ZXHN H267N

Home Gateway

Maintenance Management Guide

Version: V1.0

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Safety Precautions

Warning!

Before using the device, read the following safety precautions. ZTE bears no liability to the consequences incurred by violation of the safety instructions.

Usage Cautions

- Read all the safety cautions carefully before using the device.
- Only use the accessories included in the package, such as power supply adapter and battery.
- Do not extend the power cord, otherwise the device will not work.
- The power supply voltage must meet the requirements of the device input voltage (The voltage fluctuation range is less than 10%).
- Keep the power plug clean and dry to prevent any risk of electric shock or other dangers.
- Disconnect all the cables during a lightning storm to prevent the device from damage.
- Power off and unplug the power plug when the device is not in use for a long time.
- Do not attempt to open the covers of the device. It is dangerous to do so when the device is powered ON.
- Do not directly stare at the optical interface to prevent any eye injuries.
- Power off and stop using the device under the conditions such as, abnormal sound, smoke, and strange smell. Contact the service provider for maintenance if the device is faulty.

Environment Requirements

- Ensure proper ventilation to the device. Place the device away from direct sunlight.
- Keep the device ventilated and dry. Never spill any liquid on the device.
- Do not place any object on the device to prevent any deformation or damage to the device.
- Do not place the device near any source of heat or water.
- Keep the device away from any household appliances with strong magnetic or electric fields, such as microwave oven and refrigerator.

Cleaning Requirements

- Before cleaning, power off the device, and unplug all the cables connected to the device, such as power cable, optical fiber, and Ethernet cable.
- Do not use any liquid or spray to clean the device. Use a soft dry cloth.

Environment Protection

- Do not dispose the device or battery improperly.
- Observe the local regulations about the equipment disposal or treatment.

Environmental Information

The equipment you purchased has required the extraction and use of natural resources for its production. It may contain substances that are hazardous to people's health and to the environment. To avoid putting such substances into our environment and to reduce pressure on our natural resources, we ask that you reuse or recycle your end-of-life equipment by using an accredited electronics take-back system.

The symbols below indicate that this product should be reused or recycled and not simply discarded. Please locate and use an appropriate reuse and recycling site.

If you need more information on collection, reuse and recycling systems, contact your local or regional waste administration. You may also contact your equipment provider for more information on the environmental performances of these products.

Chapter 1
Product Overview

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1.1 Interfaces and Buttons

The product is targeted to pvovide 24-hours continuous triple-play services, including VOIP. Figure 1-1 shows the interfaces and buttons on the back panel of the ZXHN H267N device.

Figure 1-1 The Back Panel

Table 1-1 describes the interfaces and buttons on the back panel and side panel of the ZXHN H267N device.

Table 1-1 Interfaces and Buttons

Interface/Button	Description
ON/OFF	Power switch
Power	12 V DC power connector
Phone1/Phone2	RJ-11 telephone interface, connected to the telephone with RJ-11 telephone cable.
LAN1/LAN2/LAN3	RJ-45 FE Ethernet interface
LAN4/WAN	RJ-45 GE Ethernet interface, WAN interface is optional.
DSL	RJ-11 DSL interface
Reset	Reset button When the power is on, use a needle to press the button for over 2 seconds to restore the default settings.
WLAN	WLAN button Enable/disable the WLAN function.

Interface/Button	Description
WPS	WPS button Enable/disable the Wi-Fi protection. When the Wi-Fi protection is enabled, users can access the network automatically.
USB	USB 2.0 interface

- The USB interface is on a side of the ZXHN H267N.

1.2 Indicator

Figure 1-2 shows the indicators on the front panel of the ZXHN H267N unit.

Figure 1-2 The Front Panel

Table 1-2 describes the indicators on the front panel of the ZXHN H267N unit.

Table 1-2 Descriptions of Indicators

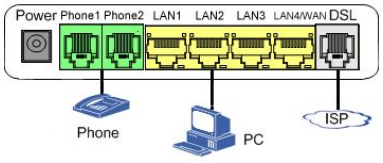
LED Indicator	Status	Description
Power	Solid green	The ZXHN H267N is powered ON.
	OFF	The ZXHN H267N is powered OFF.
DSL	Solid green	DSL synchronization is normal and the link connection is normal.
	Fast Flashing	Now in the handshaking process to establish the link connection.
	Slowly Flashing	Physical link exists, however carrier wave has not been detected.
	OFF	Link has not been established.
Internet	Solid green	The connection is established and a correct IP address is obtained.
	Flashing	Currently in data transmission.
	OFF	Internet connection is not established, or the ZXHN H267N is switched off.

LED Indicator	Status	Description
WLAN	Solid green	The WLAN RF switch is on.
	Flashing green	Currently in data transmission. Flashing frequency indicates WiFi network traffic.
	Solid red	WPS access is successful. This solid-on light will be automatically off after 5 minutes.
	Fast flashing red	The WPS accessing of the WLAN terminal is faulty.
	Slowly flashing red	WLAN terminal is in WPS accessing process.
	OFF	The WLAN RF switch is off.
LAN1 ~ LAN4	Solid green	LAN connection has been established.
	Flashing	Data transmission is in processing. The indicator flashes according to the LAN traffic.
	OFF	LAN connection has not been established.
Phone1 ~ Phone2	Solid green	The ZXHN H267N has registered on the VoIP network.
	Flashing	Indicates when the associated telephone is off-hook.
	OFF	The ZXHN H267N has not been registered on the VOIP network.
USB	Solid green	The USB device is connected.
	Flashing	Currently in data transmission.
	OFF	No USB device.

1.3 Cable Connection

Figure 1-3 shows the devices that are connected to interfaces of the ZXHN H267N device.

Figure 1-3 Cable Connection



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Chapter 2
Configuration Preparation

This manual uses the Windows operating system as an example for describing how to configure the ZXHN H267N. Before configuring the ZXHN H267N, you need to perform the following operations:

- Ensure that a crossover or straight-through Ethernet cable connects a computer to the device.
- Ensure that the TCP/IP configuration on the computer is correct.
- Stop any firewall or other security software operating on the computer.
- Disable the proxy setting of Internet Explorer.

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2.1 Configure TCP/IP

To log in to the ZXHN H267N on a computer, you need to set the IP address of the computer to ensure that the IP address of the computer and the maintenance IP address of the ZXHN H267N are in the same network segment.

Context

The default maintenance IP address of the ZXHN H267N is as follows:

- IP address: 192.168.1.1
- Subnet mask: 255.255.255.0
- Default gateway: 192.168.1.1

Steps

1. Use an ethernet cable to connect a local computer to the LAN interface of the ZXHN H267N.
2. On the local computer, double-click **Local Area Connection** and click **Properties**. The **Local Area Connection Properties** dialog box is displayed.
3. Double-click **Internet Protocol (TCP/IP)**. The **Internet Protocol (TCP/IP) Properties** dialog box is displayed. Set the IP address to `192.168.1.200`, subnet mask to `255.255.255.0`, and default gateway to `192.168.1.1`.
4. Click **OK**.

– End of Steps –

Follow-Up Action

After the IP address of the computer is set, you can run the **Ping** command to ping the IP address 192.168.1.1. If the ping operation is successful, it indicates that the TCP/IP configuration is correct and the computer is properly connected to the ZXHN H267N.

2.2 Login

The ZXHN H267N provides a Web-based configuration and management system. You can enter a specified IP address in the address bar of Internet explorer to access the system.

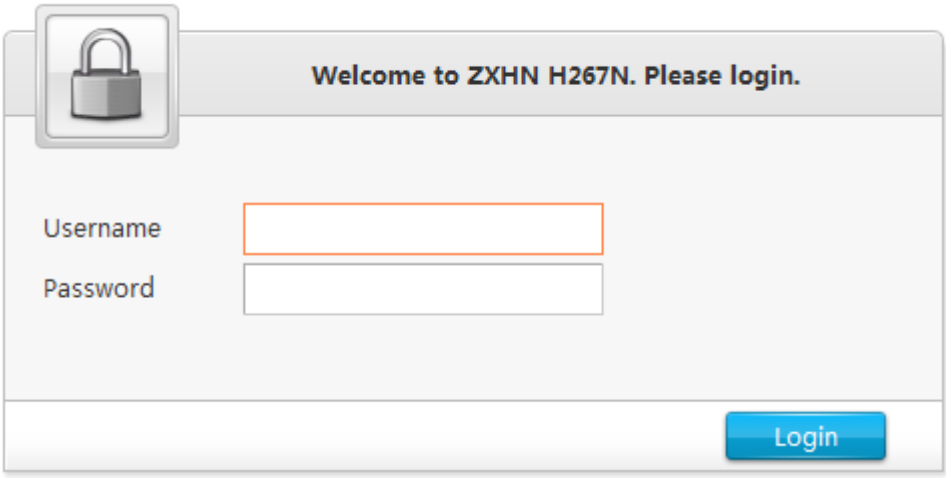
Prerequisite

A computer is directly connected to the ZXHN H267N, and their IP addresses are in the same network segment.

Steps

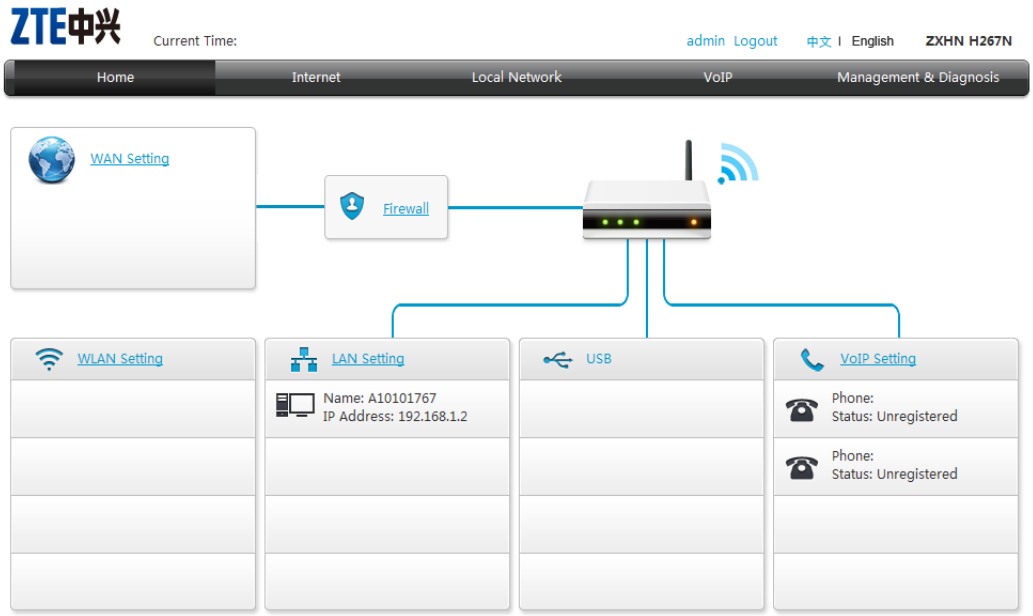
1. Open Internet explorer, and enter `http://192.168.1.1` (default maintenance IP address of the ZXHN H267N) in the address field. Press the **Enter** key. The login page is displayed, see Figure 2-1.

Figure 2-1 Login Page



2. Enter your username and password (the default username and password of the administrator are admin) and click **Login**. The configuration page is displayed, see Figure 2-2.

Figure 2-2 Configuration Page



– End of Steps –

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3.1 Check the Device Status

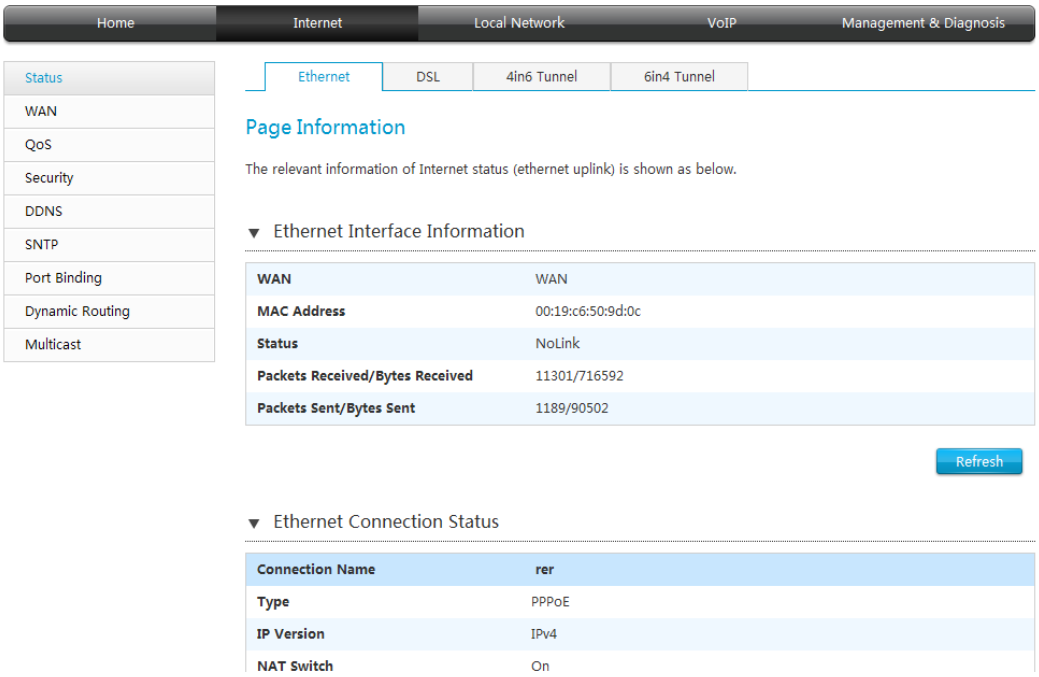
The section describes the status of Internet. The relevant information of Internet status is shown as below.

Steps

1. On the main page of the ZXHN H267N, select **Internet > Status > Ethernet** to go to the **Ethernet** page.

   The page is shown in Figure 3-1.

Figure 3-1 Internet Status



2. (Option) on the main page of the ZXHN H267N, select **Internet > Status > DSL** , the relevant information is shown.
3. (Option) on the main page of the ZXHN H267N, select **Internet > Status > 4in6 Tunnel** , the relevant information is shown.
4. (Option) on the main page of the ZXHN H267N, select **Internet > Status > 6in4 Tunnel** , the relevant information is shown.
5. Click **Refresh** to refresh the information.

– End of Steps –

3.2 Configure the WAN

3.2.1 Configure the WAN Connection

This procedure describes how to configure a broadband connection (WAN connection) on the network side, so that user services (including the data, voice, and video services) can be connected to the external network.

The ZXHN H267N supports Route-based and Bridge-based WAN connections.

- Route-based connection
- Bridge-based connection

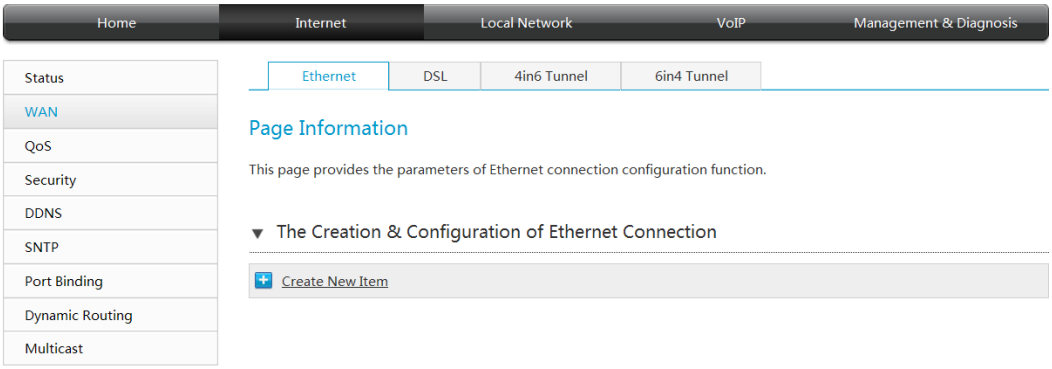
Prerequisite

Before configuring **Ethernet**, make sure that the radio button **ON** (**Management & Diagnosis > ETH Uplink Management**) is set and **Apply** button is pressed.

Steps

1. On the main page of the ZXHN H267N, select **Internet > WAN > Ethernet** to go to the **Ethernet** page, as shown in Figure 3-2.

Figure 3-2 Ethernet Configuring page



2. Click **The Creation & Configuration of Ethernet Connection**.
3. Click Create New Item to go to the page of creating new Ethernet connection.

Route-based connection

4. Set the parameter **Type** to be **Route**. The **Route-based connection** page is displayed, seeFigure 3-3.

Figure 3-3 Route Page

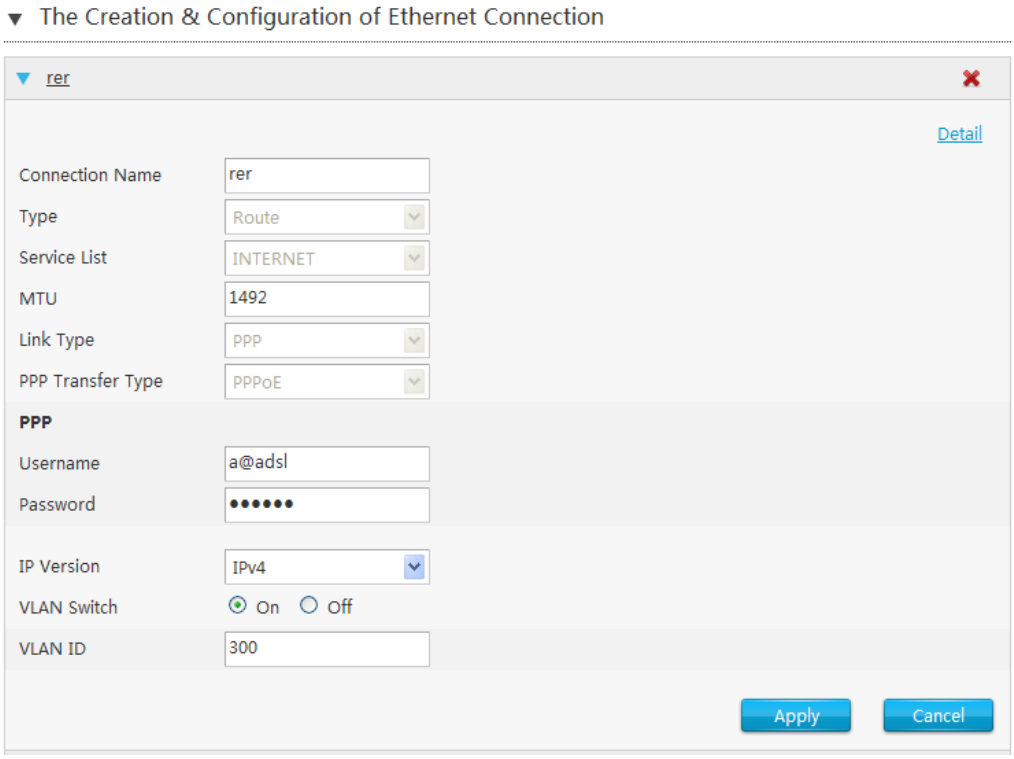


Table 3-1 lists the New Item parameters.

Table 3-1 Parameter Descriptions for the Route Mode

Parameter	Description
Connection Name	To create a WAN connection, select **Create WAN Connection**. To query or modify an existing WAN connection, select the corresponding WAN connection.
Type	The connection type includes route and bridge connection. In this case, route is selected.
Service List	Options: INTERNET, TR069, INTERNET_TR069_, VoIP, INTERNET_VoIP, VoIP_TR069, INTERNET_VoIP_TR069, and OTHER. This parameter must be consistent with service configuration. For example, if **INTERNET** is selected, it indicates that the WAN connection supports the Internet access service only. If **TR069** is selected, it indicates that the WAN connection supports remote management. If **VoIP** is selected, it indicates that the WAN connection supports the voice service.
MTU	Maximum Transfer Unit (MTU) of the WAN connection. Range: 128–1492, default: 1492.
Link Type	There are two link types: ● PPP ● IP
PPP TransType	The default value is PPPoE.
PPP	
Username	Username of the PPPoE account. The username must be the same as that set on the peer server for authentication.
Password	Password of the PPPoE account. The Password must be the same as that set on the peer server for authentication.
IP Version	IP version that the device supports. Normally, it is set to **IPv4/IPv6**. ● **IPv4**: The device supports IPv4 addresses only. ● **IPv6**: The device supports IPv6 addresses only. ● **IPv4/IPv6**: The device supports both IPv4 and IPv6 addresses.
IPv6	
IPv6 Info Get Mode	Specifies how to acquire IPv6 information for the WAN connection. It is valid only if the WAN connection supports IPv6. ● **Manual Mode**: You need to set the global address, gateway, and DNS acquisition modes. ● **Auto Mode**: The global address, gateway, and DNS acquisition modes are automatically configured. ● **IPv6CP Extension Mode**: The IPv6CP extension mode is used.

Parameter	Description
GUA From	Specifies how to acquire the global IPv6 address. It is valid only if the **IPv6 Info Get Mode** parameter is set to **Manual Mode**. Options: ● SLAAC: The device generates a global address in accordance with the RA packets from the upper-layer server. ● **Static**: You need to set a static IPv6 address. ● **DHCPv6**: The device acquires a global address through DHCPv6.
IPv6	Specifies the static IPv6 address and prefix length for the WAN connection. It is valid only if the **GUA From** parameter is set to **Static**.
DNSv6 From	Specifies how to acquire the IPv6 DNS address. It is valid only if the **IPv6 Info Get Mode** parameter is set to **Manual Mode**. Options: ● SLAAC: The device generates a DNS address in accordance with the RA packets from the upper-layer server. ● **Static**: You need to set static DNS addresses. A maximum of three DNS server addresses can be configured. If DNS Server 1 fails to process the domain name resolution request, the request is sent to DNS Server 2. If DNS Server 2 fails, the request is sent to DNS Server 3. ● **DHCPv6**: The device acquires a DNS address through DHCPv6. If no option is selected, it indicates that no DNS is configured.
DNS1/DNS2/D-NS3	IP address of the DNS server for static connections. You can set up to three IP addresses for the server. These IP addresses are provided by the ISP.
Prefix Delegation From	Valid only if the **IPv6 Info Get Mode** parameter is set to **Auto Mode** or **Manual Mode**. If the prefix delegation function is enabled, the system requests a prefix from the upper-layer server for allocating global addresses to devices on the LAN side.
GUA From Prefix	Valid only if the prefix delegation feature is enabled. If it is selected, the system generates global addresses in accordance with the retrieved prefix.
VLAN Switch	Valid only if the VLAN switch feature is enabled.
VLAN ID	If theVLAN function is enabled, VLAN ID is needed to be configured. Range: 1–4094. To ensure normal service operation, the VLAN ID must be the same as that set in upper-layer OLT configuration.

Bridge-based connection

5. Set the parameter **Type** to be **Bridge connection**. The **Bridge-based connection** page is displayed, seeFigure 3-4.

Figure 3-4 Bridge Page

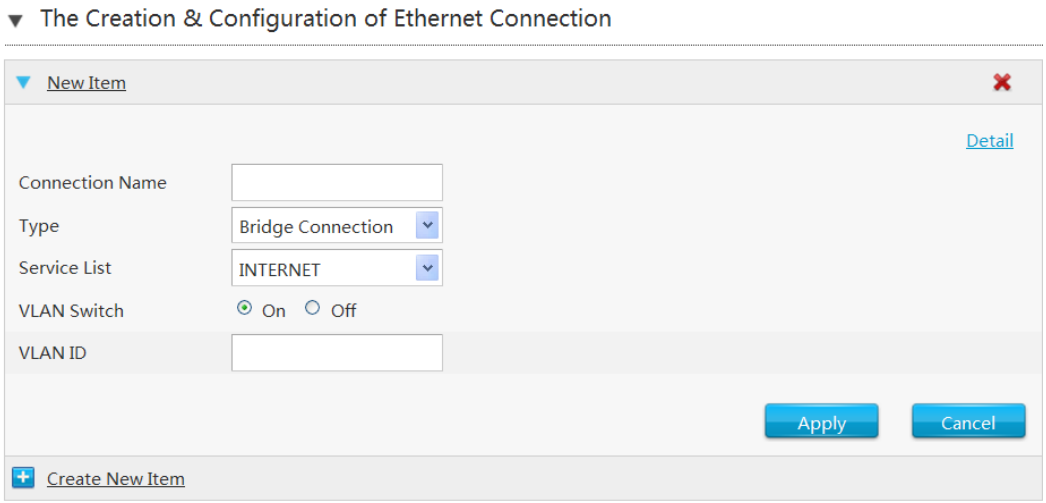


Table 3-2 lists the New Item parameters.

Table 3-2 Parameter Descriptions for the Bridge Mode

Parameter	Description
Connection Name	To create a WAN connection, select **Create WAN Connection**. To query or modify an existing WAN connection, select the corresponding WAN connection.
Type	The connection type includes Route and Bridge Connection. In this case, Bridge is selected.
Service List	**INTERNET** is selected. It indicates that the WAN connection supports the Internet access service only.
VLAN Switch	Valid only if the VLAN switch feature is enabled.
VLAN ID	If theVLAN function is enabled, VLAN ID is needed to be configured. Range: 1–4094. To ensure normal service operation, the VLAN ID must be the same as that set in upper-layer OLT configuration.

6. Click **Apply**.

NOTE **Note:**

- Modify a WAN connection.

  Select an existing WAN connection from the **Connection Name** list and modify the parameters. After the parameters are set as required, click **Apply**.

- Delete a WAN connection.

  Select an existing WAN connection from the **Connection Name** list and click .

- WAN connection modification and deletion may cause service failure. Perform the modification and deletion operations with care.

– End of Steps –

3.2.2 Configure the DSL

This procedure describes how to configure the DSL on the network side, so that user services can be connected to the external network.

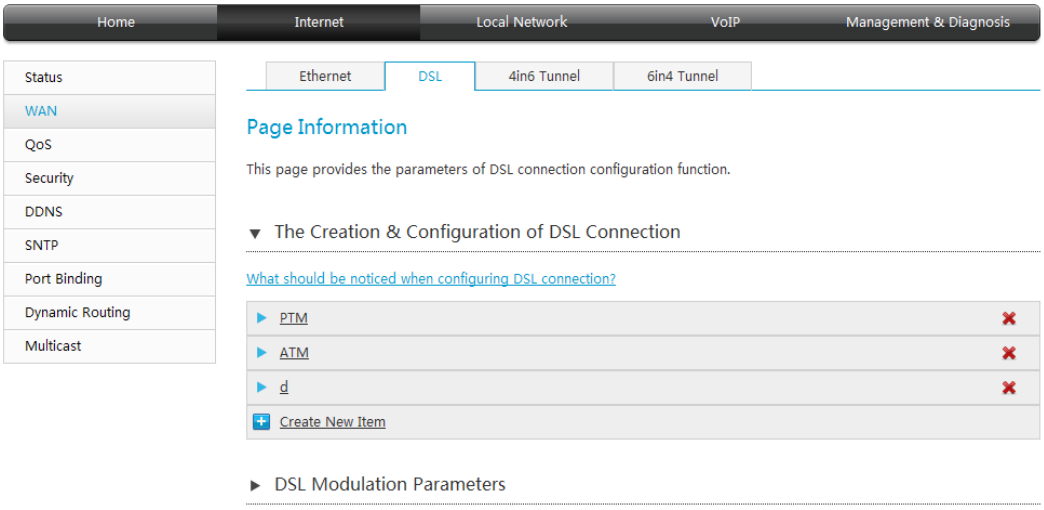
The ZXHN H267N supports Route-based and Bridge-based WAN connections.

- Route-based connection
- Bridge-based connection

Steps

1. On the main page of the ZXHN H267N, select **Internet > WAN > DSL** to go to the **DSL** page, as shown in Figure 3-5.

Figure 3-5 DSL Configuring page



Creation and Configuration of DSL Connection

2. Click **The Creation & Configuration of DSL Connection**.
3. Click Create New Item to go to the page of creating new DSL connection.

Route-based connection

4. Set the parameter **Type** to be **Route**. The **Route-based connection** page is displayed, seeFigure 3-7.

Figure 3-6 Route Page

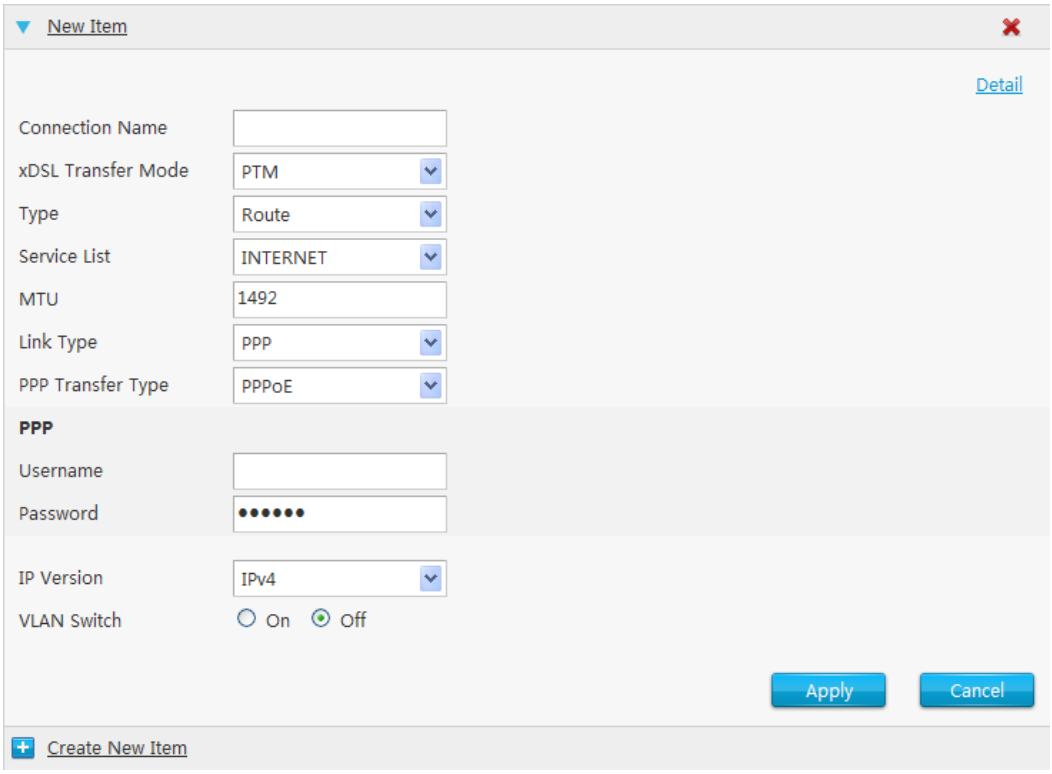


Table 3-3 lists the New Item parameters.

