

ZXV10 W300
Wireless ADSL Router

User's Manual

ZTE CORPORATION

ZXV10 W300 Wireless ADSL Router

User's Manual

Manual version 20050530-R1.0

Product version V1.0

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Contents

1 OVERVIEW.....	1
1.1 FEATURES.....	1
1.2 PACKING.....	3
1.3 SYSTEM REQUIREMENT.....	4
1.4 RF SAFETY.....	4
2 ZXV10 W300 HARDWARE.....	5
2.1 EXTERNAL VIEW.....	5
2.2 INDICATORS AND PORTS.....	6
3 FAST INSTALLATION.....	9
3.1 HARDWARE CONNECTIONS.....	9
3.2 ZXV10 W300 FACTORY DEFAULTS.....	12
3.3 COMPUTER SETUP.....	12
4 WIZARD.....	15
4.1 LOGGING ON TO THE ZXV10 W300 DEVICE.....	15
4.2 CONFIGURING VPIs AND VCIS.....	16
4.3 SELECTING CONNECTION TYPES.....	17
4.4 SETTING CONFIGURATIONS.....	18
4.5 DISPLAYING CONFIGURATION DATA.....	24
4.6 OTHER COMMON CONFIGURATIONS.....	25
4.6.1 UPnP.....	25
4.6.2 DMZ.....	26
5 TECHNICAL SPECIFICATIONS.....	30
5.1 HARDWARE SPECIFICATIONS.....	30
5.2 SOFTWARE SPECIFICATIONS.....	31
6 TROUBLESHOOTING.....	34

1 Overview

Thank you for using ZTE's ZXV10 W300 Wireless ADSL Router. Please read this manual carefully before using the product.

ZXV10 W300 is an enhanced wireless ADSL use-end access device providing uplinks in multiple line transmission modes. It provides four 10/100Base-T Ethernet interfaces, one 802.11g/b wireless interface and one USB interface (optional). ZXV10 W300 provides the users with broadband Internet or enterprise network access services via high-speed ADSL/ADSL2/ADSL2+ access.

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Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

1.1 Features

- Provide ADSL/ADSL2/ADSL2+ high-speed Internet access over ordinary telephone lines.
- Support G.992.1, G.992.2, G.992.3, G.992.5, T1.413
- Provide four 10/100Base-T Ethernet interfaces

supporting automatic identification of crossover cable and straight-through cable.

- Provide one IEEE 802.11g/b wireless interface
- Provide one USB Slave interface (optional)
- Provide wireless data security using WEP-64, WEP-128, WEP-256, WPA-PSK and MAC address filtering
- Provide functional features including subscriber isolation, ESSID hiding and multi-ESSID
- Support Bridge and Router modes
- Support eight PVC connections and auto-negotiation
- Support RFC 2684 and PPPoE bridging function
- Support RFC2684 routing and IPoA, PPPoA and PPPoE dial-up
- Support NAT and IP filtering functions, with built-in firewall.
- Support network configuration using DHCP
- Support UPnP, SNTP, DMZ, IGMP Proxy and DNS Proxy functions
- Support ATM QoS and IP QoS functions
- Support configuration via web and SNMP management

- High reliability, ease of use and low power consumption
 - High compatibility and interoperability with various office-end DSLAMs
-



Note:

Corresponding ISP services are required for the above functions.

1.2 Packing

The device list in the package contains:

- ZXV10 W300 Wireless ADSL Router 1
- External splitter 1
- Power supply adapter 1
- Telephone lines 2
- Straight-through cable 1
- Warranty card 1
- Certificate of Quality 1
- ZXV10 W300 Wireless ADSL Router User's Manual

1.3 System Requirement

Before using ZXV10 W300, please ensure the following system requirement:

- ADSL service has been subscribed. Your ADSL Service Provider must provide you with at least 1 legal IP address (allocated dynamically via dial-up or statically)
- One or more PCs with 10M/100M Ethernet Network Interface Card (NIC)
- For wireless access, an external or built-in 802.11g/b wireless NIC is required.
- To set up the system via web, a browser is required, e.g. Internet Explorer V5.0 or later, or Netscape V4.7 or later.

1.4 RF safety

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

2 ZXV10 W300 Hardware

2.1 External View

See FIGURE 1 for the external view.







FIGURE 1 ZXV10 W300 External View






2.2 Indicators and Ports

See TABLE 1 for the front panel indicator description.

