Speedport Entry 2i

Home Gateway

Maintenance Management Guide

Version: R2.0

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GROUP OF COMPANIES

LEGAL INFORMATION

Revision History

Revision No.	Revision Date	Revision Reason
R1.0	2015-07-24	First edition
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Contents

Safety Precautions

 Warning!

Before using the device, read the following safety precautions. OTE GROUP OF COMPANIES 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 the power supply adapter.
- 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.
- 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 the power cable and the 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 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 or visit the technical support website in the following link http://www.cosmote.gr/fixed/help-and-support/internet/-/support/category/866732.

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. Indicators

Figure 1-1 shows the indicators on the front panel of the Speedport Entry 2i.

Figure 1-1 Indicators of the Speedport Entry 2i

Table 1-1 describes the indicators on the front panel of the Speedport Entry 2i.

Table 1-1 Indicators on the Front Panel

Indicator	Color	Status	Description
Power	—	Off	Speedport Entry 2i is powered off.
	White	On	Speedport Entry 2i is powered on.
WLAN	—	Off	Speedport Entry 2i is not powered on or the wireless interface is Disabled.
	White	On	The wireless interface is enabled.
Telephony	—	Off	No SIP account is registered.
	White	On	At least one SIP account is registered.
DSL	—	Off	The device is powered off or the line has no signal.
	White	Flashing 2Hz	The DSL connection tries synchronization and training.
		On	The DSL connection is in synchronization state.
Online	—	Off	No internet services.
	White	On	The internet services are running.

Indicator	Color	Status	Description
Service	—	Off	No upgrade.
	Orange	On	The software upgrade is in progress.
WPS	—	Off	The WPS button is not pressed, or the connection times out.
	White	Flashing 2Hz	The WPS button is pressed. If no wireless client is connected successfully, the light flashes for about 2 minutes.
		On	If the wireless client is connected successfully , the light goes on for about 5 minutes.

1.2. Interfaces and Buttons

Figure 1-2 shows the interfaces and buttons on the front panel of the Speedport Entry 2i.

Figure 1-2 Buttons on the Front Panel

Table 1-2 describes the interfaces and buttons on the front panel of the Speedport Entry 2i.

Table 1-2 Descriptions of the Buttons on the Front Panel

Button	Description
WLAN	Press the button for more than 0.5 seconds in power-On state. Then, the wireless client can connect to Speedport Entry 2i.
WPS	Press the button for more than 0.5 seconds in power-On state to enable the function.

Figure 1-3 shows the interfaces and buttons on the back panel of the Speedport Entry 2i.

Figure 1-3 Interfaces and Buttons on the Back Panel

Table 1-3 describes the interfaces and buttons on the back panel of the Speedport Entry 2i.

Table 1-3 Descriptions of the Interfaces and Buttons on the Back Panel

Interface/Button	Description
DSL	RJ-11 DSL port.
Phone1–Phone2	RJ-11 port, connected to the phone through a telephone cable.
LAN1– LAN4	RJ-45 port, 10/100 Mbps auto MDI/MDIX, used to connect to a PC or other network device.
Reset	Reset button, used to restore the factory default settings when pressed for more than 2 seconds in power-ON state.
Power	Power jacket, DC 12 V.

1.3. Hardware Connection

In the following paragraphs, 3 different topologies are described for the connection of Speedport Entry 2i with a telephone line.
Before you start any connections, pick the telephone plug where you would like to install your equipment.

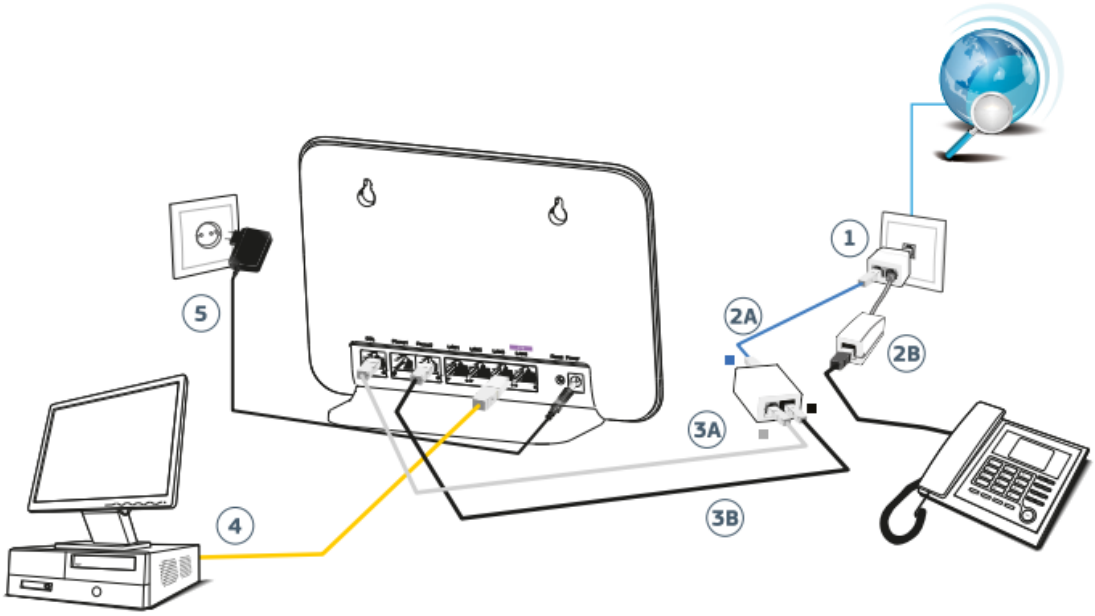
1.3.1. PSTN line or Broadband Telephone Line with one voice channel

If you have a PSTN line (analog telephone line) or a broadband telephone line, connect Speedport Entry 2i as it is shown in Figure 1-4 below.

Among the components that are contained in the packing box, you may find an additional RJ-11, 1 to 2 'Y' adapter (see point 1 in Figure 1-4). The names of the other components are referred in page 4 of the manual "Equipment Installation Guidelines" which can be accessed in the following Internet address:

https://www.cosmote.gr/fixed/documents/10280/87751345/quick_speedport_entry2i_16_02_15.pdf

Figure 1-4 Connection of the Speedport Entry 2i to a PSTN or a broadband telephone line.



1. Connect the telephone adapter (RJ-11, 1 to 2 'Y' adapter) to the telephone outlet.
2. **A.** Connect one side of the **blue** telephone cable to one of the ports of the RJ-11 'Y' adapter and the other side to the **blue** port of the splitter with the indication **"LINE".**

   B. Following, connect the cable of the telephone set with the other port of the RJ-11 'Y' adapter by placing a **filter** in between.
3. **A.** Connect one side of the **gray** telephone cable to the gray port of the splitter with the indication **"MODEM"** and the other side to the gray port of the Speedport Entry 2i with the indication **"DSL"**.

   B. Following, connect one side of the **black** telephone cable to the black port of the splitter with the indication **"Phone"** and the other side of the cable to the black port of the Speedport Entry 2i with the indication **"Phone 2"**.
4. Use the **yellow** ETHERNET cable to connect the ETHERNET port of your computer to one of the first yellow ports of the Speedport Entry 2i with the indications **LAN1**, **LAN2** or **LAN3**.

   The port with the **purple** indication (**STB**) is used exclusively for the connection of the codec which is required for the OTE TV service.
5. Connect the power supply adapter to the POWER jacket of Speedport Entry 2i and following, connect it to the power plug. The LEDs for Power, DSL, Online, Telephony, Service and WLAN will flash instantly.

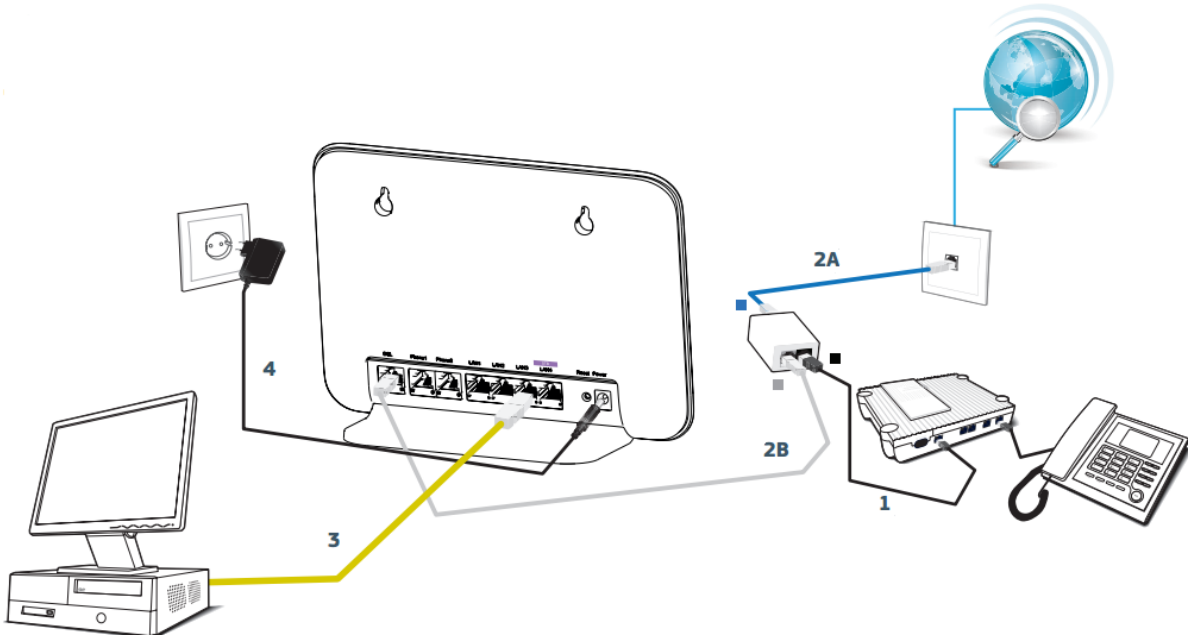
   After the conversion of your analog telephone line to a broadband telephone line, you may connect an additional telephone set (e.g. telephone, fax) to the black port of Speedport Entry 2i with the indication **"Phone 1**", without using a filter.
6. To connect additional telephone sets to other telephone plugs, you must insert a filter. Connect the telephone set to the filter and the filter to the telephone plug. Only one filter is contained in the packing box. In case you need more filters, you will have to purchase them from a telecommunications equipment shop.

   Note: If your telephone network is connected to a device such as an alarm, private telephone switch (PBX) etc., you will have to use an extra filter or splitter. You are kindly requested to ask for help from a specialized installation team.

1.3.2. ISDN line

If you have an ISDN line, connect your Speedport Entry 2i, as it is shown in the following Figure 1-5.

Figure 1-5 Connection of Speedport Entry 2i to an ISDN line



1. Disconnect the cable that connects the ISDN (NT1) device to the telephone plug and connect it to the black port of the splitter.

2. **A.** Use the **blue** cable to connect the **blue** port of the splitter with the indication **"LINE"** to the telephone plug.

   B. Following, using the **gray** cable, connect the **gray** port of the splitter with the indication **"MODEM"** to the gray port of Speedport Entry 2i with the indication **"DSL"**.

3. Use the **yellow** ETHERNET cable to connect the ETHERNET port of your computer to one of the first yellow ports of the Speedport Entry 2i with the indications **LAN1**, **LAN2** or **LAN3**.

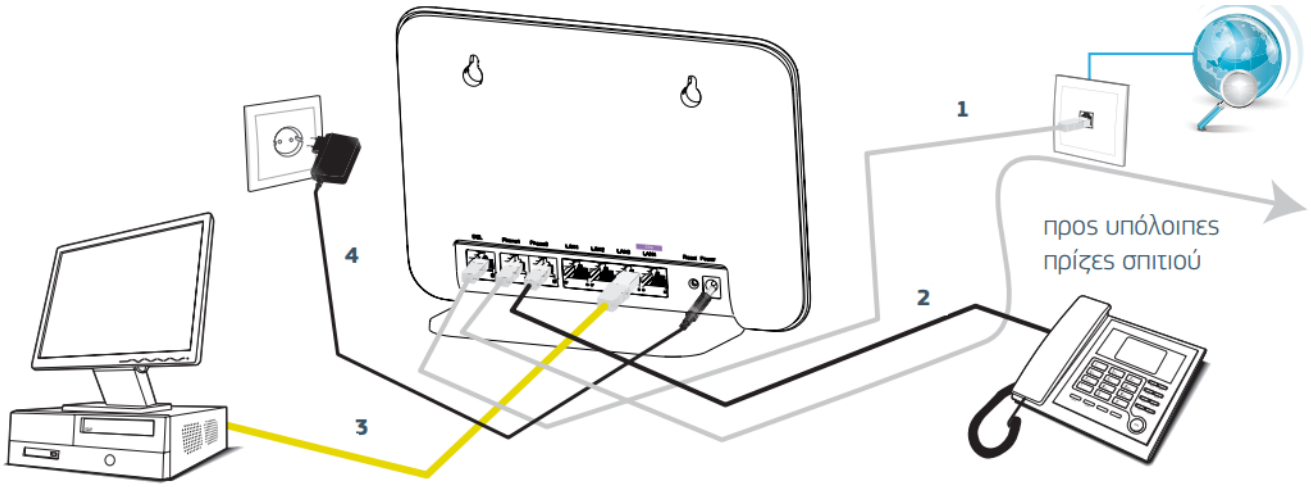
   The port with the **purple** indication (**STB**) is used exclusively for the connection of the codec which is required for the OTE TV service.

4. Connect the power supply adapter to the POWER jacket of Speedport Entry 2i and following, connect it to the power plug. The LEDs for Power, DSL, Online, Telephony, Service and WLAN will flash instantly.

1.3.3. Broadband telephone line – with the intervention of an electrician to the internal (home) wiring (e.g. for an existing ISDN cabling installation)

If you have a broadband telephone line and you already have a cabling installation from the main telephone plug to the other plugs of your premises for telephony services only (e.g. from a previous installation of an NT1 to an ISDN line), connect Speedport Entry 2i as it is shown in Figure 1-6 below (the splitter and the NT1 are not required anymore).

Figure 1-6 Connection of the Speedport Entry 2i to the internal wiring with the intervention of an electrician.



In case you have a telephone set connected to a telephone plug, you must disconnect it.

1. Use the **gray** cable to connect the gray port of Speedport Entry 2i with the indication **"DSL"** to the telephone plug.
2. You may connect your telephone sets either to the port **"Phone 1"**, or **"Phone 2"** of your Speedport Entry 2i.
3. Use the **yellow** ETHERNET cable to connect the ETHERNET port of your computer to one of the first yellow ports of the Speedport Entry 2i with the indications **LAN1**, **LAN2** or **LAN3**.

   The port with the **purple** indication (**STB**) is used exclusively for the connection of the codec which is required for the OTE TV service.
4. Connect the power supply adapter to the POWER jacket of Speedport Entry 2i and following, connect it to the power plug. The LEDs for Power, DSL, Online, Telephony, Service and WLAN will flash instantly.

You may connect other telephone sets to other plugs, directly (without a filter).

Chapter 2. Configuration Preparation

This manual uses the Windows operating system as an example for describing how to configure the Speedport Entry 2i. Before configuring the Speedport Entry 2i, 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 (Manual Operation)

To log in to the Speedport Entry 2i 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 Speedport Entry 2i are in the same network segment. By default, the LAN/Wi-Fi device gets the network information automatically (DHCP).

Context

The default maintenance IP address of the Speedport Entry 2i 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 Speedport Entry 2i.
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 Speedport Entry 2i.

2.2. Login

The Speedport Entry 2i 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.

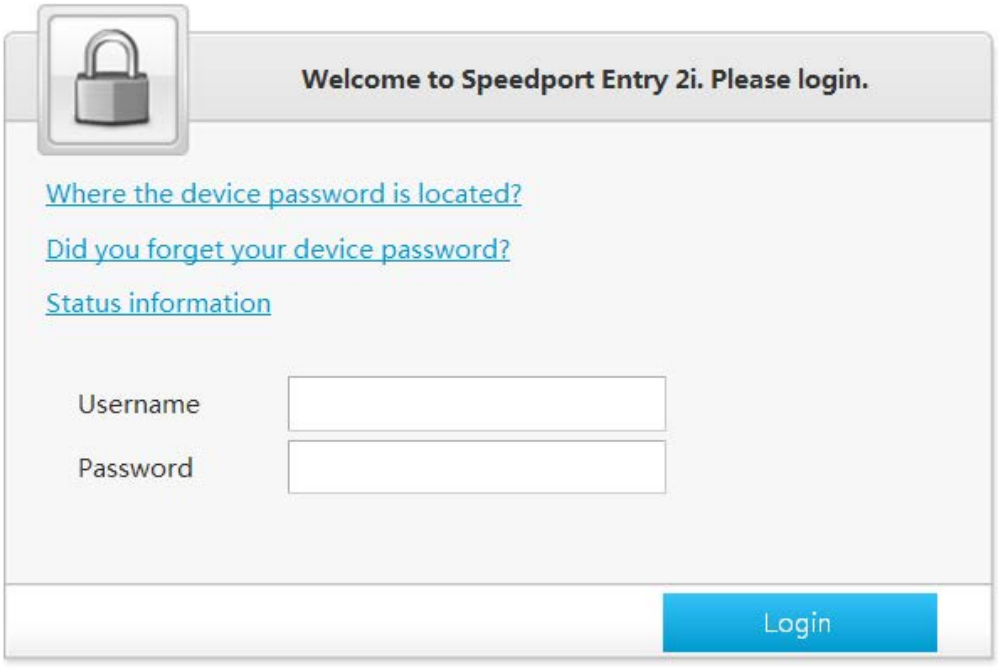
Prerequisite

A computer is directly connected to the Speedport Entry 2i, and their IP addresses are in the same network segment.

Steps

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

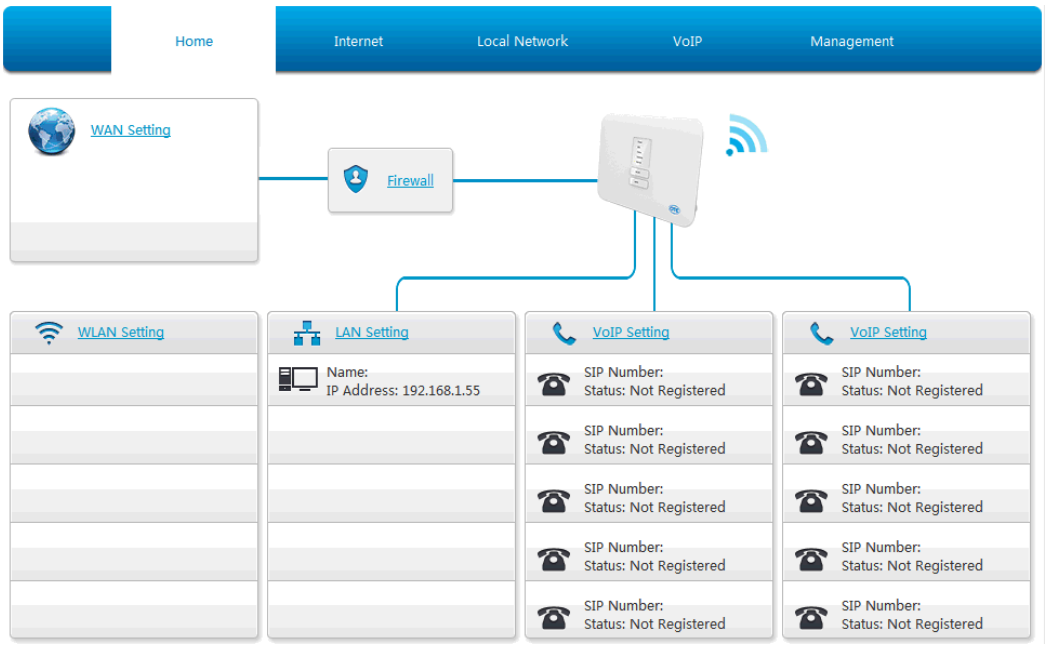
Figure 2-1 Login Page



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

The default password is located on the label underneath the device. It is suggested to change the default password to one of your choice.

Figure 2-2 Configuration Page



– End of Steps –

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Chapter 3. Configure the Internet

Table of Contents

3.1. Check the DSL Status

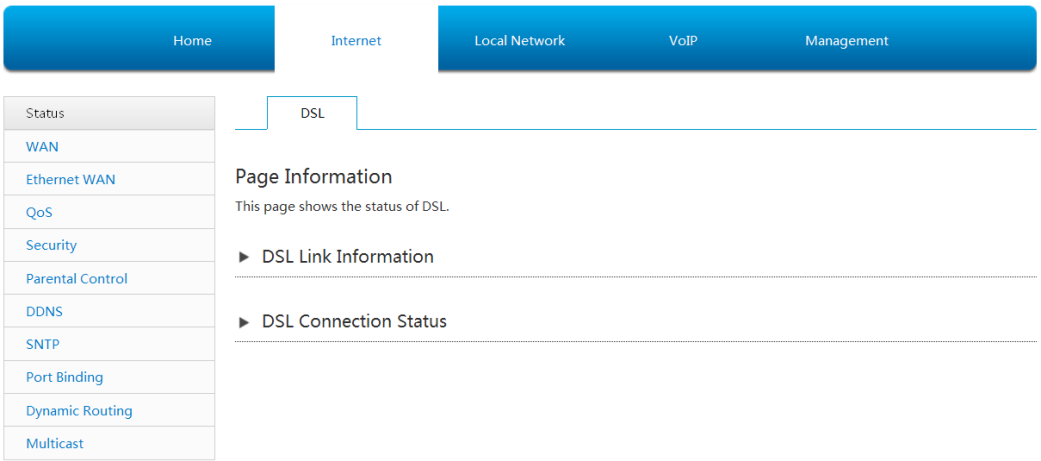
The section describes the status of DSL.

Steps

1. On the main page of the Speedport Entry 2i, select Internet > Status > DSL to go to the DSL page.

The page is shown in Figure 3-1.

Figure 3-1 DSL Status



NOTE Note:

Before checking the information on WAN Ethernet (LAN1), make sure that Ethernet WAN switch (**Internet > Ethernet WAN**) is set to **On**.

2. 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 Speedport Entry 2i supports Route-based and Bridge-based WAN connections.