Table 3-3 Parameter Descriptions for the DSL

Parameter	Description
Connection Name	Name of the connection.
xDSL Transfer Mode	There are two xDSL transfer modes: ● ATM ● PTM In the case of IPv4_PPPoE, select PTM.
VPI/VCI	If **xDSL Transfer ModeEnter** is selected to be ATM, the **VPI**/**VCI** values provided by the ISP needs to be configured. VPI Range: 0 - 255. VCI Range: 0 - 65535.
Service Type	If **xDSL Transfer ModeEnter** is selected to be ATM, **Service Type** needs to be configured. ATM QoS used to limit the transmission of uplink traffic. The options are: **CBR**, **RT-VBR**, **nRT-VBR**, and **UBR**.

Parameter	Description
Service List	Options: INTERNET, TR069, INTERNET_TR069_, VoIP, INTERNET_VoIP, VoIP_TR069, INTERNET_VoIP_TR069, and OTHER. This parameter must be consistent with service configuration. For example, if **INTERNET** is selected, it indicates that the WAN connection supports the Internet access service only. If **TR069** is selected, it indicates that the WAN connection supports remote management. If **VoIP** is selected, it indicates that the WAN connection supports the voice service.
PCR	If **Service Type** is selected to be **CBR**,**RT-VBR** or **nRT-VBR**, PCR needs to be configured.
SCR	Sustainable Cell Rate. If **Service Type** is selected to be **RT-VBR** or **nRT-VBR**, **SCR** needs to be configured.
MBS	Maximum Burst Size. If **Service Type** is selected to be **RT-VBR** or **nRT-VBR**, **MBS** needs to be configured.
Type	The connection type includes Route and Bridge Connection. In this case, Route is selected.
Encapsulation Type	The encapsulation type includes LLC and VCMUX.
MTU	Define the maximum transfer unit. In this case, default value is 1492.
Link Type	There are two link types: ● PPP ● IP
PPP Transfer Type	In this case, default value is PPPoE. If **xDSL Transfer ModeEnter** is selected to be ATM, **PPP Transfer Type** includes PPPoE and PPPoA.
PPP	
Username/Password	PPPoE/PPPoA user name and password. They are provided by the ISP.
IP Version	The IP version includes: ● IPv4 ● IPv6 ● IPv4/v6 In this case, IPv4 is selected.
IPv4	

Parameter	Description
IP Type	Select the IP type when **Link Type** is **IP**. If **IP Type** is congfigured to be **static**, the parameters (**IP Address**/**Subnet Mask**/**Gateway**/**DNS1–DNS3**) need to be configured.
IP Address	IP Address of ZXHN H267N.
Subnet Mask	Subnet mask of ZXHN H267N.
Gateway	It is usually the IP address of the ZXHN H267N by default.
DNS1–DNS3	IP address of the DNS server for static connections. You can set up to three IP addresses for the server. These IP addresses are provided by the ISP.
IPv6	
IPv6 Info Get Mode	The options are: ● Manual Mode ● Auto Mode
GUA From	Mode of obtaining global address, including **SLAAC**, **Static** and **DHCPv6**.
GateWay From	Mode for obtaining gateway. The options are: SLAAC and Static.
DNSv6 From	Mode for obtaining DNS. The options are: ● SLAAC ● Static ● DHCPv6
Prefix Delegation From	Valid only if the IPv6 Info Get Mode parameter is set to Auto Mode or Manual Mode. If the prefix delegation function is enabled, the system requests a prefix from the upper-layer server for allocating global addresses to devices on the LAN side.
GUA From Prefix	Valid only if the prefix delegation feature is enabled. If it is selected, the system generates global addresses in accordance with the retrieved prefix.
VLAN Switch	Enable or disable theVLAN function.
VLAN ID	If theVLAN function is enabled, VLAN ID is needed to be configured. Range: 1–4094. To ensure normal service operation, the VLAN ID must be the same as that set in upper-layer OLT configuration.

Bridge-based connection

5. Set the parameter **Type** to be **Bridge connection**. The **Bridge-based connection** page is displayed, seeFigure 3-7.

Figure 3-7 Bridge Page

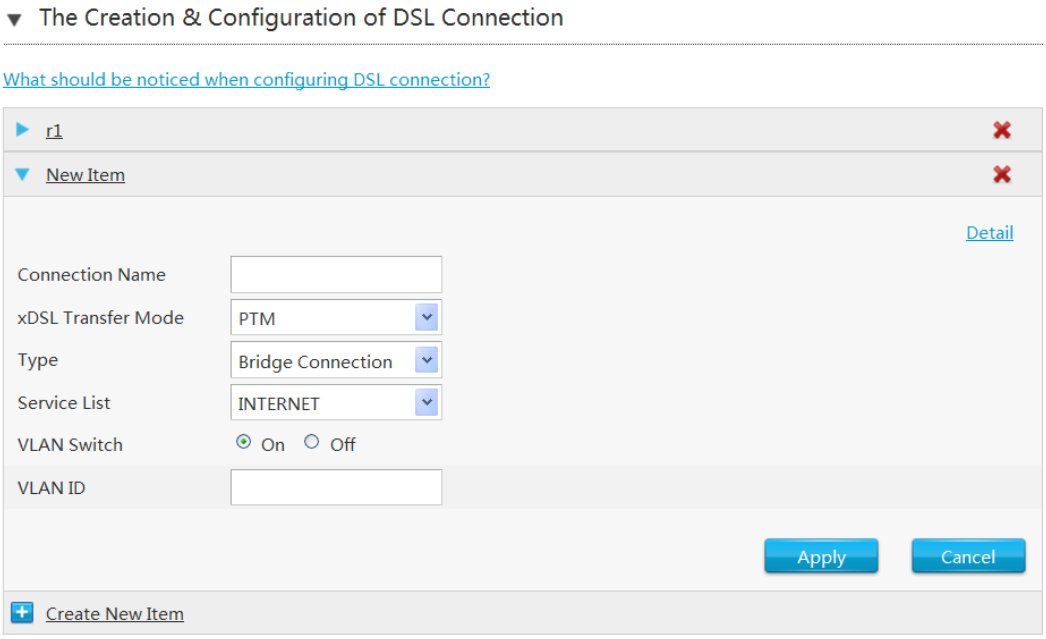


Table 3-4 lists the New Item parameters.

Table 3-4 Parameter Descriptions for the Bridge-based connection

Parameter	Description
Connection Name	Name the connection.
xDSL Transfer Mode	There are two xDSL transfer modes: ● ATM ● PTM In the case of IPv4_PPPoE, select PTM.
ATM Parameters	
VPI/VCI	If **xDSL Transfer ModeEnter** is selected to be ATM, the **VPI/VCI** values provided by the ISP needs to be configured. VPI Range: 0 - 255. VCI Range: 0 - 65535.
Service Type	If **xDSL Transfer ModeEnter** is selected to be ATM, **Service Type** needs to be configured. ATM QoS used to limit the transmission of uplink traffic. The options are: **CBR**, **RT-VBR**, **nRT-VBR**, and **UBR**.
PCR	If **Service Type** is selected to be **CBR**,**RT-VBR** or **nRT-VBR**, PCR needs to be configured.

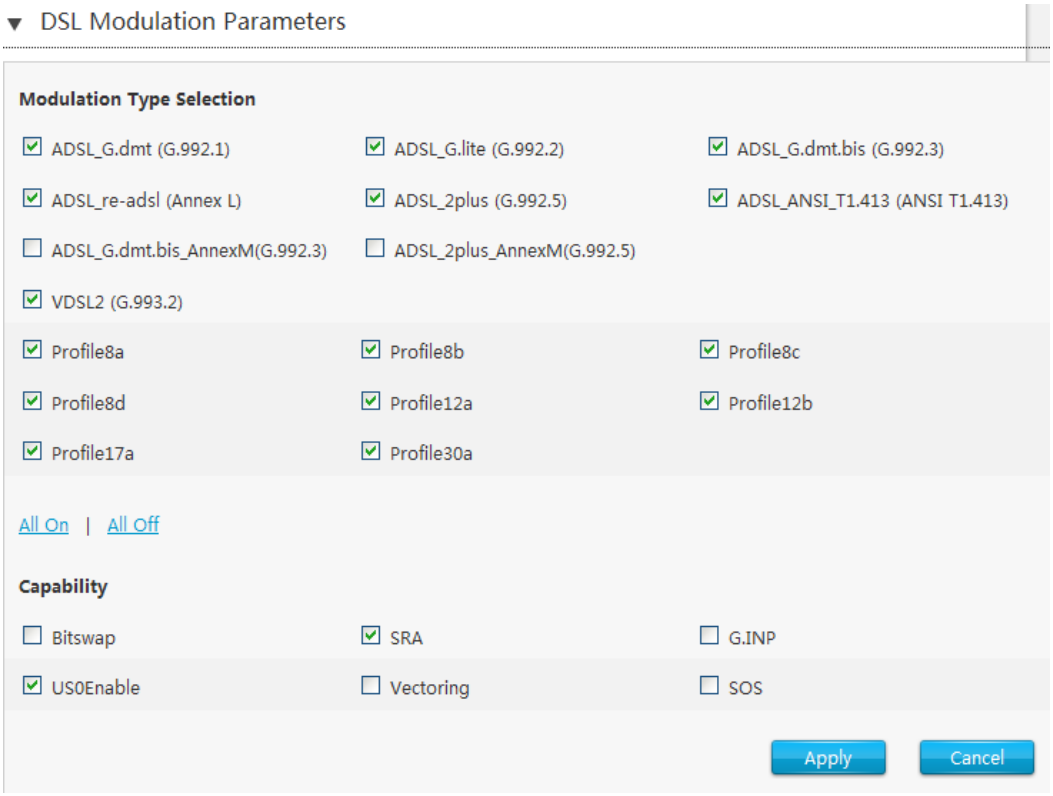
Parameter	Description
SCR	Sustainable Cell Rate. If **Service Type** is selected to be **RT-VBR** or **nRT-VBR**, **SCR** needs to be configured.
MBS	Maximum Burst Size. If **Service Type** is selected to be **RT-VBR** or **nRT-VBR**, **MBS** needs to be configured.
Type	The connection type includes Route and Bridge Connection. In this case, **Bridge** is selected.
Service List	Default:INTERNET.
VLAN Switch	Enable or disable theVLAN function.
VLAN ID	If theVLAN function is enabled, VLAN ID is needed to be configured. Range: 1–4094. To ensure normal service operation, the VLAN ID must be the same as that set in upper-layer OLT configuration.

6. Click **Apply**.

DSL Modulation Parameters

7. Click **DSL Modulation Parameters** to go to the page of **DSL Modulation Parameters**, as shown in Figure 3-8.

Figure 3-8 DSL Modulation Parameters



8. Configure DSL Modulation Parameters.
   Select the DSL modulation types and click **Apply** button to apply the changes.

Note:

- Click **All On** to select all DSL modulation types.
- Click **All Off** to cancel all DSL modulation types.
- When you select the Bitswap check box, the system can adjust the modulation bit of an interfered channel to the bit of other channels.

– End of Steps –

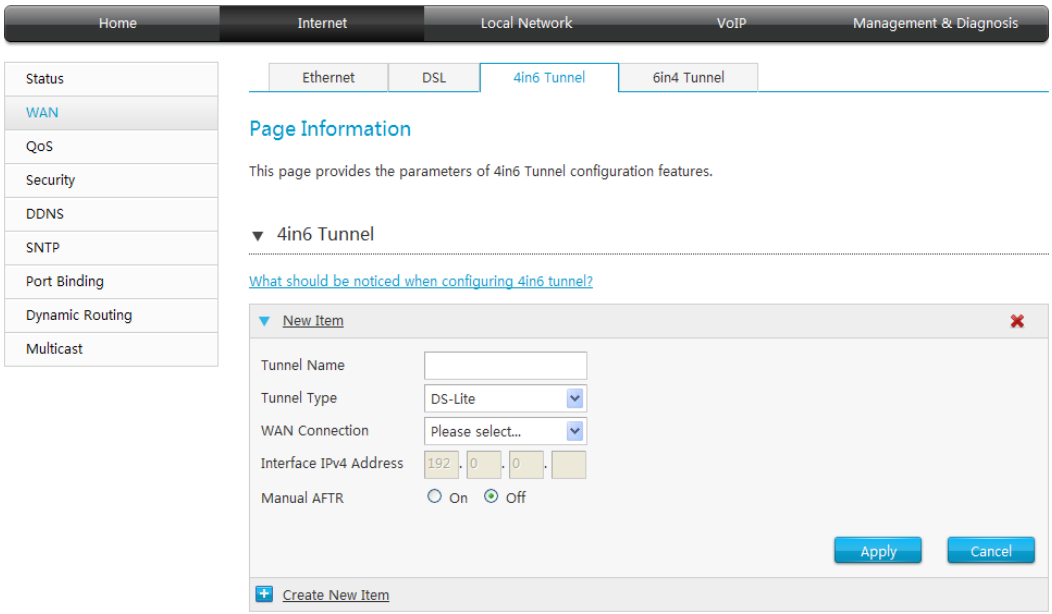
3.2.3 Configure the 4in6 Tunnel Connection

This page provides the parameters of 4in6 Tunnel configuration features.

Steps

1. On the main page of the ZXHN H267N, select **Internet > WAN > 4in6 Tunnel** to go to the **4in6 Tunnel** page, as shown in Figure 3-9.

Figure 3-9 4in6 Tunnel Connection page



2. Click Create New Item to create new 4in6 Tunnel.

   Table 3-5 lists the New 4in6 Tunnel parameters.

Table 3-5 Parameter Descriptions for the 4in6 Tunnel

Parameter	Description
Tunnel Name	Name of the new 4in6 Tunnel.
Tunnel Type	4in6 tunnel type.
WAN Connection	Select the WAN connection.
Interface IPv4 Address	Set this parameter if **Tunnel Type** is set to **DS-Lite**. Interface address on the **DS-Lite** tunnel. The range defined by RFC is from **192.0.0.2** to **192.0.0.6**.
Manual AFTR	Select On/Off Manual AFTR function.
AFTR	Setting this parameter when **Manual AFTR** in **On**.

3. Click **Apply**.

   – End of Steps –

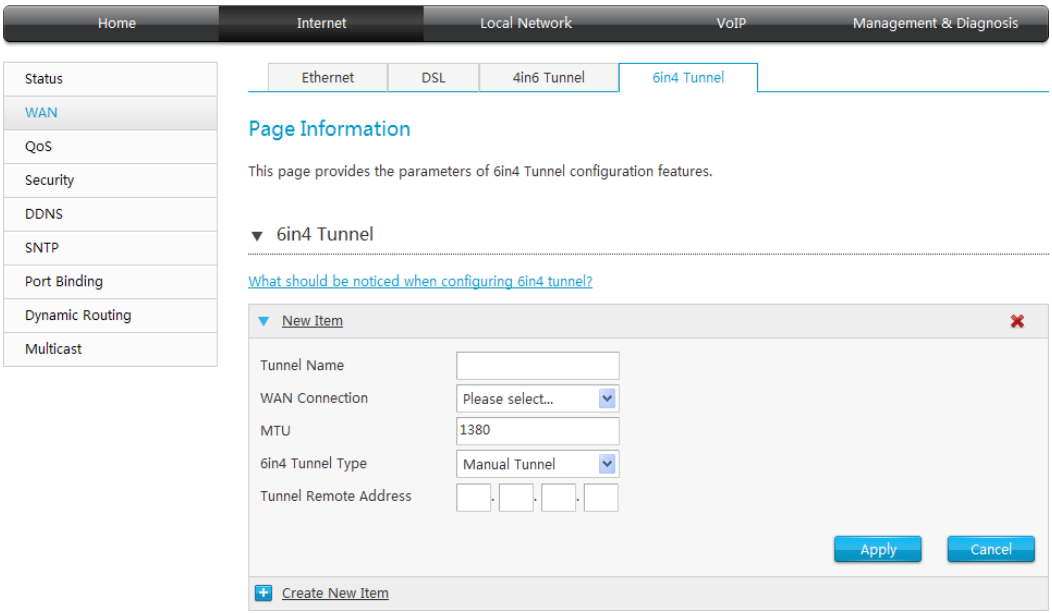
3.2.4 Configure the 6in4 Tunnel Connection

This page provides the parameters of 6in4 Tunnel configuration features.

Steps

1. On the main page of the ZXHN H267N, select **Internet > WAN > 6in4 Tunnel** to go to the **6in4 Tunnel** page, as shown in Figure 3-10.

Figure 3-10 6in4 Tunnel Connection page



2. Click Create New Item to create new 6in4 Tunnel.

Table 3-6 lists the New 6in4 Tunnel parameters.

Table 3-6 Parameter Descriptions for the 6in4 Tunnel

Parameter	Description
Tunnel Name	Name of the new 6in4 Tunnel.
WAN Connection	Select the WAN connection.
MTU	Define the maximum transfer unit.
6in4 Tunnel Type	There are two 6in4 Tunnel types: ● Manual Tunnel ● 6rd
6in4 Tunnel Configuration	There are two 6in4 Tunnel configuration types: ● Static ● Auto
6rd Prefix	Setting this parameter when **6in4 Tunnel Configuration** is **Static**.
IPv4 Mask Length	Setting this parameter when **6in4 Tunnel Configuration** is **Static**.
6rd Border Relay Address	Setting this parameter when **6in4 Tunnel Configuration** is **Static**.
Tunnel Remote Address	Setting this parameter when **6in4 Tunnel Type** is **Manual Tunnel**.

3. Click **Apply**.

– End of Steps –

3.3 Configure the QoS

3.3.1 Configure the QoS Global Parameters

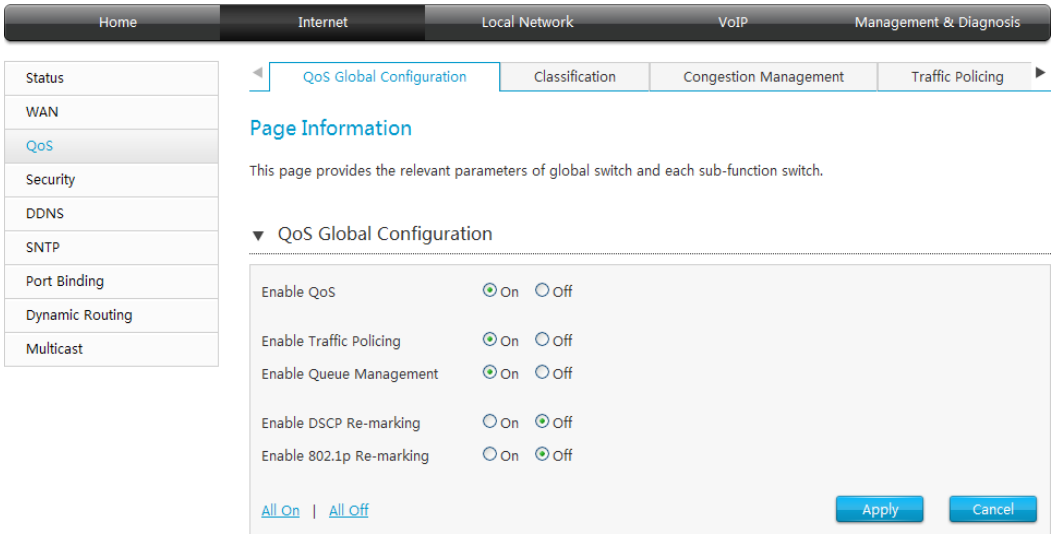
The section describes how to configure QoS global parameters.

Steps

1. On the main page of the ZXHN H267N, select **Internet > QoS > QoS Global Configuration** to go to the **QoS Global Configuration** page.

   The page is shown in Figure 3-11.

Figure 3-11 QoS Global Configuration page



2. Specify the parameters, and then click **Apply**.

Note:

- Click **All On** to select all QoS Global configuration.
- Click **All Off** to cancel all QoS Global configuration.

– End of Steps –

3.3.2 Configure the QoS Classification

This page provides the parameters of QoS Classification configuration features.

Steps

1. On the main page of the ZXHN H267N, select **Internet > QoS > Classification** to go to the **Classification** page.
2. Click Create New Item to create new QoS Classification, the page as shown in Figure 3-12.

Figure 3-12 New QoS Classification Page

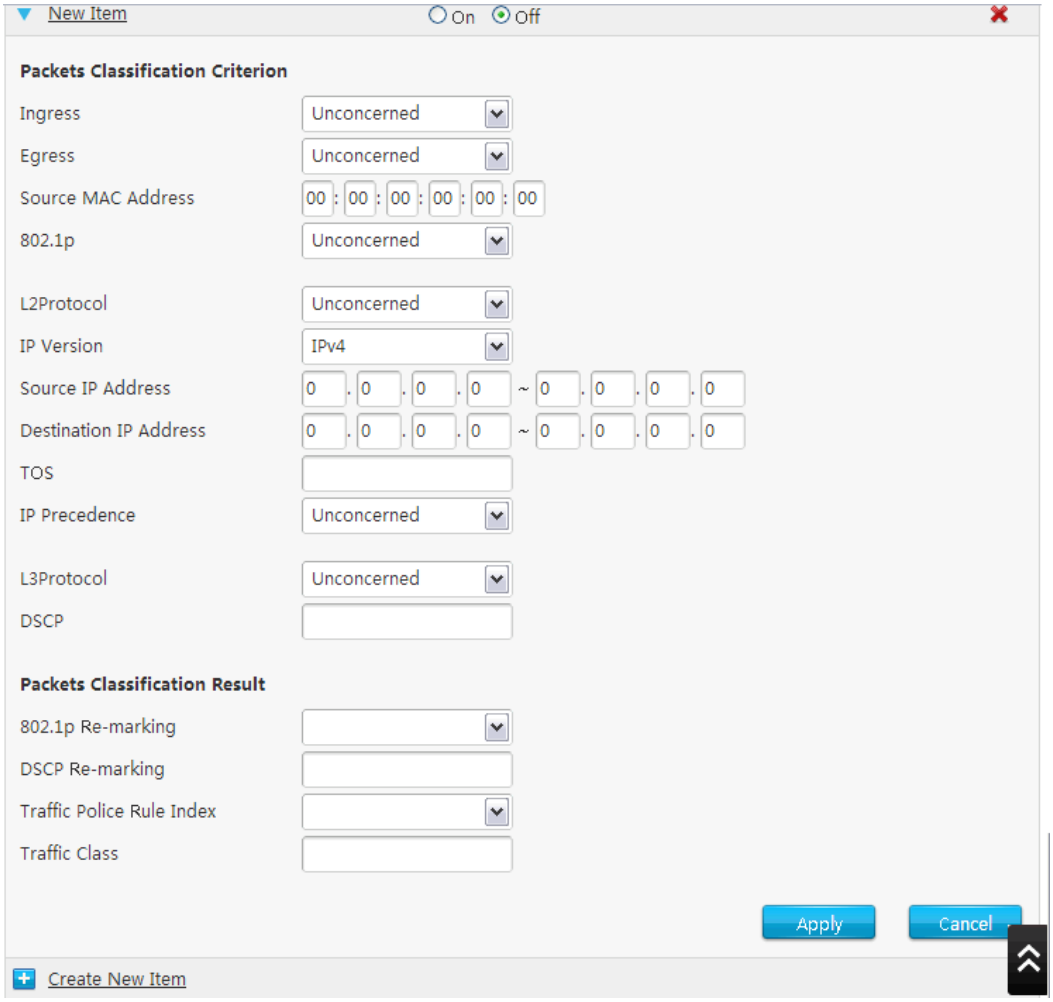


Table 3-7 lists the QoS Classification Configuration parameters.

Table 3-7 Parameter Descriptions for the QoS Classification

Parameter	Description
On/Off	Enable/disable the function of Classification.

Parameter	Description
Ingress	Specify the data traffic direction. The Ingress option and Egress option cannot be the same. ● If the Ingress is LAN, the Egress should be a WAN or 3G connection. The data traffic direction is upstream. ● If the Ingress is a WAN or 3G connection, the Egress should be the LAN. The data traffic direction is downstream.
Egress	Specify the data traffic direction. The Ingress option and Egress option cannot be the same. ● If the Egress is LAN, the Ingress should be a WAN connection. The data traffic direction is downstream. ● If the Egress is a WAN connection, the Ingress should be the LAN. The data traffic direction is upstream.
Source MAC Address	Source host MAC address.
802.1p	Specify the 802.1p value to modify the service priority.
L2Protocol	The L2Protocol includes: ● IPv4 ● IPv6 ● ARP ● PPPoE
IP Version	The IP version includes: ● IPv4 ● IPv6
Source IPv6 Address	Source host IPv6 address.
Destination IPv6 Address	Destination host IPv6 address.
Source IP Address	Source host IP address.
Destination IP Address	Destination host IP address.
Traffic Class Check	Range: 1~1024.
TOS	Range: 0~255.
IP Precedence	Range: 0~7.
L3Protocol	The L3Protocol includes: ● TCP ● UDP ● ICMP
DSCP	DSCP value.
802.1p Re-marking	802.1p identifier value.
DSCP Re-marking	DSCP identifier.
Traffic Police Rule Index	Select traffic police rule index.

Parameter	Description
Traffic Class	Range: 1~1024.
Flow Lable	Range: 0~1048575.
Destination Port	Destination port number of the matching packets.

3. Click **Apply** button to apply the changes.

– End of Steps –

3.3.3 Configure the QoS Congestion Management

This page provides the parameters of QoS Congestion Management configuration features.

Steps

1. On the main page of the ZXHN H267N, select **Internet > QoS > Congestion Management** to go to the **Congestion Management** page, as shown in Figure 3-13.

Figure 3-13 Congestion Management Page

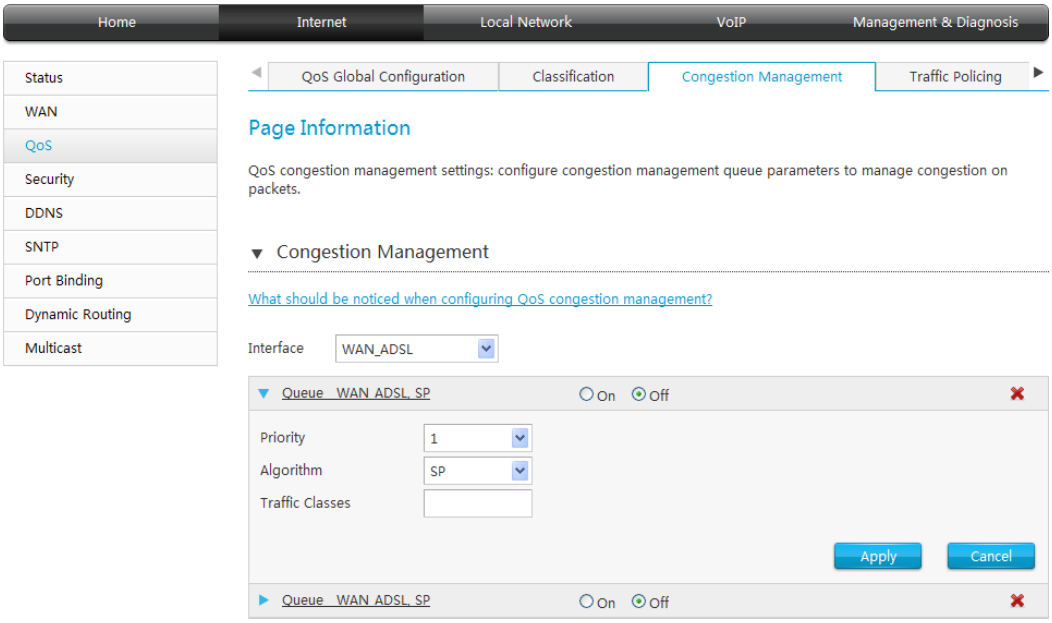


Table 3-8 lists the QoS congestion management parameters.

Table 3-8 Parameter Descriptions for the QoS Congestion Management

Parameter	Description
Interface	The Interface including WAN_ADSL, LAN1, LAN2, LAN3 and LAN4.
Queue Switch	On: enable the function of queue. Off: disable the function of queue.