TABLE 1 FRONT PANEL INDICATOR DESCRIPTION

Indicator	Color	Functions
	Red	Steady ON: Indicates power-on. OFF: Indicates power-off or failure
	Green	Steady ON: The device is connected to the Internet via successful built-in dial-up.
	Green	Slow flashing: Indicates the device operates normally. OFF: Indicates an operation failure.
	Green	Steady ON: Indicates WLAN enabled. Flashing: Indicates data sending/receiving on the WLAN port. OFF: Indicates WLAN disabled.
	Green	Steady ON: Indicates LAN1 connection established. Flashing: Indicates data sending/receiving on the LAN1 port. OFF: Indicates no connection is established on the LAN1 port.
	Green	Steady ON: Indicates LAN2 connection established. Flashing: Indicates data sending/receiving on the LAN2 port. OFF: Indicates no connection is established on the LAN2 port.

Indicator	Color	Functions
 3	Green	Steady ON: Indicates LAN3 connection established. Flashing: Indicates data sending/receiving on the LAN3 port. OFF: Indicates no connection is established on the LAN3 port.
 4	Green	Steady ON: Indicates LAN4 connection established. Flashing: Indicates data sending/receiving on the LAN4 port. OFF: Indicates no connection is established on the LAN4 port.
	Green	Steady ON: Indicates an ADSL connection is established and activated. Slow flashing: Indicates a connection is being established on the ADLS line. OFF: Indicates no ADSL connection can be established.

See TABLE 2 for the back panel port description.

TABLE 2 BACK PANEL PORT DESCRIPTION

Port	Functions
Power	For connecting the power adaptor
On/Off	Power On/Off
Reset	When the device is powered on and activated, inserting a needle in the hole and pressing it for more than 10 seconds will reset the device to the factor defaults.
Wi-Fi	WLAN radio frequency ON/OFF
LAN1~4	NIC connected to a PC via RJ45 cable
DSL	Connected to the ADSL line or splitter via RJ11 telephone line

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3 Fast Installation

This chapter tells you how to connect the ZXV10 W300 to a PC, Intranet or the Internet.

It is assumed that you have signed up for the ADSL service from the Service Provider. In addition, this chapter contains only basic product setup, which is applicable to the network environment of general subscribers or enterprise users.

3.1 Hardware Connections

It is recommended to install the device in practical applications according to the first sample.



Note:

You can install the device according to the second sample if the first sample is not applicable. A voice filter (which cannot be replaced by the splitter) should be installed near the telephone line terminal.

Phone sets connected in parallel before the splitter will cause many problems, e.g. the ZXV10 W300 device cannot be connected to office-end devices; networks cannot be accessed or the network access speed will be slow. To connect phone sets before the splitter, a voice filter should be connected in serial before the phone sets. (In general,

only one voice filter can be connected before the splitter to reduce interference)

To connect the ZXV10 W300 device:

1. Connect the DSL port to the MODEM port of the splitter using a telephone line. Connect a phone set to the phone port of the splitter using another telephone line, and then connect the subscriber telephone line providing the ADSL service to the LINE port of the splitter, as shown in FIGURE 2 and FIGURE 3.

The splitter has three ports, including:

- LINE: Port connected to the subscriber telephone line providing the ADSL service
- MODEM: Port connected to the DSL port of the ZXV10 W300 device
- PHONE: Port connected to a phone set.

2. Connect the LAN port of the device to a PC with a NIC using an RJ45 cable.

3. Connect the power adapter to the Power port of the device, and plug the adapter to the AC power outlet. The device will be powered on and operate after you pushing the power switch button.



Note:

You can only use the power adapter provided with the ZXV10 W300 device. Using other power adapter may damage the device or cause device operation failures.

