireless ADSL Router's IP address, as shown in Figure 27 below. If necessary, use the Up button to make the Wireless ADSL Router the first entry in the Gateways list. 34 PC Configuration Figure 27 - Windows NT4.0 - Add Gateway 2. The DNS should be set to the address provided by your ISP, as follows: · · Click the DNS tab. On the DNS screen, shown below, click the Add button (under DNS Service Search Order), and enter the DNS provided by your ISP. Figure 28: Windows NT4.0 - DNS 35 Wireless ADSL Router User Guide Checking TCP/IP Settings - Windows 2000: 1. 2. Select Control Panel - Network and Dial-up Connection.

Right - click the Local Area Connection icon and select Properties. You should see a screen like the following: Figure 29: Network Configuration (Win 2000) 3. 4. Select the TCP/IP protocol for your network card. Click on the Properties button. You should then see a screen like the following. Figure 30: TCP/IP Properties (Win 2000) 36 PC Configuration 5. Ensure your TCP/IP settings are correct, as described below. Using DHCP To use DHCP, select the radio button Obtain an IP Address automatically. This is the default Windows setting.

Using this is recommended. By default, the Wireless ADSL Router will act as a DHCP Server. Restart your PC to ensure it obtains an IP Address from the Wireless ADSL Router. Using a fixed IP Address ("Use the following IP Address") If your PC is already configured, check with your network administrator before making the following changes. · Enter the Wireless ADSL Router's IP address in the Default gateway field and click OK.

(Your LAN administrator can advise you of the IP Address they assigned to the Wireless ADSL Router.) If the DNS Server fields are empty, select Use the following DNS server addresses, and enter the DNS address or addresses provided by your ISP, then click OK. · 37 Wireless ADSL Router User Guide Checking TCP/IP Settings - Windows XP 1. 2. Select Control Panel - Network Connection.

Right click the Local Area Connection and choose Properties. You should see a screen like the following: Figure 31: Network Configuration (Windows XP) 3. 4. Select the TCP/IP protocol for your network card. Click on the Properties button. You should then see a screen like the following. 38 PC Configuration Figure 32: TCP/IP Properties (Windows XP) 5. Ensure your TCP/IP settings are correct. Using DHCP To use DHCP, select the radio button Obtain an IP Address automatically. This is the default Windows setting.

Using this is recommended. By default, the Wireless ADSL Router will act as a DHCP Server. Restart your PC to ensure it obtains an IP Address from the Wireless ADSL Router. Using a fixed IP Address ("Use the following IP Address") If your PC is already configured, check with your network administrator before making the following changes. · In the Default gateway field, enter the Wireless ADSL Router's IP address and click OK. Your LAN administrator can advise you of the IP Address they assigned to the Wireless ADSL Router. If the DNS Server fields are empty, select Use the following DNS server addresses, and enter the DNS address or addresses provided by your ISP, then click OK. · 39 Wireless ADSL Router User Guide Checking TCP/IP Settings - Windows Vista 1. From the Start menu, right-click Network, then click Properties. Now, the Network and Sharing Center displays.

2. Under Tasks located on the left-hand side of the window, click Manage network connections. 3. In Network Connections window displays, right click on the correct Local Area Connection, then click Properties.



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Pop-up window displays that states Windows needs your permission to continue. Click Continue to open the Local Area Connection Properties window 40 PC Configuration 5. Select Internet Protocol Version 4 (TCP/IPv4), then click Properties. From the General tab, verify that Obtain an IP address automatically and Obtain DNS server address automatically are selected. Click the OK button.

41 Wireless ADSL Router User Guide Internet Access To configure your PCs to use the Wireless ADSL Router for Internet access: · · Ensure that the DSL modem, Cable modem, or other permanent connection is functional. Use the following procedure to configure your Browser to access the Internet via the LAN, rather than by a Dial-up connection. For Windows 9x/ME/2000 1. 2. 3. 4. 5. 6. 7. Select Start Menu - Settings - Control Panel - Internet Options.