Parameter	Description
Priority	Queue priority. Range: 1 ~ 8.
Algorithm	Queue algorithm. ● SP ● DWRR
Weight	The weight for the DWRR algorithm.
Traffic Classes	Categorization mechanism.

2. Click **Apply** button to apply the changes.

– End of Steps –

3.3.4 Configure the QoS Traffic Policing

This page provides the parameters of QoS Traffic Policing configuration features.

Steps

1. On the main page of the ZXHN H267N, select **Internet > QoS > Traffic Policing** to go to the **Traffic Policing** page, as shown in Figure 3-14.

Figure 3-14 Traffic Policing page

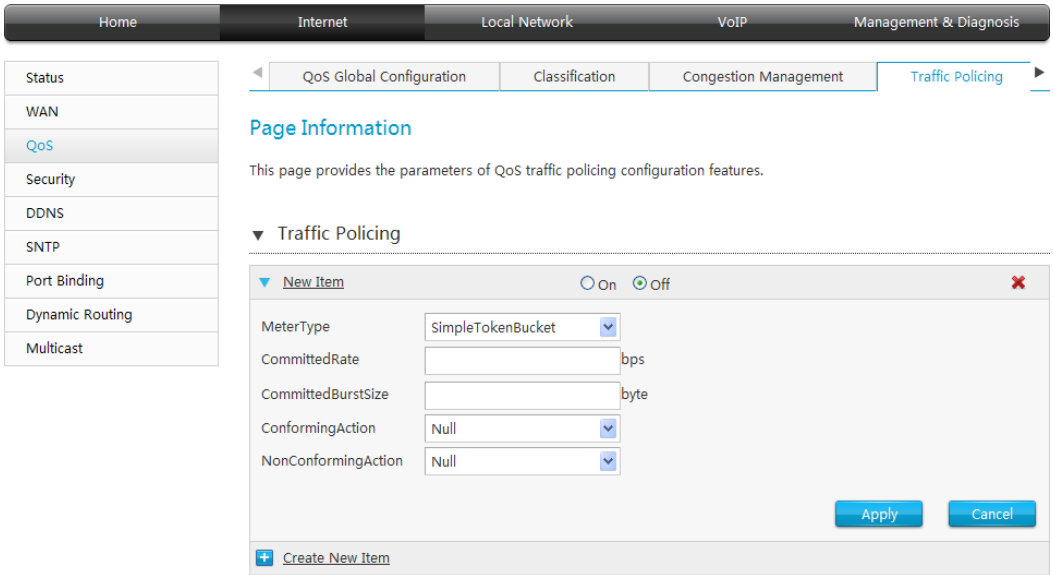


Table 3-9 lists the QoS Traffic Policing parameters.

Table 3-9 Parameter Descriptions for the QoS Traffic Policing

Parameter	Description
MeterType	The meter type includes: ● Simple Token Bucket ● Simple Rate Three Color ● Two Rate Three Color
CommittedRate	Guaranteed rate.
CommittedBurstSize	Buffer size for QoS.
ConformingAction	The conforming action includes: ● Null ● Drop ● DSCPMark ● 802.1pMark ● DSCPMark&802.1pMark
NonConformingAction	The non conforming action includes: ● Null ● Drop ● DSCPMark ● 802.1pMark ● DSCPMark&802.1pMark
ExcessBurstSize	Excess burst size.
PartialConformingAction	The partial conforming action includes: ● Null ● Drop ● DSCPMark ● 802.1pMark ● DSCPMark&802.1pMark
DSCP	QoS classification criterion. A DSCP is specified for the TOS byte in the IP header of each packet to indicate the priority. Range: 0–63.
802.1p	If VLAN is enabled, you can modify service priority through this parameter. Range: 0–7. A higher number indicates a higher priority.
PeakRate	Peak rate.
PeakBurstSize	Peak burst size.

2. Click **Apply** button to apply the changes.

– End of Steps –

3.4 Configure the Security

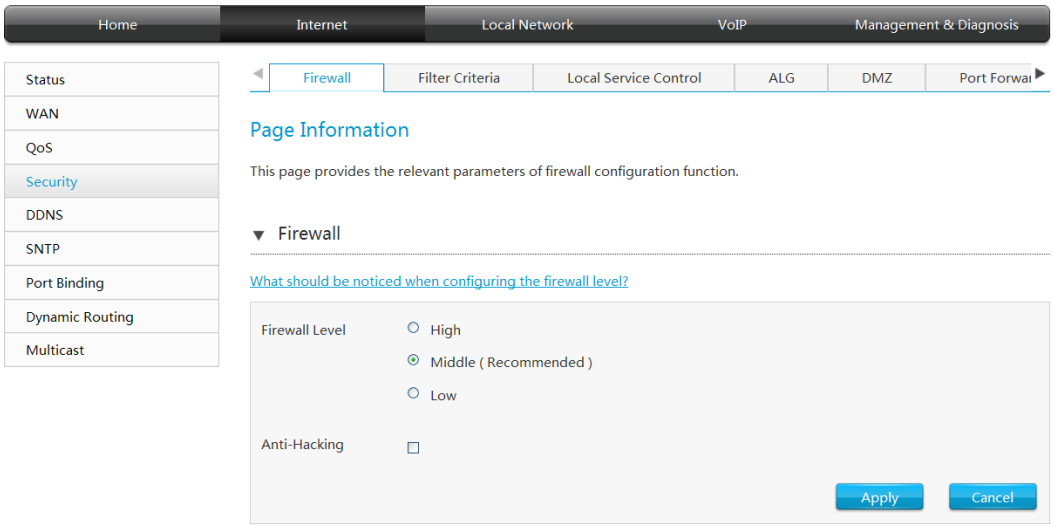
3.4.1 Configure the Firewall Level

The section describes how to configure firewall level.

Steps

1. On the main page of the ZXHN H267N, select **Internet > Security > Firewall** to go to the **Firewall** page, the page as shown in Figure 3-15.

Figure 3-15 Firewall Page



2. Set the parameters. For a description of the parameters, refer to .

Table 3-10 Firewall Parameter Descriptions

Parameter	Description
Anti-Hacking	To enable anti-hacking protection and prevent device shutdown due to Internet attacks, select this check box. This feature can prevent ping flood, ping to death, and SYN flood attacks.
Firewall Level	● High: allows legal access from the WAN but forbids Internet devices from sending ping packets to the WAN interface of the ZXHN H267N. ● Middle: allows legal access from the WAN and blocks dangerous data from the Internet. ● Low: allows legal access from the WAN and allows Internet devices to send ping packets to the WAN interface of the ZXHN H267N.

3. Click **Apply** button to apply the changes.

– End of Steps –

3.4.2 Configure the Filter Criteria

The section describes how to configure filter criteria.

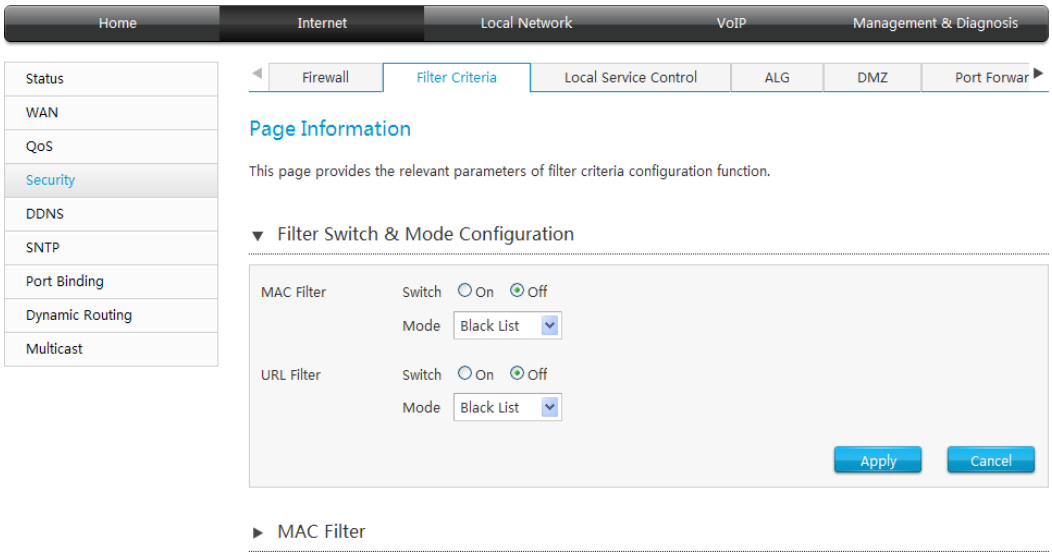
Steps

1. On the main page of the ZXHN H267N, select **Internet > Security > Filter Criteria** to go to the **Filter Criteria** page.

Filter Switch & Mode Configuration

2. Click **Filter Switch & Mode Configuration**.

Figure 3-16 Filter Switch & Mode Configuration Page



3. Configure Filter Switch & Mode configuration parameters.

Table 3-11 lists the Filter Switch & Mode configuration parameters.

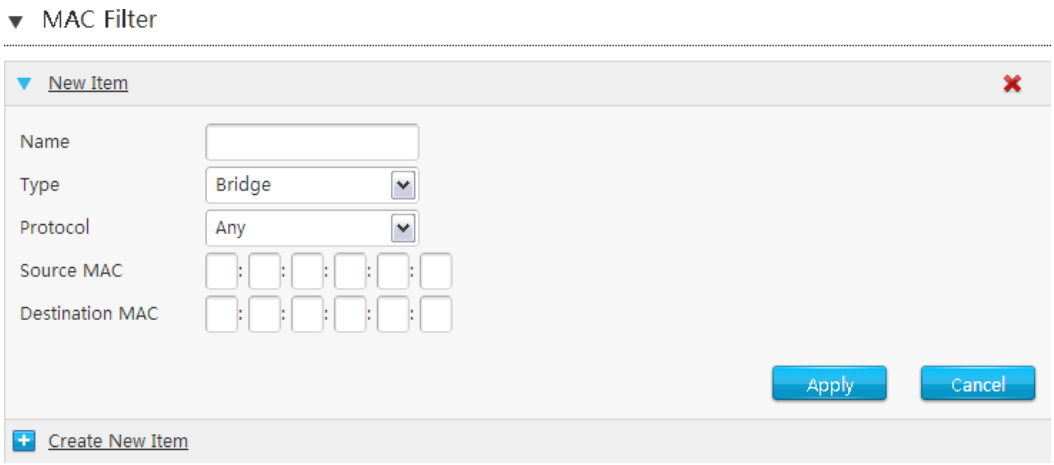
Table 3-11 Parameter Descriptions for the Switch & Mode Filter

Parameter	Description
MAC Filter	Enable the MAC filter function. There are two modes: ● Black List ● White List
URL Filter	Enable the URL filter function. There are two modes: ● Black List ● White List

MAC Filter

4. Click ▶ MAC Filter to open **MAC Filter** page, as shown in Figure 3-17.

Figure 3-17 MAC Filter



5. Table 3-12 lists the MAC Filter parameters.

Table 3-12 Parameter Descriptions for the MAC Filter

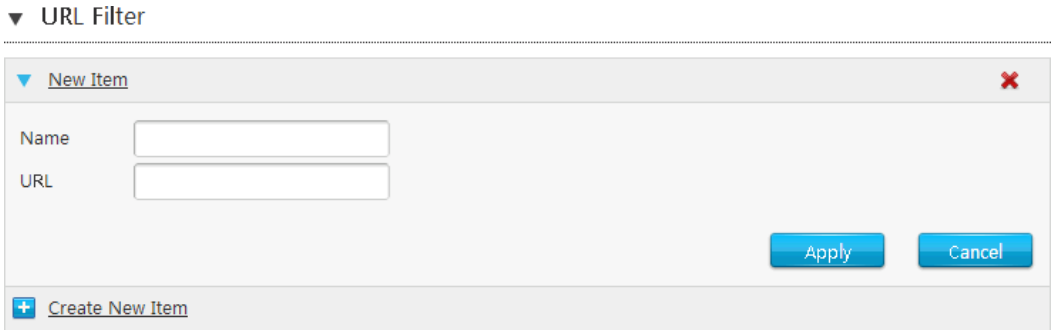
Parameter	Description
Name	The name of the MAC Filter.
Type	The type can be **Bridge**, **Route**, or **Bridge and Route**.
Protocol	The protocol that the MAC filter rule will be applied to.
Source MAC/Destination MAC	MAC address that needs to be filtered. Both options cannot be null at the same time.

6. Click **Apply** button to apply the changes.

URL Filter

7. Click ▶ URL Filter to open **URL Filter** page, as shown in Figure 3-18.

Figure 3-18 URL Filter Page

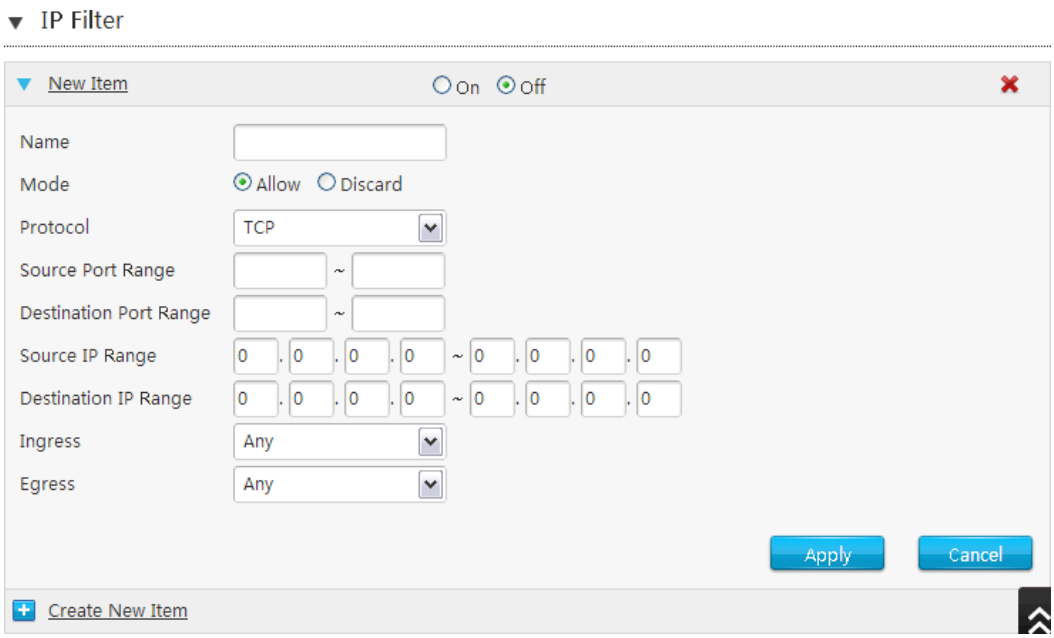


8. Configure the URL Filter parameters.
9. Click **Apply** button to apply the changes.

IP Filter

10. Click ▶ IP Filter to open **IP Filter** page, as shown in Figure 3-19.

Figure 3-19 IP Filter Page



11. Table 3-13 lists the IP Filter parameters.

Table 3-13 Parameter Descriptions for the IP Filter

Parameter	Description
Name	Name of the IP filter item. The name must be specified.
Mode	Specify to discard or permit the data packages.
Protocol	Select the protocol that needs to filter packets. By default, it is **TCP**.
Source Port Range/Destination Port Range	Source/Destination source Port.
Source IP Range/Destination IP Range	Source/Destination destination IP address.
Ingress	Specify the data traffic direction. The Ingress option and Egress option cannot be the same. ● If the Ingress is LAN, the Egress should be a WAN connection. The data traffic direction is upstream. ● If the Ingress is a WAN connection, the Egress should be the LAN. The data traffic direction is downstream.

Parameter	Description
Egress	Specify the data traffic direction. The Ingress option and Egress option cannot be the same. ● If the Ingress is LAN, the Egress should be a WAN or 3G connection. The data traffic direction is upstream. ● If the Ingress is a WAN or 3G connection, the Egress should be the LAN. The data traffic direction is downstream.

12. Click **Apply** button to apply the changes.

– End of Steps –

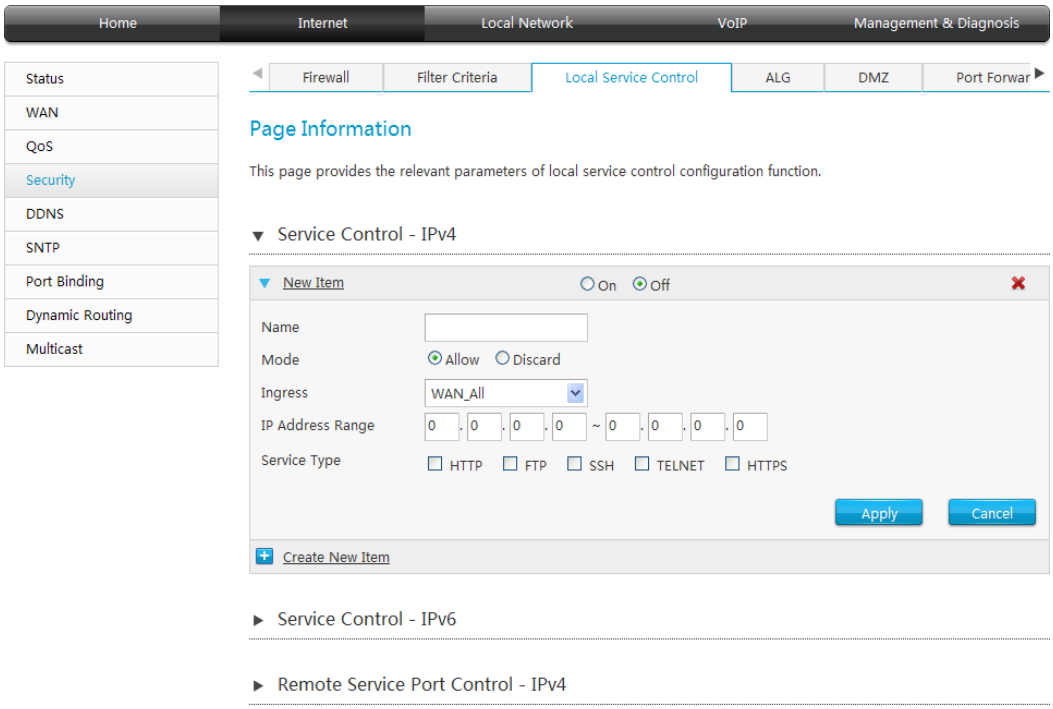
3.4.3 Configure the Local Service Control

The section describes how to configure local service control.

Steps

1. On the main page of the ZXHN H267N, select **Internet > Security > Local Service Control** to go to the **Local Service Control** page, as shown in Figure 3-20.

Figure 3-20 Local Service Control Page



Local Service Control-IPv4

2. Configuring Local Service Control-IPv4 parameters.

Table 3-14 lists the Local Service Control-IPv4 parameters.

Table 3-14 Parameter Descriptions for the Service Control-IPv4

Parameter	Description
Name	Name of the Service Control item. The name must be specified.
Mode	The mode includes the following: ● Allow ● Discard
Ingress	Specify the data stream inbound direction, and this parameter must be specified. ● If the Ingress is LAN, the data flow is upstream. ● If the Ingress is a WAN or 3G connection, the data flow is downstream.
IP Address Range	TheIP address segment that needs to be filtered. When the IP segment is null, it refers to all the IP addresses.
Service Type	Specify the service that is permitted or denied to access.

Service Control-IPv6

3. Click **Service Control-IPv6** to open **Service Control-IPv6** page, as shown in Figure 3-21.

Figure 3-21 Service Control-IPv6 Page

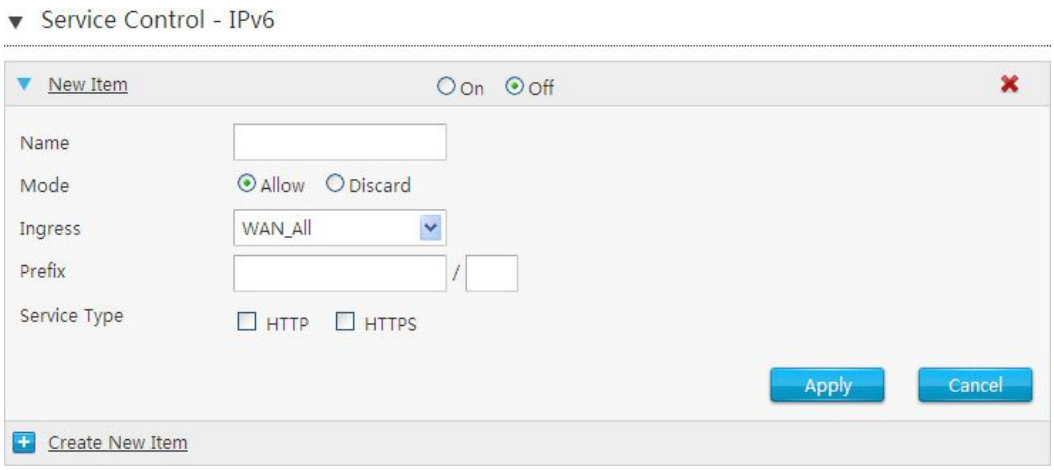


Table 3-15 lists the Service Control-IPv6 parameters.

Table 3-15 Parameter Descriptions for the Service Control-IPv6

Parameter	Description
Name	Name of the Service Control item. The name must be specified.
Mode	The mode includes the following: Allow and Discard.

Parameter	Description
Ingress	Specify the data stream inbound direction, and this parameter must be specified. ● If the Ingress is LAN, the data flow is upstream. ● If the Ingress is a WAN connection, the data flow is downstream.
Prefix	IPv6 address prefix.
Service Type	Type Specify the service that is permitted or denied to access.

4. Click **Apply** button to apply the changes.

Remote Service Port Control-IPv4

5. Click **Remote Service Port Control-IPv4** to open **Remote Service Port Control-IPv4** page, as shown in Figure 3-22.

Figure 3-22 Remote Service Port Control-IPv4 Page

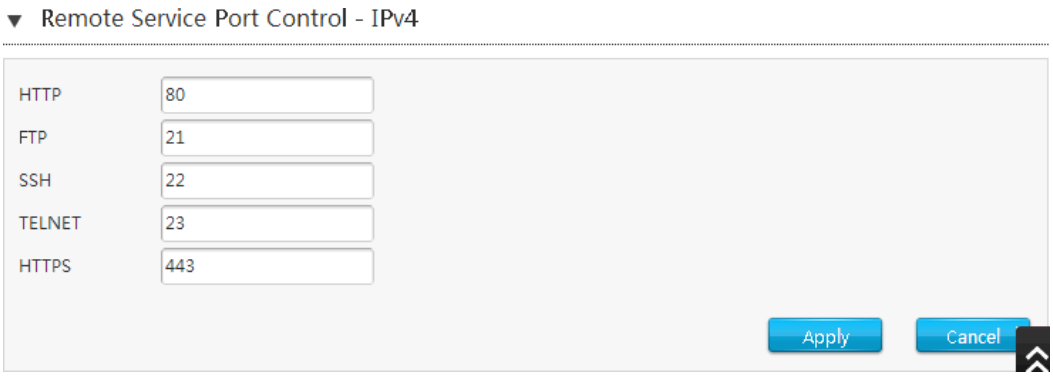


Table 3-16 lists the Remote Service Port Control-IPv4 parameters.

Table 3-16 Parameter Descriptions for the Remote Service Port Control-IPv4

Parameter	Description
HTTP	The remote service port control of HTTP.
FTP	The remote service port control of FTP.
SSH	The remote service port control of SSH.
TELNET	The remote service port control of TELNET.
HTTPS	The remote service port control of HTTPs.

6. Click **Apply** button to apply the changes.

– End of Steps –

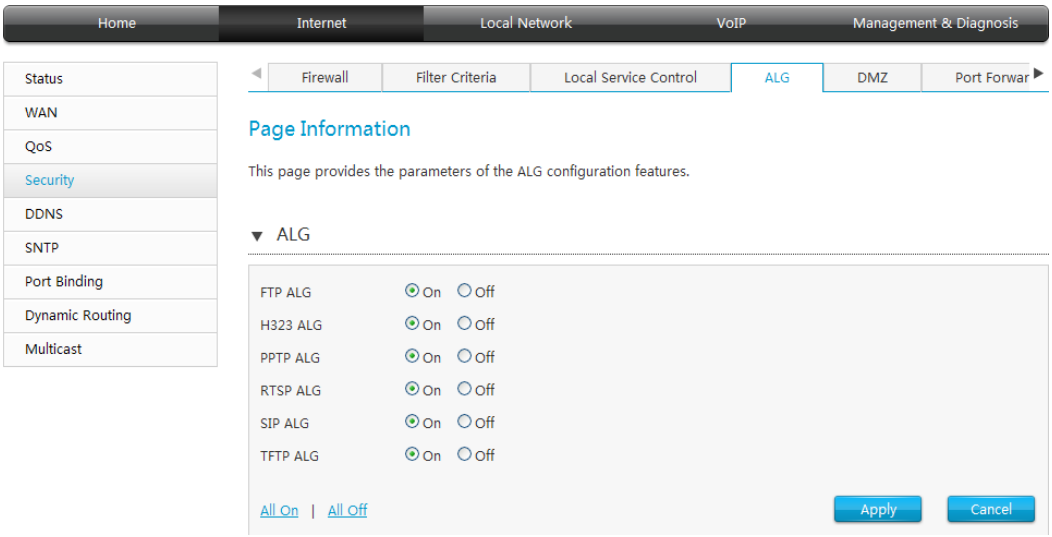
3.4.4 Configure the ALG

The section describes how to configure ALG. **ALG** provides the relevant parameters of security configuration function.

Steps

1. On the main page of the ZXHN H267N, select **Internet > Security > ALG** to go to the **ALG** page, the page as shown in Figure 3-23.

Figure 3-23 ALG Configuration Page



2. Select the ALG services.
3. Click **Apply** button to apply the changes.

Note:

- Click **All On** to select all ALG services.
- Click **All Off** to cancel all ALG services.

– End of Steps –

3.4.5 Configure the DMZ

The section describes how to configure DMZ. **DMZ** provides the parameters of DMZ configuration features.

Steps

1. On the main page of the ZXHN H267N, select **Internet > Security > DMZ** to go to the **DMZ** page, the page as shown in Figure 3-24.

Figure 3-24 DMZ Configuration Page

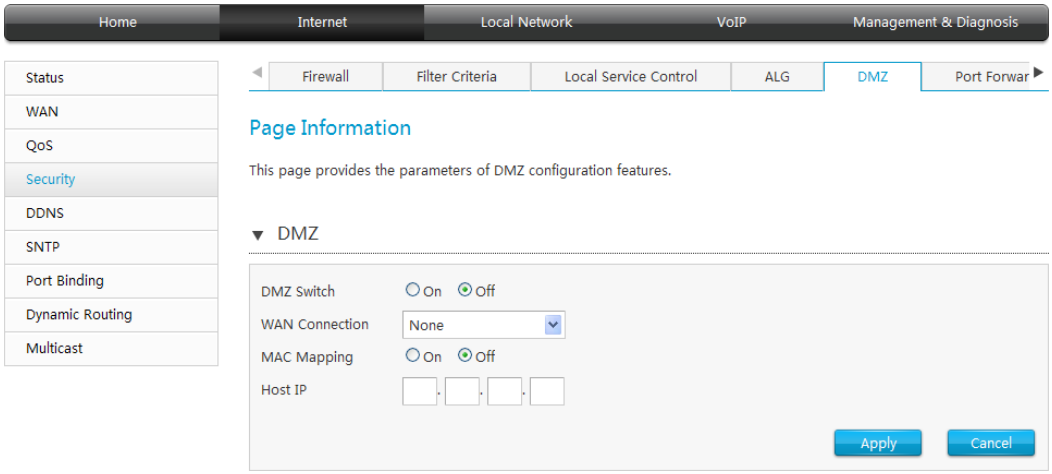


Table 3-17 lists the DMZ parameters.

Table 3-17 Parameter Descriptions for the DMZ

Parameter	Description
DMZ Switch	Enable the DMZ host function.
WAN Connection	WAN connection type.
MAC Mapping	Enable the MAC mapping function.
Host IP	The IP address of the computer or wireless devices at the LAN side.
MAC Address	The MAC address of the computer or wireless devices at the LAN side.

2. Click **Apply** button to apply the changes.

– End of Steps –

3.4.6 Configure the Port Forwarding

This procedure introduces how to configure Port Forwarding so that a computer from the external network can access the LAN-side server through the WAN connection. Port Forwarding provides the parameters of Port Forwarding configuration features.