FIGURE 2 Installation sample 1: When the splitter is installed on the telephone line port

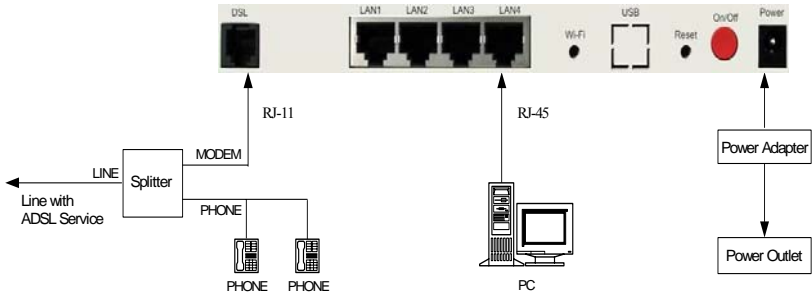
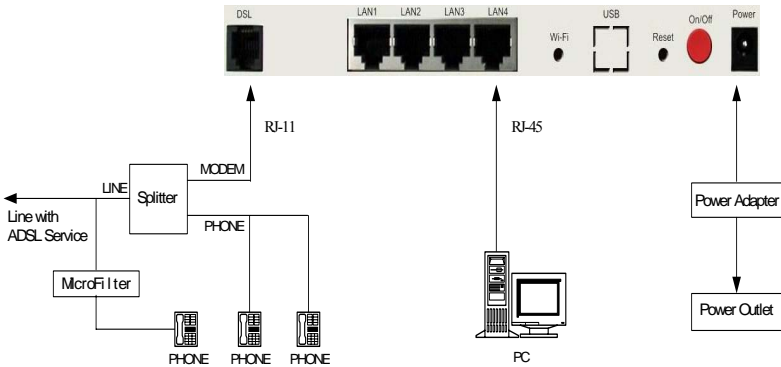


FIGURE 3 Installation sample 2: When the Splitter is Installed near the Modem



3.2 ZXV10 W300 Factory Defaults

Factory defaults are as follows:

- Device IP address: 192.168.1.1; Subnet mask: 255.255.255.0
- Use DHCP server by default. The IP address can be obtained from the device via DHCP.
- Line coding AUTO
(T1.413/G.DMT/GLITE/ADSL2/ADSL2+
auto-sensing)



Note:

In the case that the device doesn't work due to configuration errors or the password is forgot, insert a needle into the Reset hole on the back of the device and push the button for more than 10 seconds to reset all the device configurations to the factory defaults.

3.3 Computer Setup

If your computer uses Windows 95/98/ME/2000/XP, set up your computer using the following two methods of which the first one is recommended. The following examples use Windows XP as the operating system. The setup of computers using other operating systems is similar.

1. The PC can obtain an address from the device via DHCP.
 - 1) From the Windows taskbar, select **Start > Control**

Panel.

- 2) Double-click the **Network Connection** icon.
- 3) From the right-button menu, select Local Area Connection > Properties. Select Internet Protocol (TCP/IP) > Properties.
- 4) From the Internet Protocol (TCP/IP) Properties dialog box:

Ensure that Obtain IP address Automatically is checked.

Ensure that Obtain DNS server address automatically is checked.

- 5) Click **OK** twice to confirm and save your settings.
2. Configure the PC to use a static address:
 - 1) From the Windows taskbar, select **Start > Control Panel**.
 - 2) Double-click the **Network Connection** icon.
 - 3) From the right-button menu, select Local Area Connection > Properties. Select Internet Protocol (TCP/IP) > Properties.
 - 4) In the **Internet Protocol (TCP/IP) Properties** dialog box, click **Use the following IP address** to specify the local computer's IP address to the same network segment as the LAN port address of the device, i.e. 192.168.1.x (in which the "x" is a decimal integer between 2~254). For example, 192.168.1.2, subnet mask 255.255.255.0. The **Default Gateway** is set to

192.168.1.1.

5) Configure **Use the following DNS server addresses**. To set the DNS server IP addresses, please contact your local Service Provider, or set it to 192.168.1.1.

6) Click **OK** twice to confirm and save your settings.

After the completion of the above configuration:

1. If the device is set to the Bridging mode, you can access the Internet according to the service provided by the Service Provider.

2. If the device is set to the Routing mode, you can access the Internet directly after a connection is established between the ZXV10 W300 device and the office-end device.

3. To check the device configurations, visit <http://192.168.1> via a browser and log on to the device.

Logged users are classified into 2 levels:

- Administrator level, with "admin" as both username and initial password. All functions of the ZXV10 W300 can be set up.
- General user level, with "public" as both username and initial password. General users can only monitor the operating status of the device.



Note:

Be sure to remember the password of the ZXV10 W300.