Select the Connection tab, and click the Setup button. Select "I want to set up my Internet connection manually, or I want to connect through a local area network (LAN)" and click Next. Select "I connect through a local area network (LAN)" and click Next. Ensure all of the boxes on the following Local area network Internet Configuration screen are unchecked. Check the "No" option when prompted "Do you want to set up an Internet mail account now?". Click Finish to close the Internet Connection Wizard. Setup is now completed. For Windows XP 1. 2. 3.

4. 5. 6. 7. 8.

9. Select Start Menu - Control Panel - Network and Internet Connections. Select Set up or change your Internet Connection. Select the Connection tab, and click the Setup button. Cancel the pop-up "Location Information" screen.

Click Next on the "New Connection Wizard" screen. Select "Connect to the Internet" and click Next. Select "Set up my connection manually" and click Next. Check "Connect using a broadband connection that is always on" and click Next. Click Finish to close the New Connection Wizard. Setup is now completed.

For Windows Vista 1. 2. 3. 4.

5. Select Start Menu - Control Panel - Network and Internet Connections Select the Network and Sharing Center icon. Select Set up a Connection or Network A new window will pop up, choose the Connection option. Select Connect to the Internet Select the Connection from the list and click on next Accessing AOL To access AOL (America On Line) through the Wireless ADSL Router, the AOL for Windows software must be configured to use TCP/IP network access, rather than a dial-up connection. The configuration process is as follows: · · Start the AOL for Windows communication software. Ensure that it is Version 2.5, 3.0 or later. This procedure will not work with earlier versions. Click the Setup button.

42 PC Configuration · · · · Select Create Location, and change the location name from "New Locality" to "Wireless ADSL Router". Click Edit Location. Select TCP/IP for the Network field. (Leave the Phone Number blank.) Click Save, then OK.

Configuration is now complete. Before clicking "Sign On", always ensure that you are using the "Wireless ADSL Router" location. 43 Wireless ADSL Router User Guide Macintosh Clients From your Macintosh, you can access the Internet via the Wireless ADSL Router. The procedure is as follows. 1.

Open the TCP/IP Control Panel. 2. Select Ethernet from the Connect via pop-up menu. 3. Select Using DHCP Server from the Configure pop-up menu. The DHCP Client ID field can be left blank. 4. Close the TCP/IP panel, saving your settings. Note: If using manually assigned IP addresses instead of DHCP, the required changes are: · · Set the Router Address field to the Wireless ADSL Router's IP Address. Ensure your DNS settings are correct.

Linux Clients To access the Internet via the Wireless ADSL Router, it is only necessary to set the Wireless ADSL Router as the "Gateway". Ensure you are logged in as "root" before attempting any changes. Fixed IP Address By default, most Unix installations use a fixed IP Address. @@@@1. Start your X

Windows client. 2. Select Control Panel - Network 3. Select the "Interface" entry for your Network card. Normally, this will be called "eth0". 4. @5. @@@@The default value is Wireless. Note! The SSID is case sensitive. @@@@Open the Network Connections folder. @3. @@@@The Connect button will then be available. @@Re-enter the WEP key into the Confirm Network key field. @@@@The default value is 1. Ensure the options The key is provided for me automatically and This is a computer-to-computer (ad hoc) network are unchecked. Click OK to save and close this dialog.

This wireless network will now be listed in Preferred Networks on the screen below. Figure 39: Preferred Networks Click OK to establish a connection to the Wireless ADSL Router. 49 Wireless ADSL Router User Guide If using WPA-PSK Data Encryption If WPA-PSK data encryption has been enabled on the Wireless ADSL Router, it does not matter which network is selected on the screen below. Just click the Advanced button. Figure 40: Wireless Networks (Windows XP) You will then see a screen like the example below. Figure 41: Advanced - Wireless Networks Select the SSID for the Wireless ADSL Router, and click Configure, to see a screen like the following: 50 PC Configuration Figure 42: Wireless Network Properties- WPA-PSK Configure this screen as follows: · · · · Set Network Authentication to WPA-PSK. For Data Encryption, select TKIP. For the Network key and Confirm network key, enter the network key (PSK) used on the Wireless ADSL Router. Ensure the option This is a computer-to-computer (ad hoc) network is unchecked. Click OK to save and close this dialog.