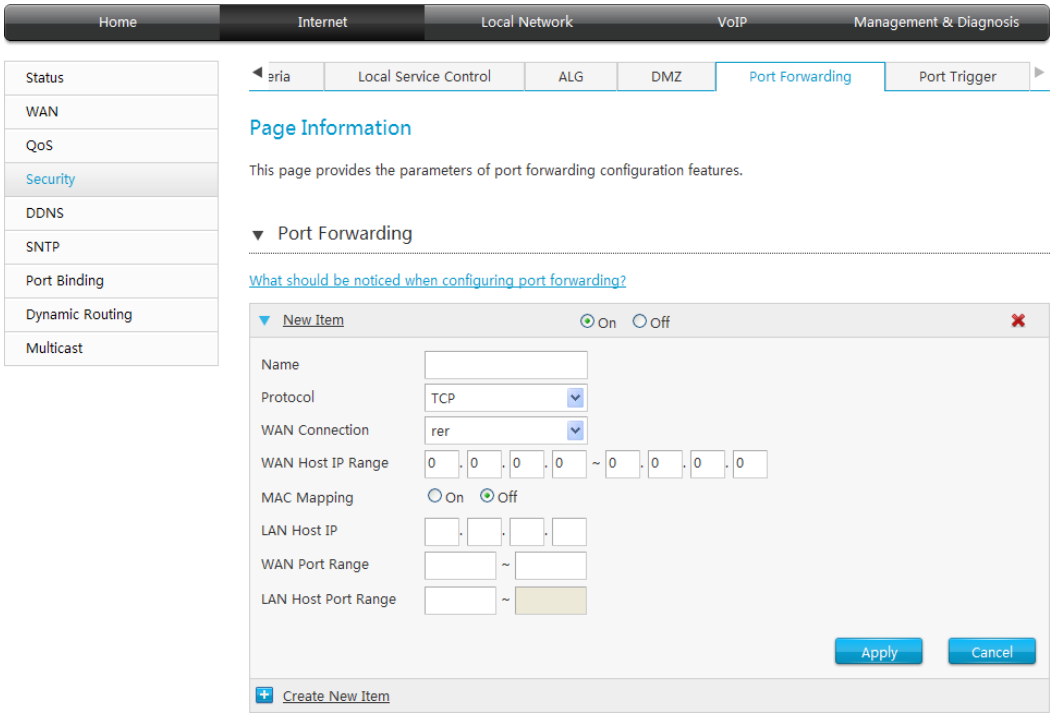
If you have local servers for different services and you want to make them publicly accessible, you need to specify the port forwarding policy. With NAT applied, it translates the internal IP addresses of these servers to a single IP address that is unique on the Internet.

To the Internet users, all virtual servers on your LAN have the same IP Address. This IP Address is allocated by your ISP. This address should be static, rather than dynamic, to make it easier for Internet users to connect to your servers. However, you can use dynamic DNS feature to allow users to connect to your virtual servers by using a URL, instead of an IP address.

Steps

1. On the main page of the ZXHN H267N, select **Internet > Security > Port Forwarding** to go to the **Port Forwarding** page, the page as shown in Figure 3-25.

Figure 3-25 Port Forwarding Configuration Page



2. Configure the Port Forwarding parameters.

Table 3-18 lists the Port Forwarding settings parameters.

Table 3-18 Parameter Descriptions for the Port Forwarding

Parameter	Description
Name	Virtual host name, which cannot be null.
Protocol	Protocol name, including **TCP**, **UDP**, as well as **TCP AND UDP**. The default protocol is **TCP**.
WAN Connection	WAN connection that is used to access the virtual host.
WAN Host IP Range	IP address segment of the WAN-side hosts.
MAC Mapping	Enable the MAC mapping function and map the MAC addresses of the LAN-side hosts to a single MAC address.
LAN Host IP	IP address of the LAN-side host.
LAN Host MAC Address	The MAC address of LAN-side host.
WAN Port Range	Port segment of the WAN-side hosts.
LAN Host Port Range	Port number range of the LAN-side host. Range: 1~65535.

3. Click **Apply** button to apply the changes.

– End of Steps –

3.4.7 Configure the Port Trigger

The section describes how to configure Port Trigger. **Port Trigger** provides the parameters of Port Trigger configuration features.

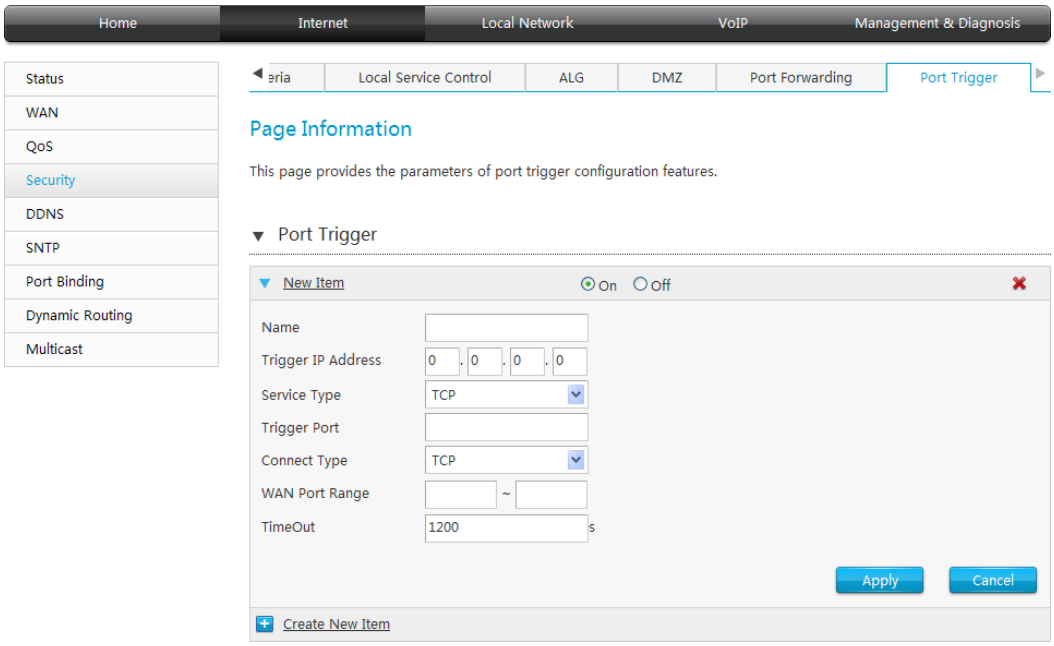
When one port is configured to be the triggering port, if one application uses that triggering port to setup a connection to the outside, the ZXHN H267N device will forward the outside connection to the internal forwarding port.

The port triggering is used to protect the ports. The system will not open these ports unless these ports are triggered.

Steps

1. On the main page of the ZXHN H267N, select **Internet > Security > Port Trigger** to go to the **Port Trigger** page, the page as shown in Figure 3-26.

Figure 3-26 Port Trigger Configuration Page



2. Configure the Port Trigger parameters.

Table 3-19 lists the Port Trigger parameters.

Table 3-19 Parameter Descriptions for the Port Trigger

Parameter	Description
Name	The name of Port Trigger.
Trigger IP Address	IP address of the computer in the LAN side.

Parameter	Description
Service Type	The service type of the application, including TCP, UDP, and TCP AND UDP. The default service type is TCP.
Trigger Port	The port that the application uses.
Connect Type	The connection type that is used to connect the outside, including TCP, UDP, and TCP AND UDP. The default service type is TCP.
WAN Port Range	Specify the port range of the device protocol that the triggering port maps, that is, the layer-4 port number of the packets. Once the device accesses the triggering port, the service between the start port and end port will be enabled. The WAN Start Port and WAN End Port must be specified and meet the following conditions. ● The end port number is larger than the start port number. ● The difference between the end port number and the start port number is less than nine.
Timeout	The time when no traffic occurs.

3. Click **Apply** button to apply the changes.

– End of Steps –

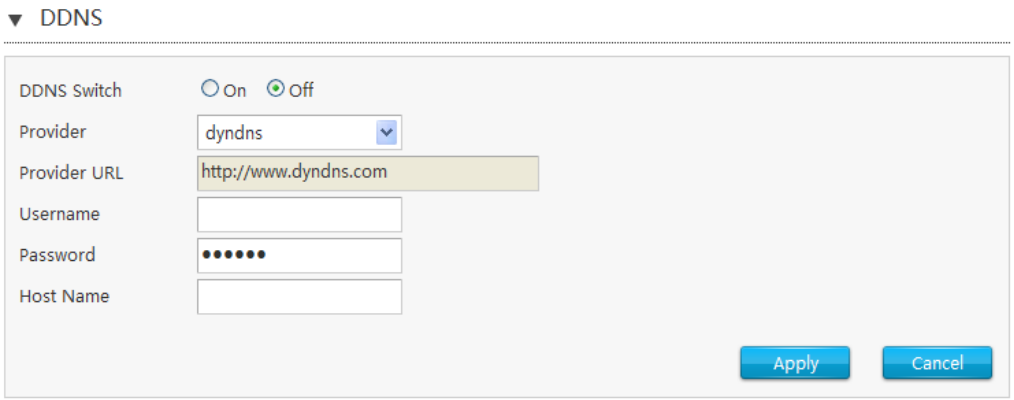
3.5 Configure the DDNS

The section describes how to configure DDNS. **DDNS** provides the parameters of DDNS configuration function.

Steps

1. On the main page of the ZXHN H267N, select **Internet > DDNS** to go to the **DDNS** page, the page as shown in Figure 3-27.

Figure 3-27 DDNS Configuration Page



2. Configure the DDNS parameters.

   Table 3-20 lists the DDNS parameters.

Table 3-20 Parameter Descriptions for the DDNS

Parameter	Description
DDNS switch	Enable or disable the DDNS function.
Provider	Supported provider. Options: dyndns and DtDNS. If the DtDNS is selected, the **WAN Connection** should be configured.
Provider URL	The URL of provider. If the dyndns HTTP is used, the URL is `http://www.dyndns.com`. If the DtDNS HTTP is used, the URL is `http://www.dyndns.com`.
Username	DDNS server user name.
Password	DDNS server password.
Host name	Host name corresponding to the user.
WAN Connection	WAN connection on which the DDNS feature is enabled.

3. Click **Apply** button to apply the changes.

– End of Steps –

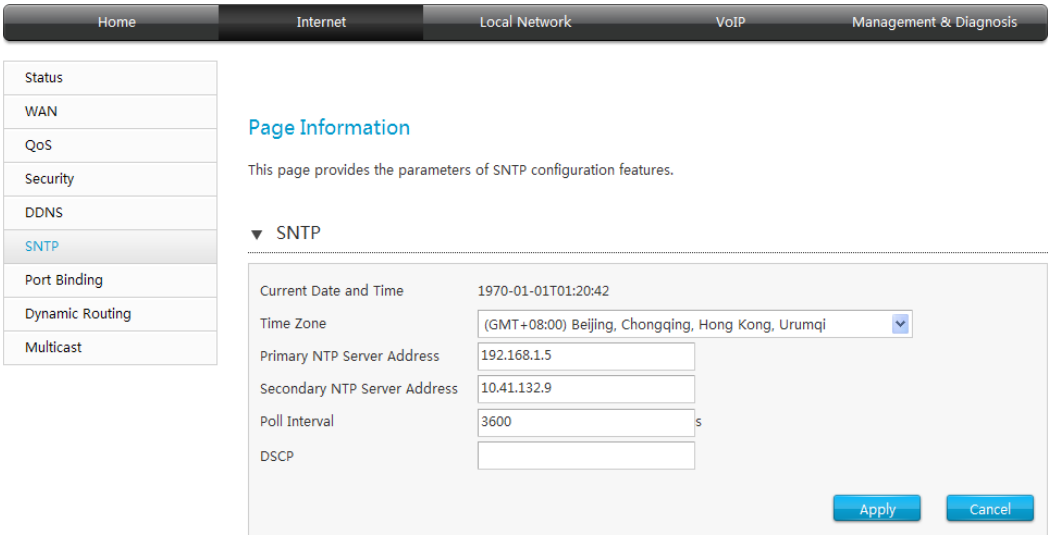
3.6 Configure the SNTP

The section describes how to configure SNTP. **SNTP** provides the parameters of SNTP configuration features.

Steps

1. On the main page of the ZXHN H267N, select **Internet > SNTP** to go to the **SNTP** page, the page as shown in Figure 3-28.

Figure 3-28 SNTP Configuration Page



2. Configure the SNTP parameters.

   Table 3-21 lists the SNTP parameters.

Table 3-21 Parameter Descriptions for the SNTP

Parameter	Description
Time Zone	Time zone.
Primary NTP Server Address	IP address or domain name of the active NTP server.
Secondary NTP Server Address	IP address or domain name of the standby NTP server.
Poll Interval	Interval of time synchronization. Unit: second.
DSCP	Range: 0–63.
Enable Daylight Saving Time	Enable the Daylight Saving Time.

3. Click **Apply** button to apply the changes.

– End of Steps –

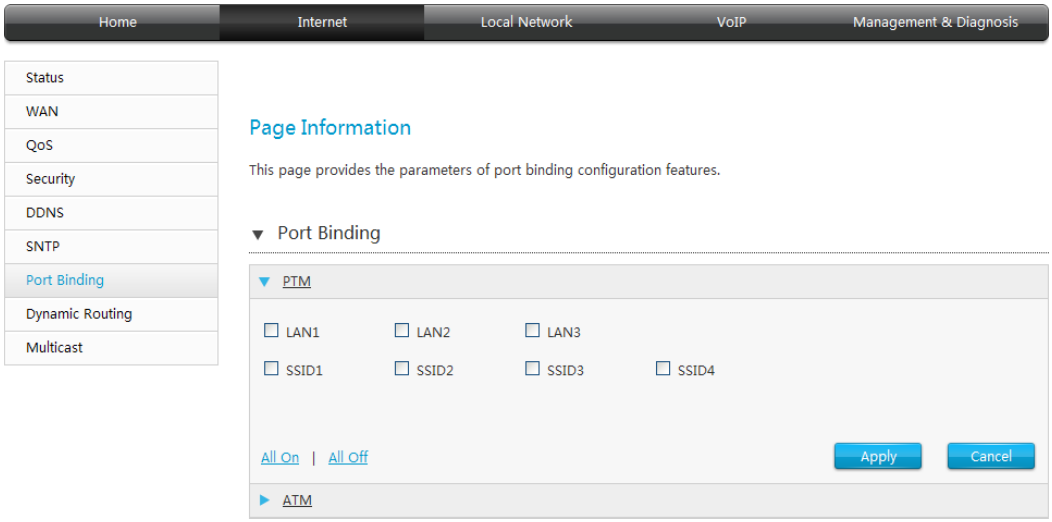
3.7 Configure the Port Binding

The section describes how to configure Port Binding. **Port Binding** provides the parameters of Port Binding configuration features.

Steps

1. On the main page of the ZXHN H267N, select **Internet > Port Binding** to go to the **Port Binding** page,the page as shown in Figure 3-29.

Figure 3-29 Port Binding Configuration Page



2. Select the **WAN connection**, and select the LAN port or SSID that you want to bind.

NOTE **Note:**

- Click **All On** to select all Port Binding types.
- Click **All Off** to cancel all Port Binding types.

---

3. Click **Apply** button to apply the changes.

– End of Steps –

3.8 Configure the Dynamic Routing

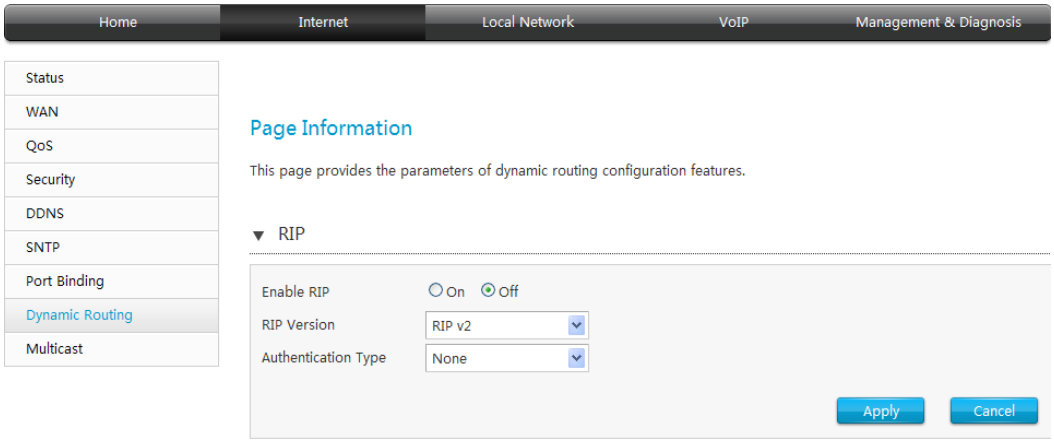
The section describes how to configure Dynamic Routing. **Dynamic Routing** provides the parameters of RIP configuration features.

Steps

1. On the main page of the ZXHN H267N, select **Internet > Dynamic Routing** to go to the **Dynamic Routing** page.

   The page is shown in Figure 3-30.

Figure 3-30 Dynamic Routing Configuration Page



Note:

The RIP configuration options vary with the **RIP Version** value.

RIP

2. Configure the RIP parameters.

   Table 3-22 lists the RIP parameters.

Table 3-22 Parameter Descriptions for the RIP

Parameter	Description
Enable RIP	To enable RIP.
RIP Version	Range: **RIP v1**, **RIP v2**, **RIP v1 Compatible**.
Authentication Type	The type includes None, Simple text, and MD5. By default, it is **None**.
Authentication Key	Range: 1–16 characters

3. Click **Apply** button to apply the changes.

– End of Steps –

3.9 Configure the Mulitcast

3.9.1 Configure the IGMP

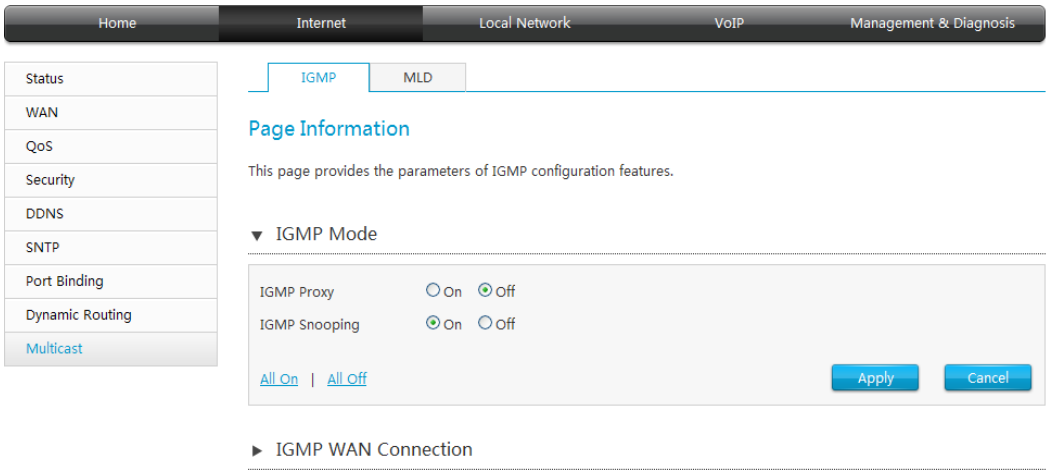
The section describes how to configure IGMP. **IGMP** provides the parameters of IGMP configuration features.

Steps

1. On the main page of the ZXHN H267N, select **Internet > Multicast > IGMP** to go to the **IGMP** page.

   The page is shown in Figure 3-31.

Figure 3-31 IGMP Configuration Page



2. Enable the IGMP functions.

NOTE **Note:**

- Click **All On** to select all IGMP functions.
- Click **All Off** to cancel all IGMP functions.

3. Click **Apply** button to apply the changes.

IGMP WAN Connection

4. Click **IGMP WAN Connection** to open **IGMP WAN Connection** page, as shown in Figure 3-32.

Figure 3-32 IGMP WAN Connection Page

5. Configuring **WAN Connection**.

6. Click **Apply** button to apply the changes.

– End of Steps –

3.9.2 Configure the MLD

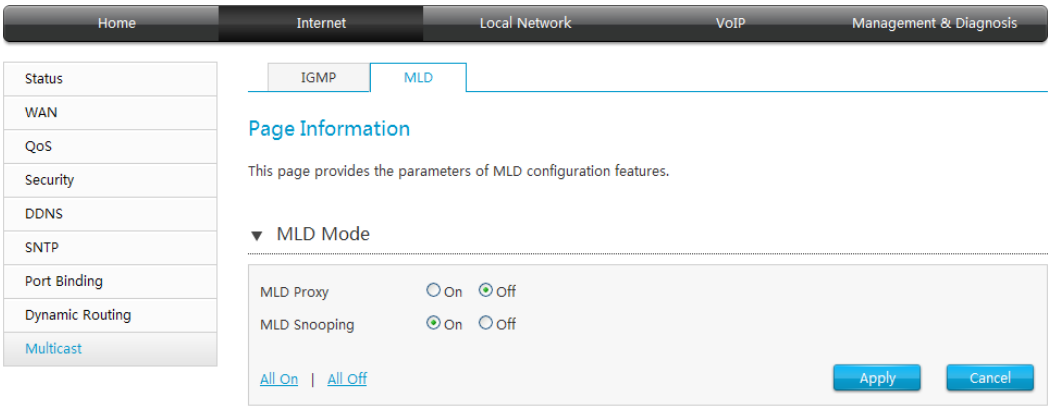
The section describes how to configure MLD. **MLD** provides the parameters of MLD configuration features.

Steps

1. On the main page of the ZXHN H267N, select **Internet > Multicast > MLD** to go to the **MLD** page.

   The page is shown in Figure 3-33.

Figure 3-33 MLD Configuration Page



MLD Mode

2. Enable the MLD Mode.

Note:

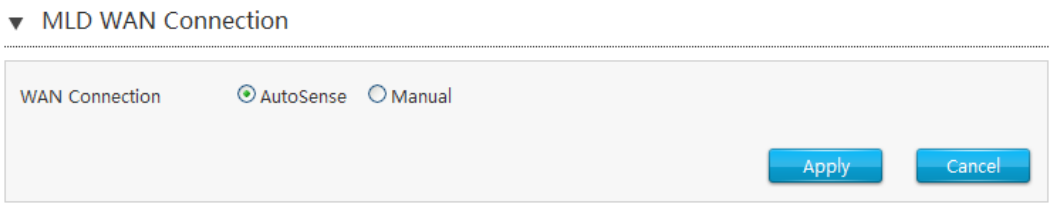
- Click **All On** to select all MLD functions.
- Click **All Off** to cancel all MLD functions.

3. Click **Apply** button to apply the changes.

WAN Connection

4. Click **MLD WAN Connection** to open **MLD WAN Connection** page, as shown in Figure 3-34.

Figure 3-34 MLD WAN Connection Page



5. Configuring **WAN Connection**.
6. Click **Apply** button to apply the changes.

– End of Steps –

Chapter 4
Configure the Local Network

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4.1 Check the Local Network Status

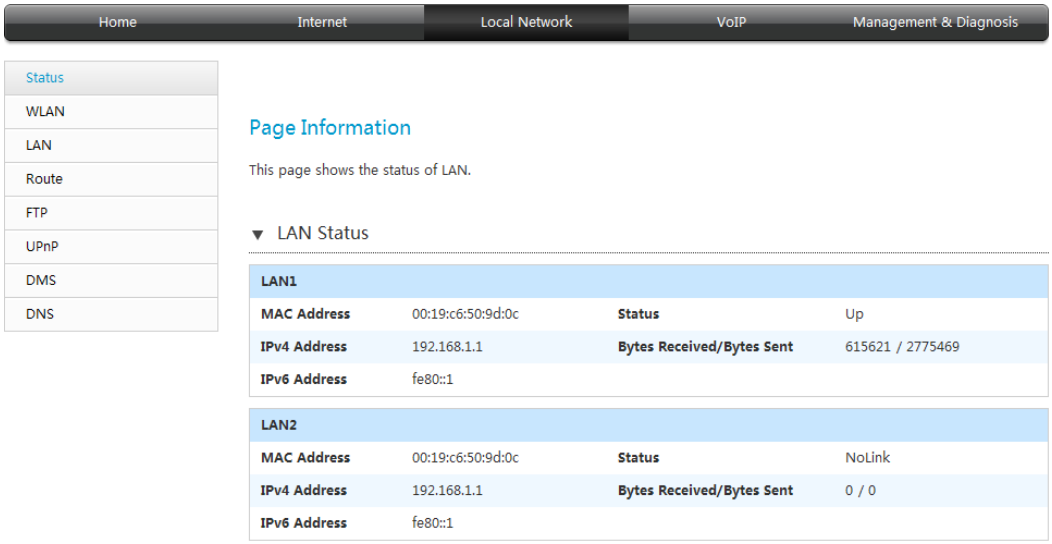
The section describes the status of Local Network. The relevant information of Local Network status is shown as below.

Steps

1. On the main page of the ZXHN H267N, select **Local Network > Status** to go to the **Local Network Status** page.

   The page is shown in Figure 4-1.

Figure 4-1 Local Network Status Page



2. The relevant information of Local Network status includes **LAN Status**, **WLAN Status**, **WLAN Client Status**, **LAN Client Status** and **USB Storage Status**.

– End of Steps –

4.2 Configure the WLAN

4.2.1 Configure the Basic Parameters of the WLAN

The section describes how to configure WLAN Basic Settings. **WLAN Basic Settings** provides the parameters of WLAN Basic Settings configuration features.

Steps

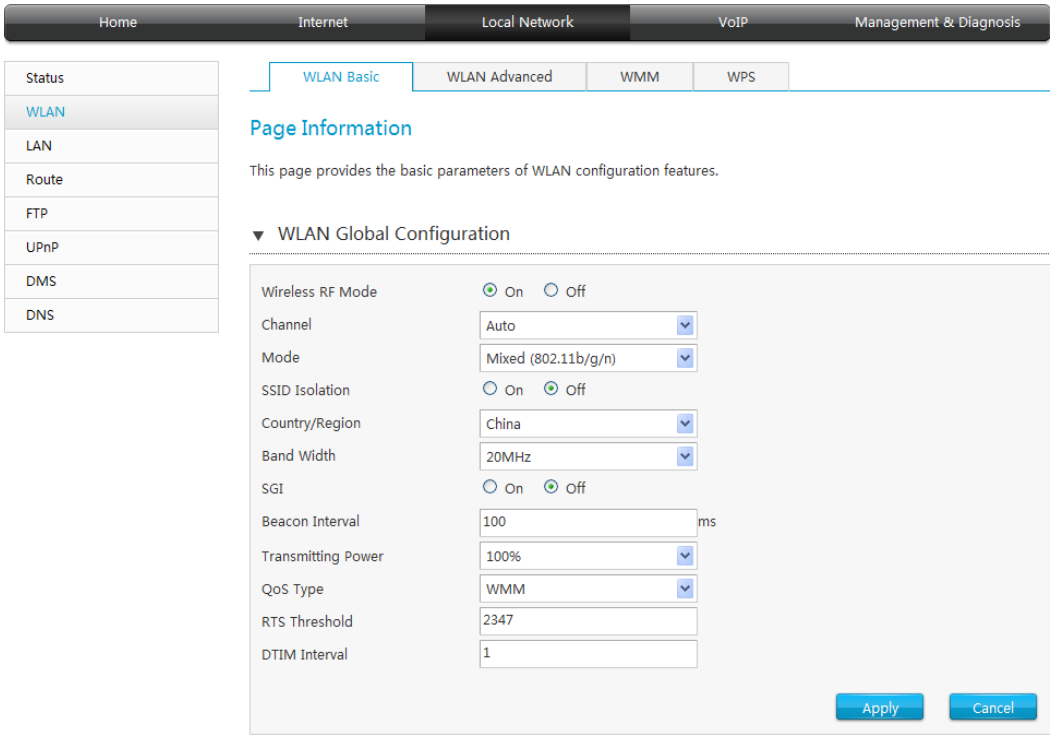
1. On the main page of the ZXHN H267N, select **Local Network > WLAN > WLAN Basic** to go to the **WLAN Basic** page.

WLAN Global Configuration

2. Click **WLAN Global**.

The page is shown in Figure 4-2.

Figure 4-2 WLAN Global Configuration Page



3. Configure the WLAN Global Configuration parameters.

Table 4-1 lists the WLAN global Configuration parameters.

Table 4-1 Parameter Descriptions for the WLAN Global Configuration

Parameter	Description
Wireless RF Mode	Select **On** to enable the wireless RF function.
Channel	The default is **Auto**.
Mode	Select the wireless RF transmission mode.
SSID Isolation	Select **On**, so that the wireless clients with the different SSIDs can not access each other.
Country/Region	Select the country or region.
Beacon Interval	Time interval for the wireless device to broadcast the SSID information. Keep the default value.
Transmitting Power	Select the transmitting power as required.
QoS Type	There are twoQoS types: ● Disable ● WMM
RTS Threshold	Specify the request to send threshold for a packet. When a packet exceeds this value, the device sends the RTS value to the destination point for negotiation. The default is 2347.
DTIM Interval	Range: 1 – 5. Default: 1.
Fragment Threshold	Default: 2346.

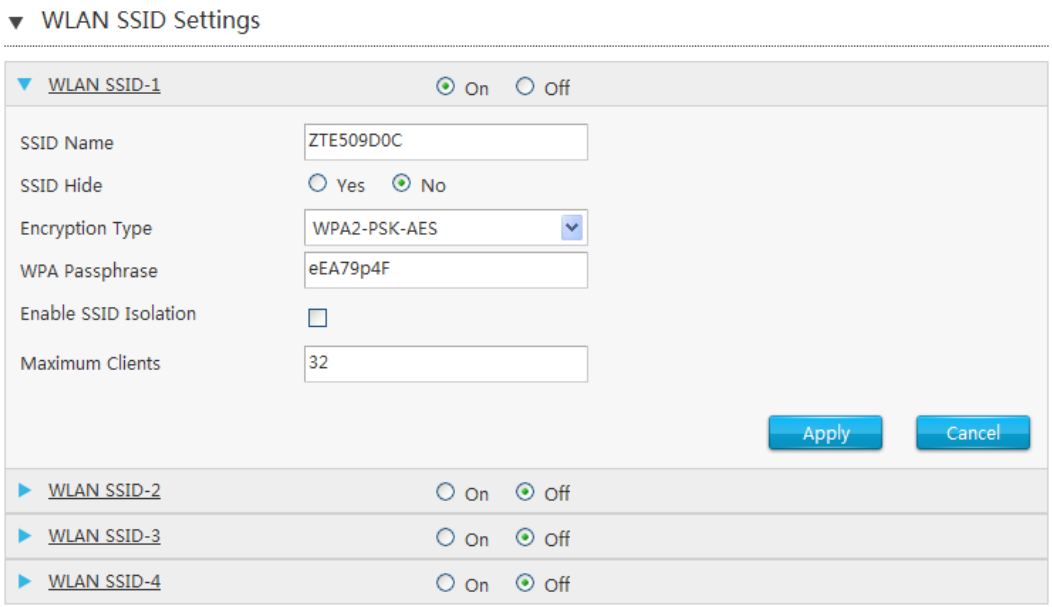
4. Click **Apply** button to apply the changes.