4 Wizard

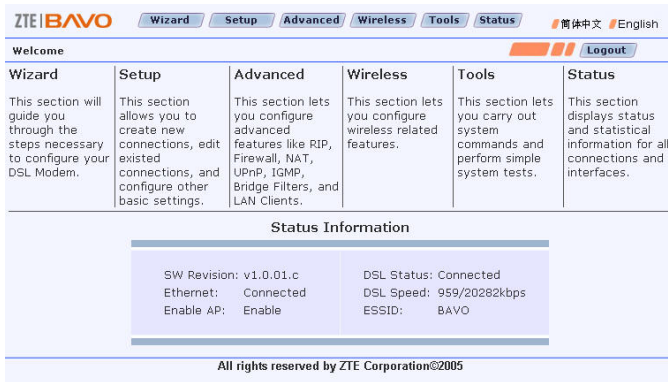
Configuring the ZXV10 W300 device requires professional technical knowledge and experience. To simplify your procedures, it is recommended to use the **Wizard**.

In the **Wizard**, you need to configure only few data to establish a connection and enable the basic functions. However, to use advanced functions of the device, you need to configure other options.

4.1 Logging on to the ZXV10 W300 Device

Visit <http://192.168.1.1> via a browser and log on to the ZXV10 W300. Select **Wizard** to complete the basic configurations, as shown in FIGURE 4.

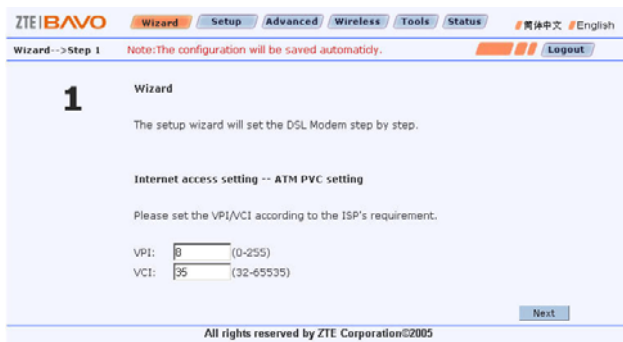
FIGURE 4 Logging on to the ZXV10 W300 Device



4.2 Configuring VPIs and VCIs

This page displays the default values. Please set up using the data provided by your local Service Provider. After the setup, click the **Next** button in the window, as shown in FIGURE 5.

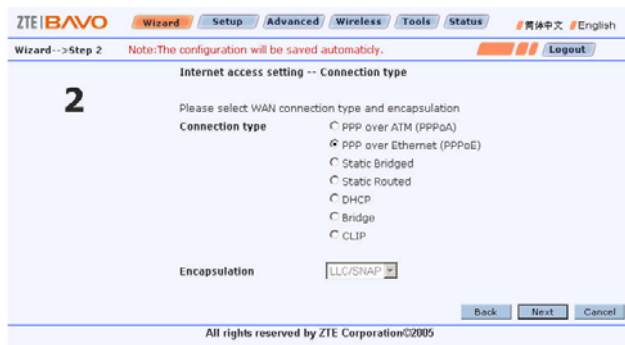
FIGURE 5 PVC Setting



4.3 Selecting Connection Types

Seven types of connections are supported, including PPPoA, PPPoE, Static Bridged, Static Routed, DHCP, Bridge and CLIP, as shown in FIGURE 6. Select the type of connection to be established in this window.

FIGURE 6 Connection Type



After selecting an option, click **Next** to set the next options. To modify the previous options, click **Back** to return to the previous step.

4.4 Setting Configurations

Go to the configuration page depending on the connection type selected.

Data to be configured including:

1. Set the username and password, as shown in

FIGURE 7.

FIGURE 7 PPP Username and Password

ZTE BAVO Wizard Setup Advanced **Wireless** Tools Status 简体中文 English

Wizard-->Step 3 Note:The configuration will be saved automatically. Logout

3 Internet access setting -- PPP username and password

Please enter the username and password for PPP connection which is provided by the ISP.

PPP username:

PPP password:

Back Next Cancel

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The Username and Password should be configured according to the data provided by your local Service Provider.

2. LAN settings, as shown in FIGURE 8.

FIGURE 8 LAN Settings

ZTE BAVO Wizard Setup Advanced **Wireless** Tools Status 简体中文 English

Wizard-->Step 4 Note:The configuration will be saved automatically. Logout

4 LAN settings

Setting the DSL Modem LAN IP Address and Subnet Mask.