- Route-based connection
- Bridge-based connection

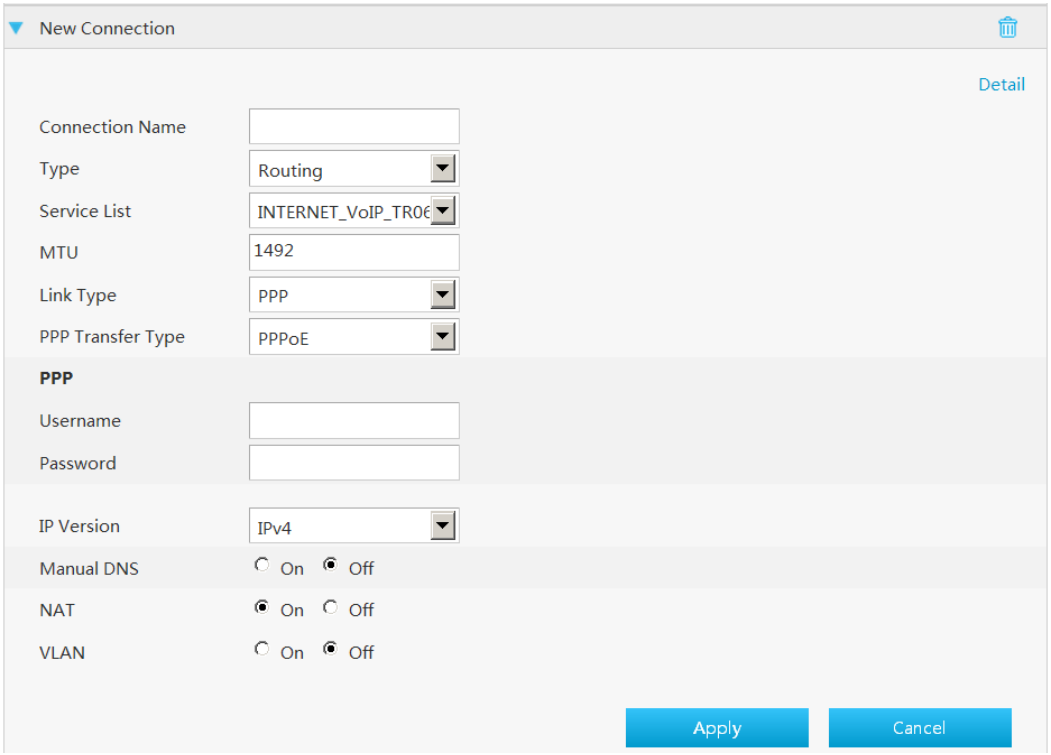
Prerequisite

Before configuring the **WAN Ethernet (LAN1)**, make sure that the button **On** (**Internet > Ethernet WAN**) is set and **Apply** button is pressed.

Steps

1. On the main page of the Speedport Entry 2i, select **Internet > WAN** to go to the **WAN Ethernet (LAN1)** page.
2. Click Create New Item to go to the page of creating a new Ethernet connection, see Figure 3-2.

Figure 3-2 New Item Page



3. Set the parameters. 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, enter the name of the WAN connection.
Type	The connection type includes **Routing** and **Bridge Connection**. In this case, **Routing** is selected (for Internet service).
Service List	Options: INTERNET_TR069 and INTERNET_VoIP_TR069. This parameter must be consistent with service configuration. For example, if **INTERNET_TR069** is selected, it indicates that the WAN connection supports the Internet access service and remote management. If **INTERNET_VoIP_TR069** is selected, it indicates that the WAN connection supports the Internet access service, remote management and the voice service.
MTU	Maximum Transfer Unit of the WAN connection. If **Link Type** is set to IP, MTU range is 576–1500, default: 1500. If **Link Type** is set to PPP, MTU range is 128–1492, default: 1492.
Link Type	There are two link types: ▌ PPP ▌ IP
PPP Transfer Type	The default value is PPPoE.

Parameter	Description
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**. ▌ **IPv4**: The device supports IPv4 addresses only. ▌ **IPv6**: The device supports IPv6 addresses only. ▌ **IPv4/IPv6**: The device supports both IPv4 and IPv6 addresses.
IPv4	
IP Type	Options: ▌ **DHCP**: The DHCP server automatically allocates a dynamic IP address to the device. ▌ **Static**: You need to specify a static IP address for the device.
IP Address	Specifies the IPv4 address for the WAN connection when IP Type is **Static**.
Subnet Mask	Subnet mask of the WAN connection when IP Type is **Static**.
Gateway	The net-hop IP address to the destination network.
DNS1/DNS2/ DNS3	IPv4 address of the DNS server for static connections. You can set up to three IPv4 addresses for the server. These IPv4 addresses are provided by the ISP.
IPv6	
IPv6 Info Acquire Mode	Specifies how to acquire IPv6 information for the WAN connection. It is valid only if the WAN connection supports IPv6. The options are: ▌ **Manual** : You need to set the global address, gateway, and DNS acquisition modes. ▌ **Auto** : The global address, gateway, and DNS acquisition modes are automatically configured.
Manual DNS	Set radio button to **On** to enable the function of acquiring the IPv6 DNS address manually.
DNS1/DNS2/ DNS3	IPv6 address of the DNS server for static connections. You can set up to three IPv6 addresses for the server. These IPv6 addresses are provided by the ISP.
Router Solicitation	Make sure the IP address is sole.
SLAAC	If setting radio button to **On**, the device generates a global address in accordance with the RA packets from the upper-layer server.

Parameter	Description
DHCPv6	If you set the radio button to **On**, the device acquires a DNS address through DHCPv6. And the **Request GUA**, **Request PD**, **GUA from PD** need to be configured.
GUA	Mode of obtaining a global address.
PD	Prefix Delegation.
NAT	Set radio button to **On** to enable the NAT switch function. When multiple computers in a LAN share one IP address to visit the Internet, NAT is used to transfer the private network address to the public network address of the WAN port. If NAT is not set to **On** you can configure the host/subnet that will be NATted (for host 192.168.1.100, configure:192.168.1.100/32)
Manual DNS	If setting radio button to **On**, you need to configure DNS1–DNS3.
VLAN	Specifies whether to carry a VLAN tag in the packets sent over the WAN connection. By default, **On** button is not selected. If it is selected, a VLAN tag is carried in the packets sent over the WAN connection, and the VLAN ID must be set.
VLAN ID	Identifies a VLAN. Range: 1–4094. To ensure normal service operation, the **VLAN ID** must be the same as that set by the network service provider who will inform the user about the value of the VLAN ID field.

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

– End of Steps –

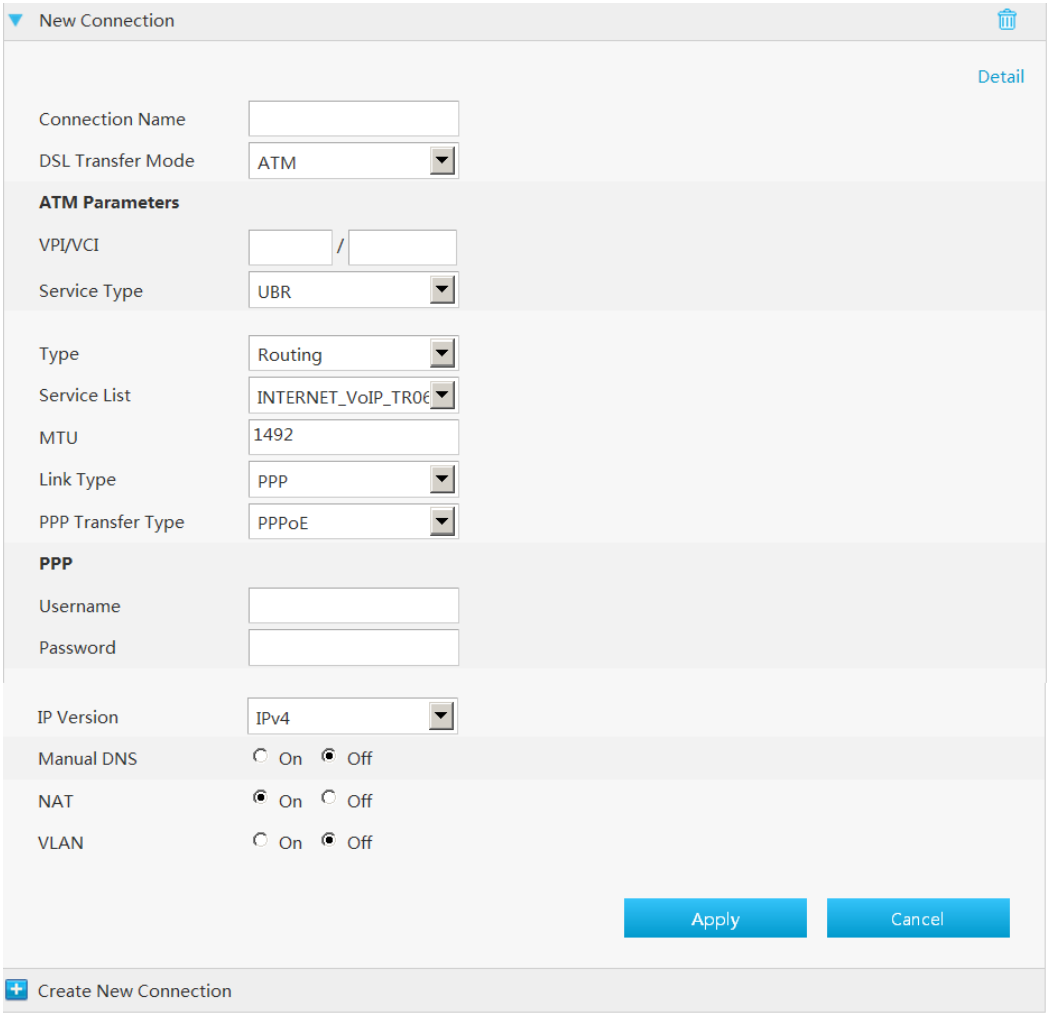
3.2.2. Configure the DSL

This page provides the parameters of DSL connection configuration function.

Steps

1. On the main page of the Speedport Entry 2i, select **Internet > WAN** to go to the **DSL** page, as shown in Figure 3-3.

Figure 3-3 DSL Configuration



DSL Connection

2. Click Create New Item to create a new DSL connection.
3. Set parameters on different pages in accordance with the settings of the Type, **IP Version**, **Link Type**, and other parameters.

   Table 3-2 lists the New Item parameters.

Table 3-2 New Item parameters

Parameter	Description
Connection Name	To create a WAN connection, enter the name of the WAN connection.
DSL Transfer Mode	There are two xDSL transfer modes: ▌ ATM ▌ PTM
VPI/VCI	Enter the VPI/VCI values provided by the ISP that is 8/35. VPI Range: 0 - 255 VCI Range: 0 - 65535

Parameter	Description
Service Type	It is used to limit the transmission of uplink traffic. The options are: **CBR**, **VBR-rt**, **VBR-nrt** and **UBR**.
PCR	If Service Type is selected to be CBR, VBR-rt or VBR-nrt, PCR needs to be configured.
SCR	Sustainable Cell Rate. If Service Type is selected to be VBR-rt or VBR-nrt, SCR needs to be configured.
MBS	Maximum Burst Size. If Service Type is selected to be VBR-rt or VBR-nrt, MBS needs to be configured.
Type	The connection type includes **Routing** and **Bridge Connection**.
MTU	Maximum Transfer Unit (MTU) of the WAN connection. If **Link Type** is set to IP, MTU range is 576–1500, default: 1500. If **Link Type** is set to PPP, MTU range is 128–1492, default: 1492.
Link Type	There are two link types: ▌ PPP ▌ IP
PPP Transfer Type	PPP transfer Type that the device supports. Normally, it is set to PPPoE. ▌ PPPoE: The device supports IPv4/v6 addresses. ▌ PPPoA: The device supports IPv4 addresses only.
IP Version	The IP version includes: ▌ IPv4 ▌ IPv6 ▌ IPv4/v6
PPP	
Username/ Password	Username/password of the PPPoE account. The username/ password must be the same as that set on the peer server for authentication. It is valid only if the Link Type parameter is set to PPP.
IPv4	
IP Type	By default, it is set to DHCP. Options: ▌ DHCP: The DHCP server automatically allocates a dynamic IP address to the device. ▌ Static: You need to specify a static WAN IP address for the device. ▌ IPoA: It is valid only if the WAN Type parameter is set to DSL (only for ATM transfer mode). ▌ CLIP: Classical IP over ATM , IP packets to be transferred over ATM mode through packet encapsulation (only for ATM transfer mode).

Parameter	Description
IP Address	Specifies the IPv4 address for the WAN connection if IP Type is set to
Subnet Mask	Subnet mask of the WAN connection if IP Type is set to Static.
Gateway	The next-hop IP address to the destination network.
DNS1/DNS2/DNS3	IPv4 address of the DNS server for static connections. You can set up to three IPv4 addresses for the server. These IPv4 addresses are provided by the ISP.
IPv6	
IPv6 Info Acquire Mode	Specifies how to acquire IPv6 information for the WAN connection. It is valid only if the WAN connection supports IPv6. The options are: ▌ Manual :You need to set the global address, gateway, and DNS acquisition modes. ▌ Auto :The global address, gateway, and DNS acquisition modes are automatically configured.
Manual DNS	Set radio button to **On** to enable the function of acquiring the IPv6 DNS address manually.
DNS1/DNS2/ DNS3	IPv6 address of the DNS server for static connections. You can set up to three IPv6 addresses for the server. These IPv6 addresses are provided by the ISP.
Router Solicitation	Make sure the IP address is sole.
SLAAC	If radio button is set to **On**, the device generates a global address in accordance with the RA packets from the upper-layer server.
DHCPv6	If radio button is set to **On**, the device acquires a DNS address through DHCPv6. And the **Request GUA**, **Request PD**, **GUA from PD** need to be configured.
GUA	Mode of obtaining global address.
PD	Prefix Delegation.
NAT	Set radio button to **On** to enable the NAT switch function. When multiple computers in a LAN share one IP address to visit the Internet, NAT is used to transfer the private network address to the public network address of the WAN port. . If NAT is not set to **On** you can configure the host/subnet that will be NATed.
Manual DNS	If radio button is set to **On**, you need to configure DNS1–DNS3.
VLAN	Specifies whether to carry a VLAN tag in the packets sent over the WAN connection. By default, **On** button is not selected. If it is selected, a VLAN tag is carried in the packets sent over the WAN connection, and the VLAN ID must be set.

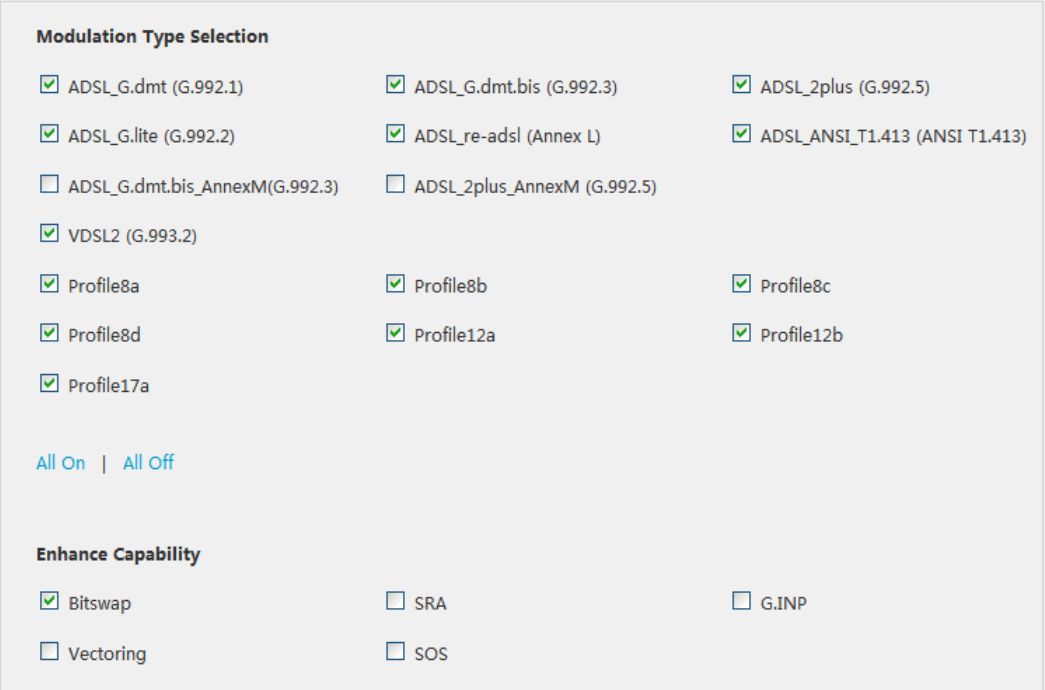
Parameter	Description
VLAN ID	Identifies a VLAN. Range: 1–4094. To ensure normal service operation, the **VLAN ID** must be the same as that set in by the network service provider who will inform the user about the value of the VLAN ID field.

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

Configure the DSL Modulation Parameters

5. Click **DSL Modulation Parameters** to go to the page of **DSL Modulation Parameters**, as shown in Figure 3-4.

Figure 3-4 DSL Modulation Parameters



6. Select the DSL modulation types.

NOTE Note:

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

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

– End of Steps –

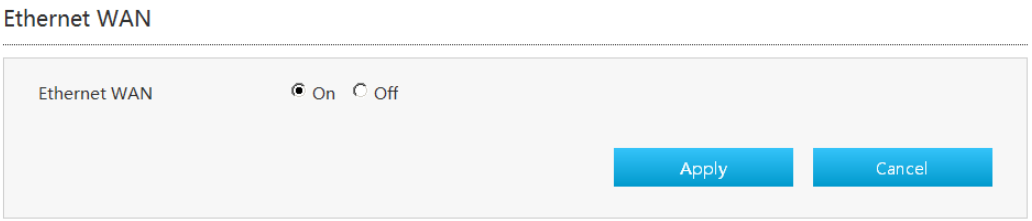
3.3. Configure the Ethernet WAN Switch

This page will help you convert LAN1 to WAN interface.

Steps

1. On the main page of the Speedport Entry 2i, select **Internet > Ethernet WAN** to go to the **Ethernet WAN** page, as shown in Figure 3-5.

Figure 3-5 Ethernet WAN Switch Page



2. Once radio button is set to **On** and **Apply** button is pressed, LAN1 will reboot and will work as WAN interface. Otherwise, when **Off** is applied, LAN1 will work as LAN interface.
3. Click **Apply** button to apply the changes.

– End of Steps –

3.4. Configure the QoS

3.4.1. Configure the QoS Global Parameters

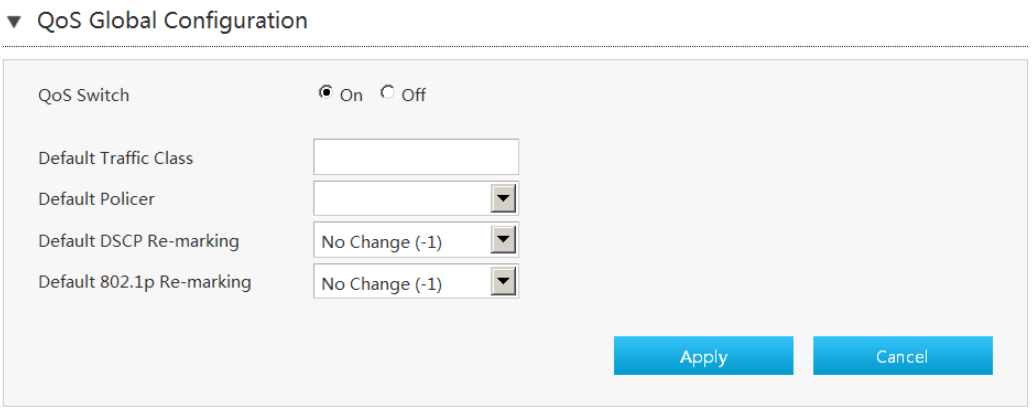
The section describes how to configure QoS global parameters.

Steps

1. On the main page of the Speedport Entry 2i, select **Internet > QoS > QoS Global Configuration** to go to the **QoS Global Configuration** page.

   The page is shown in Figure 3-6.

Figure 3-6 QoS Global Configuration page



2. Set radio button to **On** to enable QoS function together with other parameters such as DSCP and 802.1p remarking.
3. Click **Apply** button to apply the changes.

– End of Steps –

3.4.2. Configure the QoS Classification

This page provides the parameters of QoS classification configuration features.

Steps

1. On the main page of the Speedport Entry 2i, 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 3-7.

Figure 3-7 New QoS Classification Page

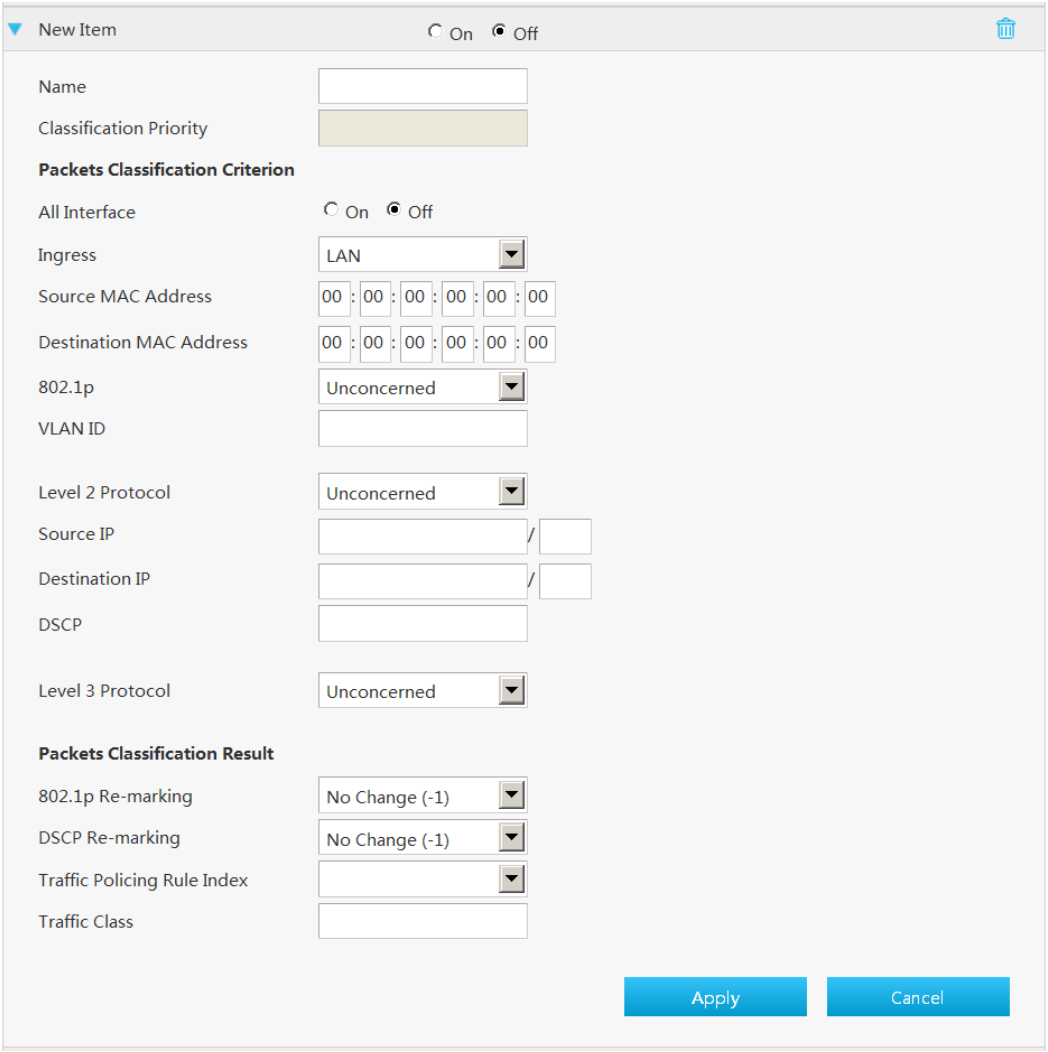


Table 3-3 lists the QoS Classification Configuration parameters.