WLAN SSID Settings

5. Click **WLAN Global Prameter**.

   The page is shown in Figure 4-3.

Figure 4-3 WLAN SSID Settings Page



6. Configure the WLAN SSID setting parameters.

   Table 4-2 lists the WLAN SSID setting parameters.

Table 4-2 Parameter Descriptions for the WLAN SSID setting

Parameter	Description
SSID Name	The name of SSID.
SSID Hide	Hide the SSID information to prevent illegal users.
Encryption Type	Select Encryption Type.
WPA Passphrase	Range: 8 ~ 63 characters
Enable SSID Isolation	Enable SSID isolation. The wireless clients with the same SSID can not access each other.
Maximum Clients	Range: 1 - 32

NOTE **Note:**

The **WLAN Basic Settings** configuration options vary with the **Encryption type** value.

7. Click **Apply** button to apply the changes.

– End of Steps –

4.2.2 Configure the Advanced Parameters of the WLAN

The section describes how to configure WLAN Advanced. **WLAN Advanced** provides the parameters of WLAN Advanced configuration features.

Steps

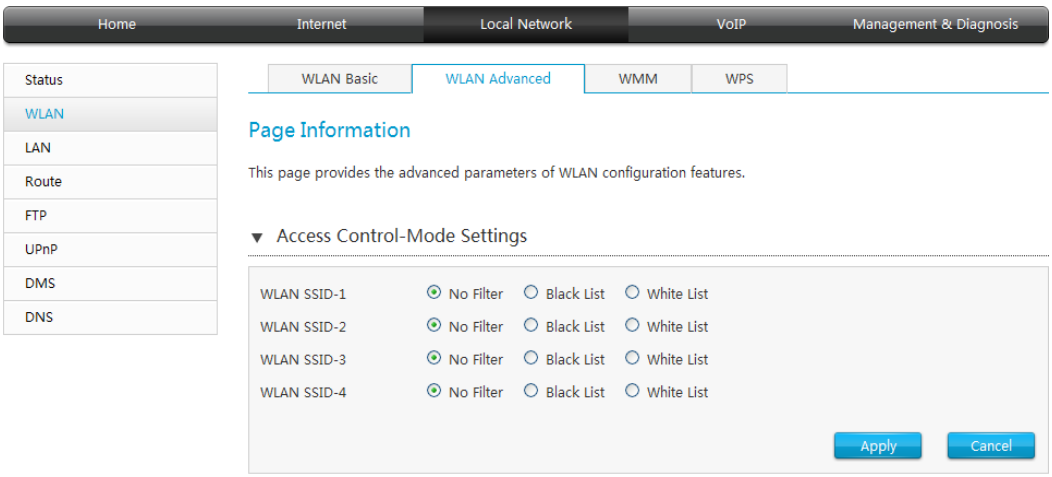
1. On the main page of the ZXHN H267N, select **Local Network > WLAN > WLAN Advanced** to go to the **WLAN Advanced** page.

Access Control-Mode Settings

2. Click **Access Control-Mode Settings**.

   The page is shown in Figure 4-4.

Figure 4-4 Access Control-Mode Settings Page



3. Configure the WLAN Global Configuration parameters.

   Table 4-3 lists the Acess Control-Rule setting parameters.

Table 4-3 Access Control-Mode parameters

Parameter	Description
No Filter	No filter is to be applied (the default).
Back List	Deny LAN users to access specific address.
White List	Allow LAN users to access specific address.

4. Click **Apply** button to apply the changes.

Acess Control-Rule Settings

5. Click **Acess Control-Rule Settings**.

   The page is shown in Figure 4-5.

Figure 4-5 Acess Control-Rule Settings

6. Configure the Access Control-Rule Configuration parameters.

   Table 4-3 lists the Access Control-Rule parameters.

Table 4-4 Access Control-Rule parameters

Parameter	Description
Name	The name of Acess Control Item.
Choose SSID	Choose the SSID to configure the ACL.
MAC Address	The MAC address of the wireless device.

7. Click **Apply** button to apply the changes.

   – End of Steps –

4.2.3 Configure the WMM

The section describes how to configure WMM. The WMM support the BE_AC/BK_AC/VI_AC/VO_AC control types.

Steps

1. On the main page of the ZXHN H267N, select **Local Network > WLAN > WMM** to go to the **WMM** page, as shown in Figure 4-6.

Figure 4-6 WMM Configuration Page

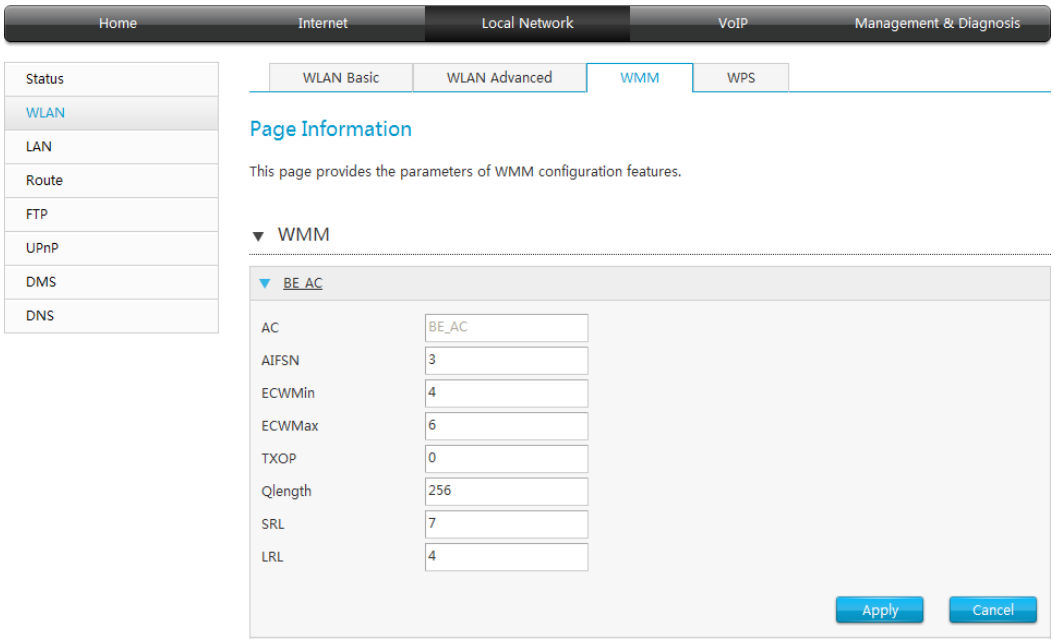


Table 4-5 lists the WMM parameters.

Table 4-5 Parameter Descriptions for the WMM

Parameter	Description
AC	Access Category.
AIFSN	Arbitration Inter Frame Space Number.
ECWMin/ECWMax	Exponent of Contention Window.
TXOP	Transmission Opportunity.
Qlength	The queue size valule.
SRL	A short retry counter.
LRL	A long retry counter.

2. Click **Apply** button to apply the changes.

– End of Steps –

4.2.4 Configure the WPS

This page provides the parameters of WPS configuration features.

Steps

1. On the main page of the ZXHN H267N, select **Local Network > WLAN > WPS** to go to the **WPS** page, as shown in Figure 4-7.

Figure 4-7 WPS Configuration Page

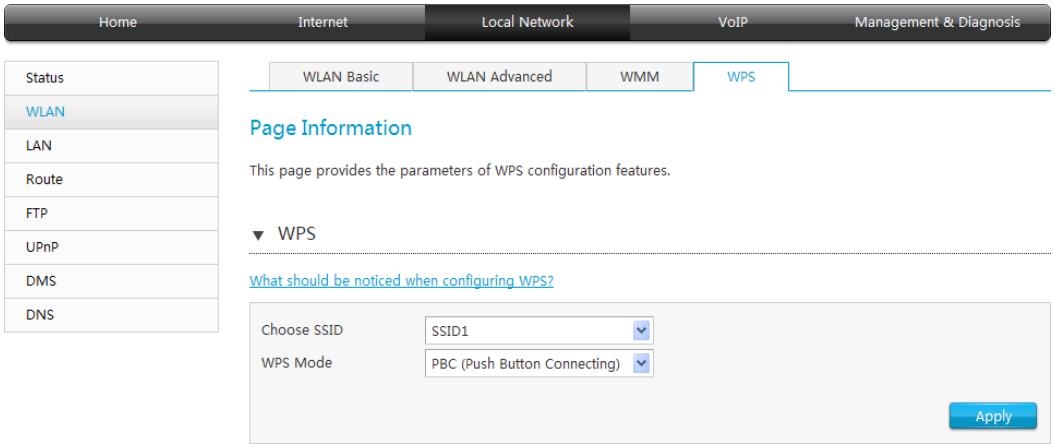


Table 4-6 lists the WPS parameters.

Table 4-6 Parameter Descriptions for the WPS

Parameter	Description
SSID	Default SSID1.
WPS Mode	WPS Mode that the device supports. Normally, it is set to PCB. ● PCB(Push Button Connecting) ● Disabled

2. Click **Apply** button to apply the changes.

– End of Steps –

4.3 Configure the LAN

4.3.1 Configure the LAN(IPv4)

The section describes how to configure LAN(IPv4).

The relevant information of Internet status includes **Allocated Address**, **DHCP Server**, **DHCP Binding** and **Port Control-DHCP**.

Steps

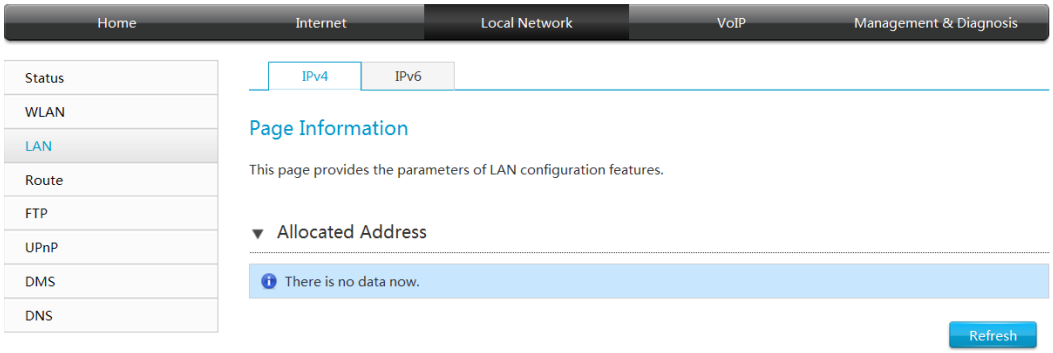
1. On the main page of the ZXHN H267N, select **Local Network > LAN > IPv4** to go to the **IPv4** page.

Allocated address

2. Click **Allocated Address**.

   Allocated address page is displayed, see Figure 4-8.

Figure 4-8 Allocated Address(IPv4) Page



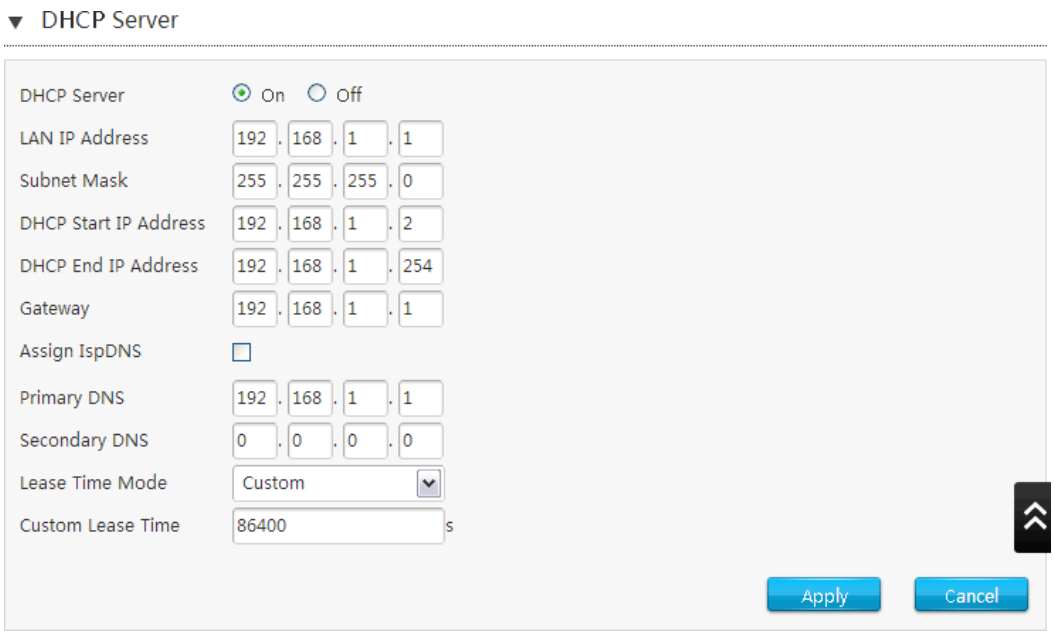
3. Click **Refresh** to refresh the informations.

DHCP server

4. Click **DHCP Server**.

   DHCP server page is displayed, see Figure 4-9.

Figure 4-9 DHCP Server(IPv4) Page



5. Configure the DHCP server parameters.

   Table 4-7 lists the DHCP server parameters.

Table 4-7 Parameter Descriptions for the DHCP Server

Parameter	Description
DHCP Server	Select **On** to let the device work as a DHCP server and assign IP addresses to the client PCs or wireless devices.
LAN IP Address	The IP address of LAN.
Subnet Mask	Subnet mask of the device.

Parameter	Description
DHCP Start IP Address	The start IP address of the DHCP address pool.
DHCP End IP Address	The end IP address of the DHCP address pool.
Gateway	It is usually the IP address of the ZXHN H267N device by default.
Assign IspDNS	Select **On** to let the Assign IspDNS work.
Primary DNS	IP addresses of the DNS server1, provided by the ISP.
Secondary DNS	IP addresses of the DNS server2, provided by the ISP.
Lease Time Mode	The mode of Lease Time.
Custom Lease Time	The time during which the client PCs use the IP addresses assigned by the DHCP server. After the lease time expires, the private IP address will be available for assigning to other network devices.

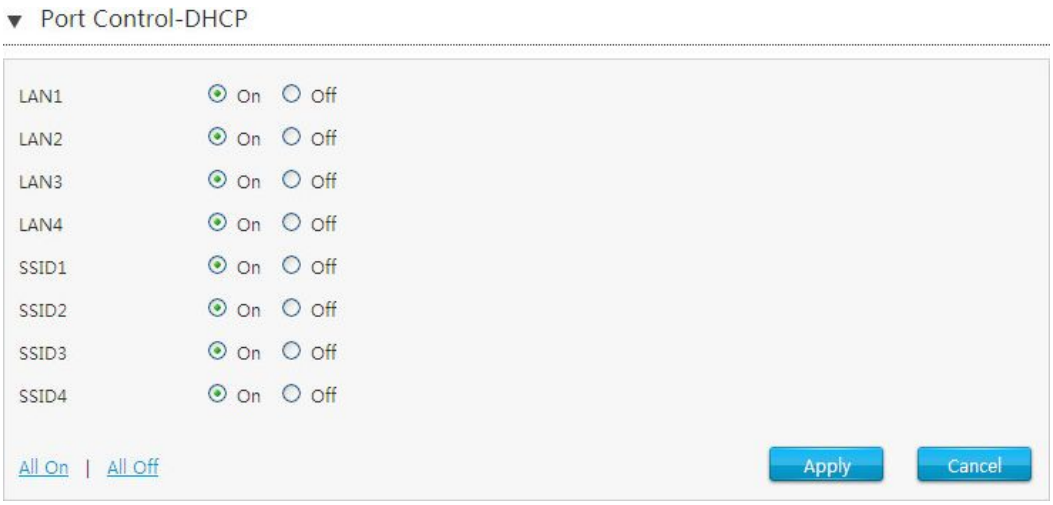
6. Click **Apply** button to apply the changes.

Port Control-DHCP

7. Click **Port Control-DHCP**.

   The page is shown in Figure 4-10.

Figure 4-10 Port Control-DHCP(IPv4) Page



8. Select the LAN interface or SSID on which you want to disable the DHCP function.

NOTE **Note:**

- Click **All On** to select all IPv4 DHCP Service-Port Control types.
- Click **All Off** to cancel all IPv4 DHCP Service-Port Control types.

DHCP binding

9. Click **DHCP Binding**.

   The page is shown in Figure 4-11.

Figure 4-11 DHCP Binding Page

10. Configure the DHCP Binding parameters.

    Table 4-8 lists the DHCP Binding parameters.

Table 4-8 Parameter Descriptions for the DHCP Binding

Parameter	Description
Name	The name of the DHCP Binding.
MAC Address	The MAC address of the DHCP Binding.
IP Address	IP address of the DHCP Binding.

11. Click **Apply** button to apply the changes.

– End of Steps –

4.3.2 Configure the LAN(IPv6)

The section describes how to configure LAN Management-IPv6.

The relevant information of Internet status includes **Allocated Address**, **DHCP Server**, **Prefix Management**, **Port Control-DHCPv6&RA** and **RA Service**.

Prerequisite

Before configuring the prefix delegation, make sure that the prefix delegation is enabled for the specified IPv6 WAN connection.

Steps

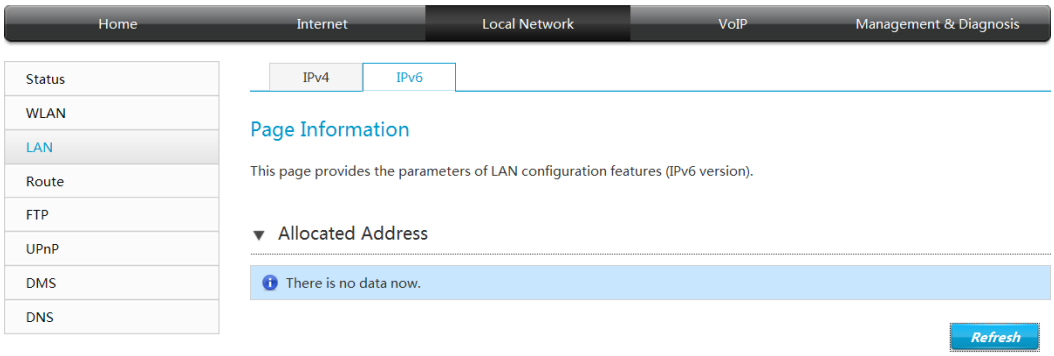
1. On the main page of the ZXHN H267N, select **Local Network > LAN > IPv6** to go to the **IPv6** page.

Allocated address

2. Click **Allocated Address**.

   Allocated address page is displayed, see Figure 4-12.

Figure 4-12 Allocated Address(IPv6) Page



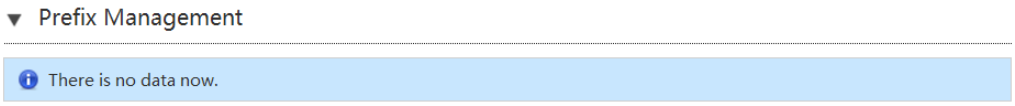
3. Click **Refresh** to refresh the informations.

Allocated address

4. Click **Prefix Management**.

   Prefix management page is displayed, see Figure 4-13.

Figure 4-13 Prefix Management(IPv6) Page

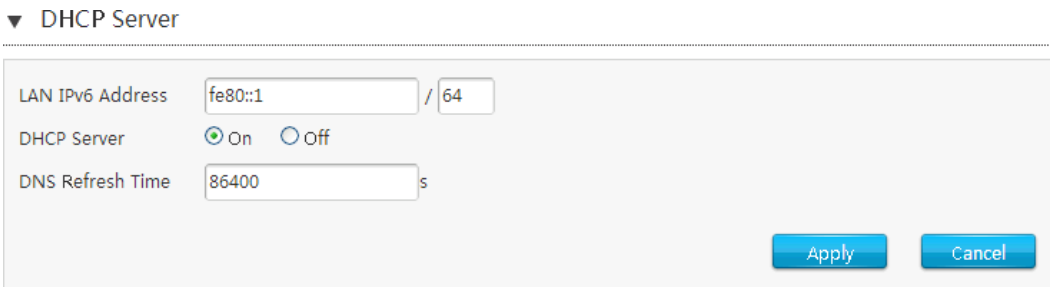


DHCP server

5. Click **DHCP Server**.

   DHCP server page is displayed, see Figure 4-14.

Figure 4-14 DHCP Server(IPv6) Page



6. Configure the DHCP server parameters.

   Table 4-9 lists the Static Routing parameters.

Table 4-9 Parameter Descriptions for the DHCP Server

Parameter	Description
LAN IPv6 Address	The address of LAN.
DHCP Server	Select **On** to let the device work as a DHCP server and assign IP addresses to the client PCs or wireless devices.
DNS Refresh Time	The time during which the client PCs use the IP addresses assigned by the DHCP server. After the lease time expires, the private IP address will be available for assigning to other network devices.

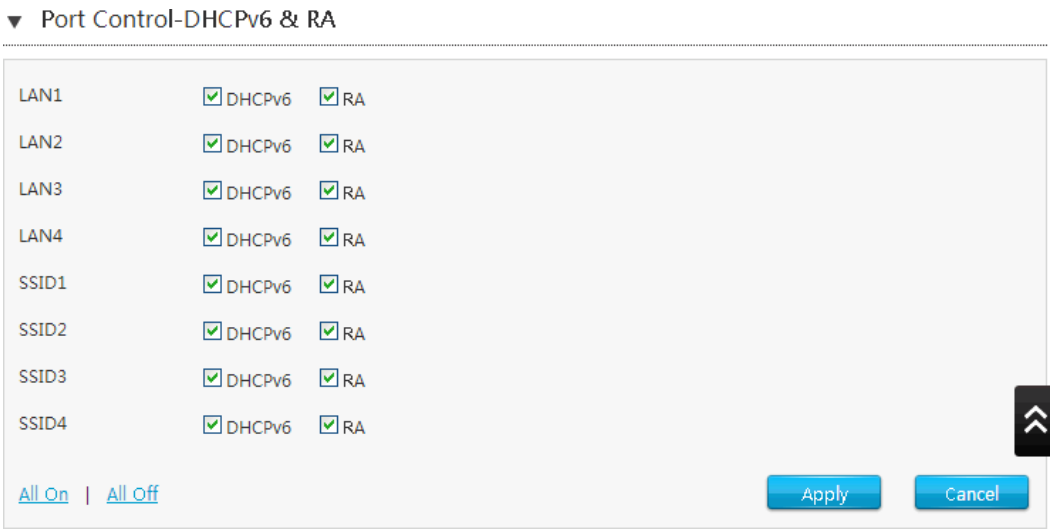
7. Click **Apply** button to apply the changes.

Port Control-DHCPv6&RA.

8. Click **Port Control-DHCPv6&RA**.

   The page is shown in Figure 4-15.

Figure 4-15 Port Control-DHCPv6&RA(IPv6) Page



9. Select the LAN interface or SSID on which you want to disable or enable the DHCP and RA function.

NOTE **Note:**

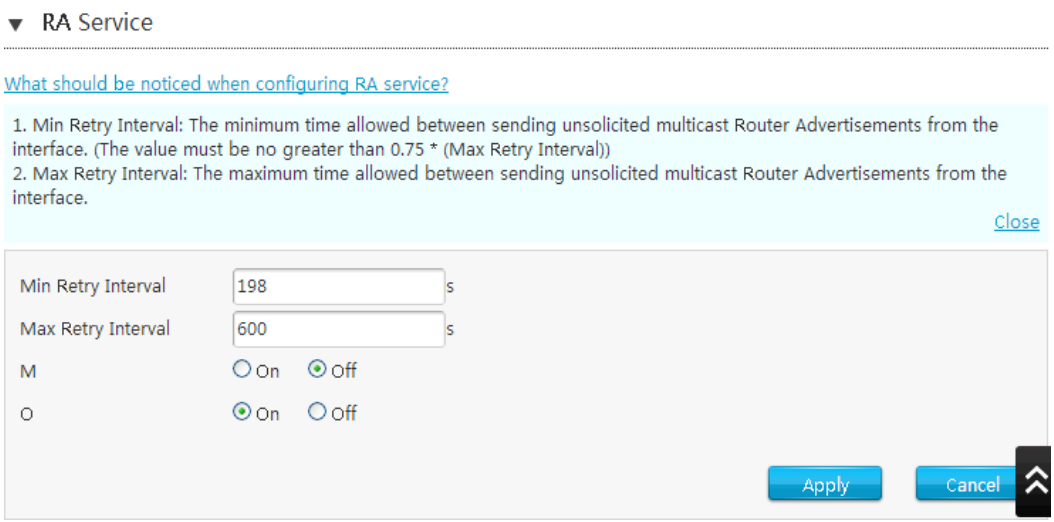
- Click **All On** to select all IPv6 DHCP Service-Port Control types.
- Click **All Off** to cancel all IPv6 DHCP Service-Port Control types.

RA service.

10. Click **RA Service**.

The page is shown in Figure 4-16.

Figure 4-16 RA Service Page



11. Configure the RA Service parameters.

Table 4-10 lists the RA Service parameters.

Table 4-10 Parameter Descriptions for the RA Service

Parameter	Description
Min Retry Interva	Minimum retry interva.
Max Retry Interva	Maximum retry interva.
M	Managed flag. Select this check box to enable the connected devices to obtain the IPv6 address through DHCP IPv6.
O	Other configure flag. Select this check box to enable the connected devices to obtain DNS address through DHCP IPv6.

12. Click **Apply** button to apply the changes.

– End of Steps –

4.4 Configure the Route

4.4.1 Configure the Route(IPv4)

The section describes how to configure route(IPv4). **Route(IPv4)** provides the parameters of route(IPv4) configuration features.

The relevant information of Internet status includes **Routing Table**, **Static Routing** and **Policy Routing**.

Prerequisite

Before configuring **Route(IPv4)**, make sure that the IPv4 WAN connection is created.

Steps

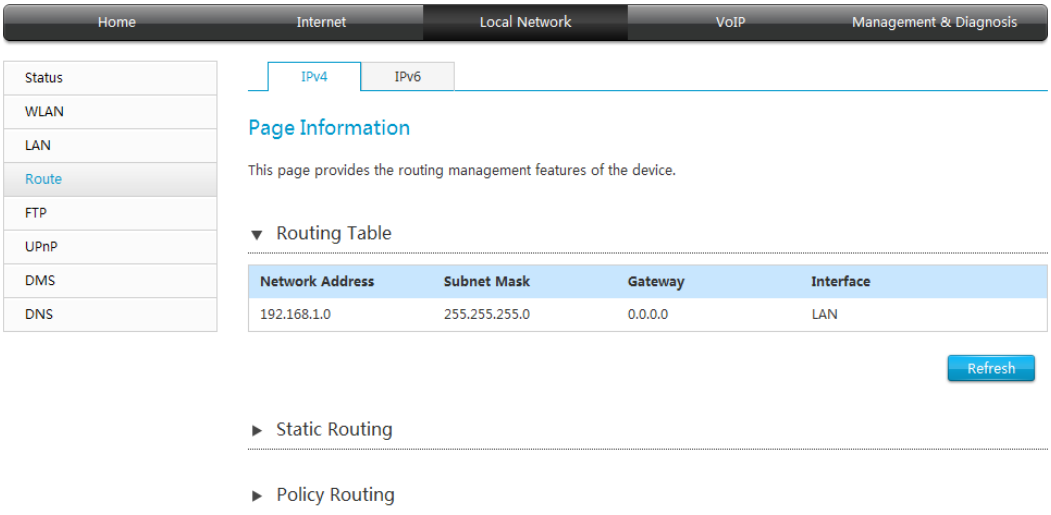
1. On the main page of the ZXHN H267N, select **Local Network > Route > IPv4** to go to the **Route(IPv4)** page.

Routing table

2. Click **Routing Table**.

   The page is shown in Figure 4-17.