This wireless network will now be listed in Preferred Networks on the screen below. 51 Wireless ADSL Router User Guide Figure 43: Preferred Networks Click OK to establish a connection to the Wireless ADSL Router. If the SSID is not listed If the "Broadcast SSID" setting on the Wireless ADSL Router has been disabled, its SSID will NOT be listed on the screen below. Figure 44: Wireless Networks (Windows XP) In this situation, you need to obtain the SSID from your network administrator, then follow this procedure: 52 PC Configuration 1. Click the Advanced button to see a screen like the example below. Figure 45: Unlisted Wireless Network 2. Click the Add button. You will see a screen like the example below. Figure 46: Add Wireless Network 3. Configure this screen as follows: · · Enter the correct SSID, as used on the Wireless ADSL Router.

Remember the SSID is case-sensitive, so be sure to match the case, not just the spelling. Set Network Authentication and Data Encryption to match the Wireless ADSL Router. 53 Wireless ADSL Router User Guide · · If using data encryption (WEP or WPA-PSK), enter the key used on the Wireless ADSL Router.



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See the preceding sections for details of WEP and WPA-PSK. Uncheck the options The key is provided for me automatically and This is a computerto-computer (ad hoc) network.

4. Click OK to save and exit. This wireless network will then be listed in Preferred Networks on the screen below. Figure 47: Preferred Networks 5. Click OK to establish a connection to the Wireless ADSL Router.

54 Chapter 5 Operation and Status This Chapter details the operation of the Wireless ADSL Router and the status screens. For Details of operation in Bridge (Modem) mode, see Chapter 8 Modem Mode. 5 Operation - Router Mode Once both the Wireless ADSL Router and the PCs are configured, operation is automatic. However, there are some situations where additional Internet configuration may be required. Refer to Chapter 6 - Advanced Features for further details. Status Screen Use the Status link on the main menu to view this screen. Figure 48: Status Screen 55 Wireless ADSL Router User Guide Data - Status Screen ADSL Modem Status DownStream Connection Speed UpStream Connection Speed VC 1 ~ 8 Status This indicates the status of the ADSL modem component. Displays the speed for the DownStream Connection. If connected, displays the speed for the Up Stream (upload) ADSL Connection. For each VC (Virtual Circuit), the current status is displayed.

This will be either "Enabled" or "Disabled". Note: VC 1 is a standard (Routed) Internet connection. Other VCs are Bridge-mode connections. ADSL Details Internet (VC1) Connection Method Connection Status Displays the current connection method, as set in the Setup Wizard. This indicates the current status of the Internet Connection · Active - Connection exists Idle - No current connection, but no error has been detected. This condition normally arises when an idle connection is automatically terminated. Failed - The connection was terminated abnormally. This could be caused by Modem failure, or the loss of the connection to the ISP's server. Click this button to open a sub-window and view the details of each VC (Virtual Circuit). · If there is an error, you can click the "Connection Details" button to find out more information.

Internet IP Address This IP Address is allocated by the ISP (Internet Service Provider). If using a dynamic IP address, and no connection currently exists, this information is unavailable. It displays the MAC address for the WAN. Click this button to open a sub-window and view a detailed description of the current connection. Depending on the type of connection, a "log" may also be available.

WAN MAC Address Connection Details LAN IP Address Network Mask DHCP Server MAC Address Wireless Name (SSID) If using an ESS (Extended Service Set, with multiple access The IP Address of the Wireless ADSL Router. The Network Mask (Subnet Mask) for the IP Address above. This shows the status of the DHCP Server function. The value will be "Enabled" or "Disabled". This shows the MAC Address for the Wireless ADSL Router, as seen on the LAN interface.

56 Operation and Status points) this ID is called an ESSID (Extended Service Set Identifier). Region Channel Wireless AP Broadcast Name System Device Name Firmware Version Buttons ADSL Details Connection Details Attached Devices Refresh Screen View the details of each VC (Virtual Circuit). Click this button to open a sub-window and view a detailed description of the current connection. This will open a sub-window, showing all LAN and Wireless devices currently on the network. Update the data displayed on screen. The current name of the Router. This name is also the "hostname" for users with an "@Home" type connection. The version of the current firmware installed. The current region, as set on the Wireless screen. This shows the Channel currently used, as set on the Wireless screen.