Table 3-3 Parameter Descriptions for the QoS Classification

Parameter	Description
On/Off	Set radio button to **On** to enable the function of classification.
Name	To create a QoS classification, enter the name of the classification.
Classification Priority	It can be modified by the ISP.
Packets Classification Criterion	
All Interface	Set radio button to **On** to enable all Interfaces.
Ingress	If radio button is set to **Off**, specify the interface that performs classification of the data .
Source MAC Address	Source host MAC address.
Destination MAC Address	Destination host MAC address.

Parameter	Description
802.1p	Specify the 802.1p value to modify the service priority.
VLAN ID	Identifies a VLAN. Range: 1–4094. To ensure normal service operation, the **VLAN ID** must be the same as that set by the network service provider who will inform the user about the VLAN ID.
Level 2 Protocol	The level 2 protocol includes: Unconcerned, IPv4, IPv6, ARP and PPPoE.
Source IP	Source host IP address.
Destination IP	Destination host IP address.
DSCP	DSCP value.
Level 3 Protocol	The Level 3 Protocol includes: Unconcerned, TCP, UDP and ICMP.
Source Port	Source port number of the matching packets.
Destination Port	Destination port number of the matching packets.
TCP ACK	Set radio button to **On** to enable the function of TCP ACK.
Packets Classification Result	
802.1p Re-marking	802.1p identifier value.
DSCP Re-marking	DSCP identifier.
Traffic Policing Rule Index	Select traffic police rule index.
Traffic Class	Range: 1~1024. **Traffic Class** is used to bind one or several classifications to a queue.

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

– End of Steps –

3.4.3. Configure the QoS Congestion Management

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

Steps

1. On the main page of the Speedport Entry 2i, select **Internet > QoS > Congestion Management** to go to the **Congestion Management** page, as shown in Figure 3-8.

Figure 3-8 Congestion Management Page

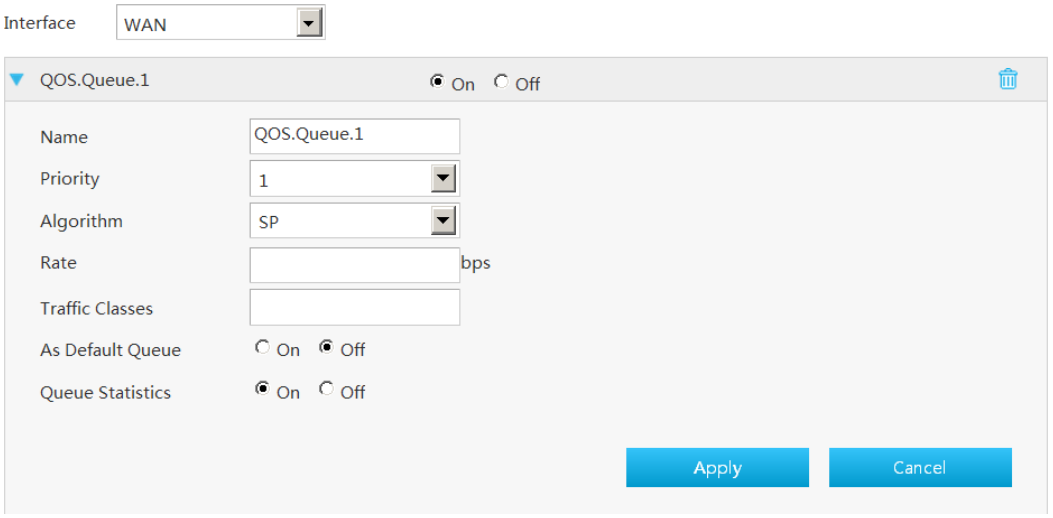


Table 3-4 lists the QoS congestion management parameters.

Table 3-4 Parameter Descriptions for the QoS Congestion Management

Parameter	Description
Queue Switch	On: enable the function of queue. Off: disable the function of queue.
Interface	The Interface including WAN (LAN1), LAN2, LAN3 and LAN4. Each interface can be configured up to 8 queues. When the queues of an interface are emptied, scheduling policies will be removed.
Name	To create a QoS congestion, enter the name of the congestion.
Priority	Queue priority. Range: 1 ~ 8.
Algorithm	Queue algorithm. ▌ **SP**: Under the same interface, if a queue's algorithm is SP, its priority must not be used by other queues. ▌ **WFQ**: If the algorithm is WFQ, scheduling policies will take effect only when the total weight of WFQ queues with the same priority is 100%.
Weight	Unit: %.
Rate	Unit: bps.
Traffic Classes	Categorization mechanism. **Traffic Classes** are used to bind a classification to a queue. Use "," to join numbers when binding several classifications, e.g. "1, 2, 10". Please note that different queues in an interface cannot bind the same classification.
As Default Queue	Set radio button to **On** to enable the function. There is a default queue in every interface. If not specified, the first queue will work as the default queue, otherwise, the last setting queue will be the default queue. Note that the default queue is automatically enabled and can not be disabled.
Queue Statistics	Set radio button to **On** to enable the function.

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

– End of Steps –

3.4.4. Configure the QoS Traffic Policing

This page provides the parameters of QoS traffic policing configuration features.

Steps

1. On the main page of the Speedport Entry 2i, select **Internet > QoS > Traffic Policing** to go to the **Traffic Policing** page, as shown in Figure 3-9.

Figure 3-9 Traffic Policing page

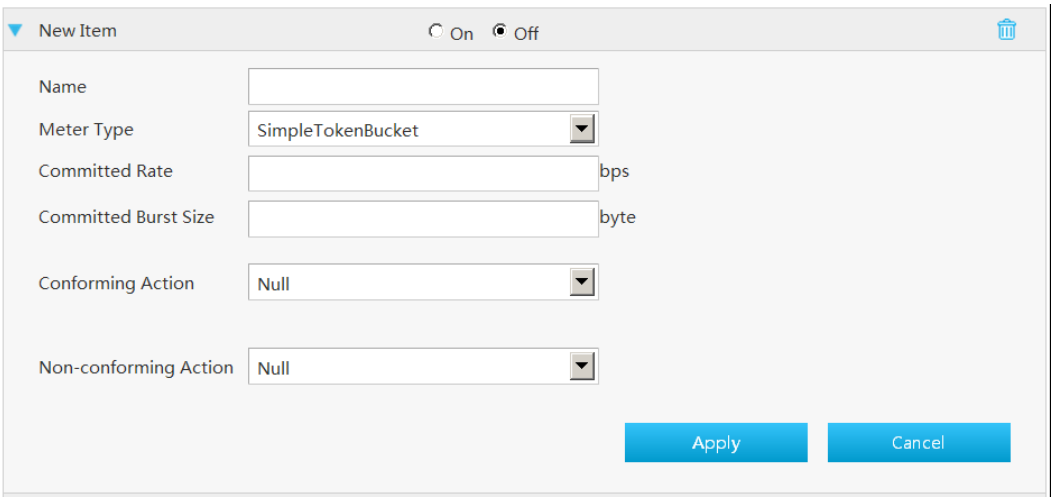


Table 3-5 lists the QoS Traffic Policing parameters.

Table 3-5 Parameter Descriptions for the QoS Traffic Policing

Parameter	Description
On/Off	Set radio button to **On** to enable traffic policing.
Name	To create a QoS traffic policing, enter the name of the traffic policing identifier.
Meter Type	The meter type includes: ▌ SimpleTokenBucket ▌ SimpleRateThreeColor ▌ TwoRateThreeColor
Committed Rate	Guaranteed rate.
Committed Burst Size	The value of "Committed Burst Size" is recommended as 1/8 of the "Committed Rate" value.

Parameter	Description
Conforming Action	The conforming action includes: ▌ Null ▌ Drop ▌ DSCP Mark ▌ 802.1p Mark ▌ DSCP Mark & 802.1p Mark
Non-conforming Action	The non-conforming action includes: ▌ Null ▌ Drop ▌ DSCP Mark ▌ 802.1p Mark ▌ DSCP Mark & 802.1p Mark
Excess Burst Size	Excess burst size.
Partial Conforming Action	The partial conforming action includes: ▌ Null ▌ Drop ▌ DSCP Mark ▌ 802.1p Mark ▌ DSCP Mark & 802.1p Mark
DSCP Re-marking	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 Re-marking	If VLAN is enabled, you can modify service priority through this parameter. Range: 0–7. A higher number indicates a higher priority.
Peak Rate	Peak rate.
Peak Burst Size	The value of "Peak Burst Size" is recommended as 1/8 of the "Peak Rate" value.

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

– End of Steps – –

3.4.5. Configure the QoS Traffic Shaping

This page provides the parameters of QoS traffic shaping configuration features.

Steps

1. On the main page of the Speedport Entry 2i, select **Internet > QoS > Traffic shaping** to go to the **Traffic shaping** page, as shown in Figure 3-10.

Figure 3-10 Traffic Shaping page

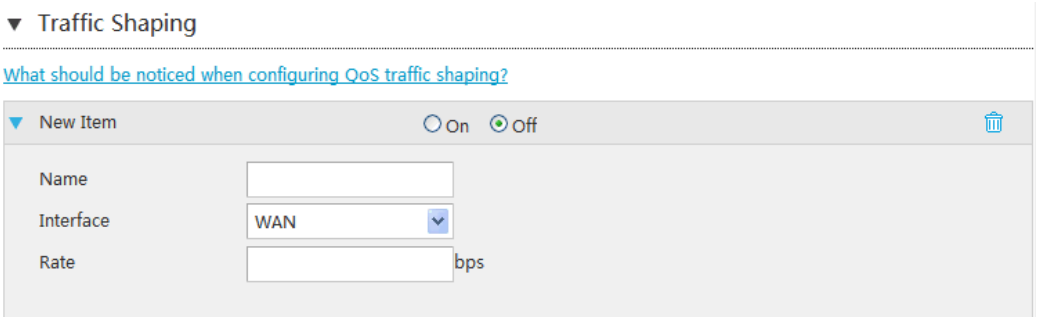


Table 3-6 lists the QoS traffic shaping parameters.

Table 3-6 Parameter Descriptions for the QoS Traffic Shaping

Parameter	Description
On/Off	Set radio button to **On** to enable the traffic shaping.
Name	To create a QoS traffic shaping, enter the name of the traffic shaping identifier.
Interface	The Interface including WAN (LAN1), LAN2, LAN3 and LAN4. Each interface can be configured with up to 8 queues. When the queues of an interface are emptied, scheduling policies will be removed.
Rate	Guaranteed rate.

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

– End of Steps – –

3.5. Configure the Security

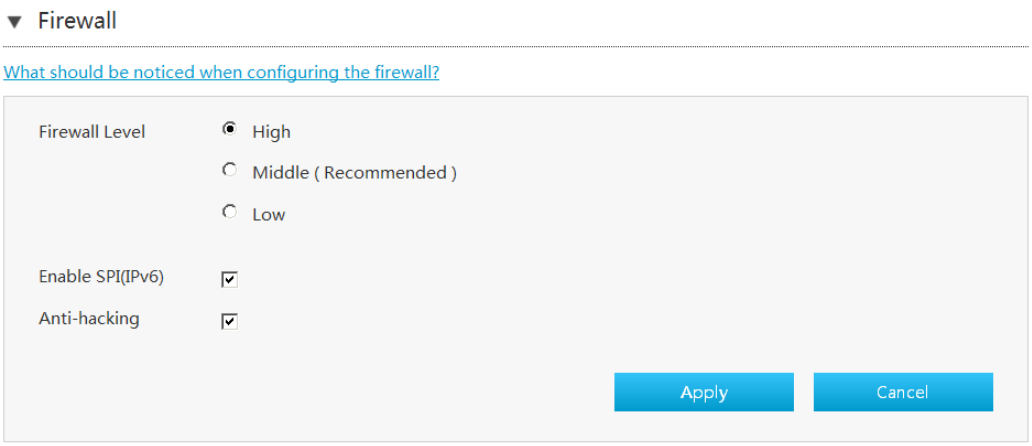
3.5.1. Configure the Firewall Level

The section describes how to configure firewall level.

Steps

1. On the main page of the Speedport Entry 2i, select **Internet > Security > Firewall** to go to the **Firewall** page, the page as shown in Figure 3-11.

Figure 3-11 Firewall Page



2. Set the parameters. For a description of the parameters, refer to Table 3-7.

Table 3-7 Firewall Parameter Descriptions

Parameter	Description
Firewall Level	▌ **High**: allows legal access from the WAN but forbids Internet devices from sending ping packets to the WAN interface of the Speedport Entry 2i. ▌ **Middle** (Recommended): 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 Speedport Entry 2i.
Enable SPI(IPv6)	To enable SPI (IPv6) protection, select this radio button.
Anti-Hacking	To enable anti-hacking protection and prevent device shutdown due to Internet attacks, select this radio button. Select **Internet > Security > The Statistical Information of Anti-hacking** to go to the Anti-Hacking page. The page shows the number of times the Gateway actively has protected your network against each intrusion since the last statistics reset.

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

– End of Steps –

3.5.2. Configure the Filter Criteria

The section describes how to configure filter criteria.

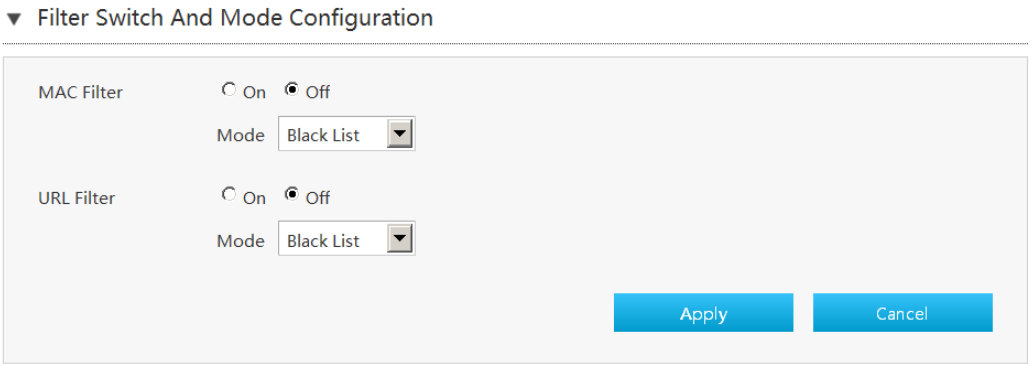
Steps

1. On the main page of the Speedport Entry 2i, select **Internet > Security > Filter Criteria** to go to the **Filter Criteria** page.

Filter Switch and Mode Configuration

2. Click ▶ Filter Switch And Mode Configuration to open filter switch and mode configuration page, as shown in Figure 3-12.

Figure 3-12 Filter Switch and Mode Configuration Page



3. Configure filter switch and mode configuration parameters, as shown in Table 3-8 .

Table 3-8 Parameter Descriptions for the Switch & Mode Filter

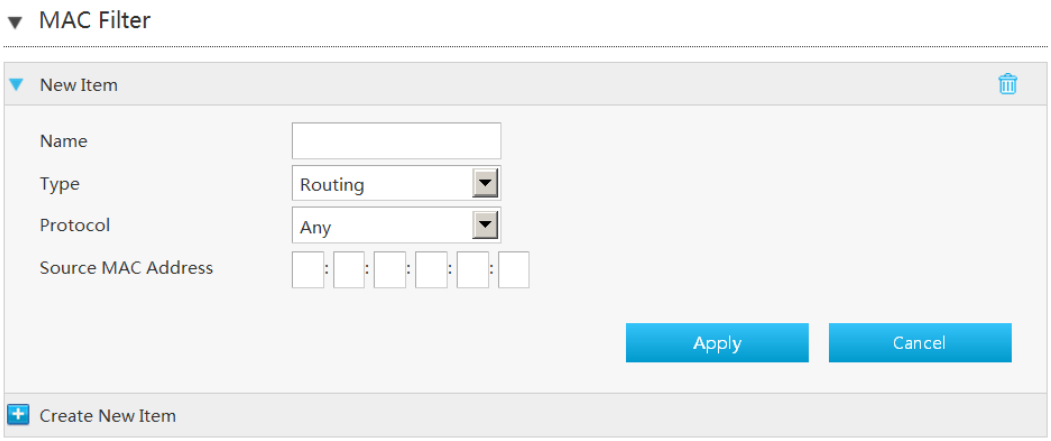
Parameter	Description
MAC Filter Switch	Set radio button to **On** to enable the MAC filter function.
MAC Filter	Enable the MAC filter function. There are two modes: ▌ Black List ▌ White List
URL Filter Switch	Set radio button to **On** to enable the URL filter function.
URL Filter	Enable the URL filter function. There are two modes: ▌ Black List ▌ White List

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

MAC Filter

5. Click ▶ MAC Filter to open MAC filter page, as shown in Figure 3-13.

Figure 3-13 MAC Filter



6. Table 3-9 lists the MAC Filter parameters.

Table 3-9 Parameter Descriptions for the MAC Filter

Parameter	Description
Name	The name of the MAC Filter.
Type	The type can be **Bridge**, **Routing** and **Bridge And Routing**.
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.

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

URL Filter

8. Click ▶ URL Filterto open **URL Filter** page, as shown in Figure 3-14.

Figure 3-14 URL Filter Page

9. Table 3-10 lists the URL filter parameters.

Table 3-10 Parameter Descriptions for the URL Filter

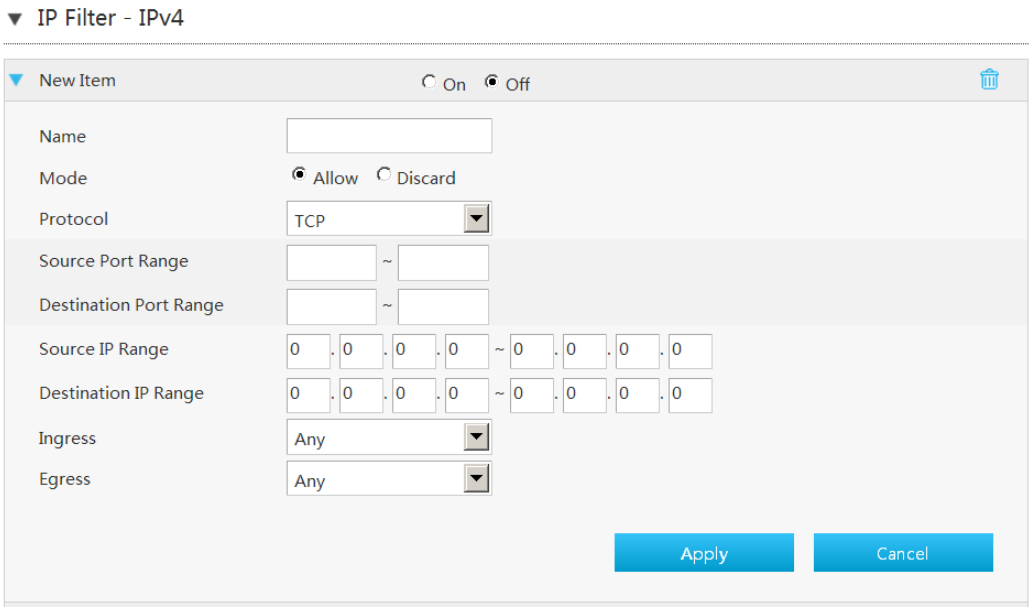
Parameter	Description
Name	The name of the URL filter.
URL	The URL address.

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

IP Filter-IPv4

11. Click ▶ IP Filter - IPv4 to open the IPv4 filter page, as shown in Figure 3-15.

Figure 3-15 IPv4 Filter Page



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

Table 3-11 Parameter Descriptions for the IPv4 Filter

Parameter	Description
On/Off	Set radio button to **On** to enable the function of IPv4 filter.
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 IP address.

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 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.
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. The data traffic direction is upstream. ▌ If the Ingress is a WAN, the Egress should be the LAN. The data traffic direction is downstream.

NOTE Note:

The configuration of IPv6 filter refers to the configuration of IPv4 filter.

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

– End of Steps –

3.5.3. Configure the Local Service Control

The section describes how to configure local service control.

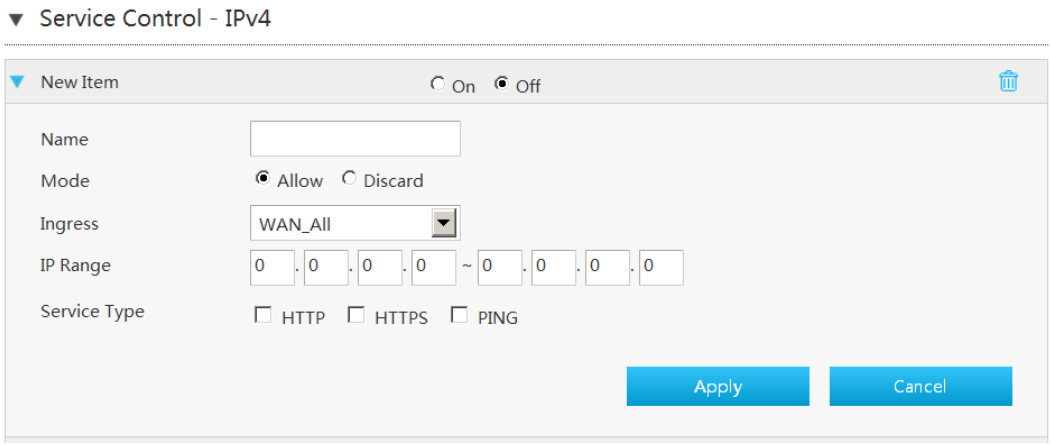
Steps

1. On the main page of the Speedport Entry 2i, select **Internet > Security > Local Service Control** to go to the **Local Service Control** page.