IP Address:

Subnet Mask:

Enable DHCP Server

Start IP Address:

End IP Address:

Back Next Cancel

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This page configures the ZXV10 W300 IP address and subnet mask on the LAN side.

Do not modify the configurations in this page if there are no special requirements.

3. WAN settings, as shown in FIGURE 9.

FIGURE 9 WAN Setting

The screenshot displays the WAN Setting configuration page in the ZTE BAVO web interface. The page title is "Internet access setting -- WAN Setting" and it prompts the user to "Enter the settings provided by the ISP". The configuration fields are as follows:

WAN IP Address:	<input type="text" value="222.94.131.166"/>
WAN Subnet Mask:	<input type="text" value="255.255.255.0"/>
Default Gateway:	<input type="text"/>
DNS server 1:	<input type="text"/>
DNS server 2:	<input type="text"/>

At the bottom of the page, there are three buttons: "Back", "Next", and "Cancel". The footer text reads "All rights reserved by ZTE Corporation©2005".

This page configures the ZXV10 W300 IP address and subnet mask on the WAN side.

4. Wireless setup

- 1) Basic wireless LAN settings: Set basic data, as shown in

FIGURE 10.

FIGURE 10 Wireless Setup

The screenshot shows the 'Wireless Setup' configuration page in the ZTE BAVO web interface. The page is part of a wizard, currently at Step 5. The configuration fields are as follows:

- ESSID: BAVO
- 802.11 Mode: Mixed
- Region String: France
- Channel Number: 11

Navigation buttons include 'Back', 'Next', and 'Cancel'. A note at the top states: 'Note: The configuration will be saved automatically.' The footer contains the text: 'All rights reserved by ZTE Corporation©2005'.

2) Wireless LAN WEP security setup: Configure data for WEP encryption, as shown in FIGURE 11.

FIGURE 11 Wireless Security

The screenshot shows the 'Wireless Security' configuration page in the ZTE BAVO web interface. The page is part of a wizard, currently at Step 6. The configuration options are:

- Enable WEP Wireless Security
- Authentication Type: Open
- Cipher: 64 bits
- Encryption Key: A1685765B5

Below the key field, there are three empty input fields for additional keys. A note at the bottom of the key section reads: 'Enter 10, 26, or 58 hexadecimal digits for 64, 128 or 256 bit Encryption Keys respectively, e.g., 123456789A for a key length of 64 bits.' Navigation buttons include 'Back', 'Next', and 'Cancel'. The footer contains the text: 'All rights reserved by ZTE Corporation©2005'.

4.5 Displaying Configuration Data

Pages displayed are different depending on the connections you configured.

FIGURE 12 Summary

ZTE BAVO Wizard Setup Advanced Wireless Tools Status 简体中文 English

Wizard-->Step 7 Note:The configuration will be saved automatically. Logout

Wizard - Summary

Make sure that the settings below match the settings provided by your ISP

WAN Settings:

VPI / VCI	8/35
connection type	PPPoE
WAN IP Address	auto assigned
Default Gateway	auto assigned
DNS server	auto assigned

LAN settings:

IP Address	192.168.1.1/255.255.255.0
DHCP Server	Enable
DHCP IP range	192.168.1.2~192.168.1.254

Wireless Setup:

ESSID	BAVO
Channel Number	11
802.11 Mode	Mixed
WEP Security	Enable

Back Submit Cancel

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FIGURE 12 shows the window that will appear when the PPPoE configuration is completed. Click **Submit** to enable the configuration.

In the seven types of connections:

- Configure PPPoA and PPPoE in this order:
PVC Setting > Connection Type > PPP Username and Password > LAN Settings > Wireless Setup > Summary
- Configure Static Bridged, Static Routed and CLIP in this order:

PVC Setting > Connection Type > WAN Setting > LAN Settings > Wireless Setup > Summary.

- Configure DHCP and Bridge in this order:
PVC Setting > Connection Type > LAN Settings > Wireless Setup > Summary

After successful configurations, a configuration successful window appears as shown in FIGURE 13.