Figure 4-17 Routing Table(IPv4) Page



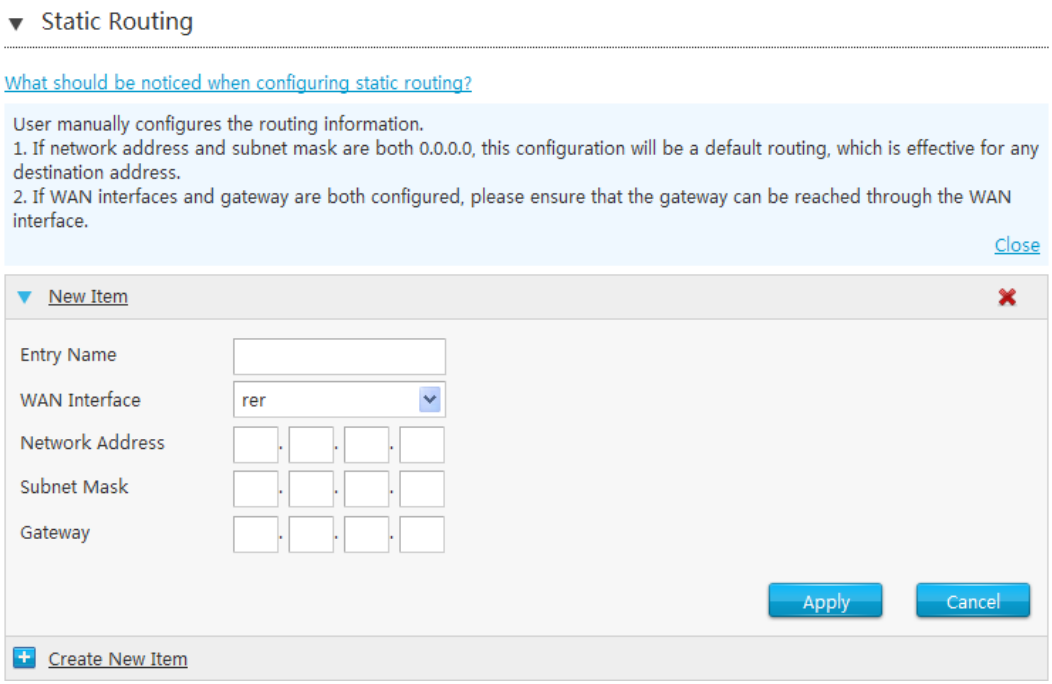
3. Click **Refresh** to refresh the informations.

Static routing

4. Click **Static Routing**.

   The page is shown in Figure 4-18.

Figure 4-18 Static Routing(IPv4) Page



5. Configure the Static Routing parameters.

   Table 4-11 lists the Static Routing parameters.

Table 4-11 Parameter Descriptions for the Static Routing

Parameter	Description
Entry Name	The name of static routing entry.
WAN Interface	WAN connection for static routing.
Network Address	IP address of the destination network.
Subnet Mask	Subnet mask of the destination network.
Gateway	The next-hop IP address to the destination network.

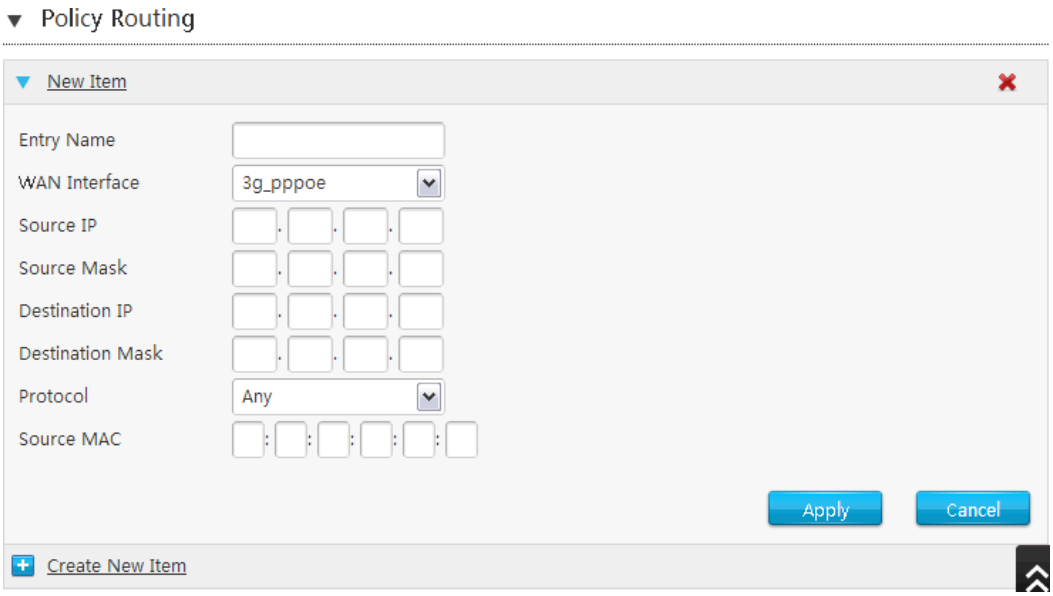
6. Click **Apply** button to apply the changes.

Policy routing

7. Click **Policy Routing**.

   The page is shown in Figure 4-19.

Figure 4-19 Policy Routing(IPv4) Page



8. Configure the Policy Routing parameters.

   Table 4-12 lists the Policy Routing parameters.

Table 4-12 Parameter Descriptions for the Policy Routing(IPv4)

Parameter	Description
Entry Name	The name of Policy routing entry.
WAN Interface	WAN connection for policy routing
Source IP	Source IP address.
Source Mask	Source mask of the network segment.
Destination IP	Destination IP address.
Destination Mask	Destination mask of the network segment.
Protocol	The protocol includes the following: ● TCP ● UDP ● ICMP ● ANY
Source Port	Source port number.
Destination Port	Destination port number.
Source MAC	Source MAC address.

NOTE **Note:**

The **Policy Routing** configuration options vary with the **Protocol** value.

9. Click **Apply** button to apply the changes.

– End of Steps –

4.4.2 Configure the Route(IPv6)

The section describes how to configure Route-IPv6.

The relevant information of Internet status includes **Routing Table**, **Static Routing**, and **Policy Routing**.

Prerequisite

Before configuring **Route(IPv6)**, make sure that the IPv6 WAN connection is created.

Steps

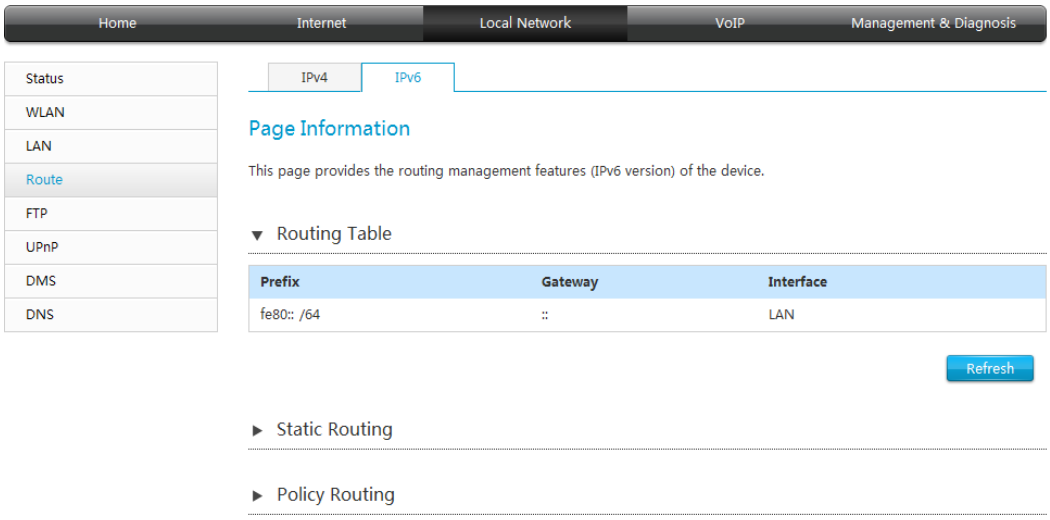
1. On the main page of the ZXHN H267N, select **Local Network > Route > IPv6** to go to the **Route(IPv6)** page.

Routing table.

2. Click **Routing Table**.

   The page is shown in Figure 4-20.

Figure 4-20 Routing Table(IPv6) Page



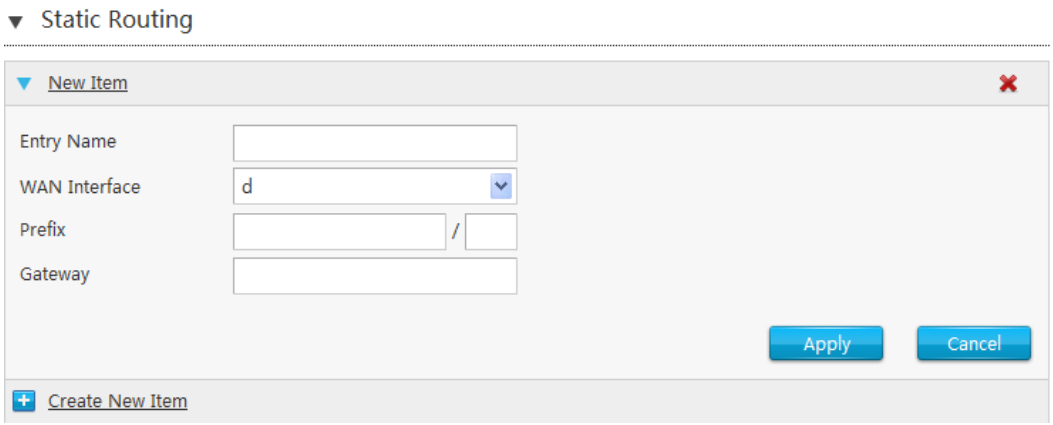
3. Click **Refresh** to refresh the informations.

Static routing.

4. Click **Static Routing**.

   The page is shown in Figure 4-21.

Figure 4-21 Static Routing(IPv6) Page



5. Configure the Static Routing parameters.

   Table 4-13 lists the Static Routing parameters.

Table 4-13 Parameter Descriptions for the Static Routing(IPv6)

Parameter	Description
Entry Name	The name of static routing entry.
WAN Interface	WAN connection for static routing.
Prefix	IPv6 address and prefix length, range: 0–128.
Gateway	The next-hop IP address to the destination network.

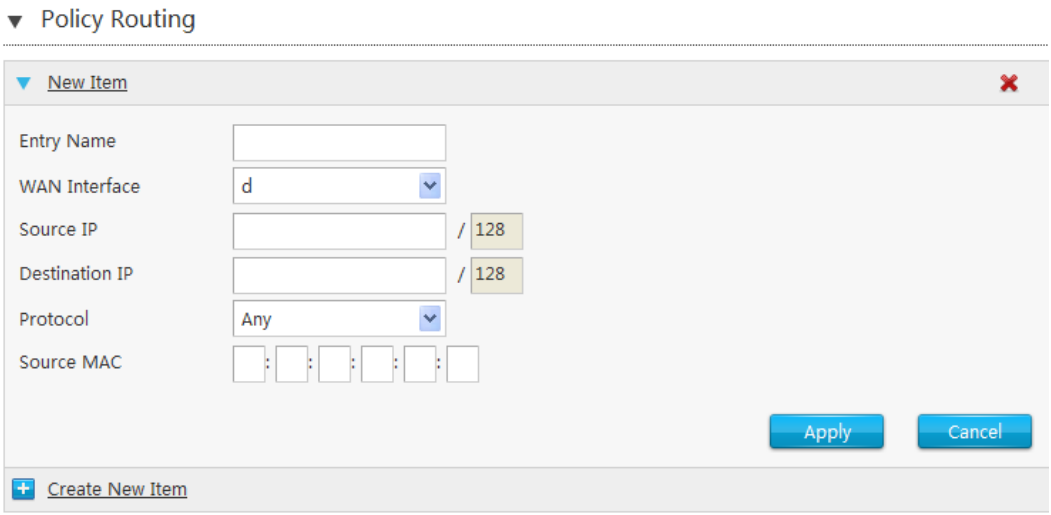
6. Click **Apply** button to apply the changes.

Policy routing

7. Click **Policy Routing**.

   The page is shown in Figure 4-22.

Figure 4-22 Policy Routing(IPv6) Page



8. Configure the Policy Routing parameters.

   Table 4-14 lists the Policy Routing parameters.

Table 4-14 Parameter Descriptions for the Policy Routing(IPv6)

Parameter	Description
Entry Name	The name of Policy routing entry.
WAN Interface	WAN connection for policy routing
Source IP	Source IP address.
Destination IP	Destination IP address.
Protocol	The protocol includes the following: ● TCP ● UDP ● ANY
Source MAC	Source MAC address.

NOTE **Note:**

The **Policy Routing** configuration options vary with the **Protocol** value.

9. Click **Apply** button to apply the changes.

– End of Steps –

4.5 Configure the FTP

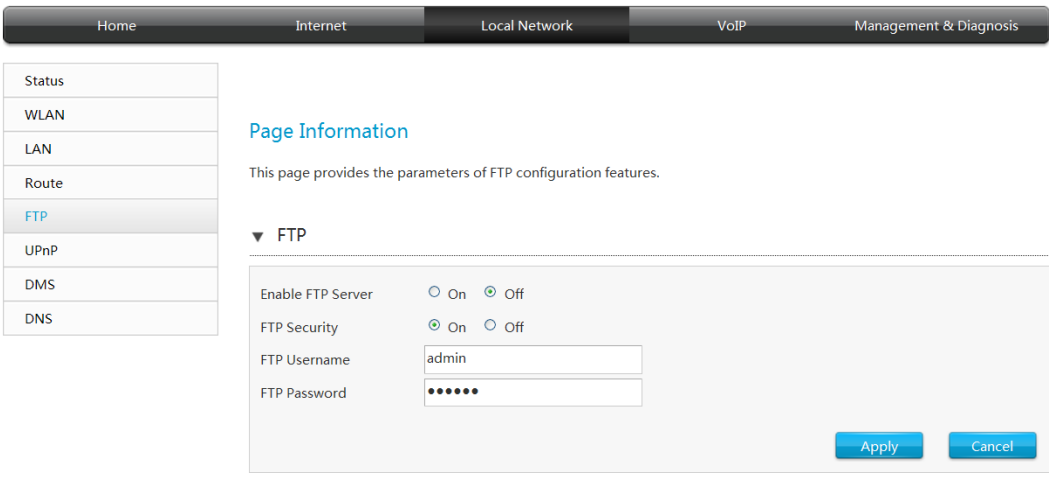
The section describes how to configure FTP.

Steps

1. On the main page of the ZXHN H267N, select **Local Network > FTP** to go to the **FTP** page.

   The page is shown in Figure 4-23.

Figure 4-23 FTP Page



2. Set the parameters. For a description of the parameters, refer to Table 4-15.

Table 4-15 Parameter Descriptions for the FTP

Parameter	Description
Enable FTP Server	Specifies whether to enable the FTP server.
FTP Security	Specifies whether to enable the FTP Sercurity.
FTP Username/ FTP Password	Username/Password of the FTP Server

3. Click **Apply** button to apply the changes.

– End of Steps –

4.6 Configure the UPnP

This page provides the parameters of UPnP configuration features.

Steps

1. On the main page of the ZXHN H267N, select **Local Network > UPnP** to go to the **UPnP** page.

   The page is shown in Figure 4-24.

Figure 4-24 UPnP Page

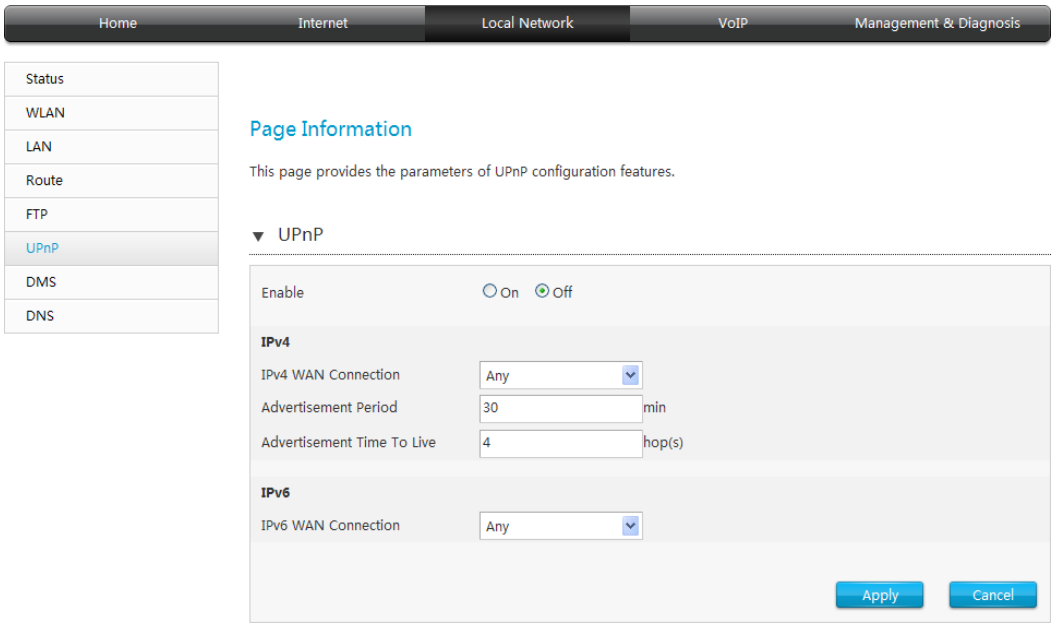


Table 4-16 lists the UPnP parameters.

Table 4-16 Parameter Descriptions for the UPnP

Parameter	Description
IPv4 WAN Connection	IPv4 WAN connection for UPnP.
Advertisement Period	Time period that the UPnP device sends an announcement packet. If the UPnP device does not send any announcement packets during this period, it indicates that the device is invalid. By default, the period is 30 minutes.
Advertisement Time To Live	The time to live for the advertisement. The advertisement will be abandoned after it has been transferred for the specified times by the routers. The default value is 4.
IPv6 WAN Connection	IPv6 WAN connection for UPnP.

2. Click **Apply** button to apply the changes.

– End of Steps –

4.7 Configure the DMS

The section describes how to configure DMS.

Prerequisite

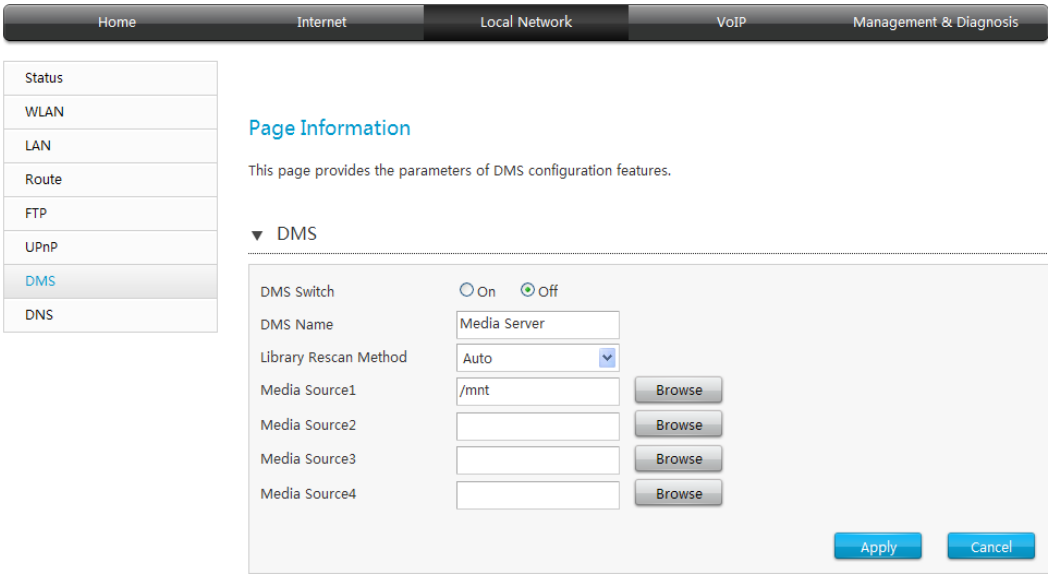
The USB device is connected to the ZXHN H267N device.

Steps

1. On the main page of the ZXHN H267N, select **Local Network > DMS** to go to the **DMS** page.

   The page is shown in Figure 4-25.

Figure 4-25 DMS Configuration Page



2. Set the parameters. For a description of the parameters, refer to Table 4-17.

Table 4-17 Parameter Descriptions for the DMS

Parameter	Description
DMS Switch	Specifies whether to enable the DMS.
DMS Name	To create a DMS, enter the name of the DMS.
Library Rescan Method	Library rescan method that the device supports. Normally, it is set to Auto. ● **Disabled** ● **Auto** ● **Customized**
Media Source1–Media Source4	By default, the media source is `/mnt`, that is the root directory of the USB device. You can change the root directory to other directory of the USB storage device.

3. Click **Apply** button to apply the changes.

– End of Steps –

4.8 Configure the DNS

The section describes how to configure DNS.

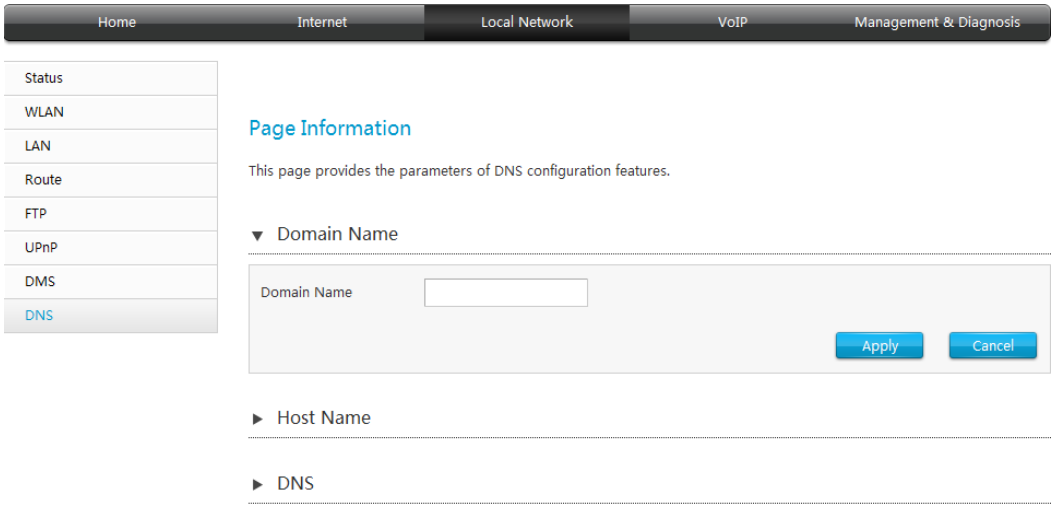
The relevant information of Internet status includes **Domain name**, **Host Name** and **DNS**.

Steps

1. On the main page of the ZXHN H267N, select **Local Network > DNS** to go to the **DNS** page.

   The page is shown in Figure 4-26.

Figure 4-26 DNS Configuration Page



Domain name

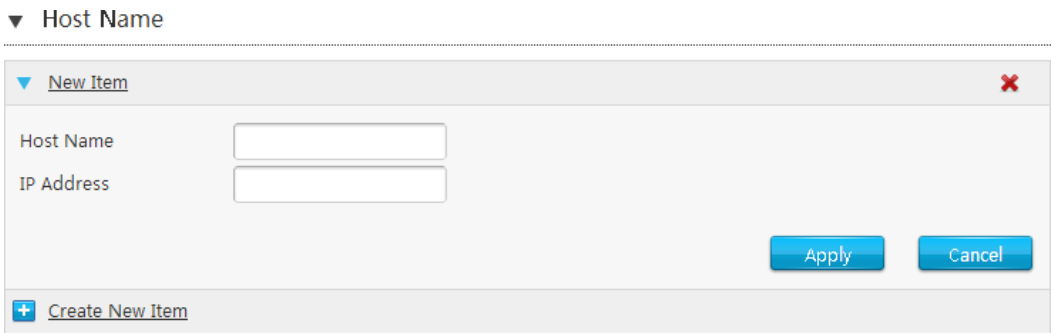
2. Type the **Domain name**.
3. Click **Apply** button to apply the changes.

Host Name

4. Click **Host name**.

   The page is shown in Figure 4-27.

Figure 4-27 Host Name Page



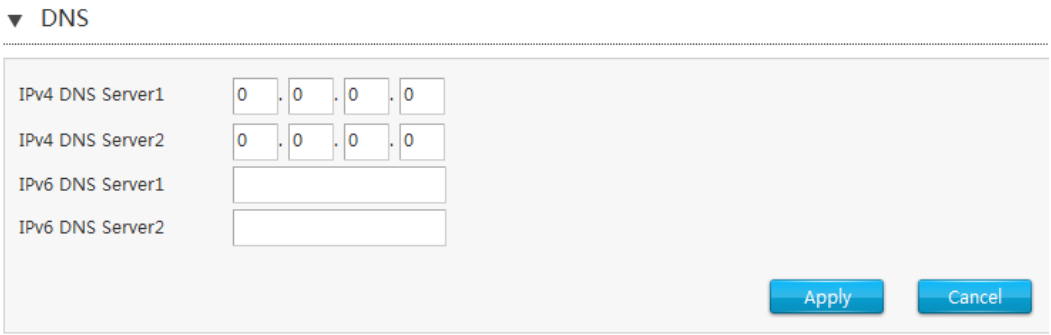
5. Type the host name in the **Host Name** text box and the **IP Address** in the IP Address text box.
6. Click **Apply** button to apply the changes.

DNS Configuration

7. Click **DNS** .

The page is shown in Figure 4-28.

Figure 4-28 DNS Page



8. Type the IP address of the DNS server assigned by the ISP.
9. Click **Apply** button to apply the changes.

– End of Steps –

This page intentionally left blank.

Chapter 5
Configure the VoIP

Table of Contents

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Configure the Advanced Parameters of VoIP.....5-2
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Configure the Fax.....5-5

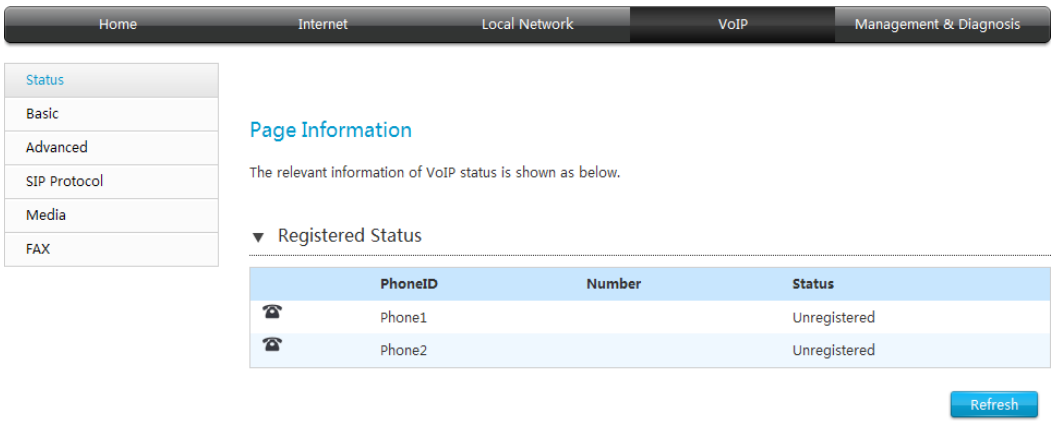
5.1 Check the Status of VoIP

This procedure shows the relevant information of VoIP status.

Steps

1. Select **VoIP > Status**. The **Status** page is displayed, see Figure 5-1.

Figure 5-1 VoIP Status Page



2. Click **Refresh** to refresh the information.

– End of Steps –

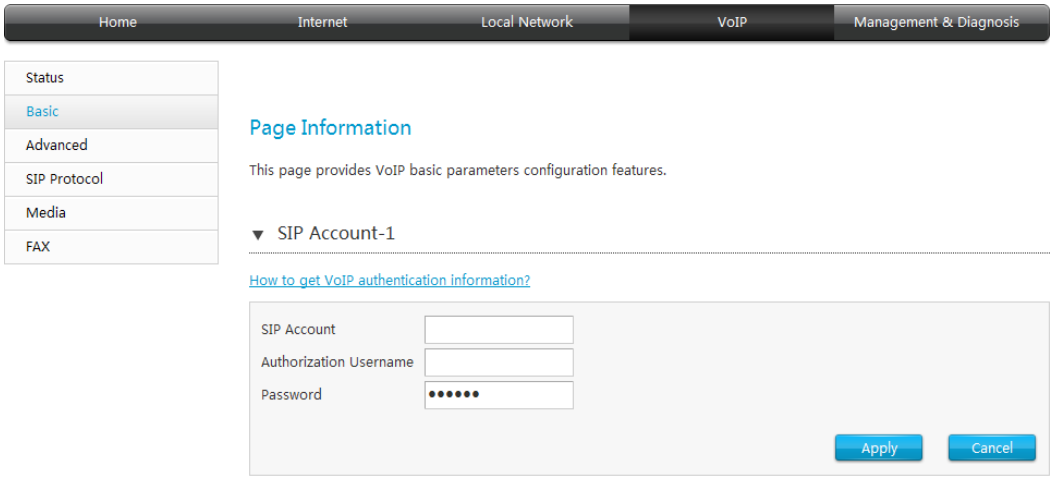
5.2 Configure the SIP Accounts

This procedure describes how to configure basic parameters of the VoIP service, including sip account, authorization username, password.

Steps

1. Select **Application > VoIP > SIP Accounts**. The **SIP Accounts** page is displayed, see Figure 5-2.

Figure 5-2 SIP Accounts Page



2. Set the parameters. For a description of the parameters, refer to .

Table 5-1 Parameter Descriptions for the SIP Accounts

Parameter	Description
SIP Account	Registered name of a SIP subscriber. Normally, it is the phone number of the subscriber.
Password	Password for VoIP service authentication by the SS system, which must be the same as that configured in the SS system.
Authorization Username	Username for authentication by the SS system, which must be the same as that configured in the SS system.