Local Service Control-IPv4

2. Click ▶ Service Control - IPv4 to open **Service Control-IPv4** page, as shown in Figure 3-16.

Figure 3-16 Service Control-IPv4 Page



3. Configuring Local Service Control-IPv4 parameters.

   Table 3-12 lists the Local Service Control-IPv4 parameters.

Table 3-12 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 , the data flow is downstream.
IP Address Range	The IP 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.

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

Service Control-IPv6

5. Click **Service Control-IPv6** to open **Service Control-IPv6** page, as shown in Figure 3-17 .

Figure 3-17 Service Control-IPv6 Page

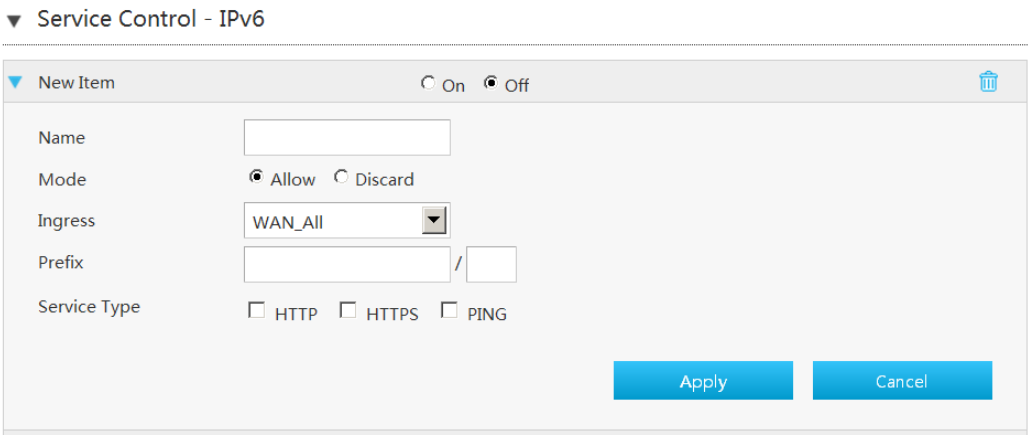


Table 3-13 lists the Service Control-IPv6 parameters.

Table 3-13 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.
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	The service that is permitted or denied to access the device.

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

– End of Steps –

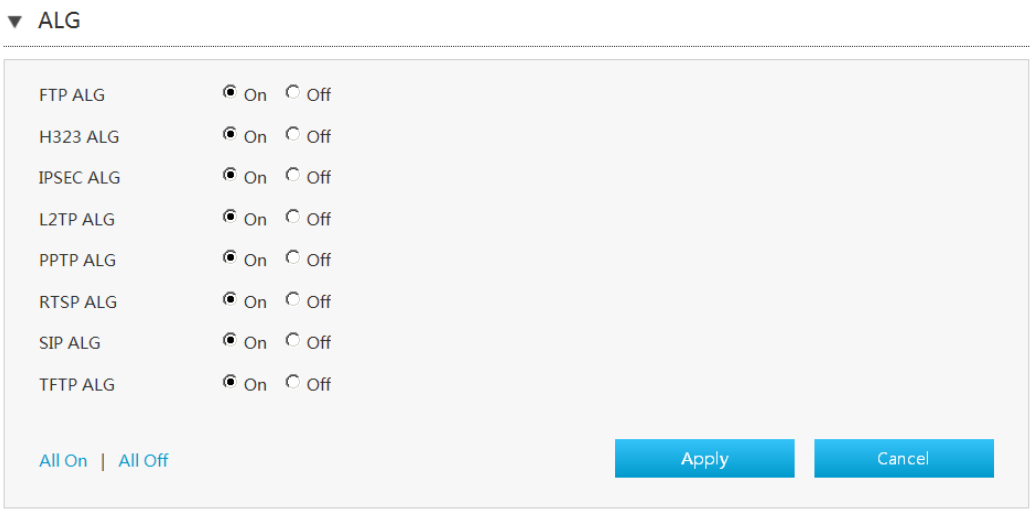
3.5.4. Configure the ALG

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

Steps

1. On the main page of the Speedport Entry 2i, select **Internet > Security > ALG** to go to the **ALG** page, the page as shown in Figure 3-18.

Figure 3-18 ALG Configuration Page



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

NOTE Note:

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

– End of Steps –

3.5.5. 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 Speedport Entry 2i, select **Internet > Security > DMZ** to go to the **DMZ** page, the page as shown in Figure 3-19.

Figure 3-19 DMZ Configuration Page

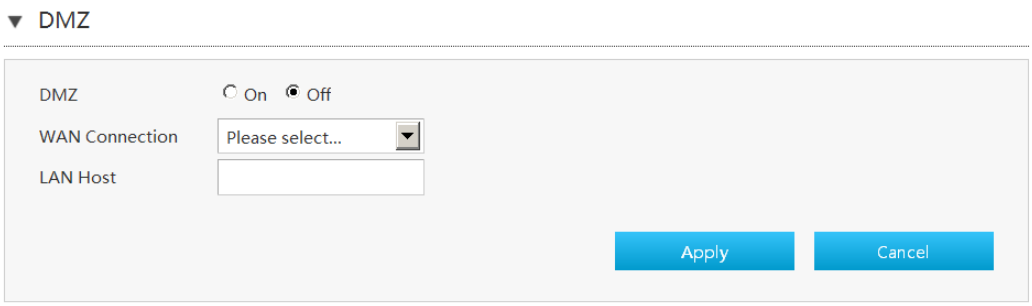


Table 3-14 lists the DMZ parameters.

Table 3-14 Parameter Descriptions for the DMZ

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

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

– End of Steps –

3.5.6. 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.

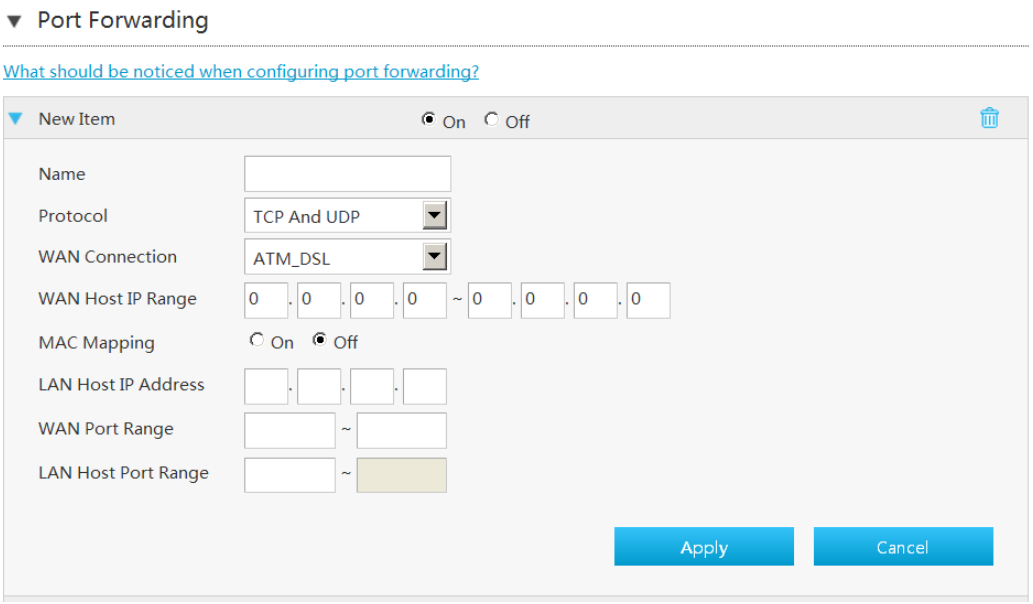
If you have local servers for different services and you want to make them publicly accessible, you need to specify the port forwarding policy. With NAT applied, it translates the internal IP addresses of these servers to a single IP address that is unique on the Internet.

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 Speedport Entry 2i, select **Internet > Security > Port Forwarding** to go to the **Port Forwarding** page, the page as shown in Figure 3-20.

Figure 3-20 Port Forwarding Configuration Page



2. Configure the Port Forwarding parameters.

Table 3-15 lists the Port Forwarding settings parameters.

Table 3-15 Parameter Descriptions for the Port Forwarding

Parameter	Description
On/Off	Set radio button to **On** to enable the port forwarding function.
Name	Virtual host name, which cannot be null.
Protocol	Protocol name, including **TCP**, **UDP**, **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 –

3.5.7. Configure the Port Trigger

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

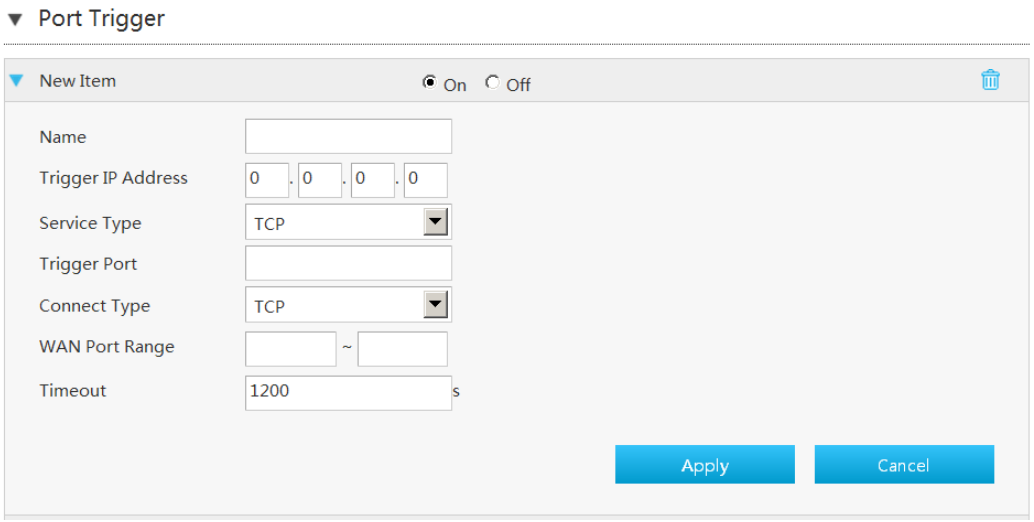
When one port is configured to be the triggering port, if one application uses that triggering port to setup a connection to the outside, the Speedport Entry 2i device will forward the outside connection to the internal forwarding port.

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 Speedport Entry 2i, select **Internet > Security > Port Trigger** to go to the **Port Trigger** page, the page as shown in Figure 3-21.

Figure 3-21 Port Trigger Configuration Page



2. Configure the Port Trigger parameters.

Table 3-16 lists the Port Trigger parameters.

Table 3-16 Parameter Descriptions for the Port Trigger

Parameter	Description
On/Off	Set radio button to **On** to enable the port trigger function.
Name	The name of Port Trigger.
Trigger IP Address	IP address of the computer in the LAN side.
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.

Parameter	Description
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 –

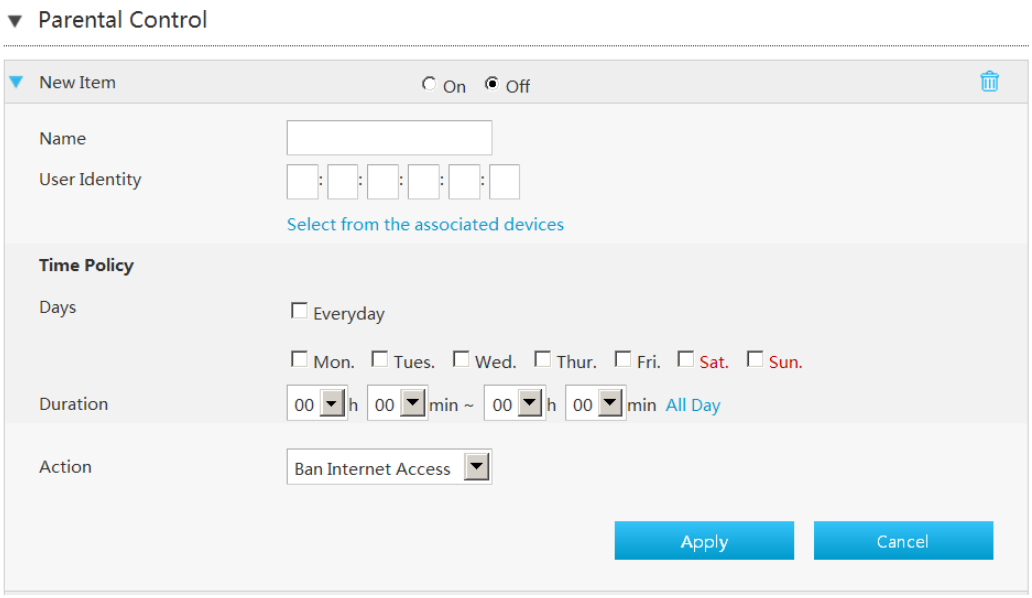
3.6. Configure the Parental Controls

The section describes how to configure Parental Controls.

Steps

1. On the main page of the Speedport Entry 2i, select **Internet > Parental Controls** to go to the **Parental Controls** page, as shown in Figure 3-22.

Figure 3-22 Parental Controls



2. Configure the parental controls parameters.

   Table 3-17 lists the parental controls parameters.

   Table 3-17 Parental Controls Parameters

Parameter	Description
On/Off	Click On to enable the parental controls function.
Name	The name of parental control.
User Identity	Configure the user information according to the IP address or MAC address. If the All user option is selected, all the users that use the Speedport Entry 2i device are included.
Days	Configure the user information according to the IP address or MAC address. If the All user option is selected, all the users that use the Speedport Entry 2i device are included.
Duration	Specify the time when the parental control settings are applied.
Action	The device supports: l Ban Internet Access l URL Black List l URL White List
URL	The URL address that is allowed to be accessed or denied with the URL White List or Black List respectively.

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

– End of Steps –

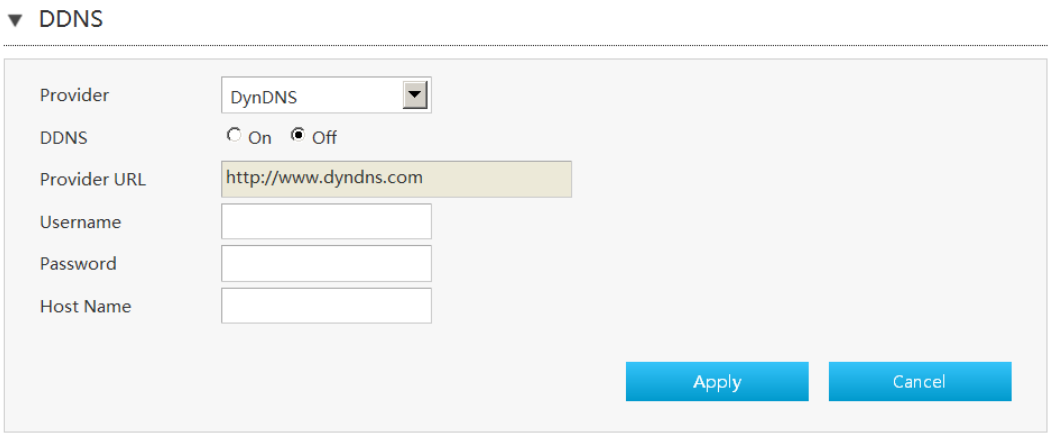
3.7. Configure the DDNS

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

Steps

1. On the main page of the Speedport Entry 2i, select **Internet > DDNS** to go to the **DDNS** page, the page as shown in Figure 3-23.

Figure 3-23 DDNS Configuration Page



2. Configure the DDNS parameters.

   Table 3-18 lists the DDNS parameters.

Table 3-18 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.dtdns.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 –

3.8. Configure the SNTP

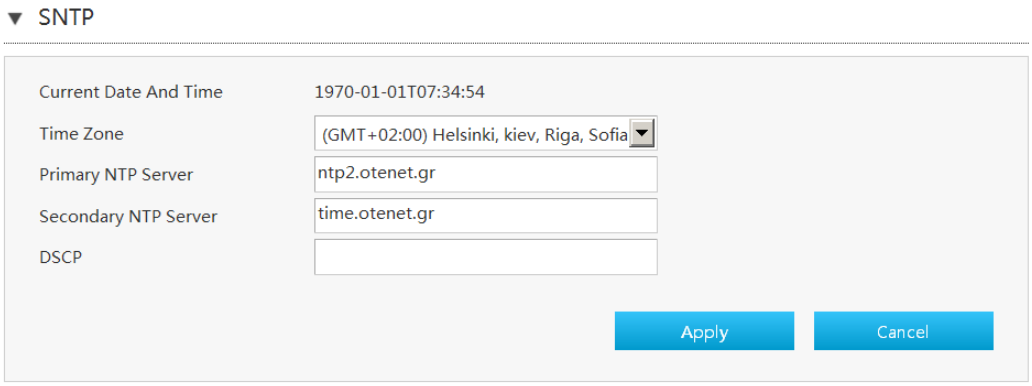
The section describes how to configure SNTP. **SNTP** provides the parameters of SNTP configuration features.

Steps

1. On the main page of the Speedport Entry 2i, select **Internet > SNTP** to go to the **SNTP**

page, the page as shown in Figure 3-24.

Figure 3-24 SNTP Configuration Page



2. Configure the SNTP parameters.

   Table 3-19 lists the SNTP parameters.

Table 3-19 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.
DSCP	Range: 0–63.

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

– End of Steps –

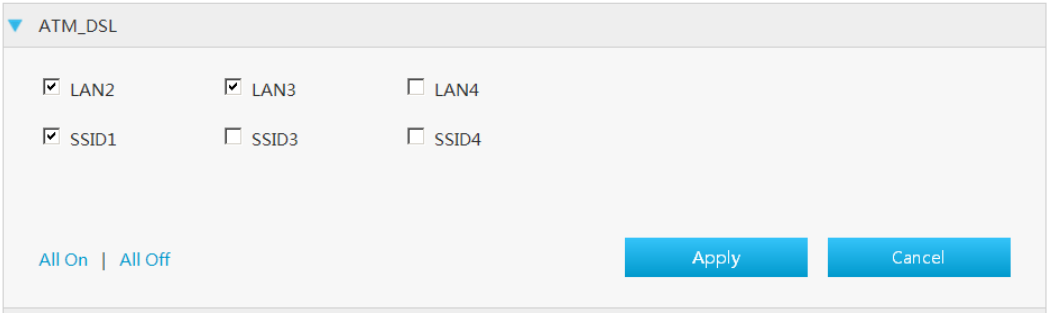
3.9. Configure the Port Binding

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 Speedport Entry 2i, select **Internet > Port Binding** to go to the **Port Binding** page, the page as shown in Figure 3-25.

Figure 3-25 Port Binding Configuration Page



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

Note:

- **SSID2** is reserved for the FON service.
- 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 –

3.10. Configure the Dynamic Routing

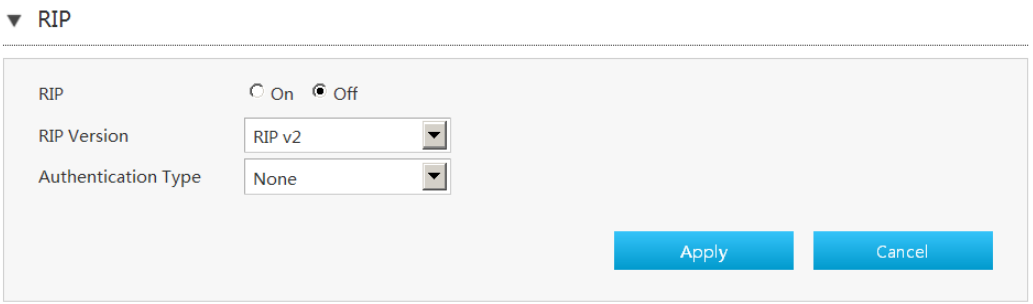
The section describes how to configure dynamic routing.

Steps

1. On the main page of the Speedport Entry 2i, select **Internet > Dynamic Routing** to go to the **Dynamic Routing** page.

   The page is shown in Figure 3-26.

Figure 3-26 Dynamic Routing



Note:

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

RIP

2. Configure the RIP parameters.

   Table 3-20 lists the RIP parameters.

Table 3-20 RIP parameters

Parameter	Description
Enable RIP	Click **On** to enable the RIP function.

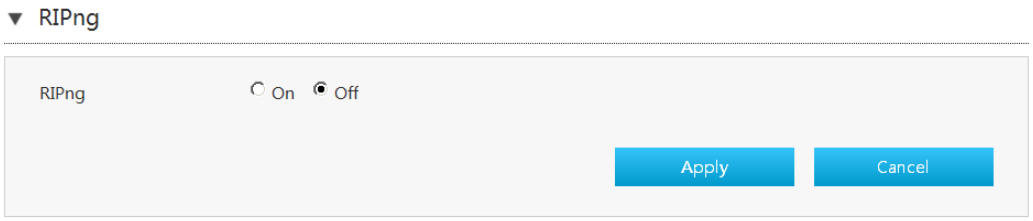
Parameter	Description
RIP Version	Range: **RIP v1**, **RIP v2** and **RIP v1 Compatible**. ▌ RIP v1 : in which only RIP-1 packets are sent. ▌ RIP v2 : in which RIP-2 packets are multicast. ▌ RIP v1 Compatible: in which RIP-2 packets are broadcast.
Authentication Type	The type includes None, Simple text, and MD5. By default, it is **None**.
Authentication Key	Range: 1~16 characters

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

RIPng

4. Click ▶ RIPng to open **RIPng** page, as shown in Figure 3-27.

Figure 3-27 RIPng



5. Click **On** to enable the RIPng function.
6. Click **Apply** button to apply the changes.

– End of Steps –

3.11. Configure the Multicast

3.11.1. Configure the IGMP

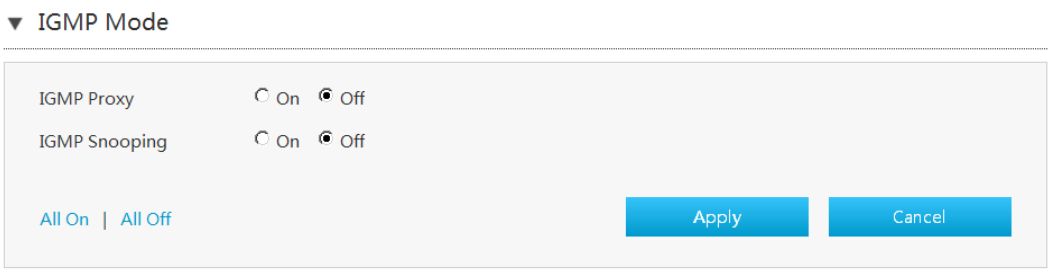
The section describes how to configure IGMP. **IGMP** provides the parameters of IGMP configuration features.

Steps

1. On the main page of the Speedport Entry 2i, select **Internet > Multicast > IGMP** to go to the **IGMP** page.

   The page is shown in Figure 3-28.