This indicates whether or not the Wireless Access Point feature is enabled. This indicates whether or not the SSID is Broadcast. This setting is on the Wireless screen. 57 Wireless ADSL Router User Guide Connection Status - PPPoE & PPPoA If using PPPoE (PPP over Ethernet) or PPPoA (PPP over ATM), a screen like the following example will be displayed when the "Connection Details" button is clicked. Figure 49: PPPoE Status Screen Data - PPPoE/PPPoA Screen Connection Time PPPoE Link Status This indicates how long the current connection has been established. This indicates whether or not the connection is currently established. · Negotiation IP Address Network Mask Buttons Connect Disconnect Close If not connected, establish a connection to your ISP. If connected to your ISP, hang up the connection. Close this window. If the connection does not exist, the "Connect" button can be used to establish a connection.

If the connection currently exists, the "Disconnect" button can be used to break the connection. This indicates the status of the PPPoE Server login. The IP Address of this device, as seen by Internet users. This address is allocated by your ISP (Internet Service Provider). The Network Mask associated with the IP Address above.

58 Operation and Status Connection Details - Dynamic IP Address If your access method is "Direct" (no login), with a Dynamic IP address, a screen like the following example will be displayed when the "Connection Details" button is clicked. Figure 50: Connection Details - Fixed/Dynamic IP Address Data - Dynamic IP address Internet IP Address Network Mask Default Gateway DHCP Server DNS Server Lease Obtained Lease Expires Buttons Release If an IP Address has been allocated to the Wireless ADSL Router (by the ISP's DHCP Server, clicking the "Release" button will break the connection and release the IP Address. If the ISP's DHCP Server has NOT allocated an IP Address for the Wireless ADSL Router, clicking the "Renew" button will attempt to re-establish the connection and obtain an IP Address from the ISP's DHCP Server. Close this window. The current IP Address of this device, as seen by Internet users.

This address is allocated by your ISP (Internet Service Provider). The Network Mask associated with the IP Address above. The IP address of the remote Gateway or Router associated with the IP Address above. The IP address of your ISP's DHCP Server. The IP address of the Domain Name Server which is currently used. This indicates when the current IP address was obtained, and how long before this IP address allocation (the DHCP lease) expires. Renew Close 59 Wireless ADSL Router User Guide Connection Details - Fixed IP Address If your access method is "Direct" (no login), with a fixed IP address, a screen like the following example will be displayed when the "Connection Details" button is clicked. Figure 51: Connection Details - Fixed/Dynamic IP Address Data - Fixed IP address Screen Internet IP Address Network Mask Default Gateway DNS Server The IP Address of this device, as seen by Internet users.



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This address is allocated by your ISP (Internet Service Provider). The Network Mask associated with the IP Address above.

The IP Address of the remote Gateway or Router associated with the IP Address above. The IP Address of the Domain Name Server which is currently used. 60 Chapter 6 Advanced Features This Chapter explains when and how to use the Wireless ADSL Router's "Advanced" Features. 6 Overview The following advanced features are provided: · Internet: · · · · · · · · · · DMZ URL filter Access Control Dynamic DNS Options Schedule Port Trigger Port Forward Port Range Forward QoS Internet This screen provides access to the DMZ, Special Applications and URL Filter features. Figure 52: Internet Screen DMZ This feature, if enabled, allows the DMZ computer on your LAN to be exposed to all users on the Internet. · · · This allows almost any application to be used on the "DMZ PC". The "DMZ PC" will receive all "Unknown" connections and data. If the DMZ feature is enabled, you must select the PC to be used as the "DMZ PC". 61 Wireless ADSL Router User Guide The "DMZ PC" is effectively outside the Firewall, making it more vulnerable to attacks. For this reason, you should only enable the DMZ feature when required.

URL Filter If you want to limit access to certain sites on the Internet, you can use this feature. The URL filter will check each Web site access. If the address, or part of the address, is included in the block site list, access will be denied. On the Advanced Internet screen, select the desired setting: · · · Disable - disable this feature. Block Always - allow blocking all of the time, independent of the Schedule page.