3. Click **Apply**.

– End of Steps –

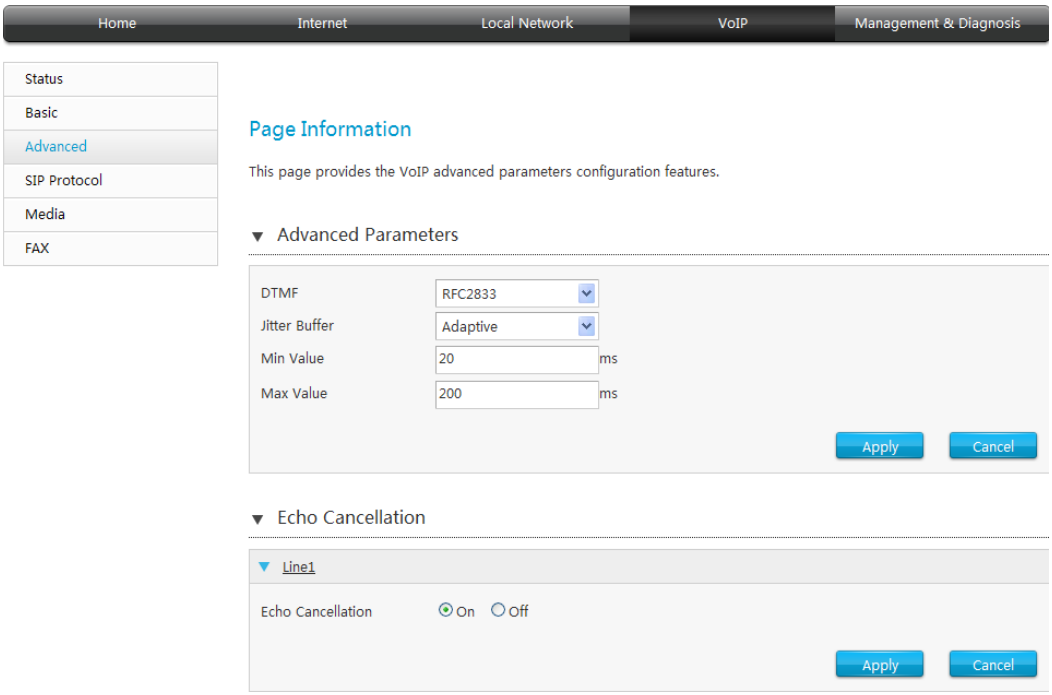
5.3 Configure the Advanced Parameters of VoIP

This procedure describes how to configure advanced parameters of the VoIP service, including echo cancellation, jitter buffer, and DTMF.

Steps

1. Select **VoIP > Advanced**. The **Advanced** page is displayed, see Figure 5-3.

Figure 5-3 Advanced Parameters Page



2. Set the advanced parameters. For a description of the parameters, refer to Table 5-2.

Table 5-2 Advanced Parameter Descriptions for the VoIP Service

Parameter	Description
DTMF	DTMF mode. Options: ● **RFC2833**: DTMF digits are carried by RTP streams. ● **DTMF in Voice**: DTMF digits are not processed. ● **SIP Info**:SIP protocol information.
Jitter Buffer	The variation in packet delay is called jitter. Jitter buffer refers to intentional delay of packets. Options: ● **Fixed**: A fixed buffer time must be specified. ● **Adaptive**: A jitter range must be specified.
Min Value	Minimum value of the jitter range, default: 20 ms.
Max Value	Maximum value of the jitter range, default: 200 ms.
Echo Cancellation	Whether to disable the echo cancellation feature.

3. Click **Apply**.

– End of Steps –

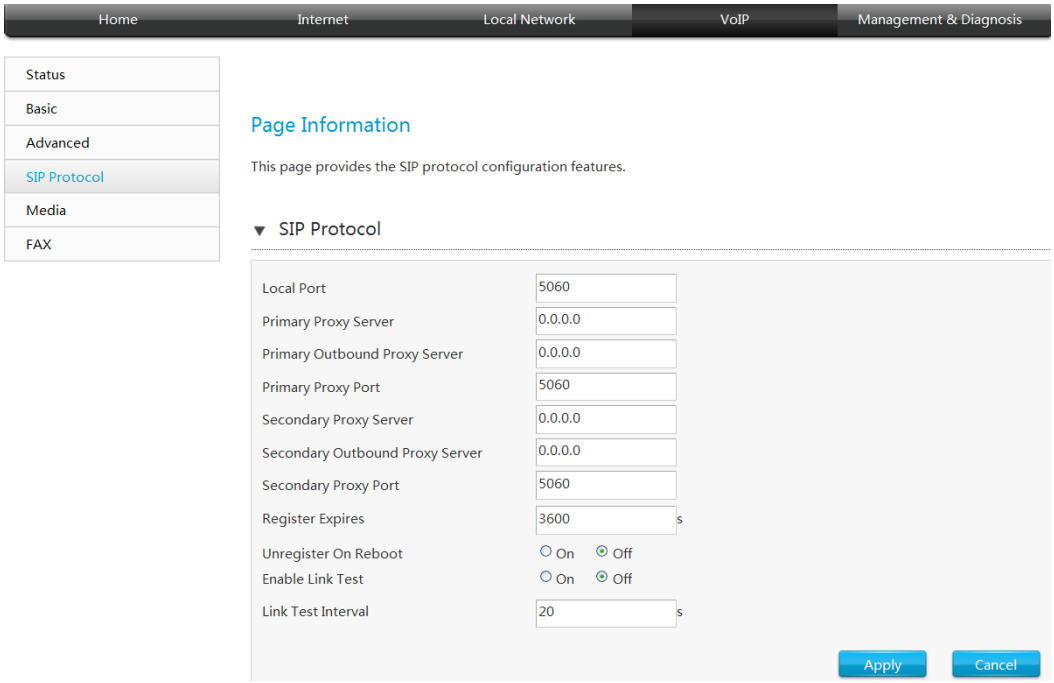
5.4 Configure the SIP Protocol

This procedure describes how to configure the SIP Protocol.

Steps

1. Select **VoIP > SIP Protocol**. The **SIP Protocol** page is displayed, see Figure 5-4.

Figure 5-4 SIP Protocol Page



2. Set the parameters. For a description of the parameters, refer to 。

Table 5-3 Parameter Descriptions for the SIP Protocol

Parameter	Description
Local Port	Local port that the SIP protocol uses, default: 5060.
Primary Proxy Server	IP address of the active SIP proxy server that the ISP provides, which must be the same as that configured on the SIP server.
Primary Outbound Proxy Server	IP address of the active outbound proxy server that the ISP provides, which must be the same as that configured on the SIP server.
Primary Proxy Port	Port number that the ISP provides for communication between the active server and VoIP terminals, which must be the same as that configured on the SIP server, default: 5060.
Secondary Proxy Server	IP address of the standby SIP proxy server that the ISP provides, which must be the same as that configured on the SIP server.
Secondary Outbound Proxy Server	IP address of the standby outbound proxy server that the ISP provides, which must be the same as that configured on the SIP server.
Secondary Proxy Port	Port number that the ISP provides for communication between the standby server and VoIP terminals, which must be the same as that configured on the SIP server, default: 5060.

Parameter	Description
Register Expires	Registered lifecycle, unit: seconds, default: 3600.
Unregister On Reboot	Whether to deregister VoIP terminals after the server is restarted.
Enable Link Test	Whether to enable link tests.
Link Test Interval	Interval of link tests, default: 20 seconds.

3. Click **Apply**.

– End of Steps –

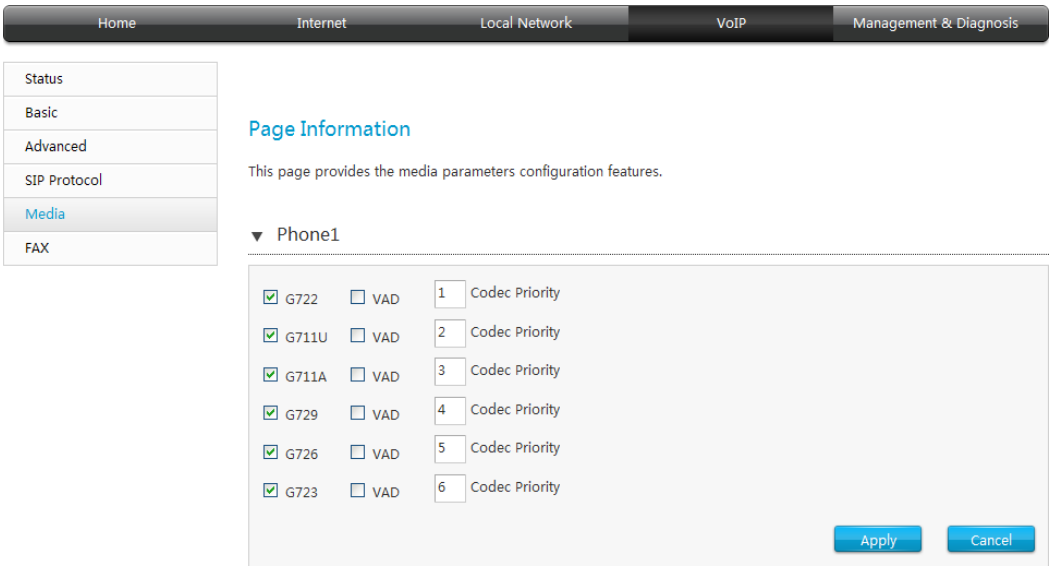
5.5 Configure the Media

This procedure describes how to configure the media codec type.

Steps

1. Select **Application > VoIP > Media**. The **Media** page is displayed, see Figure 5-5.

Figure 5-5 Media Page



2. Select a codec.
3. Click **Apply**.

– End of Steps –

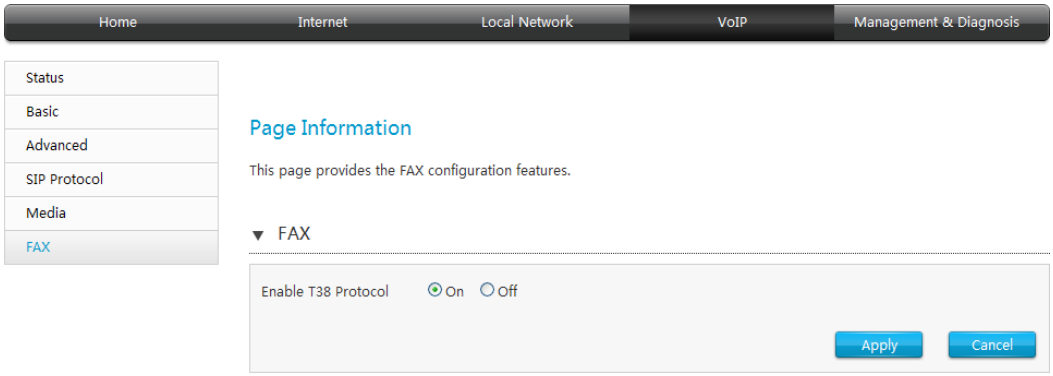
5.6 Configure the Fax

The ZXHN H267N supports the T30 and T38-based fax feature. By default, the T38 protocol is used.

Steps

1. Select **VoIP > Fax**. The **Fax** page is displayed, see Figure 5-6.

Figure 5-6 Fax Page



2. Set the parameters. For a description of the parameters, refer to Table 5-4.

Table 5-4 Parameter Descriptions for the Fax

Parameter	Description
Enable T38 Protocol	Whether to enable the T38 protocol. If this check box is not selected, the T30 protocol is used.

3. Click **Apply**.

– End of Steps –

Chapter 6
Configure the Management and Diagnosis

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Configure the IPv6 Switch 6-16

6.1 Check the Device Status

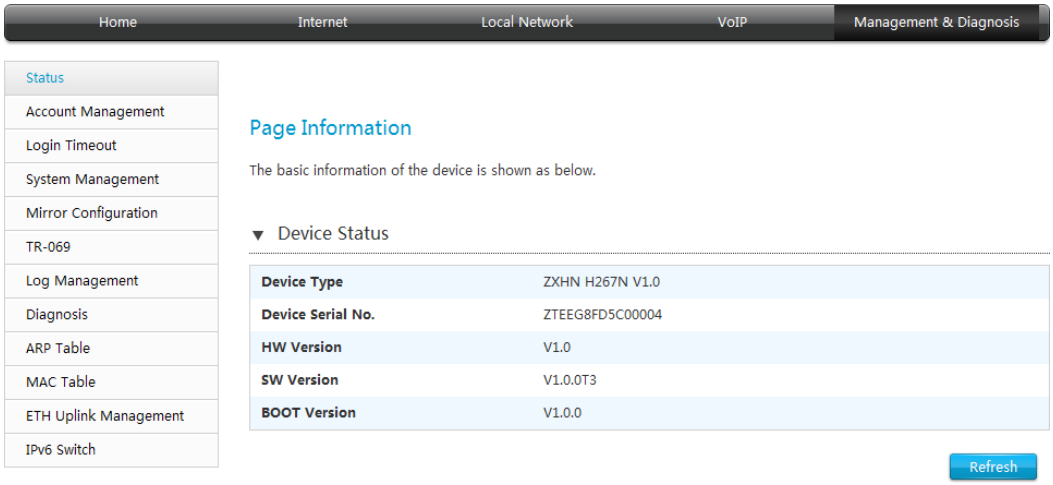
The relevant information of device status is shown as below.

Steps

1. On the main page of the ZXHN H267N, select **Management & Diagnosis > Status** to go to the **Status** page.

   The page is shown in Figure 6-1.

Figure 6-1 Device Status Page



2. Click **Refresh** to refresh the information.

– End of Steps –

6.2 Configure the Account Management

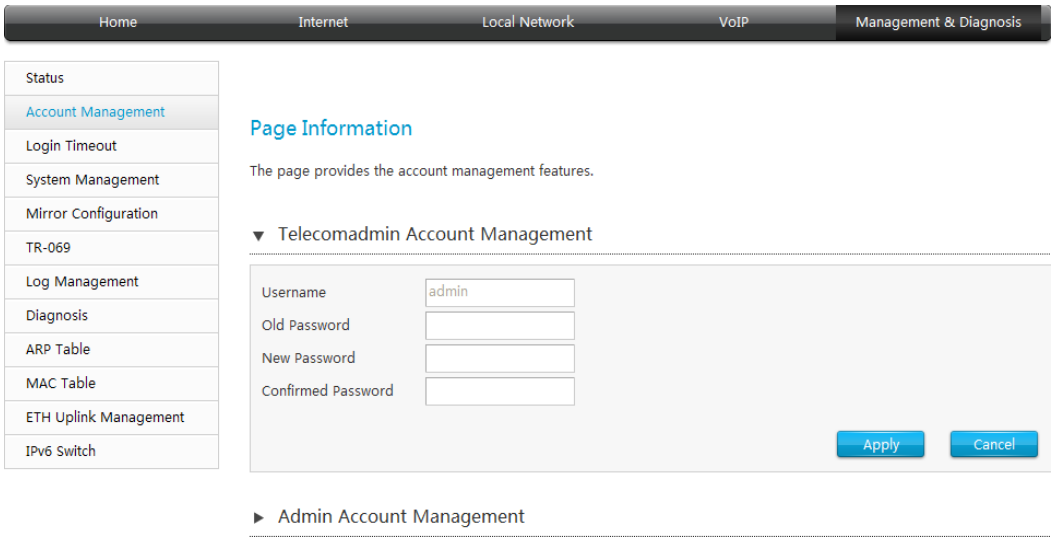
This procedure introduces how to manage the user accounts and rights.

Steps

1. On the main page of the ZXHN H267N, select **Management & Diagnosis > Account Management** to go to the **Account Management** page.

   The page is shown in Figure 6-2.

Figure 6-2 Account Management Page



Telecomadmin Account Management

2. Confgure the Telecomadmin Account Management parameters.

Table 6-1 lists the Telecomadmin Account Management parameters.

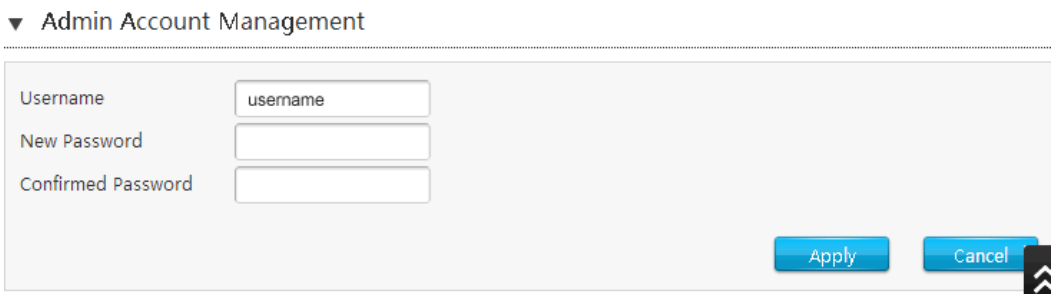
Table 6-1 Parameter Descriptions for the Telecomadmin Account Management

Parameter	Description
Username	The user name for the administrator privilege. The default user name of the administrator privilege is `admin`, which cannot be modified.
Old Password	The default passwords for the Administrator is admin.
New Password	Specify the new password.
Confirmed Password	Confirm the new password.

Admin Account Managenent

3. Click **Admin Account Managenent** to open **Admin Account Managenent** page, as shown in Figure 6-3.

Figure 6-3 Admin Account Management Page



4. Configure the Admin Account Management parameters.

   Table 6-2 lists the Admin Account Management parameters.

Table 6-2 Parameter Descriptions for the Admin Account Management

Parameter	Description
Username	The user name for the user privilege. The default user name of the user privilege is username, which can be modifed.
New Password	Specify the new password.
Confirmed Password	Confirm the new password.

5. Click **Apply** button to apply the changes.

– End of Steps –

6.3 Configure the Login Timeout

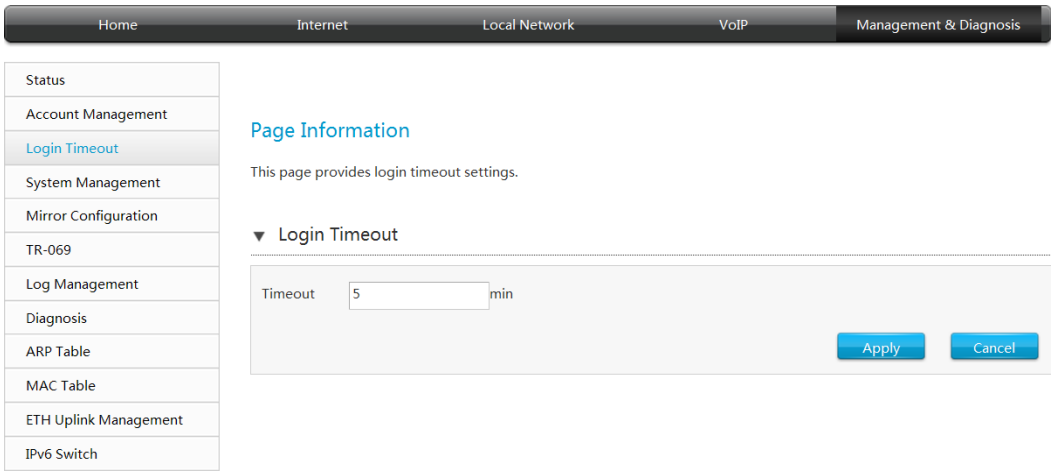
This procedure introduces how to configure the login timeout.

Steps

1. On the main page of the ZXHN H267N, select **Management & Diagnosis > Login Timeout** to go to the **Login Timeout** page.

   The page is shown in Figure 6-4.

Figure 6-4 Login Timeout Configuration Page



2. Specify the time in the **Timeout** text box.
3. Click **Apply** button to apply the changes.

– End of Steps –

6.4 Configure the System Management

6.4.1 Configure the Device Management

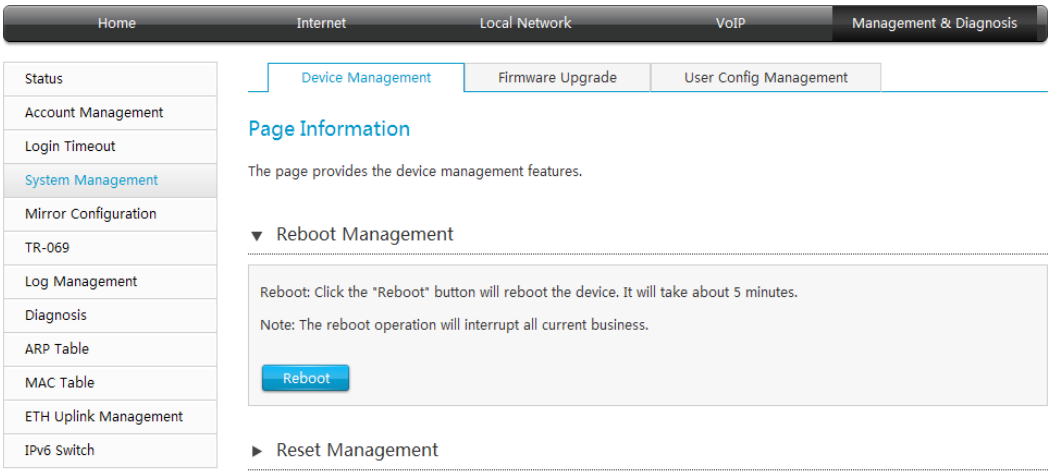
This procedure introduces how to reboot the device or restore the factory default settings.

Steps

1. On the main page of the ZXHN H267N, select **Management & Diagnosis > System Management > Device Management** to go to the **Device Management** page.

   The page is shown in Figure 6-5.

Figure 6-5 Device Management Page



2. On this page, you can perform the following operations:
   - Click **Reboot** to reboot the ZXHN H267N device.
   - Click **Restore the default** to restore the factory default settings.

– End of Steps –

6.4.2 Upgrade Firmware

This procedure introduces how to upgrade Firmware.

Prerequisite

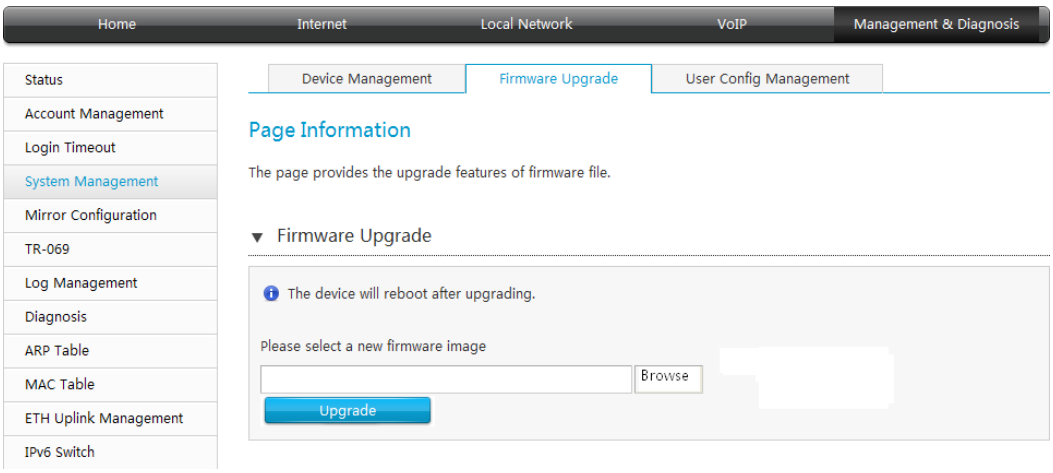
Before upgrading software, make sure that the upgrade file is ready.

Steps

1. On the main page of the ZXHN H267N, select **Management & Diagnosis > System Management > Firmware Upgrade** to go to the **Firmware Upgrade** page.

   The page is shown in Figure 6-6.

Figure 6-6 Firmware Upgrading Page



2. Click **Browse** to select the upgrade version file.
3. Click **Upgrade**.

NOTE **Note:**

The system prompts the upgrade progress. During the upgrade process, do not cut off the power supply. Otherwise, the device may be damaged.

Generally, the software is upgraded by the ZTE CORPORATION engineers. If the user wants to upgrade the Firmware, contact the local office of ZTE CORPORATION to obtain the latest Firmware version.

– End of Steps –

6.4.3 Manage the User Configuration

This procedure introduces how to import or export the user configuration file.

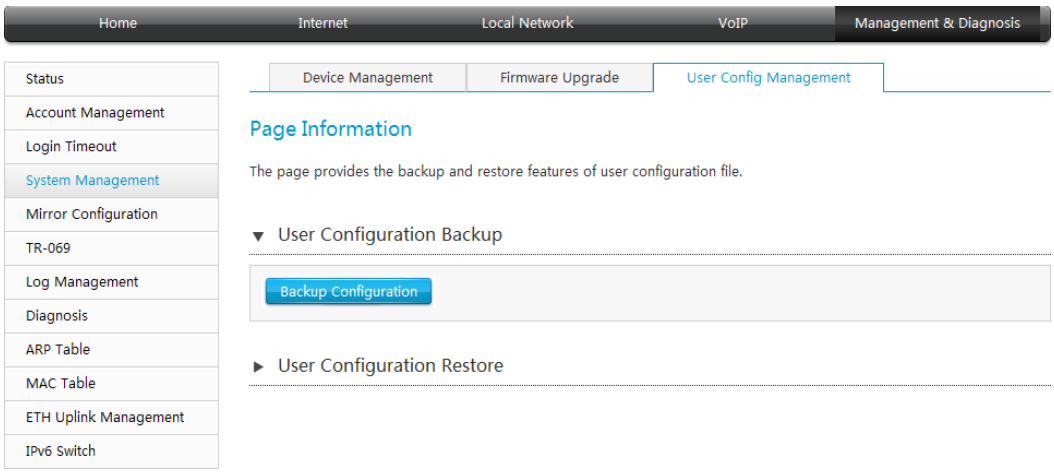
User configuration refers to the customized configuration based on the factory defaults. The user can configure the device settings based on his own requirements, and the configuration can be backed up.

Steps

1. On the main page of the ZXHN H267N, select **Management & Diagnosis > System Management > User Config Management** to go to the **User Config Management** page.

   The page is shown in Figure 6-7.

Figure 6-7 User Configuration Management Page



2. On this page, you can perform the following operations:
   - Click **Backup Configuration** to export the user configuration file.

- Click **Browse** to select the user configuration file, and then click **Restore Configuration** to restore the device to the user configuration.

NOTE **Note:**

After the user configuration file is imported, the system will restart.

– End of Steps –

6.5 Configure the Mirror

This procedure introduces how to perform the mirror configuration.

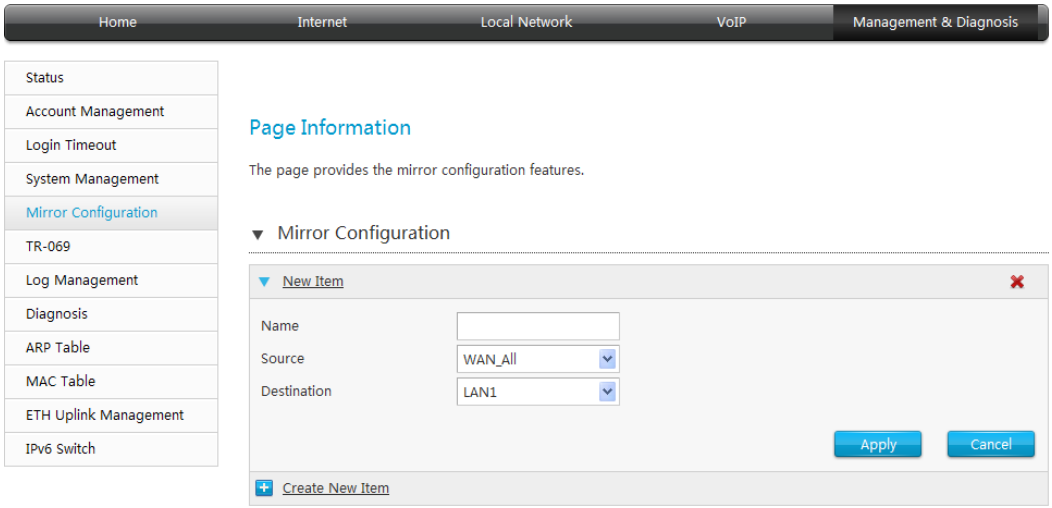
If the mirror configuration is performed, the packets at the WAN side will be copied to the specified LAN interface, and it can be used for the network analysis and troubleshooting.

Steps

1. On the main page of the ZXHN H267N, select **Management & Diagnosis > Mirror Configuration** to go to the **Mirror Configuration** page.

   The page is shown in Figure 6-8.

Figure 6-8 Mirror Configuration Page



2. Configure the mirror parameters.

   Table 6-3 lists the Mirror Configuration parameters.

Table 6-3 Parameter Descriptions for the Mirror Configuration

Parameter	Description
Name	The name of the Mirror Configuration.

Parameter	Description
Source	Network-side WAN interface.
Destination	User-side LAN interface.

3. Click **Apply** button to apply the changes.

– End of Steps –

6.6 Configure the TR-069

The section describes how to configure the TR-069. **TR-069** provides the parameters of the TR-069 configuration features.