Figure 3-28 IGMP Configuration Page



2. Enable the IGMP functions, as shown in Table 3-21.

Table 3-21 Parameter Descriptions for the IGMP

Parameter	Description
IGMP Snooping	The system snoops IGMP packets from the MDU/DSLAM device and forwards the packets based on the packet information.
IGMP Proxy	The system serves as a proxy server to forward IGMP packets from the MDU/DSLAM to other devices.

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.

– End of Steps –

3.11.2. Configure the MLD

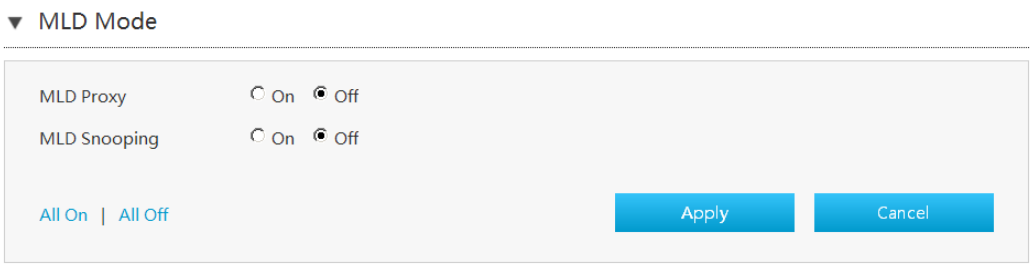
The section describes how to configure MLD that is used in IPv6 multicast networks. **MLD** provides the parameters of MLD configuration features.

Steps

1. On the main page of the Speedport Entry 2i, select **Internet > Multicast > MLD** to go to the **MLD** page.

   The page is shown in Figure 3-29.

Figure 3-29 MLD Configuration Page



2. Enable the MLD functions, as shown in Table 3-22.

Table 3-22 Parameter Descriptions for the MLD

Parameter	Description
IGMP Snooping	The system snoops MLD packets from the MDU/DSLAM device and forwards the packets based on the packet information.
IGMP Proxy	The system serves as a proxy server to forward MLD packets from the MDU/DSLAM to other devices.

NOTE Note:

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

– End of Steps –

Chapter 4. Configure the Local Network

Table of Contents

4.1. Check the Local Network Status

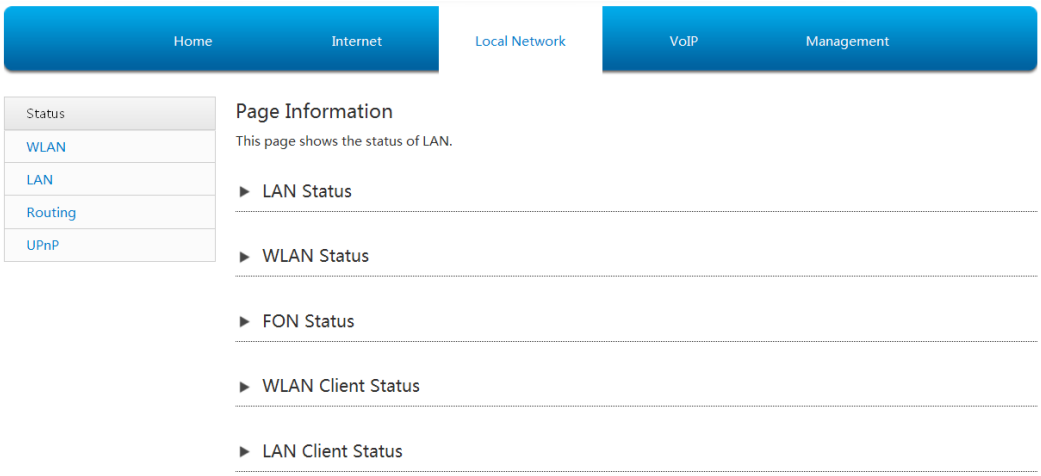
The section describes the status of the Local Network. The relevant information of Local Network status includes **LAN Status**, **WLAN Status**, **WLAN Client Status**, **LAN Client Status** and **FON Status**. The relevant information of Local Network status is shown as below.

Steps

1. On the main page of the Speedport Entry 2i, 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. Click **Refresh** to refresh the information.

– 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.

Steps

1. On the main page of the Speedport Entry 2i, select **Local Network > WLAN > WLAN Basic** to go to the **WLAN Basic** page.

WLAN On/Off Configuration

2. Click ▶ WLAN On/Off Configuration

   The page is shown in Figure 4-2.

Figure 4-2 WLAN On/Off Configuration

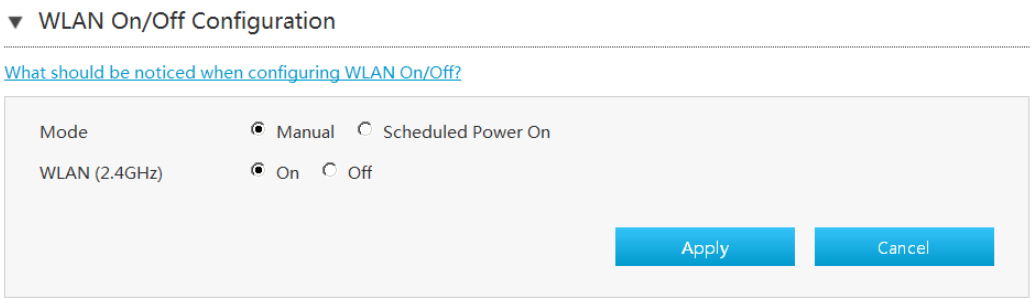


Table 4-1 lists the WLAN on/off configuration parameters.

Table 4-1 WLAN On/Off Configuration parameters

Parameter	Description
Mode	The device supports two modes: ▌ Manual ▌ Scheduled Power On In scheduled power on mode, when the device synchronizes to network time, the wireless will be switched on.
WLAN (2.4GHz)	Click **On** to enable the wireless.
On Time/Off Time	Only valid when the device works in scheduled power on mode.

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

WLAN Global Configuration

4. Click ▶ WLAN Global Configuration.

   The page is shown in Figure 4-3.

Figure 4-3 WLAN Global Configuration Page

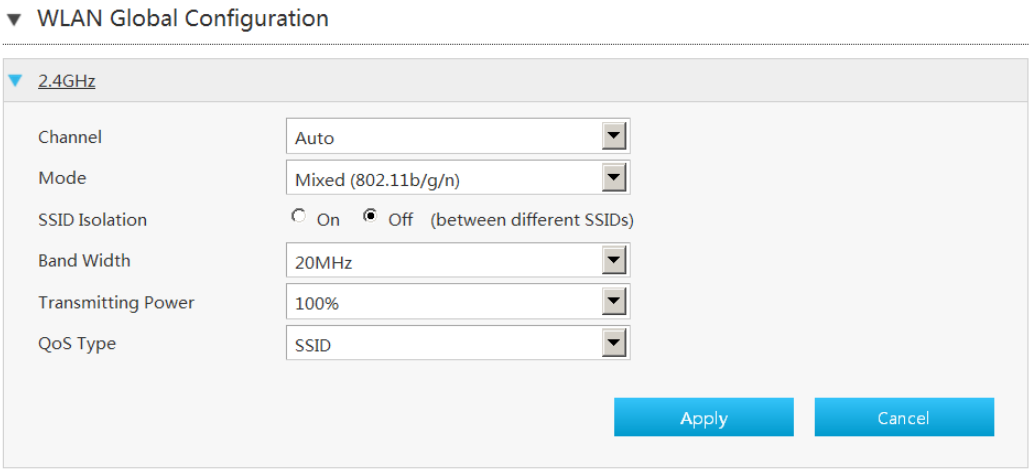


Table 4-2 lists the WLAN global configuration parameters.

Table 4-2 Parameter Descriptions for the WLAN Global Configuration

Parameter	Description
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 cannot communicate with each other.
Band Width	There are three options: AUTO, 20 MHz and 40 MHz. The default is 20 MHz.
Transmitting Power	Select the transmitting power as required.
QoS Type	There are three QoS types: ▌ Disable ▌ WMM ▌ SSID

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

WPS Push Button

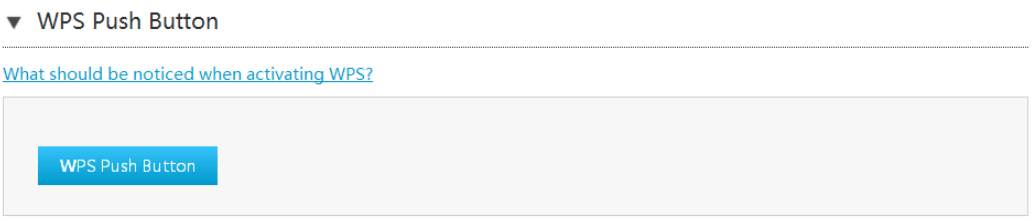
Prerequisite

- Wireless switch is on.
- SSID1 is on and cannot be hidden.
- SSID1's authentication type is WPA or WPA2 and encryption algorithm is AES or TKIP/AES.

8. Click ▶ WPS Push Button.

The page is shown in Figure 4-4.

Figure 4-4 WPS Push Button



Then click the button **WPS Push Button**.

WLAN SSID Settings

9. Click ▶ WLAN SSID Configuration.

The page is shown in Figure 4-5.

Figure 4-5 WLAN SSID Settings Page

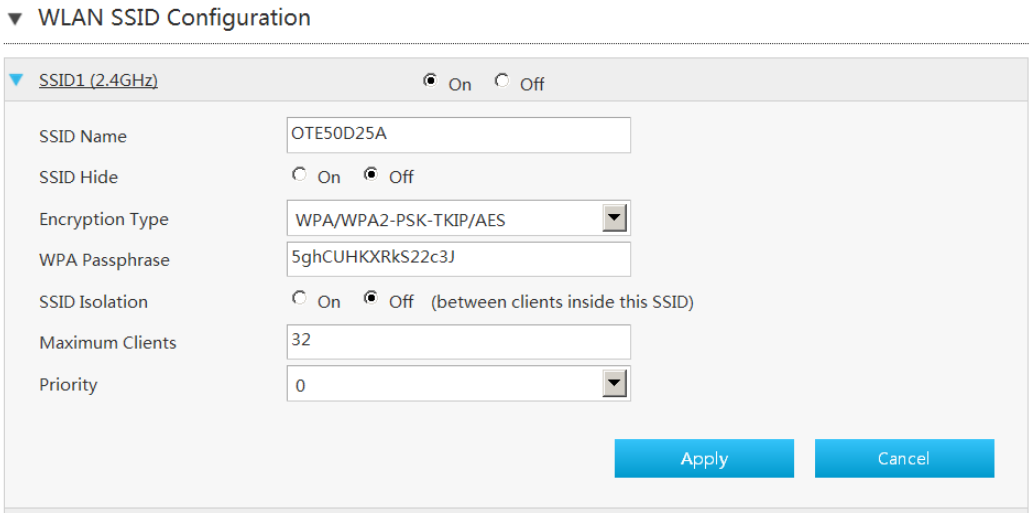


Table 4-3 lists the WLAN SSID setting parameters.

Table 4-3 Parameter Descriptions for the WLAN SSID Setting

Parameter	Description
On/Off	Set radio button to **On** to enable WLAN function of SSID.
SSID Name	The name of SSID.
SSID Hide	Set radio button to **On** to hide the SSID information from other users.

Parameter	Description
Encryption Type	Select Encryption Type.
WPA Passphrase	Range: 8 ~ 63 characters (default Passphrase is shown on the label underneath the device)
Enable SSID Isolation	Set radio button to **On** to enable SSID isolation. The wireless clients with the same SSID cannot access each other.
Maximum Clients	Range: 1 - 32.
Priority	Queue priority. Range: 1 ~ 8.

NOTE Note:

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

12. 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 some WLAN Advanced configuration features.

Steps

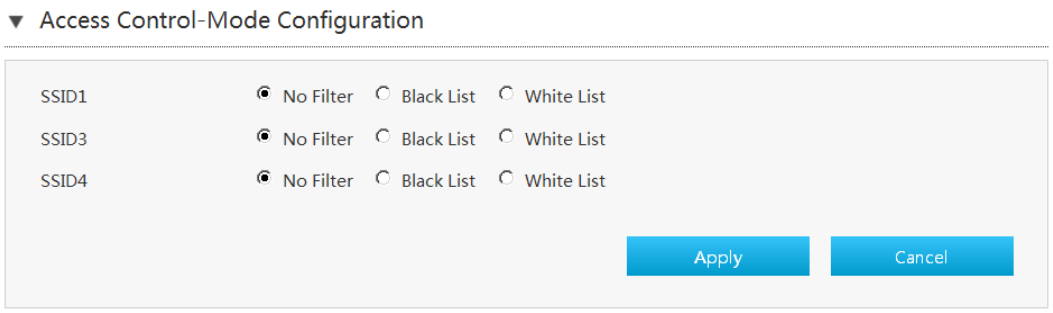
1. On the main page of the Speedport Entry 2i, select **Local Network > WLAN > WLAN Advanced** to go to the **WLAN Advanced** page.

Access Control-Mode Settings

2. Click ▶ Access Control-Mode Configuration.

   The page is shown in Figure 4-6. SSID2 is reserved for the FON service.

Figure 4-6 Access Control-Mode Settings Page



3. Configure the WLAN Global Configuration parameters.

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

Table 4-4 Access Control-Mode parameters

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

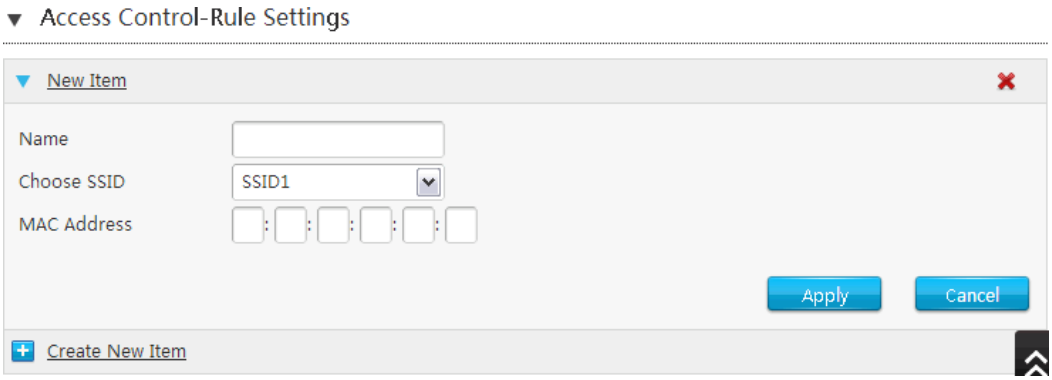
4. Click **Apply** button to apply the changes.

Access Control-Rule Settings

5. Click ▶ Access Control-Rule Configuration.

The page is shown in Figure 4-7.

Figure 4-7 Access Control-Rule Settings



6. Configure the Access Control-Rule Configuration parameters.

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

Table 4-5 Access Control-Rule parameters

Parameter	Description
Name	The name of Access Control Item.
Choose SSID	Choose the SSID to from SSID1, SSID3, SSID4.
MAC Address	The MAC address of the wireless device. We suggest to set the MAC addresses in Access Control List using a wireline connected device. Modifying the list using a wireless device may cause unexpected disconnections of the device used.

7. 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 the LAN network (IPv4).

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

Steps

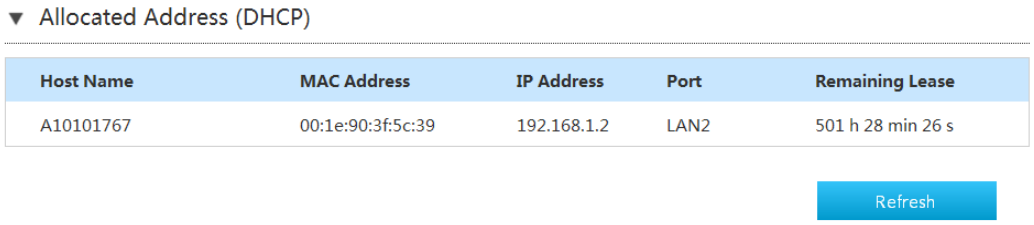
1. On the main page of the Speedport Entry 2i, select **Local Network > LAN > IPv4** to go to the **IPv4** page.

Allocated address

2. Click ▶ Allocated Address (DHCP).

   Allocated address page is displayed, as shown in Figure 4-8.

Figure 4-8 Allocated Address (IPv4) Page



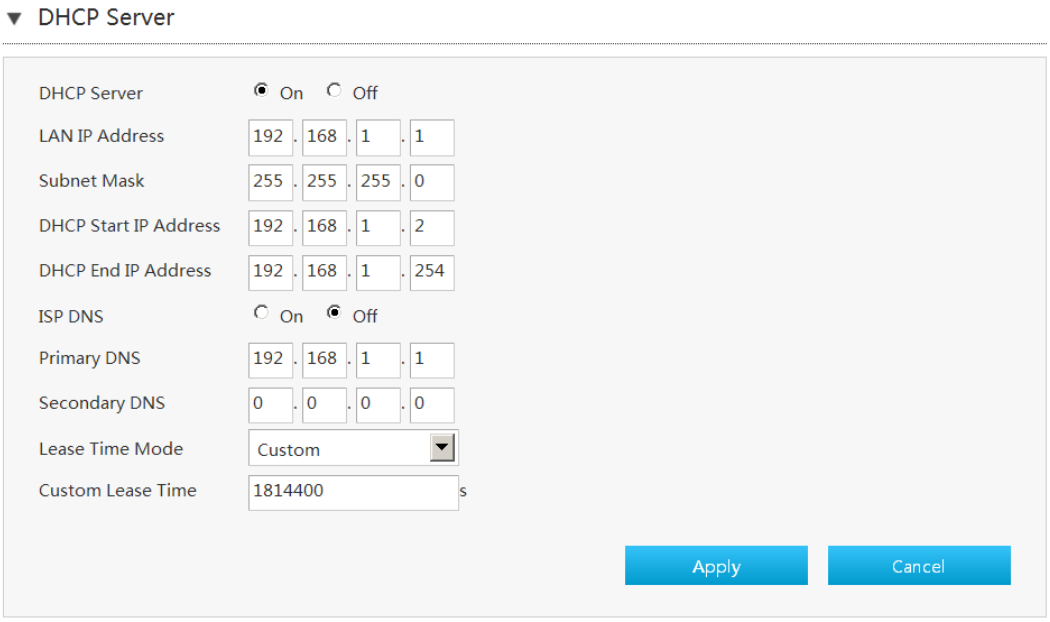
3. Click **Refresh** to refresh the information.

DHCP server

4. Click ▶ DHCP Server.

   DHCP server page is displayed, as shown in Figure 4-9.

Figure 4-9 DHCP Server (IPv4) Page



5. Configure the DHCP server parameters.

Table 4-6 lists the DHCP server parameters.

Table 4-6 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 the LAN router (Speedport Entry 2i).
Subnet Mask	Subnet mask of the device.
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.
ISP DNS	Select **On** to enable the ISP DNS.
Primary DNS	IP addresses of the DNS server1
Secondary DNS	IP addresses of the DNS server2.
Lease Time Mode	The mode of Lease Time.
Custom Lease Time (in seconds)	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 to be assigned to other network devices.

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

DHCP binding

7. Click ▶ DHCP Binding.

The page is shown in Figure 4-10.

Figure 4-10 DHCP Binding Page

8. Configure the DHCP Binding parameters.

   Table 4-7 lists the DHCP Binding parameters.

Table 4-7 Parameter Descriptions for the DHCP Binding

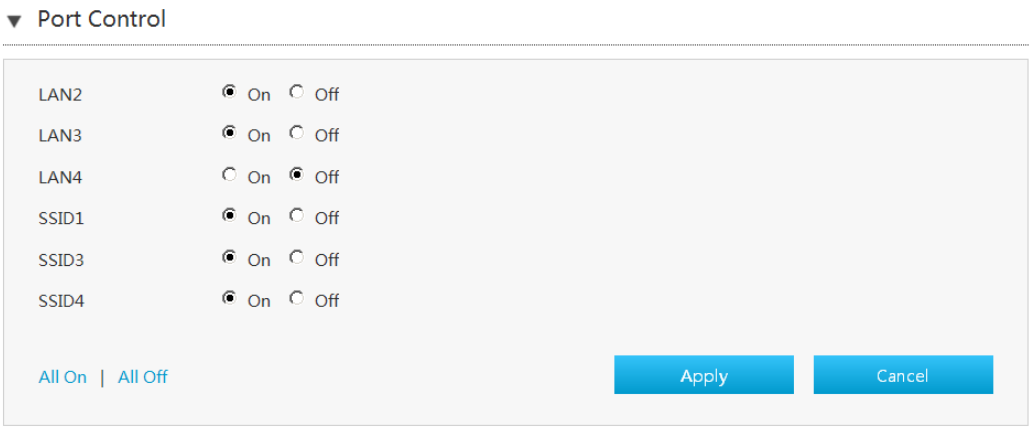
Parameter	Description
Name	The name of the DHCP Binding.
MAC Address	The MAC address of the device to be binded.
IP Address	IP address of the device to be binded.

Port Control-DHCP

9. Click ▶ Port Control .

   The page is shown in Figure 4-11.

Figure 4-11 Port Control (IPv4) Page



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

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.

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

– End of Steps –

4.3.2. Configure the LAN (IPv6)

The section describes how to configure the LAN-IPv6 network.

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

Prerequisite

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

Steps

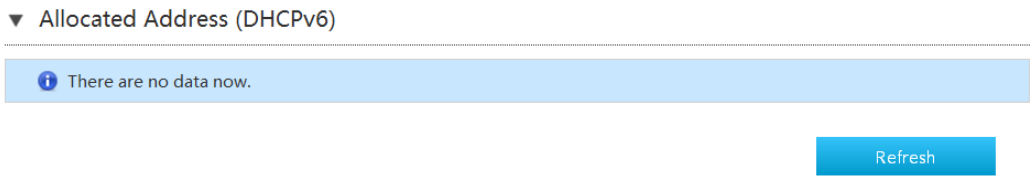
1. On the main page of the Speedport Entry 2i, select **Local Network > LAN > IPv6** to go to the **IPv6** page.

Allocated address

2. Click ▶ Allocated Address (DHCPv6).

   Allocated address page is displayed, as shown in Figure 4-12.

Figure 4-12 Allocated Address (DHCPv6) Page



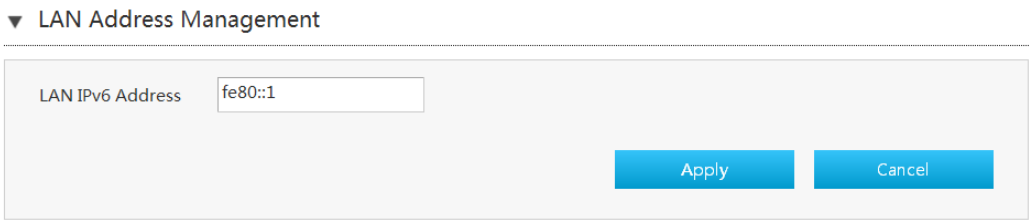
3. Click **Refresh** to refresh the information.