FIGURE 13 Configuration Successful Window



4.6 Other Common Configurations

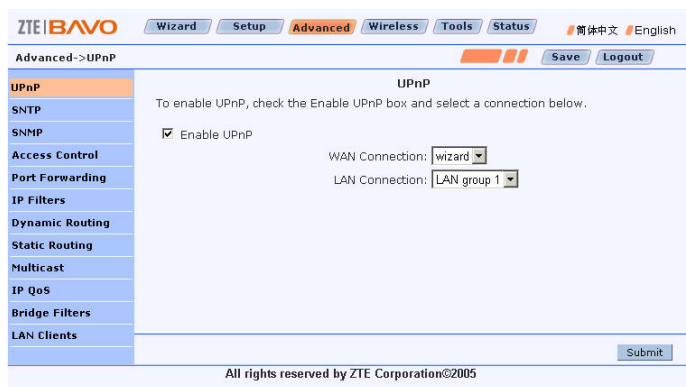
4.6.1 UPnP

When the ZXV10 W300 device operates in Routing mode, if the terminal user use special applications like BitComet or BitSpirit, the UpnP function should be enabled to optimize the device performance.

To configure this function:

Log on to the device using the username “admin”. Click the **Advanced** button on the web page to enter the **Advanced -> UPnP** page, as shown in FIGURE 14.

FIGURE 14 Advanced->UPnP



Click **UPnP** on the left side of the page to enter the UPnP configuration page. In this page, enable or disable the UPnP function and specify the UPnP WAN and LAN connections. To enable this function, check the **Enable UPnP** check box.

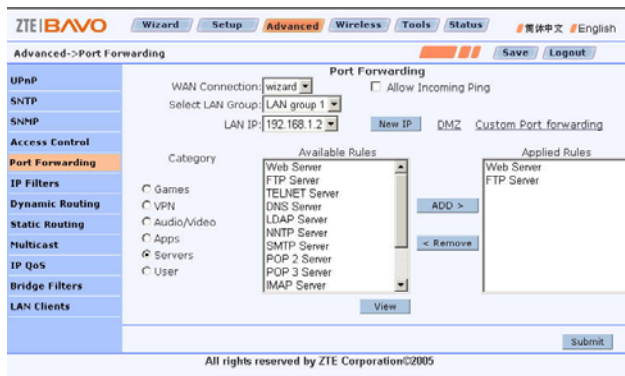
4.6.2 DMZ

When the device operates in Routing mode, if you try to access a service on a host placed in the intranet from an external network, the DMZ host function should be enabled. To configure this function:

Log on to the device using the username “admin”. Click the **Advanced** button on the web page to enter the **Advanced -> UpnP** page,

Click **Port Forwarding** on the left side of the page to enter the **Port Forwarding** page, as shown in FIGURE 15.

FIGURE 15 Advanced Configuration of the DMZ Host Function

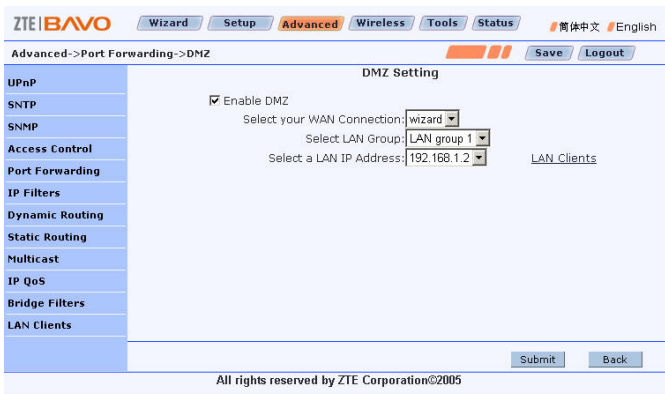


To set DMZ, click the **DMZ** in this page.

Select the LAN host IP address to be accessed from the WAN side. Check the **Enable DMZ** check box to enable this function, as shown in

FIGURE 16.

FIGURE 16 DMZ Setting



The screenshot shows the ZTE BAVO web interface for DMZ settings. The breadcrumb path is "Advanced->Port Forwarding->DMZ". The page title is "DMZ Setting". On the left is a navigation menu with items: UPnP, SNTP, SNMP, Access Control, Port Forwarding, IP Filters, Dynamic Routing, Static Routing, Multicast, IP QoS, Bridge Filters, and LAN Clients. The main content area contains the following settings:

- Enable DMZ
- Select your WAN Connection: wizard
- Select LAN Group: LAN group 1
- Select a LAN IP Address: 192.168.1.2
- [LAN Clients](#)

At the bottom right are "Submit" and "Back" buttons. At the bottom center is the text "All rights reserved by ZTE Corporation©2005".