Block By Schedule - block according to the settings on the Schedule page. Click the Configure URL Filter button to open the URL Filter screen, allowing you to create or modify the filter strings which determine which sites will be blocked. The URL Filter screen is displayed when the Configure URL Filter button on the Advanced Internet screen is clicked. Figure 53: URL Filter Screen 62 Advanced Features Data - URL Filter Screen Current Filter Strings Current Filter Strings The list contains the current list of items to block. · · · Add Filter String To add to the list, use the "Add" option below.

To delete an entry, select it and click Delete button. To delete all entries, click the Delete All button. To add to the current list, type the word or domain name you want to block into the field provided, then click the Add button. Filter strings should be as specific as possible. Otherwise, you may block access to many more sites than intended. Trusted PC Allow this PC to.. Enable this to allow one computer to have unrestricted access to the Internet. For this PC, the URL filter will be ignored. If enabled, you must select the PC to be the trusted PC.

Trusted PC Enter the PC to be the Trusted PC. 63 Wireless ADSL Router User Guide Dynamic DNS (Domain Name Server) This free service is very useful when combined with the Virtual Server feature. It allows Internet users to connect to your Virtual Servers using a URL, rather than an IP Address. This also solves the problem of having a dynamic IP address. With a dynamic IP address, your IP address may change whenever you connect, which makes it difficult to connect to you. DDNS Services work as follows: 1. 2. 3. 4. 5.

You must register for the service at one of the listed DDNS Service providers. After registration, use the Service provider's normal procedure to obtain your desired Domain name. Enter your DDNS data on the Wireless ADSL Router's DDNS screen, and enable the DDNS feature. The Wireless ADSL Router will then automatically ensure that your current IP Address is recorded at the DDNS service provider's Domain Name Server. From the Internet, users will be able to connect to your Virtual Servers (or DMZ PC) using your Domain name, as shown on this screen.

Dynamic DNS Screen Select Advanced on the main menu, then Dynamic DNS, to see a screen like the following: Figure 54: DDNS Screen Data - Dynamic DNS Screen DDNS Service Use a Dynamic DNS Service Service Provider Web Site DDNS Data Host Name User Name Password Enter the domain name allocated to you by the DDNS Service. If you have more than one name, enter the name you wish to use. Enter your Username for the DDNS Service. (TZO.com uses your Email address.

) Enter your current password for the DDNS Service. (TZO.com calls Use this to enable or disable the DDNS feature as required. Select the desired DDNS Service provider. Click this button to open a new window and connect to the Web site of the selected DDNS service provider. 64 Advanced Features this a key.) DDNS Status · · · This message is returned by the DDNS Server. Normally, this message should be "Update successful" If the message indicates some problem, you need to connect to the DDNS Service provider and correct this problem. 65 Wireless ADSL Router User Guide Options This screen allows advanced users to enter or change a number of settings. For normal operation, there is no need to use this screen or change any settings.

An example Options screen is shown below. Figure 55: Options Screen Data - Options Screen Internet Respond to Ping · · If checked, the Wireless Router will respond to Ping (ICMP) packets received from the Internet. If not checked, Ping (ICMP) packets from the Internet will be ignored. Disabling this option provides a slight increase in security. MTU Size Enter a value between 1 and 1500. Note: MTU (Maximum Transmission Unit) size should only be changed if advised to do so by Technical Support. UPnP UPnP · UPnP (Universal Plug and Play) allows automatic discovery and configuration of equipment attached to your LAN. UPnP is by supported Windows ME, XP, or later. If Enabled, this device will be visible via UPnP. If Disabled, this device will not be visible via UPnP.

· · Advertisement Period Advertisement Time to Live Enter the desired value, in minutes. The valid range is from 1 to 1440. Enter the desired value, in hops. The valid range is from 1 to 255. 66 Advanced Features Schedule This Schedule can be used for the Firewall Rules and the URL filter.

Figure 56: Schedule Screen Data - Schedule Screen Schedule Day Session 1 Session 2 Start Time Finish Time Local Time Time Zone Adjust for Daylight Savings Time In order to display your local time correctly, you must select your "Time Zone" from the list. If your region uses Daylight Savings Time, you must manually check "Adjust for Daylight Savings Time" at the beginning of the adjustment period, and uncheck it at the end of the Daylight Savings period.



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