LAN Address Management

4. Click ▶ LAN Address Management.

   DHCP server page is displayed, as shown in Figure 4-13.

Figure 4-13 LAN Address Management Page



5. Configure the LAN address parameters.

   Table 4-8 lists the LAN address parameters.

Table 4-8 Parameter Descriptions for the LAN Address

Parameter	Description
LAN IPv6 Address	The IPv6 maintenance address of the LAN.

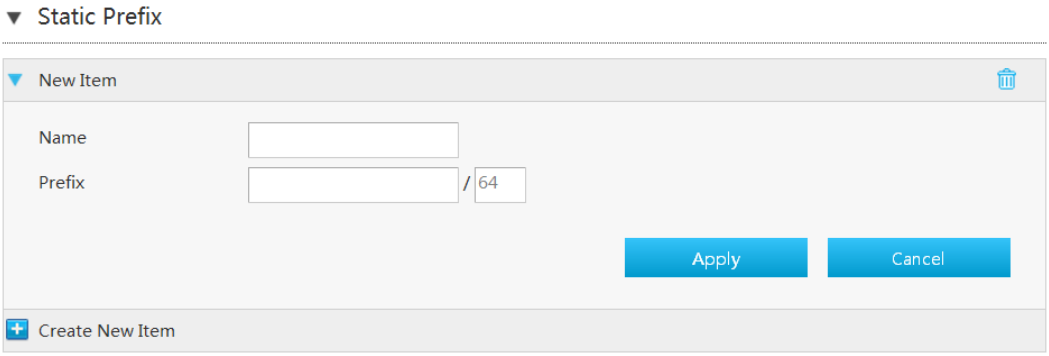
6. Click **Apply** button to apply the changes.

Static Prefix

7. Click ▶ Static Prefix.

   Prefix management page is displayed, as shown in Figure 4-14.

Figure 4-14 Static Prefix (IPv6) Page



8. Configure the static prefix parameters. Table 4-9 lists the static prefix parameters.

Table 4-9 Parameter Descriptions for the Static Prefix

Parameter	Description
Name	The name of the prefix.
Prefix	IPv6 address and prefix length. Only a GUA prefix is supported. Prefix length range: 64.

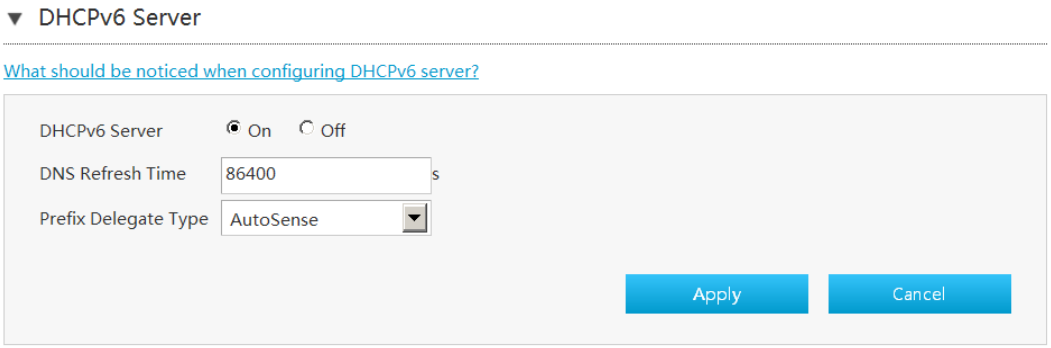
9. Click **Apply** button to apply the changes.

DHCPv6 server

10. Click ▶ DHCPv6 Server.

DHCPv6 server page is displayed, as shown in Figure 4-15.

Figure 4-15 DHCPv6 Server Page



11. Configure the DHCP server parameters.

Table 4-10 lists the Static Routing parameters.

Table 4-10 Parameter Descriptions for the DHCP Server

Parameter	Description
DHCPv6 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 (in seconds)	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 to be assigned to other network devices.
Prefix Delegate Type	Option: ▌ **AutoSense**: One prefix selected automatically from all the available prefixes will be delegated. ▌ **Manual**: One or more prefixes selected manually from all the static prefixes configured before will be delegated. ▌ **Disabled**: No prefix will be delegated.

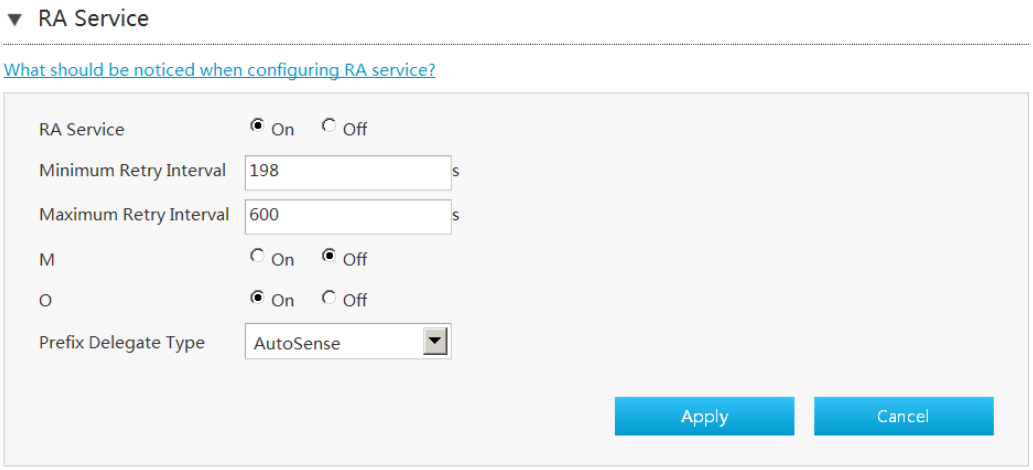
12. Click **Apply** button to apply the changes.

RA service.

13. Click ▶ RA Service.

The page is shown in Figure 4-16.

Figure 4-16 RA Service Page



14. Configure the RA service parameters.

    Table 4-11 lists the RA Service parameters.

Table 4-11 Parameter Descriptions for the RA Service

Parameter	Description
Min Retry Interval (in seconds)	The minimum time allowed between sending unsolicited multicast Router Advertisements from the interface. (The value must not be greater than 0.75 * (Maximum Retry Interval)).
Max Retry Interval (in seconds)	Maximum time allowed between sending unsolicited multicast Router Advertisements from the interface.
M	Managed flag. Select this check box to enable the connected devices to obtain the IPv6 address through DHCPv6.
O	Other configure flag. Select this check box to enable the connected devices to obtain the DNS address through DHCPv6.
Prefix Delegate Type	Option: ▌ **AutoSense**: All the available prefixes will be delegated. ▌ **Manual**: One or more prefixes selected manually from all the static prefixes configured before will be delegated.

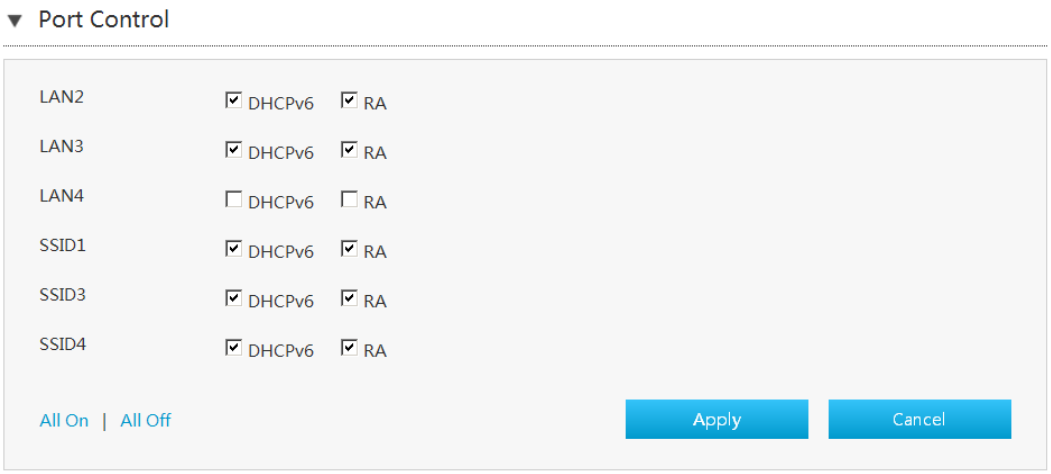
15. Click **Apply** button to apply the changes.

Port Control

16. Click ▶ Port Control.

    The page is shown in Figure 4-17.

Figure 4-17 Port Control Page



17. Select the LAN interface or SSID on which you want to disable or enable the DHCPv6 and RA function.

NOTE Note:

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

– End of Steps –

4.4. Configure Route Menu

4.4.1. Configure Routing (IPv4)

The section describes how to configure IPv4 routing, which 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 **Routing (IPv4)**, make sure that the IPv4 WAN connection is created.

Steps

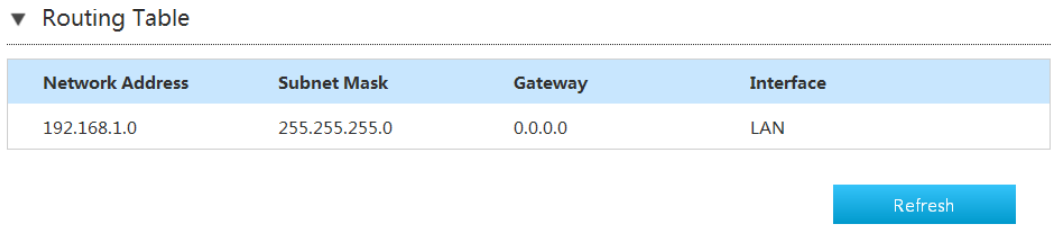
1. On the main page of the Speedport Entry 2i, select **Local Network > Route > IPv4** to go to the **Route (IPv4)** page.

Routing table

2. Click ▶ Routing Table .

The page is shown in Figure 4-18.

Figure 4-18 Routing Table (IPv4) Page



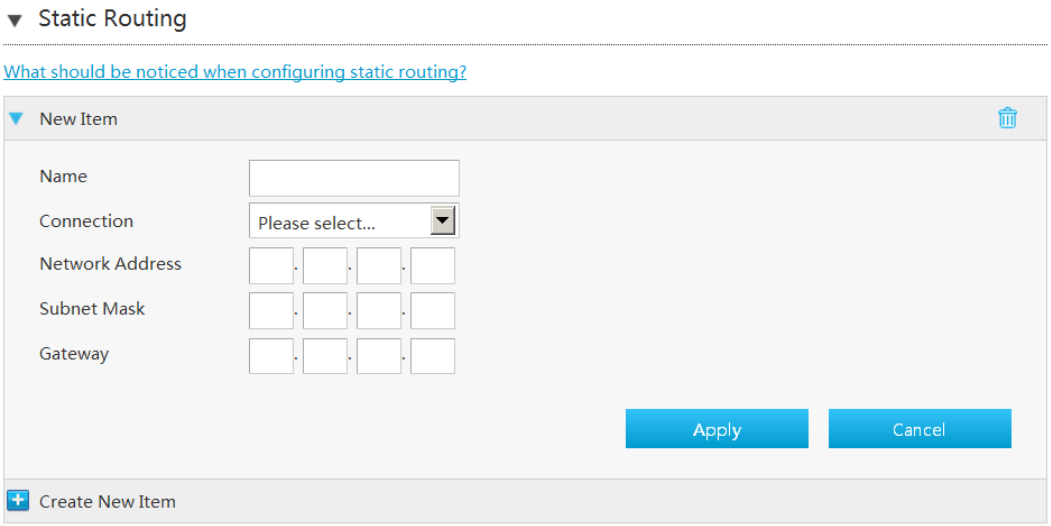
3. Click **Refresh** to refresh the information.

Static routing

4. Click ▶ Static Routing .

The page is shown in Figure 4-19.

Figure 4-19 Static Routing (IPv4) Page



5. Configure the static routing parameters.

Table 4-12 lists the Static Routing parameters.

Table 4-12 Parameter Descriptions for the Static Routing

Parameter	Description
Name	The name of static routing entry.
Connection	WAN/LAN connection for static routing.
Network Address	IPv4 address of the destination network.
Subnet Mask	Subnet mask of the destination network.
Gateway	The next-hop IPv4 address to the destination network.

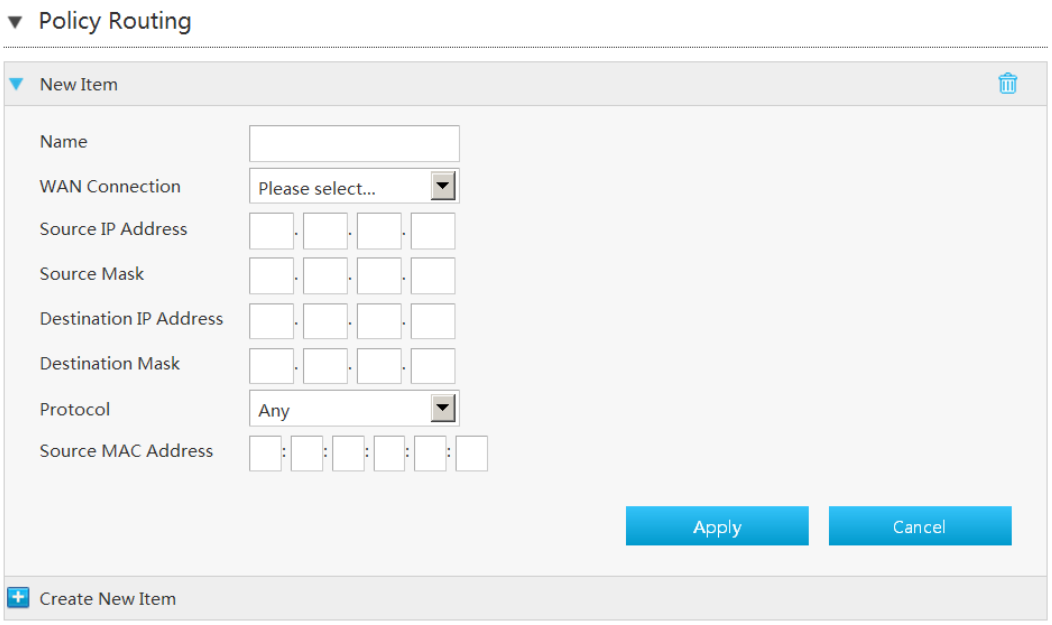
6. Click **Apply** button to apply the changes.

Policy routing

7. Click ▶ Policy Routing .

The page is shown in Figure 4-20.

Figure 4-20 Policy Routing (IPv4) Page



8. Configure the Policy Routing parameters.

Table 4-13 lists the Policy Routing parameters.

Table 4-13 Parameter Descriptions for the Policy Routing (IPv4)

Parameter	Description
Name	The name of Policy routing entry.
WAN Connection	WAN connection for policy routing
Source IP Address	Source IPv4 address of the matching packets.
Source Mask	Source mask of the matching packets.
Destination IP	Destination IPv4 address of the matching packets.
Destination Mask	Destination mask of the matching packets.
Protocol	Matching IPv4 protocol. The ANY option means any IPv4 protocol.
Source Port	Source port number of the matching packets.
Destination Port	Destination port number of the matching packets.
Source MAC	MAC address of the source device that sends the matching packets.

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 Routing (IPv6)

The section describes how to configure Routing-IPv6.

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

Prerequisite

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

Steps

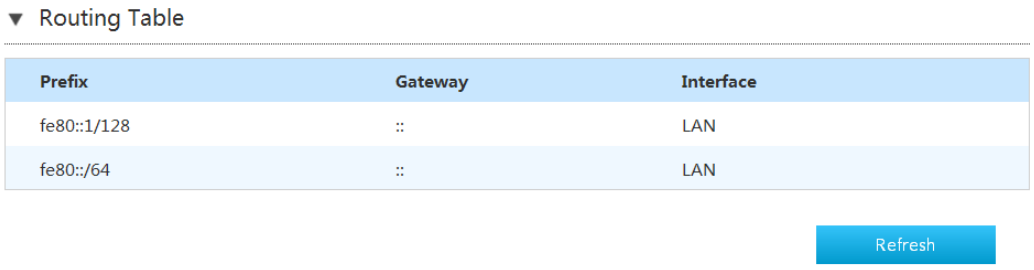
10. On the main page of the Speedport Entry 2i, select **Local Network > Route > IPv6** to go to the **Route (IPv6)** page.

Routing table.

11. Click ▶ Routing Table .

The page is shown in Figure 4-21.

Figure 4-21 Routing Table (IPv6) Page



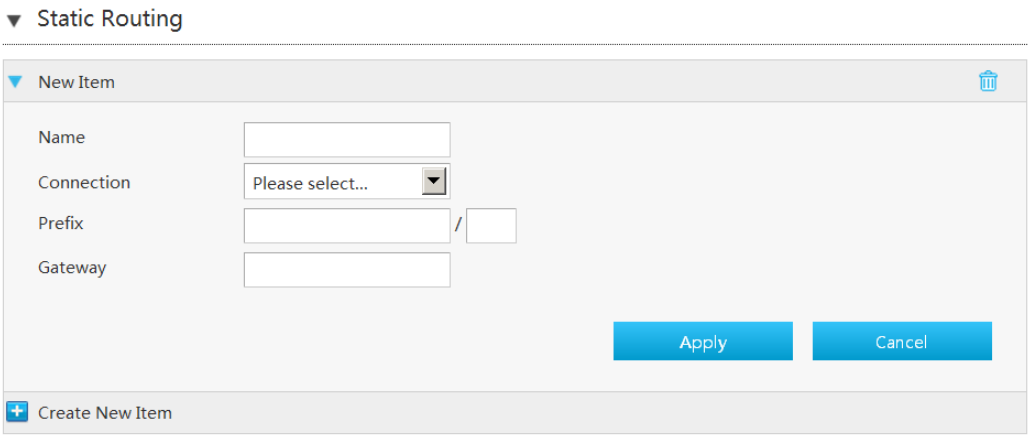
12. Click **Refresh** to refresh the information.

Static routing.

13. Click ▶ Static Routing .

The page is shown in Figure 4-22.

Figure 4-22 Static Routing (IPv6) Page



14. Configure the Static Routing parameters.

    Table 4-14 lists the Static Routing parameters.

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

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

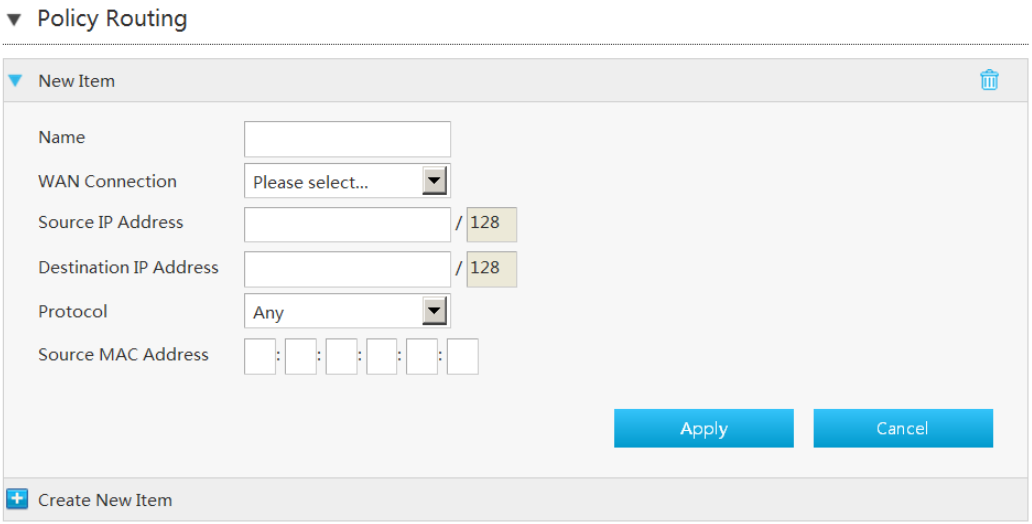
15. Click **Apply** button to apply the changes.

Policy routing

16. Click ▶ Policy Routing .

    The page is shown in Figure 4-23.

Figure 4-23 Policy Routing (IPv6) Page



17. Configure the Policy Routing parameters. Table 4-15 lists the Policy Routing parameters.

Table 4-15 Parameter Descriptions for the Policy Routing (IPv6)

Parameter	Description
Name	The name of Policy routing entry.
WAN Connection	WAN connection for policy routing
Source IP	Source IPv6 address of the matching packets.
Destination IP	Destination IPv6 address of the matching packets.
Protocol	Matching IPv6 protocol. The ANY option means any IPv6 protocol.
Source Port	Source port number of the matching packets.
Destination Port	Destination port number of the matching packets.
Source MAC	MAC address of the source device that sends the matching packets.

NOTE Note:

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

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

– End of Steps –

4.5. Configure the UPnP

This page provides the parameters of UPnP configuration features.

Steps

1. On the main page of the Speedport Entry 2i, select **Local Network > UPnP** to go to the **UPnP** page.

   The page is shown in Figure 4-24.

Figure 4-24 UPnP Page

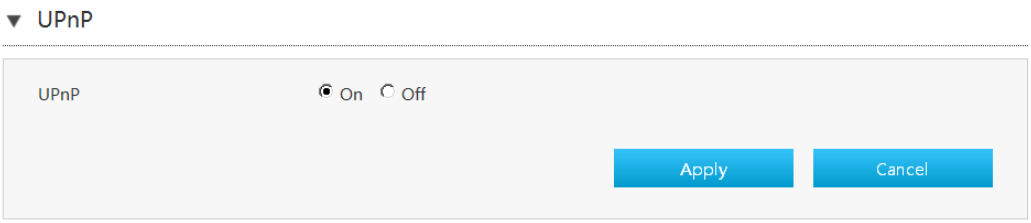


Table 4-16 lists the UPnP parameters.