5 Technical Specifications

5.1 Hardware Specifications

1. ADSL interface
 - Compatible standards: ANSI T1.413, ITU G.992.1, ITU G.992.2, ITU G.992.3, and ITU G.992.5
 - Line impedance: 100 Ω
 - Connection line: A pair of ordinary telephone lines
 - Connector: RJ-11
2. LAN interface
 - Interface: 4 10/100 Base-T, IEEE 802.3/802.3u
 - Connector: RJ-45
 - Automatic recognition of crossover cable and straight-through cable
3. WLAN interface
 - Operating band: 2.4GHz – 2.4835GHz (varies depending on country and area)
 - Compatible standards: IEEE 802.11g, IEEE 802.11b
 - Rates: 1/2/5.5/11/6/9/12/18/24/36/48/54Mbps
4. USB port: USB 2.0 Slave (optional)
5. Operation and Maintenance
WEB and SNMP

6. Power supply
 - Power adapter: 220 VAC input, 50Hz, 18VAC 500mA output
 - Power: < 9 W
7. Safety
CCC, CE

5.2 Software Specifications

1. ATM
 - VPI: 0-255; VCI: 32-65535
 - Support 8 PVC connections and auto-negotiation
 - ATM Cell over ADSL, AAL5
 - Support UBR, CBR and VBR
 - Support OAM F4/F5
 - IPoA
 - PPPoA
 - PPPoE
2. Bridging
 - Transparent bridging (IEEE 802.1D)
 - RFC 2684
 - Spanning-tree protocol (IEEE 802.1D)

- Support 2048 MAC learning addresses
- Support bridge filter
- 3. Routing
 - Static routing
 - Dynamic routing
 - NAT, ALGs
 - Firewall
 - DNS Proxy, IGMP Proxy
 - UPnP DMZ
- 4. Network management
 - WEB
 - SNMP
- 5. WLAN
 - IEEE 802.11g/b
 - WEP, WPA-PSK and MAC address filtering
 - Hidden ESSID, multiple ESSID domains
 - Subscriber isolation

This page is intentionally blank.

6 Troubleshooting

This chapter describes how to troubleshoot problems in the device installation and operations. For other problems not contained in this chapter, please contact your Service Provider for help.

Problem	Troubleshooting
The indicator is OFF when the device is powered on	Make sure that you use the power adapter included in the package and the adapter is connected properly to the device and power outlet on the wall
DSL indicator is OFF when the telephone line is connected	Make sure you use standard telephone lines (e.g. those contained in the device package). Make sure the lines are connected properly according to the hardware connection procedure described in Chapter 3. Check all the ports to see if there are any loose connections. Wait for 30 seconds for the device to establish a connection to your ADSL Service Provider.
When the telephone line is connected, the DSL indicator alternates between slow and fast flashing.	The symptom indicates the failed connection between the device and the office-end ADSL. Please make sure the ZXV10 W300 device has been installed properly according to the samples. (See the installation samples) The first sample is recommended. If you use the second sample, please make sure a voice filter is installed properly.
LAN indicator is OFF when the Ethernet cable is connected	Make sure the Ethernet cable is connected properly to the hub/computer and the device. Make sure the computer/hub is powered on.
WLAN unable to be connected	Make sure the WLAN radio frequency is turned on and the WLAN indicator is ON.

Problem	Troubleshooting
<p>PC unable to access the network</p>	<p>Use the Ping command to check if the network interface IP address (preset to 192.168.1.1) of the device can be pinged from the computer. If not, check the Ethernet cable connection. Check if the indicator status is normal.</p> <p>If the computer uses a private IP address (not a registered illegal IP) specified manually, please check:</p> <p>If the computer's gateway IP address is an illegal address. If not, use a correct gateway, or set the computer to obtain IP information automatically.</p> <p>Contact your ADSL Service Provider to confirm the DNS server designated for the computer is valid. Otherwise, use the correct DNS, or set the computer to obtain IP information automatically.</p> <p>Make sure you have set the NAT rule to convert the private IP address into the legal address. The computer IP address you specified must be contained in the range set in the NAT rule.</p> <p>A problem may occur in the office-end device of the ADSL Service Provider.</p>
<p>Unable to browse Internet web pages on the computer</p>	<p>Make sure the DNS server designated for the computer is correct. You can use the Ping command to check if the computer can be connected to the DSN server of the ADSL Service Provider.</p>