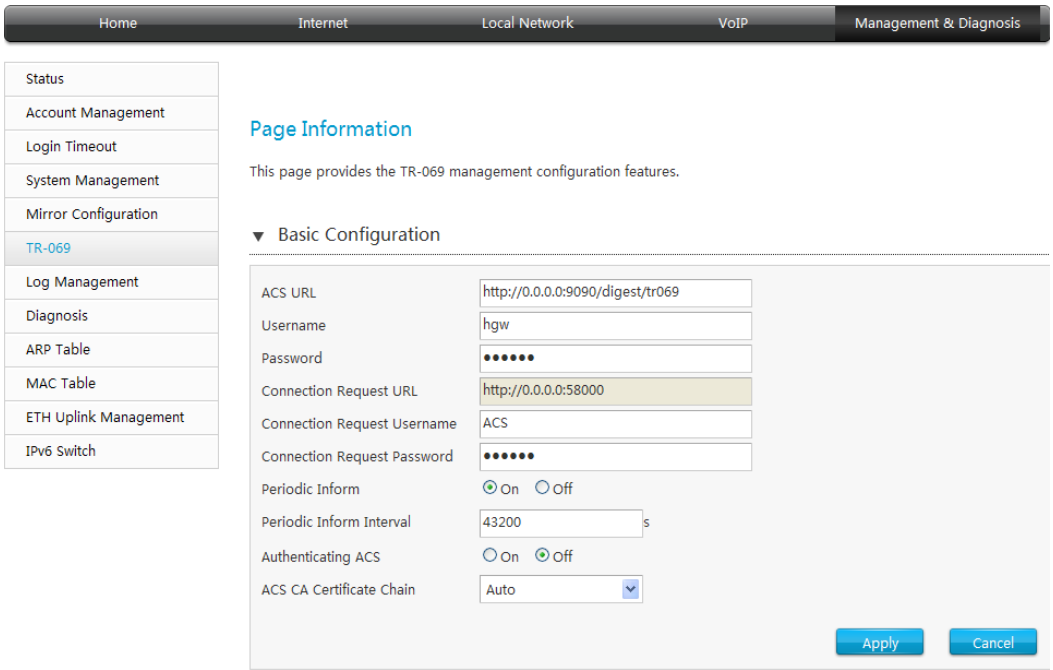
The relevant **TR-069** includes **Basic Configuration** and **Certificate Management**.

Steps

1. On the main page of the ZXHN H267N, select **Management & Diagnosis > TR-069** to go to the **TR-069** page.

   The page is shown in Figure 6-9.

Figure 6-9 TR-069 Configuration Page



Basic Configuration

2. Configure the basic TR-069 parameters.

   Table 6-4 lists the TR-069 basic parameters.

Table 6-4 Parameter Descriptions for the TR-069

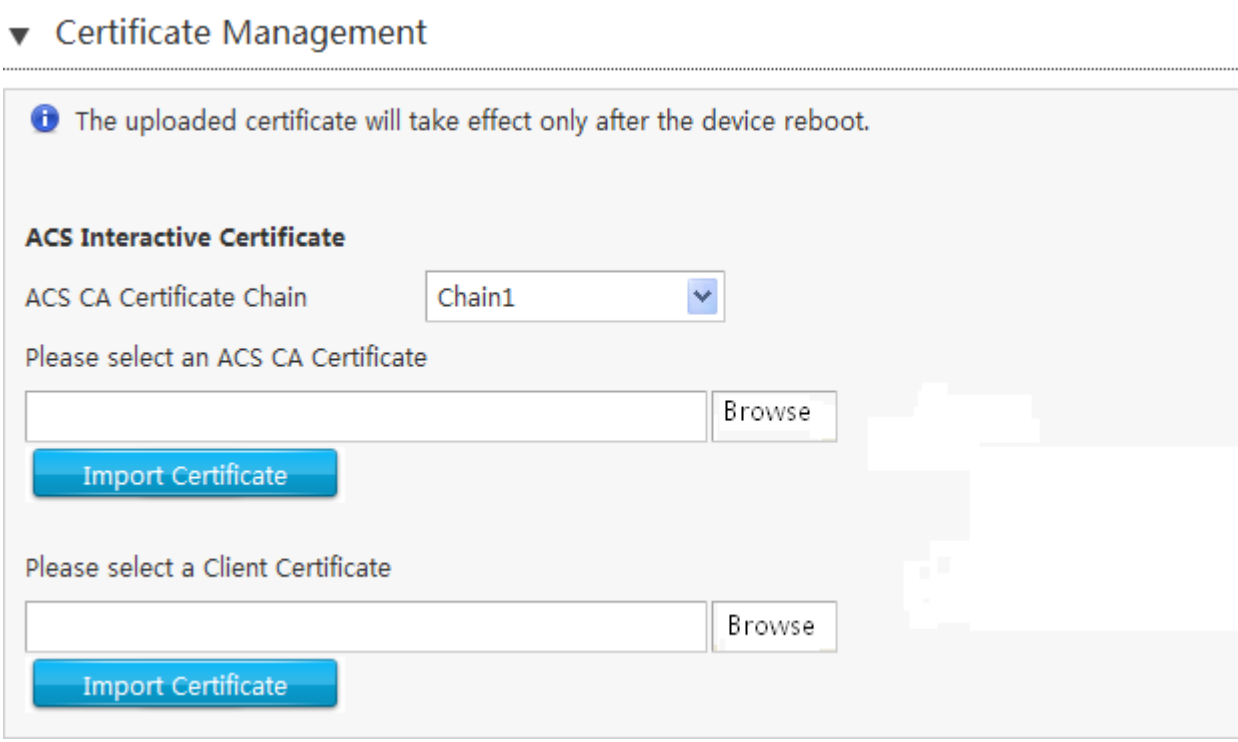
Parameter	Description
ACS URL	The URL of the automatic configuration server that manages the device.
Username/Password	User name and password for the ZXHN H267N device to log in to the automatic configuration server.
Connection Request URL	Connection request URL, which is automatically generated by the system.
Connection Request User-name/Connection Request Pass-word	User name and password for the TR-069 connection authentication that the automatic configuration server provides when it logs in to the ZXHN H267N device.
Periodic Inform	Enable the periodic inform function.
Periodic Inform Interval	Periodic inform interval of the device (unit: second).
Authenticating ACS	Enable the TR-069 authenticating ACS.
ACS CA Certificate Chain	• Auto: Automatically select the first chain certifcate authentication or the second chain certificate authentication • Chain1: The first chain certifcate authentication • Chain2: The second chain certifcate authentication

3. Click **Apply** button to apply the changes.

Certificate Management

4. Click **Certificate Management** to open **Certificate Management** page, as shown in Figure 6-10.

Figure 6-10 Certificate Management



5. Click **Browse** to select the certificate file.

NOTE **Note:**

The CA certificate is provided by the ISP to the terminal user. It is imported from the local.

---

6. Click **Import Certificate**.

– End of Steps –

6.7 Manage the Log

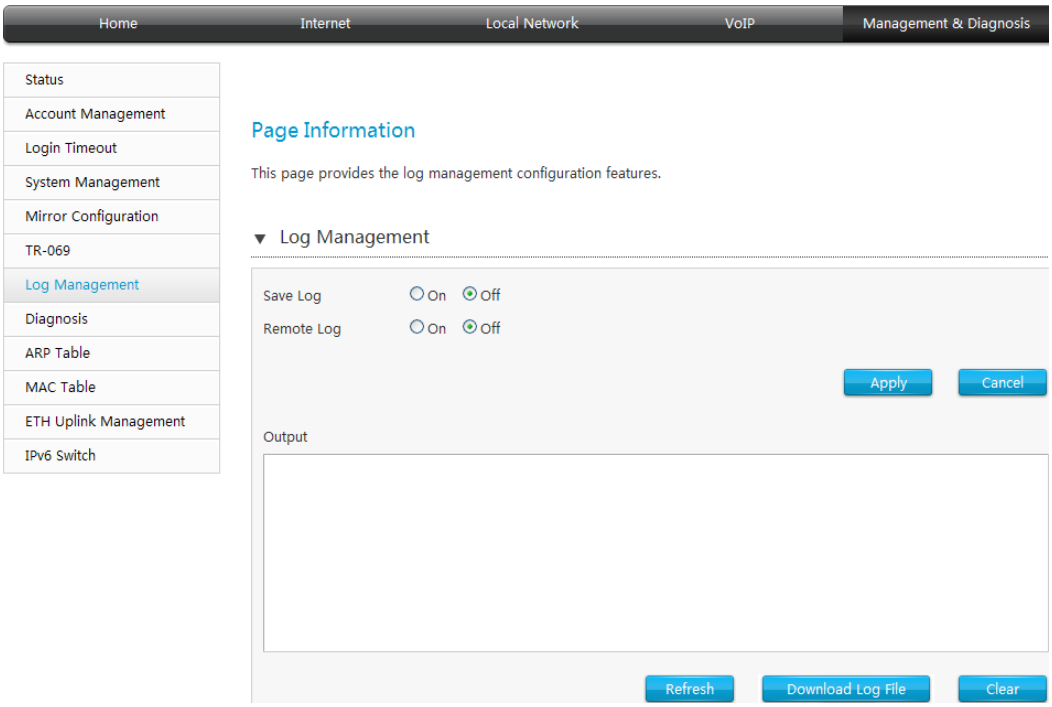
This procedure introduces how to manage the log.

Steps

1. On the main page of the ZXHN H267N, select **Management & Diagnosis > Log Management** to go to the **Log Management** page.

   The page is shown in Figure 6-11.

Figure 6-11 Log Management Page



2. Configure the log management parameters.

   Table 6-5 lists the Log Management parameters.

Table 6-5 Parameter Descriptions for the Log Management

Parameter	Description
Save Log	Select this option to save logs.
Remote Log	Select this option, and the device regularly sends the log to the log server.

3. Click **Apply** button to apply the changes.
4. (Optional) Click **Cancel** button to exit without saving.
5. (Optional) Click **Clear** to clear the logs.
6. (Optional) Click **Download Log File** to download the log file from the log server.

– End of Steps –

6.8 Diagnosis

The section describes how to diagnosis. **Diagnosis** provides the parameters of the Diagnosis configuration features.

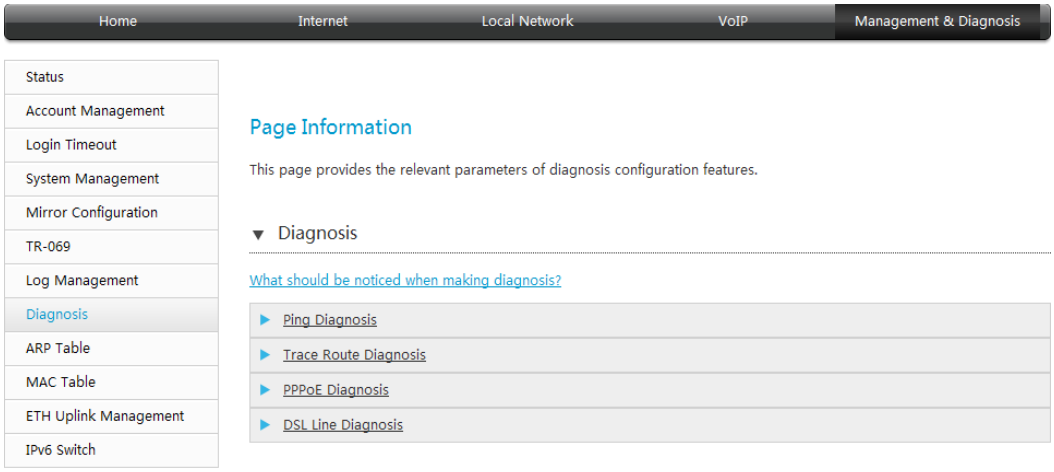
The relevant information includes **Ping Diagnosis**, **Trace Route Diagnosis**, **PPPoE Diagnosis** and **DSL Line Diagnosis**.

Steps

1. On the main page of the ZXHN H267N, select **Management & Diagnosis > Diagnosis** to go to the **Diagnosis** page.

   The page is shown in Figure 6-12.

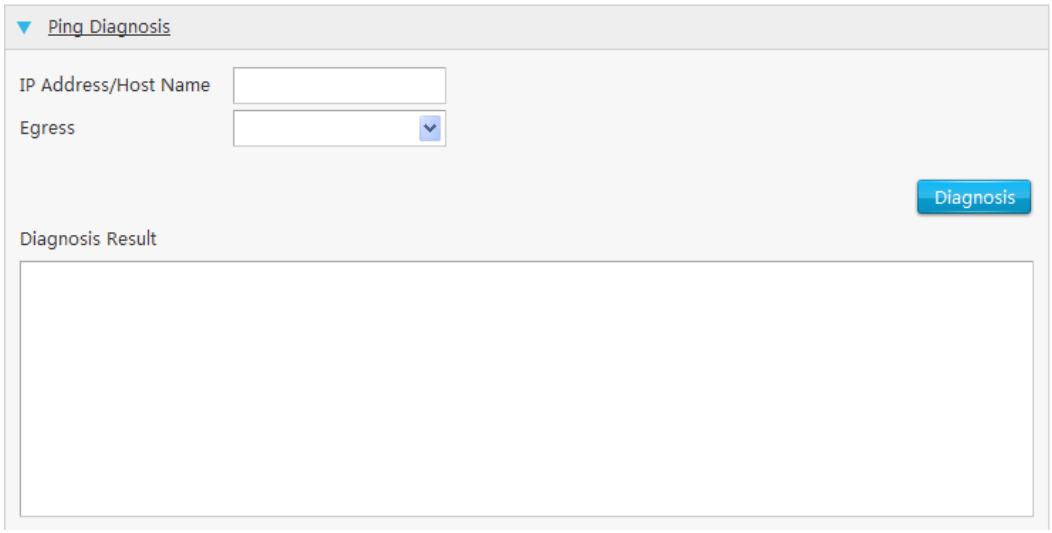
Figure 6-12 Diagnosis Configuration Page



Ping Diagnosis

2. Click **Ping Diagnosis** to open **Ping Diagnosis** page, as shown in Figure 6-13.

Figure 6-13 Ping Diagnosis Page



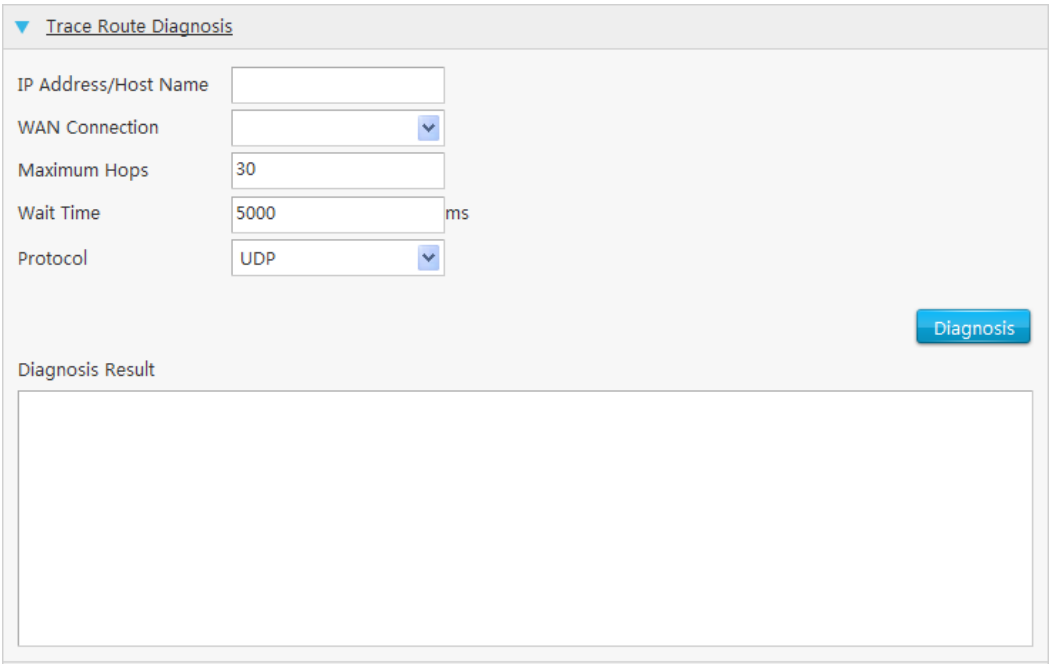
3. Type the host IP address or host name in the **IP Address/Host Name** text box, select the WAN/LAN connection from the **Egress** drop-down list.
4. Click **Diagnosis** to diagnose the connection, and the system will display the following diagnosis results.

Trace Route Diagnosis

5. Click **Trace Route Diagnosis**.

The page is shown in Figure 6-14.

Figure 6-14 Trace Route Diagnosis Page



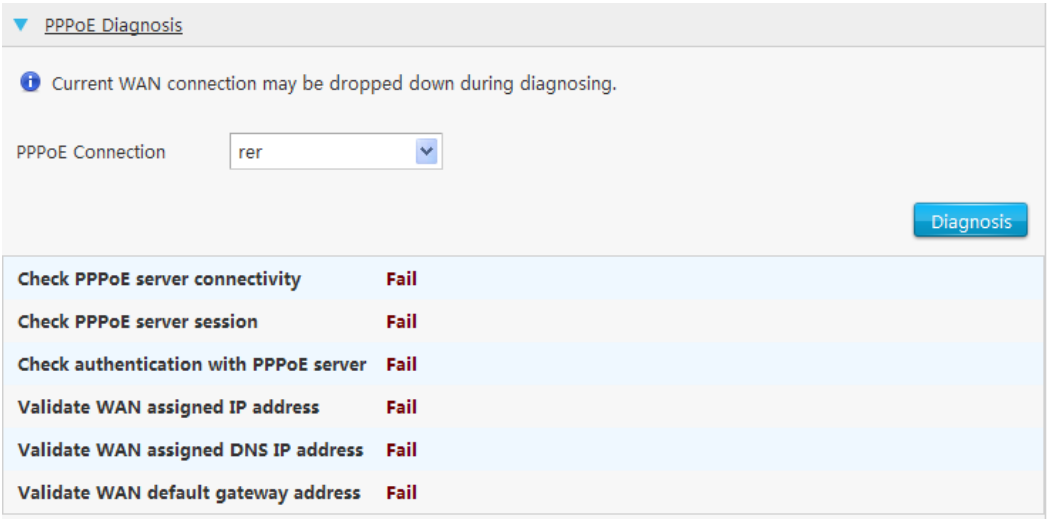
6. Type the IP address or host name in the **IP Address/Host Name** text box, select one **WAN connection**, specify the **Maximum Hops**, **Wait time**, and **Protocol**.
7. After the configuration, click **Diagnosis**.

PPPoE Diagnosis

8. Click **PPPoE Diagnosis**.

   The page is shown in Figure 6-15.

Figure 6-15 PPPoE Diagnosis Page



9. Select one **PPPoE connection**.

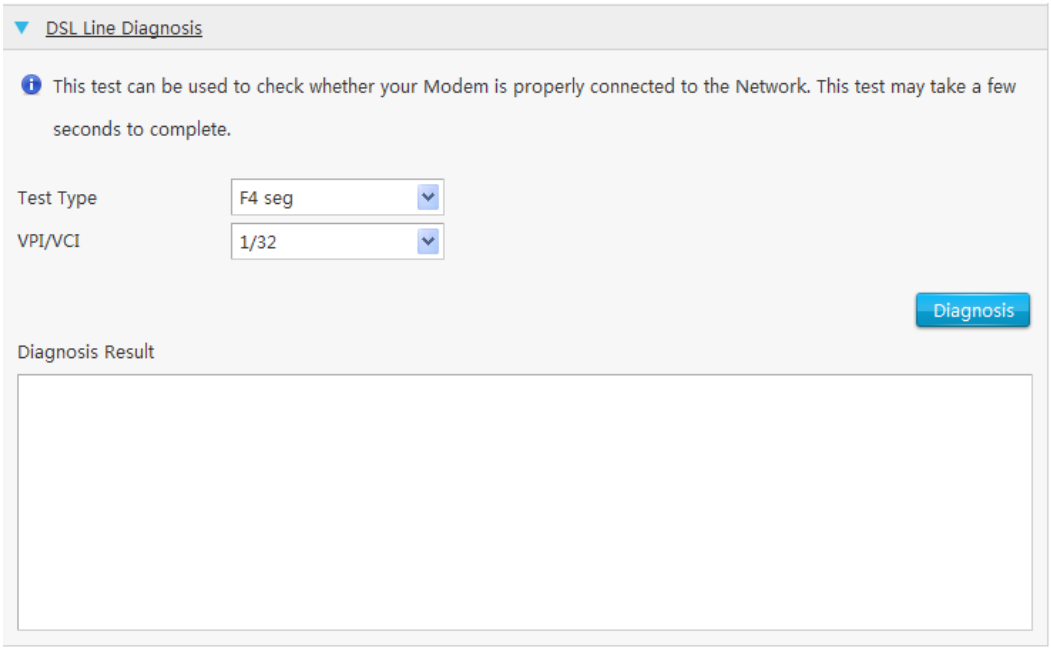
10. Click **Diagnosis** to check the PPPoE link.

DSL Line Diagnosis

11. Click **DSL Line Diagnosis**.

    The page is shown in Figure 6-16.

Figure 6-16 DSL Line Diagnosis Page



12. Select the **Test Type** and **VPI/VCI**.
13. Click **Diagnosis** to diagnose the connection.

    – End of Steps –

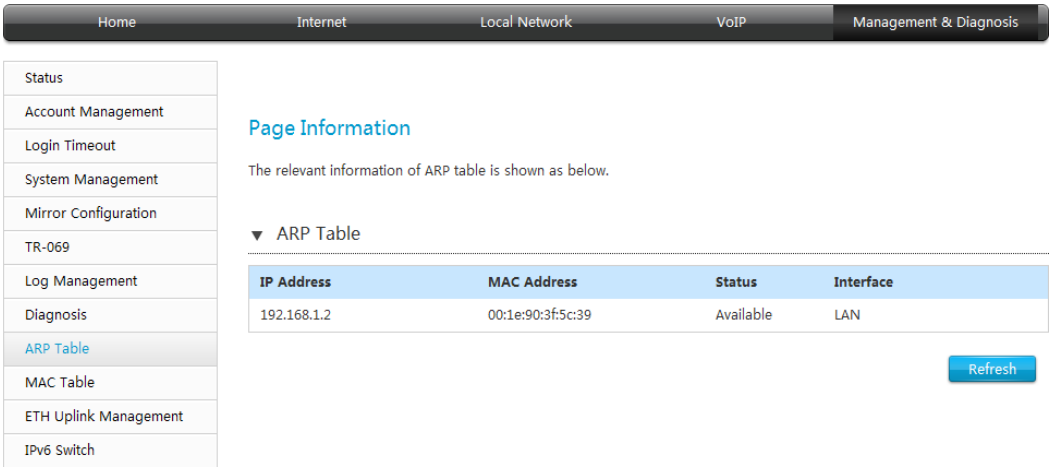
6.9 Check the ARP Table

The relevant information of ARP table is shown as below.

Steps

1. On the main page of the ZXHN H267N, select **Management & Diagnosis > ARP Table** to go to the **ARP Table** page, as shown in Figure 6-17.

Figure 6-17 ARP Table Page



2. Click **Refresh** button to refresh information.

– End of Steps –

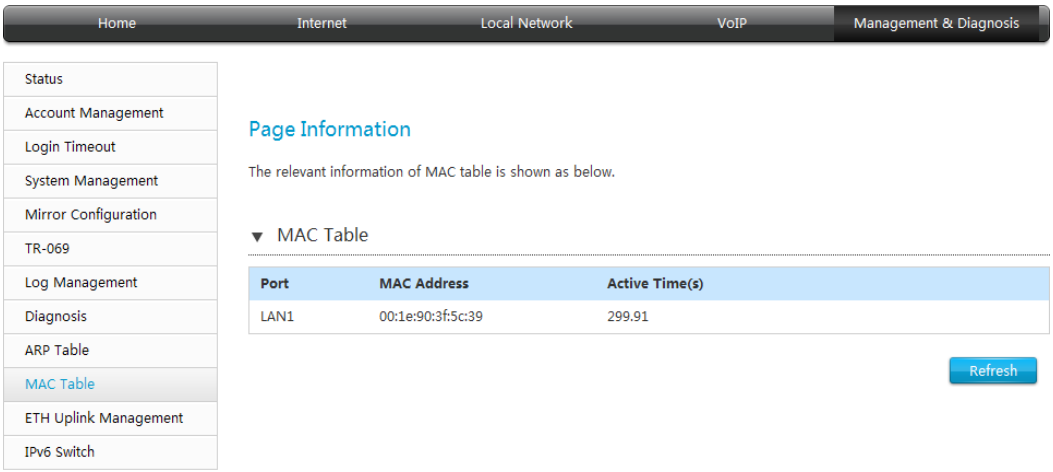
6.10 Check the MAC Table

The relevant information of MAC table is shown as below.

Steps

1. On the main page of the ZXHN H267N, select **Management & Diagnosis > MAC Table** to go to the **MAC Table** page, as shown in Figure 6-18.

Figure 6-18 MAC Table Page



2. Click **Refresh** button to refresh information.

– End of Steps –

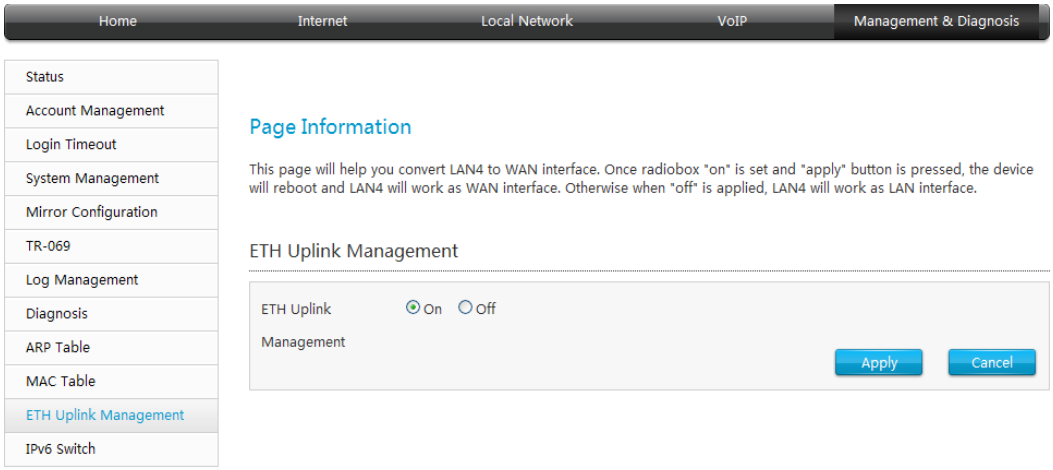
6.11 Configure the ETH Uplink Management

This page will help you convert LAN to WAN interface.

Steps

1. On the main page of the ZXHN H267N, select **Management & Diagnosis > ETH Uplink Management** to go to the **ETH Uplink Management** page, as shown in Figure 6-19.

Figure 6-19 ETH Uplink Management Page



2. Once radio button**On** is set and **Apply** button is pressed, the device will reboot and will work as WAN interface. Otherwise, when **Off** is applied, the device will work as LAN interface.
3. Click **Apply** button to apply the changes.

– End of Steps –

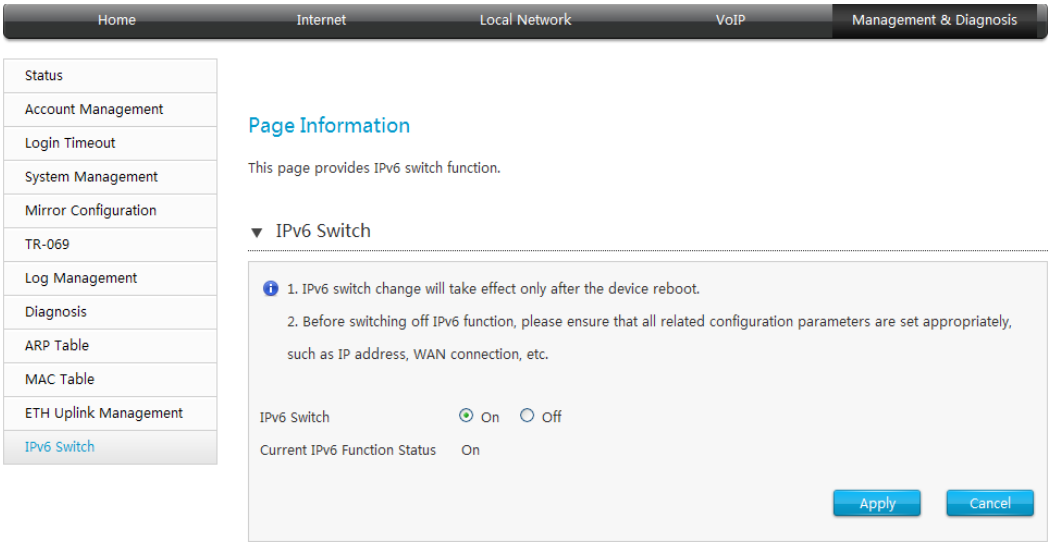
6.12 Configure the IPv6 Switch

This page provides IPv6 switch function.

Steps

1. On the main page of the ZXHN H267N, select **Management & Diagnosis > IPv6 Switch** to go to the **IPv6 Switch** page, as shown in Figure 6-20.

Figure 6-20 IPv6 Switch Page



2. Select enable **IPv6 Switch** function.
3. Click **Apply** button to apply the changes.

– End of Steps –

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