Table 4-16 Parameter Descriptions for the UPnP

Parameter	Description
UPnP	Set radio button

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

– End of Steps –

Chapter 5. Configure the VoIP

Table of Contents

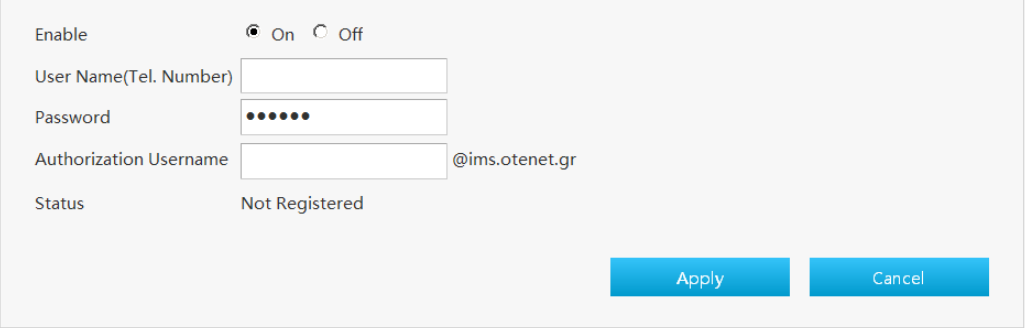
5.1. Configure the SIP Accounts

This procedure describes how to configure basic parameters of the VoIP service, including Tel. number, authorization username and password.

Steps

1. Select **VoIP > Telephone Number**. The **SIP Account** page is displayed, as shown in Figure 5-1.

Figure 5-1 Parameters of the SIP Accounts Page



2. The parameters of the SIP Account according to Figure 5-1 are completed automatically by the IMS system in a few minutes after the synchronization of the VoIP service. For a description of the parameters, refer to Table 5-1.

Table 5-1 Parameter Descriptions for the SIP Accounts

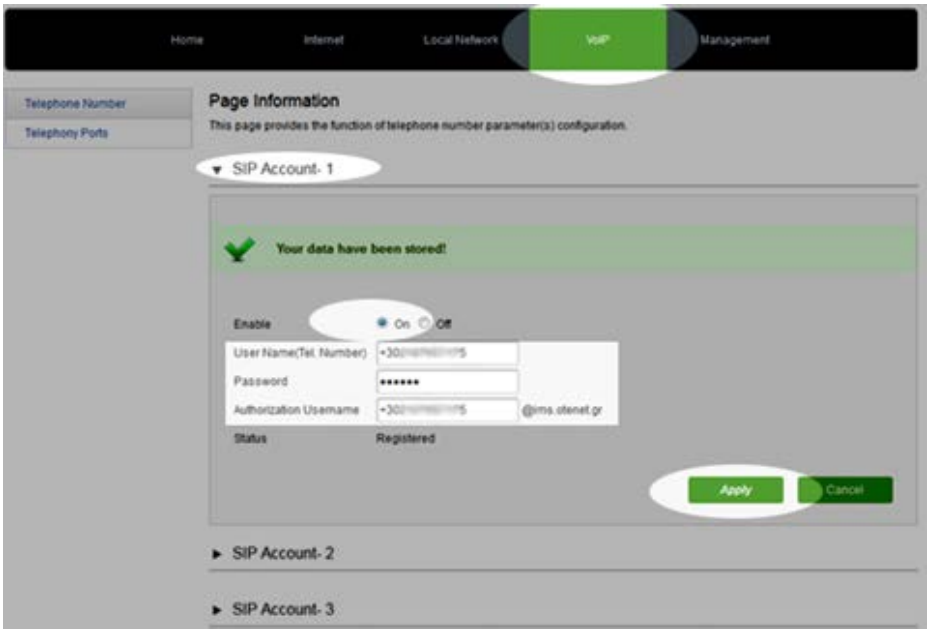
Parameter	Description
On/Off	Set radio button to **On** to enable the function of SIP accounts.
User Name (Tel. Number)	Registered name of a SIP subscriber. Normally, it is the phone number of the subscriber (starting with **+30**).
Password	Password for VoIP service authentication by the IMS system. **The password is completed automatically by the IMS system, but in case of a problem contact with the phone number 13888 for the help desk (see Step 5 below).**
Authorization Username	Username for authentication by the IMS system (starting with **+30**). It is the same phone number as in the field “User Name (Tel. Number)”.

3. You will see the message "**Your data have been stored!**" and the **TELEPHONY** LED will light, as it is shown in Figure 5-2 .
4. The **Status** of the SIP Account will change to "**Registered**" as shown in Figure 5-1.

Figure 5-2 The TELEPHONY LED in Speedport Entry 2i

5. If the message "**Registered**" does not appear or the **TELEPHONY** LED is not steadily lit, then you have to contact with the **13888 (help desk)**.
6. If you have a 2nd Tel. Number, then you have to proceed, as was described above, for the insertion of the parameters for the **SIP Account-2 (SIP-2),** as it is described in Figure 5-3.
7. Click **Apply**.

Figure 5-3 SIP Accounts Page



Note: In case you have more than one telephone numbers (BRA with MSN), the above procedure is done only for the main number.

– End of Steps –

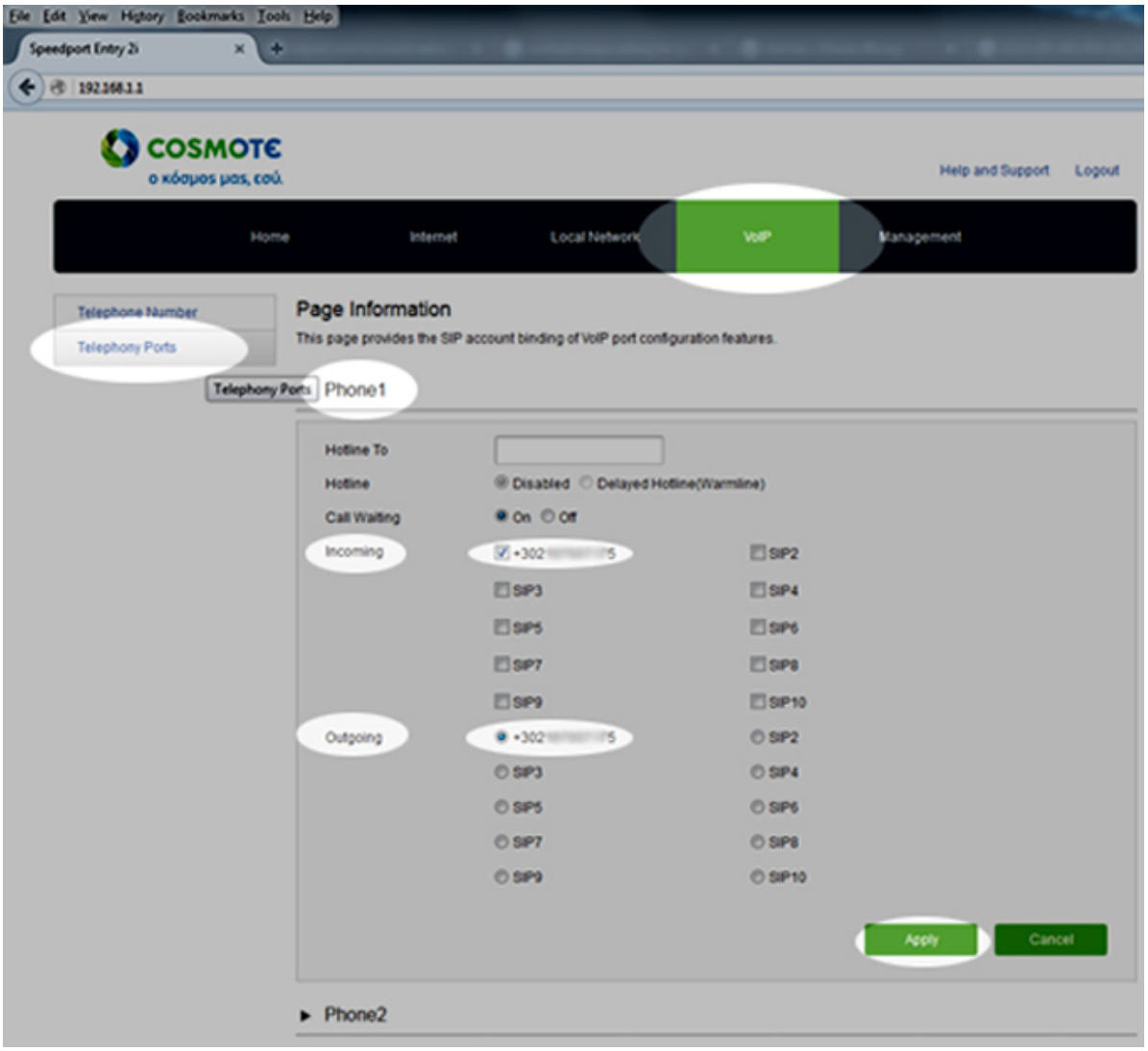
5.2. Configure the Binding of VoIP port

This page provides the SIP account binding of VoIP port configuration features.

Steps

1. Select **VoIP > Telephony Ports**. The VoIP port page is displayed, as shown in Figure 5-4.

Figure 5-4 VoIP port Page



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

Table 5-2 Parameter Descriptions for the Binding of VoIP port

Parameter	Description
Hotline To	Hot line number which is dialed automatically when the user picks up the headset of the phone. It is valid only if the **delayed hot line** function is enabled (see just below).
Hotline	• **Disabled**: hotline service deactivated • **Delayed Hotline (Warmline**): hotline service activated **The hotline service must be network enabled only after the customer's request.**
Call Waiting	Set radio button to **On** to enable call waiting function (local operation). Must be network-enabled.
Incoming	Bind the **SIP** account e.g. **SIP Account-1** or **SIP1** that is configured for each **Phone** port that is **Phone 1 or 2** for incoming calls.
Outgoing	Bind the **SIP** account e.g. **SIP Account-1** or **SIP1** that is configured for each **Phone** port that is **Phone 1 or 2** for outgoing calls.

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

– End of Steps –

Chapter 6. Configure the Management and Diagnosis

Table of Contents

6.1. Check the Device Status

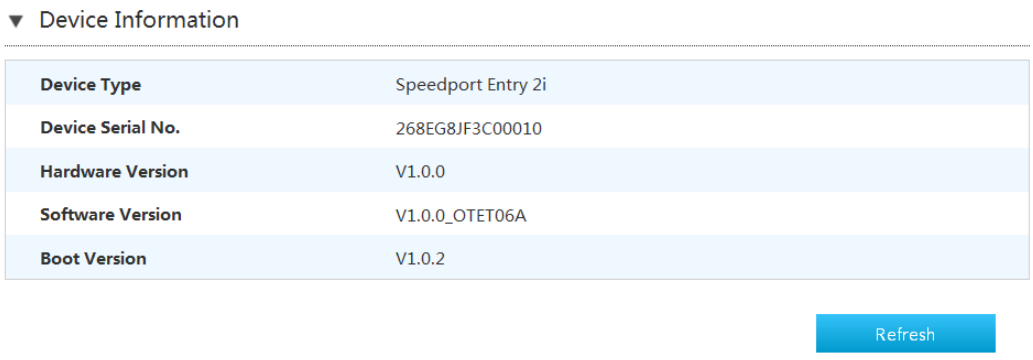
The relevant information of device status is shown as below.

Steps

1. On the main page of the Speedport Entry 2i, select **Management > 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

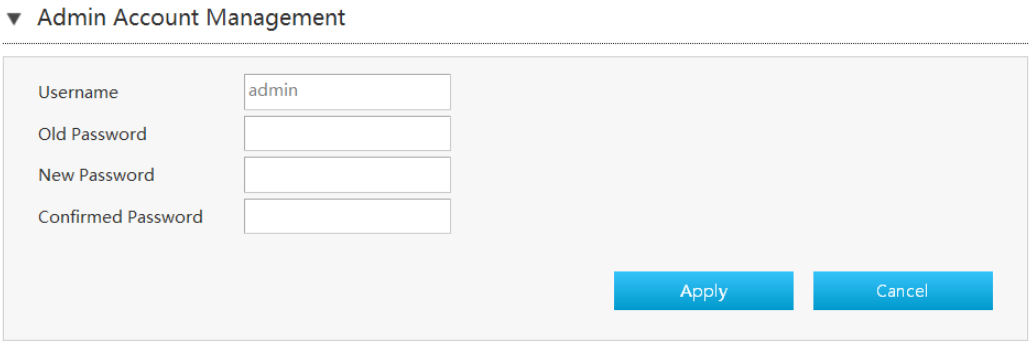
This procedure introduces how to manage the user accounts and rights.

Steps

1. On the main page of the Speedport Entry 2i, select **Management > Account Management** to go to the **Account Management** page.

   The page is shown in Figure 6-2.

Figure 6-2 Account Management Page



2. Configure the administrator account management parameters.

   Table 6-1 lists the administrator account management parameters.

Table 6-1 Parameter Descriptions for the Administrator Account Management

Parameter	Description
Username	The username for the administrator privilege. The default user name of the administrator privilege is `admin`, which cannot be modified.
Old Password	Insert the old password that you want to change
New Password	Specify the new password.
Confirmed Password	Confirm the new password.

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

– End of Steps –

6.3. Configure the Login Timeout

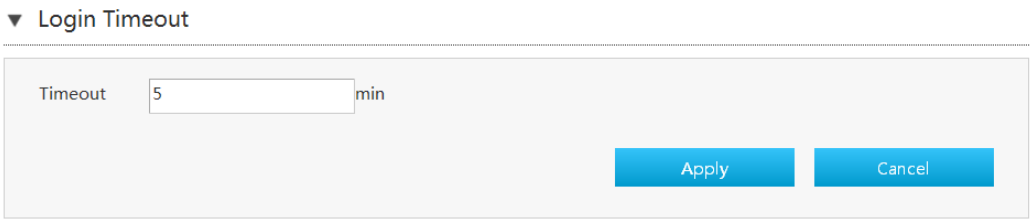
This procedure introduces how to configure the login timeout.

Steps

1. On the main page of the Speedport Entry 2i, select **Management > Login Timeout** to go to the **Login Timeout** page.

The page is shown in Figure 6-3.

Figure 6-3 Login Timeout Configuration Page



2. Specify the time in the **Timeout** text box, range: 1~30 min (default is 5 min)
3. Click **Apply** button to apply the changes.

– End of Steps –

6.4. Configure the System Management

6.4.1. Configure the Device Management

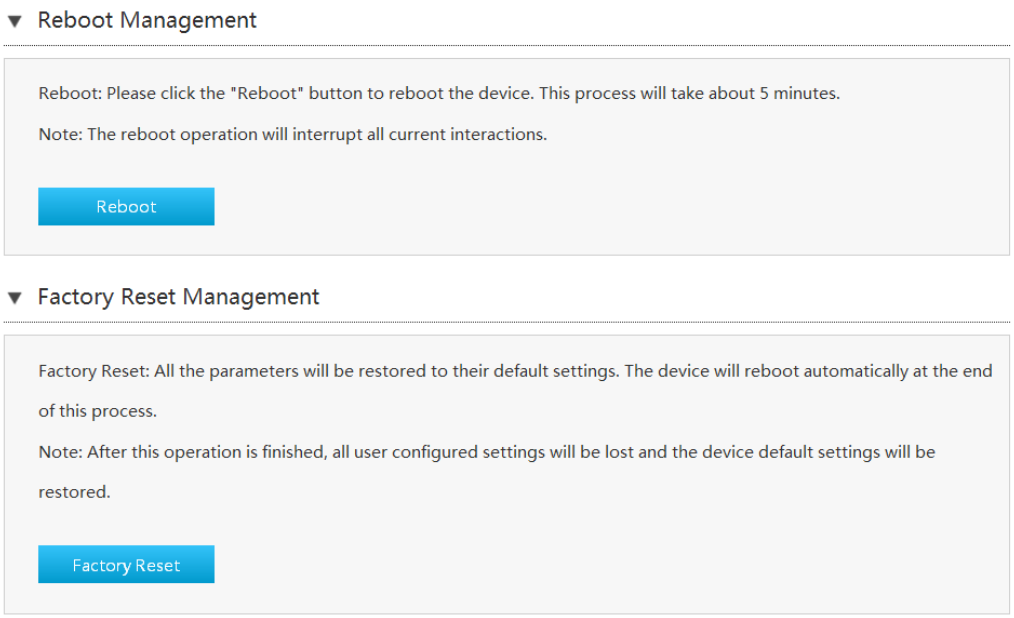
This procedure introduces how to reboot the device or restore the factory default settings.

Steps

1. On the main page of the Speedport Entry 2i, select **Management > System Management > Device Management** to go to the **Device Management** page.

   The page is shown in Figure 6-4.

Figure 6-4 Device Management Page



2. On this page, you can perform the following operations:
   - Click **Reboot** to reboot the Speedport Entry 2i device.
   - Click **Factory Reset** to restore the factory default settings.

– End of Steps –

6.4.2. Upgrade Software

This procedure introduces how to upgrade Software.

Prerequisite

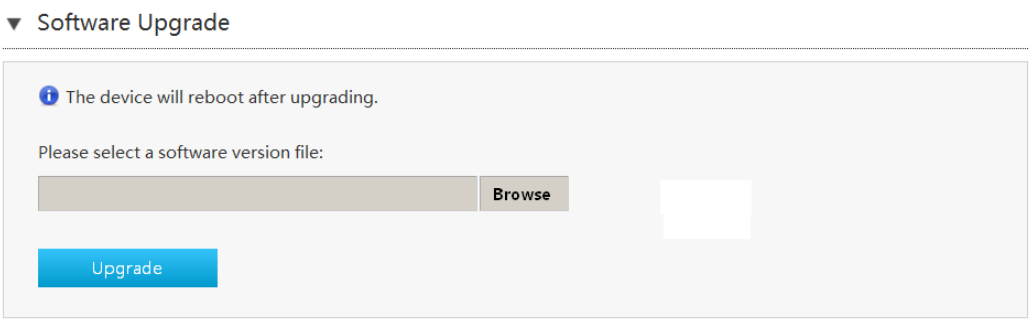
Before upgrading software, make sure that the upgrade file is ready.

Steps

1. On the main page of the Speedport Entry 2i, select **Management > System Management > Software Upgrade** to go to the **Software Upgrade** page.

   The page is shown in Figure 6-5.

Figure 6-5 Software 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, do not cut off the power supply. Otherwise, the device may be damaged.

Generally, the software is upgraded by the Remote Management Server. If the user wants to upgrade the Firmware locally, obtain the latest Firmware version from www.cosmote.gr website.

– End of Steps –

6.4.3. Manage the User Configuration

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

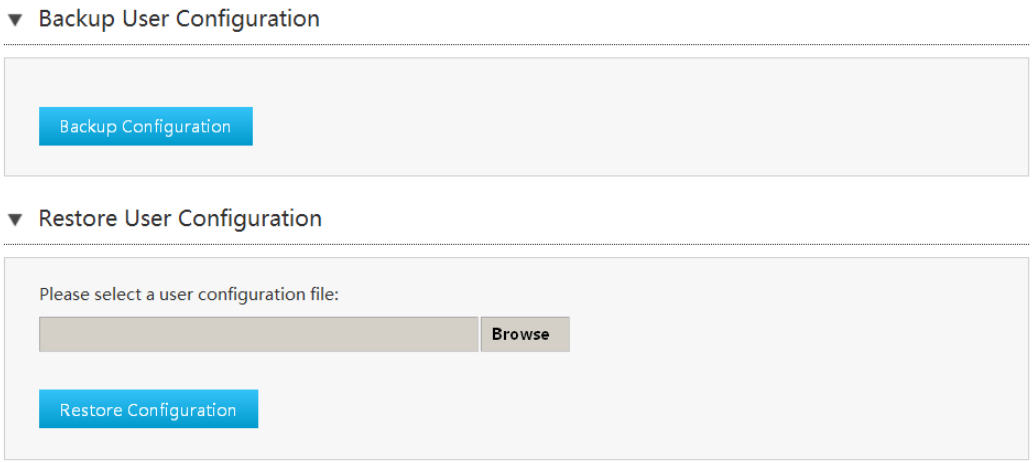
User configuration refers to the customized configuration based on the factory defaults. The user can configure the device settings based on his own requirements, and the configuration can be backed up.

Steps

1. On the main page of the Speedport Entry 2i, select **Management > System Management > User Configuration Management** to go to the **User Configuration Management** page.

   The page is shown in Figure 6-6.

Figure 6-6 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. Check the TR-069

TR-069 provides the parameters of the TR-069 configuration features.

Steps

1. On the main page of the Speedport Entry 2i, select **Management > TR-069** to go to the **TR-069** page.

   The page is shown in Figure 6-7.

Figure 6-7 TR-069 Configuration Page

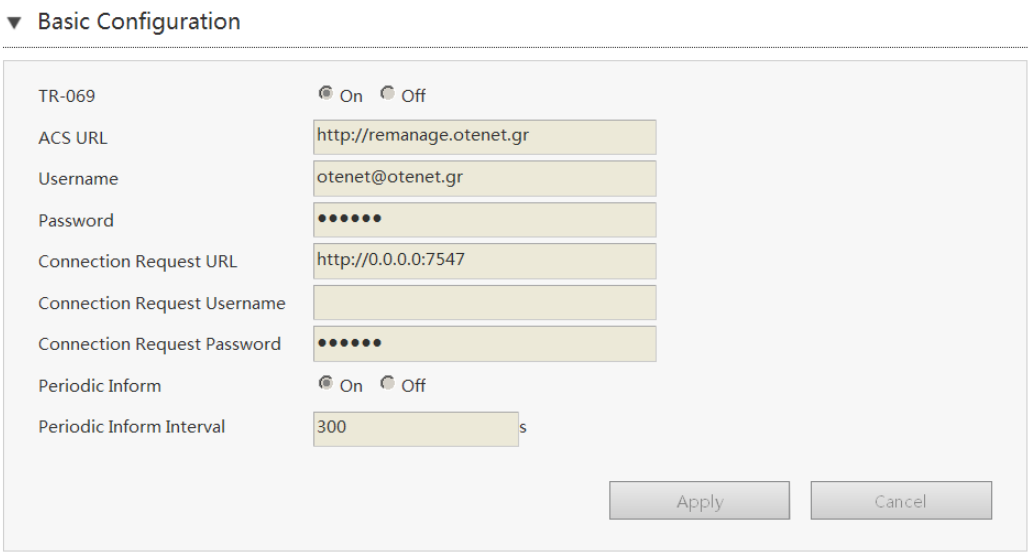


Table 6-2 lists the TR-069 basic parameters.

Table 6-2 Parameter Descriptions for the TR-069

Parameter	Description
On/Off	The button to enable/disable the function.
ACS URL	The URL of the automatic configuration server that manages the device.
Username/Password	User name and password for the Speedport Entry 2i 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 Speedport Entry 2i device.
Periodic Inform	Enable the periodic inform function.
Periodic Inform Interval	Periodic inform interval of the device (in seconds).

– End of Steps –

6.6. Manage the Log

This procedure introduces how to manage the log.

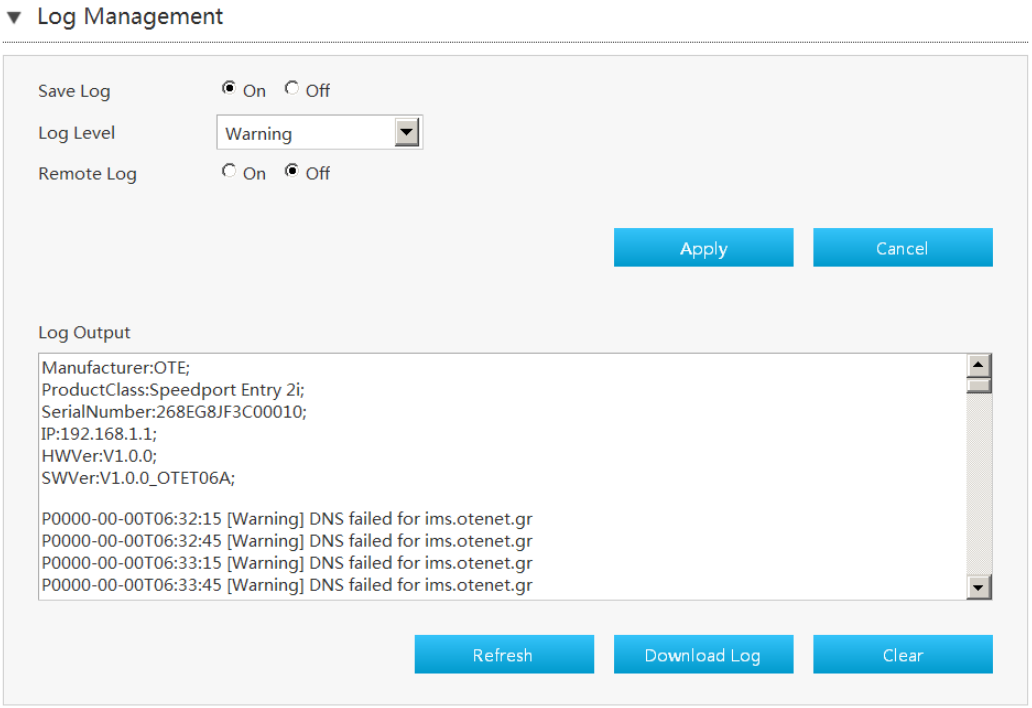
Steps

1. On the main page of the Speedport Entry 2i, select **Management > Log Management**

   to go to the **Log Management** page.

   The page is shown in Figure 6-8.

Figure 6-8 Log Management Page



2. Configure the log management parameters.

   Table 6-3 lists the Log Management parameters.

Table 6-3 Parameter Descriptions for the Log Management

Parameter	Description
Save Log	Select this option to save logs.
Log Level	The options are listed in a descending order, and the Emergency is the highest level. When the log level is configured, only the logs of the configured log level and higher are saved.
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 **Refresh** to refresh the information.
6. (Optional) Click Download Log to download the log file from the log server.
7. (Optional) Click Clear to clear the logs.

– End of Steps –

6.7. Diagnosis

The section describes how to diagnose connectivity issues. **Diagnosis** provides the parameters of the Diagnosis configuration features.

The relevant information includes ping diagnosis, trace route diagnosis, DSL line diagnosis and simulation.

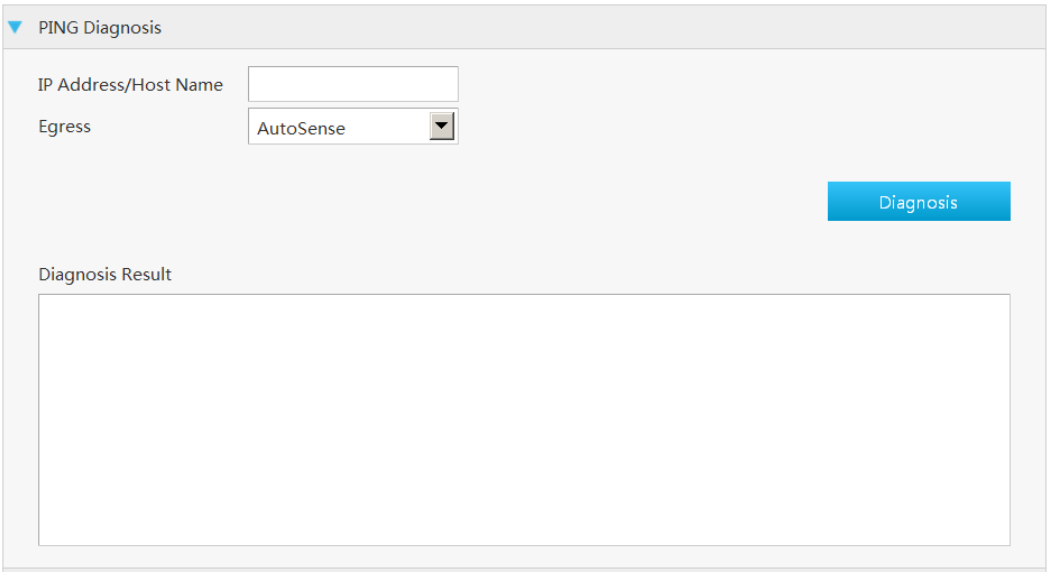
Steps

1. On the main page of the Speedport Entry 2i, select **Management > Diagnosis** to go to the **Diagnosis** page.

Ping Diagnosis

2. Click PING Diagnosis to open **Ping Diagnosis** page, as shown in Figure 6-9.

Figure 6-9 Ping Diagnosis Page



3. Set the parameters. For a description of the parameters, refer to Table 6-4.

Table 6-4 Ping Diagnosis Parameter Descriptions

Parameter	Description
IP Address or Host Name	Destination IP address or host name to check connectivity to.
Egress	Data direction.

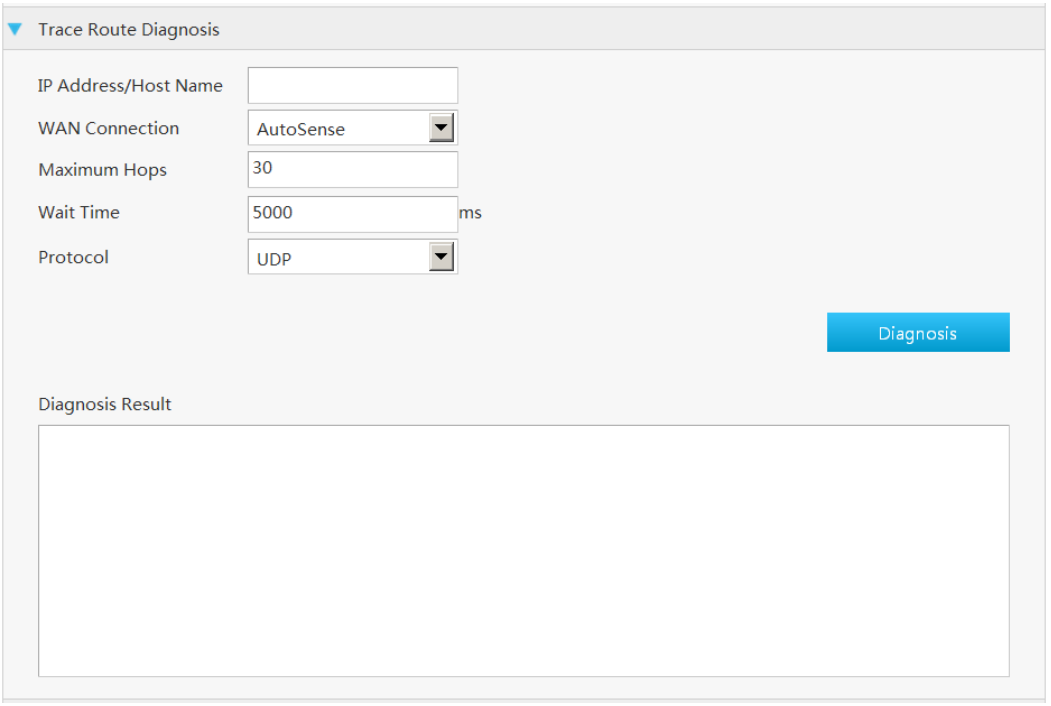
4. Click **Diagnosis** to diagnose the connection. The system will display the diagnosis results.

6.8. Trace Route Diagnosis

5. Click Trace Route Diagnosis.

   The page is shown in Figure 6-10.

Figure 6-10 Trace Route Diagnosis Page



6. Set the parameters. For the description of the parameters, refer to Table 6-5.

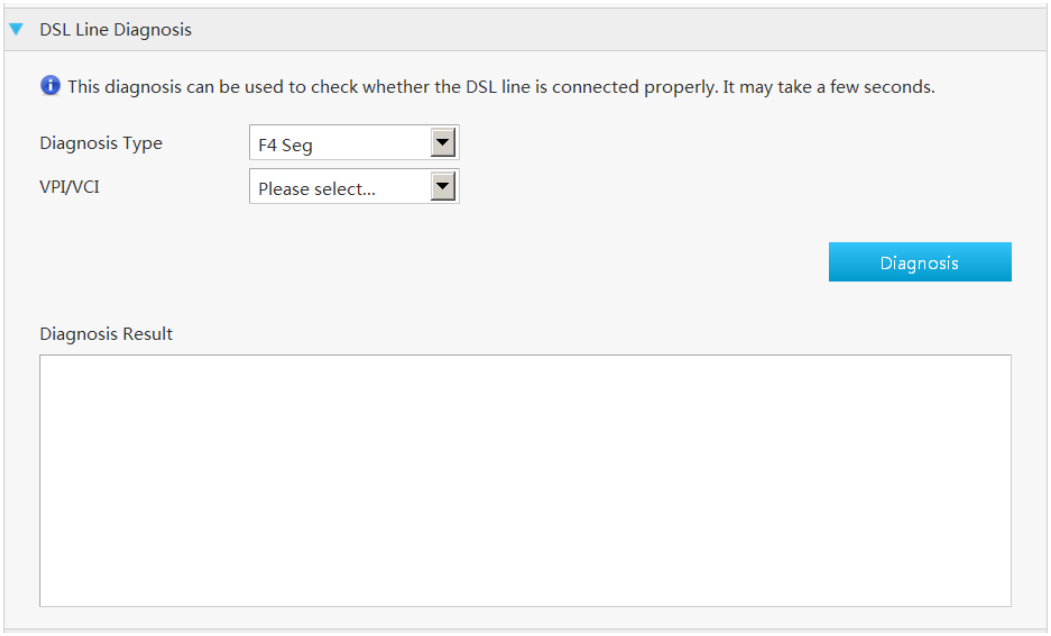
Table 6-5 Parameter Descriptions for Trace Route Diagnosis

Parameter	Description
IP Address or Host Name	Destination IP address or host name for the Trace Route operation.
WAN Connection	To select the WAN connection to be used.
Maximum Hops	Maximum number of hops that the Trace Route packets require for arriving at the destination, default: 30.
Wait Time (in ms)	Time allowed for receiving a response in milliseconds (ms). If no response is received during this period, an asterisk is displayed. If multiple asterisks are displayed, it indicates that the corresponding node fails.
Protocol	Options: UDP and ICMP.

7. After the configuration, click **Diagnosis** to diagnose the connection. The system will display the diagnosis results.

8. Click DSL Line Diagnosis. The page is shown in Figure 6-11.

Figure 6-11 DSL Line Diagnosis Page



9. Select the **Diagnosis Type** and **VPI/VCI**.
10. Click **Diagnosis** to diagnose the connection.

NOTE Note:

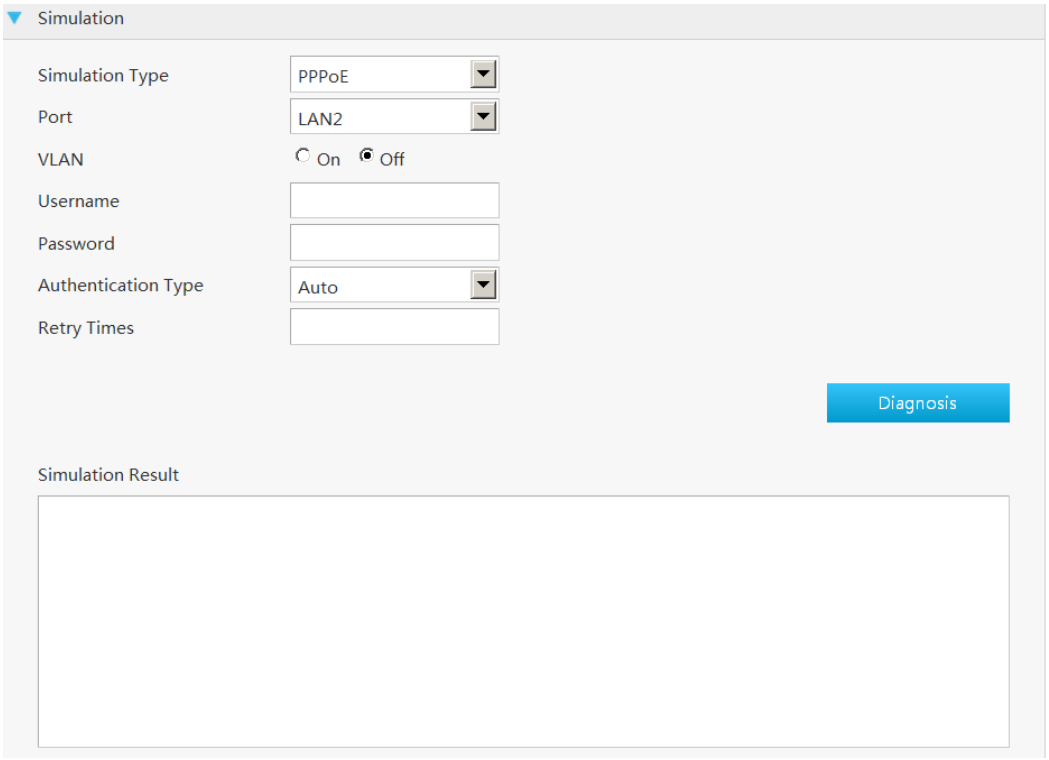
This test may take a few seconds to complete.

Simulation

11. Click Simulation.

The page is shown in Figure 6-12.

Figure 6-12 Simulation Page



12. Set the parameters. For a description of the parameters, refer to Table 6-6.

Table 6-6 Simulation Parameter Descriptions

Parameter	Description
Simulation Type	Simulated service type. Options: PPPoE and IPoE.
Port	Port on the user side that the simulation will use.
VLAN	Specifies whether to carry a VLAN tag in the packets sent over the WAN connection. By default, this check box is not selected. If it is selected, a VLAN tag is carried in the packets sent over the WAN connection, and the **VLAN ID** and **802.1p** parameters must be set.
VLAN ID.	Identifies a VLAN. Range: 1–4094. To ensure normal service operation, the VLAN ID must be the same as that set in by the network service provider who will inform the user about the value of the VLAN ID field.
802.1p	If VLAN is enabled, you can modify service priority through this parameter. Range: 0–7. A higher number indicates a higher priority.
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.

Parameter	Description
Authentication Type	It must be the same as that set on the peer server. Normally, it is set to **Auto**. ▌ **Auto**: The device automatically selects an authentication type based on the authentication types that the peer server supports. ▌ **PAP**: Only the PAP type is used. ▌ **CHAP**: Only the CHAP type is used.
Retry Times	Number of retries.

13. Click **Diagnosis**. The system starts simulation. The result is displayed in the bottom box.

– End of Steps –

Caution!

- Please don't refresh this page while diagnosing, otherwise the diagnosis result may be displayed incorrectly.
- If a new diagnosis is triggered when the current diagnosis is still running, the device will only respond to the new diagnosis, and the current diagnostic result will not be saved.

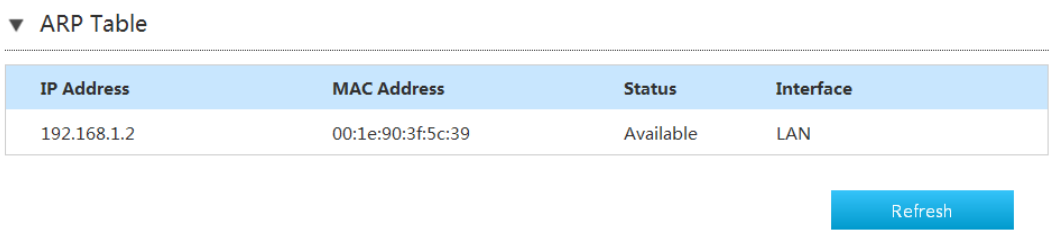
6.9. Check the ARP Table

The relevant information of ARP table is shown as below.

Steps

1. On the main page of the Speedport Entry 2i, select **Management > ARP Table** to go to the **ARP Table** page, as shown in Figure 6-13.

Figure 6-13 ARP Table Page



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

– End of Steps –

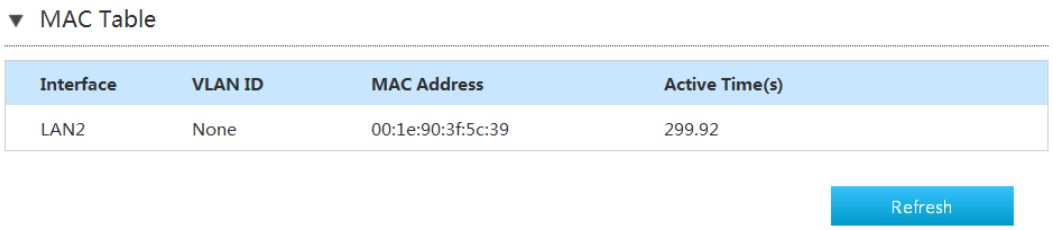
6.10. Check the MAC Table

The relevant information of MAC table is shown as below.

Steps

1. On the main page of the Speedport Entry 2i, select **Management > MAC Table** to go to the **MAC Table** page, as shown in Figure 6-14.

Figure 6-14 MAC Table Page



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

– End of Steps –

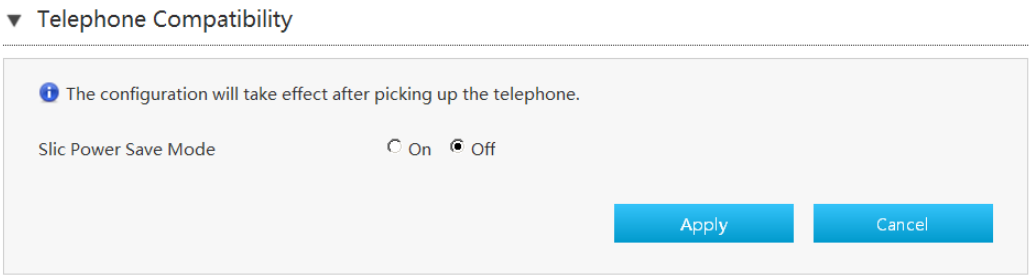
6.11. Configure the Telephone Compatibility

This page provides the function of telephone compatible configuration.

Steps

1. On the main page of the Speedport Entry 2i, select **Management > Telephone Compatibility** to go to the **Telephone Compatibility** page, as shown in Figure 6-15.

Figure 6-15 Telephone Compatibility Page



2. Set radio button to **On** to enable the power save function.
3. Click **Apply** button to apply the changes.

– End of Steps –

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Abbreviations

Acronym	Description
802.1p	a 3-bit value in the MAC header to indicate prioritization for Layer 2 devices
ACL	Access List
ACS	Auto Configuration Server
ADSL	Asynchronous Digital Subscriber Line
AES	Advanced Encryption Standard
ALG	Application Layer Gateway
AP	Access Point
APN	Access Point Name
ARP	Address Resolution Protocol
ATM	Asynchronous Transfer Mode
BE	Best Effort
bps.	bits per second
CBR	Constant Bit Rate
CHAP	Challenge Handshake Authentication Protocol
CPE	Customer Premises Equipment
DHCP	Dynamic Host Configuration Protocol
DHCPv6	Dynamic Host Configuration Protocol version 6
DMZ	Demilitarized Zone
DNS	Domain Name System
DDNS	Dynamic Domain Name System
DSLAM	Digital Subscriber Line Access Multiplexer
GUA	Global Unicast Address
ICMP	Internet Control Message Protocol
IGMP	Internet Group Management Protocol
IP	Internet Protocol
IPoA	Internet Protocol over ATM
IPTV	IP Television
IPv4	Internet Protocol version 4
IPv6	Internet Protocol version 6
ISP	Internet Service Provider
LAN	Local Area Network
MAC	Media Access Control
MBS	Maximum Burst Size
MDI/MDIX	Medium Dependent Interface/ Medium Dependent Interface Crossover
mins	minutes
MP3	MPEG-1 or MPEG-2 Audio Layer III
ms.	milliseconds
MDU	Multi-Dwelling Unit
MLD	Multicast Listener Discovery
MTU	Maximum Transmission Unit
NAS	Network Attached Storage
NAT	Network Address Translation
NTFS	New Technology File System
NTP	Network Time Protocol

PAP	Password Authentication Protocol
PC	Personal Computer
PCR	Peak Cell Rate
PD	Prefix Delegation
PNG	Portable Network Graphics
POTS	Plain Old Telephony Service
PPP	Point-to-Point Protocol
PPPoA	Point-to-Point Protocol over ATM
PPPoE	PPP over Ethernet
PTM	Packet Transfer Mode
QoS	Quality of Service
RA	Router Advertisement
RIP	Routing IP Protocol
s.	seconds
SCR	Sustainable Cell Rate
SIP	Session Initiation Protocol
SLAAC	Stateless Address Autoconfiguration
SNMP	Simple Network Management Protocol
SNR	Signal Noise Ratio
SNTP	Simple Network Time Protocol
SP	Strict Priority
SPI	Security Parameter Index
SSID	Service Set Identifier
SSL	Secure Sockets Layer
TCP	Transmission Control Protocol
TCP ACK	TCP Acknowledgement
TKIP	Temporal Key Integration Protocol
TLS	Transport Layer Security
ToS	Type of Service
UBR	Unspecified Bit Rate
UDP	User Datagram Protocol
UPnP	Universal Plug and Play
URL	Uniform Resource Locator
UTP	Unshielded Twisted Pair
VBR	Variable Bit Rate
VBR-rt	Variable Bit Rate – real time
VBR-nrt	Variable Bit Rate – non real time
VCI	Virtual Circuit Identifier
VDSL2	Very high bit rate Digital Subscriber Line 2
VLAN	Virtual Local Area Network
VoIP	Voice over IP
VPI	Virtual Path Identifier
VPN	Virtual Private Network
WAN	Wide Area Network
WDS	Wireless Distribution System
WEP	Wired Equivalent Privacy
WFQ	Weighted Fair Queuing
WLAN	Wireless LAN
WMM	Wi-Fi Multimedia
WPA	Wi-Fi Protected Access

WPA2	Wi-Fi Protected Access 2
WPS	Wi-Fi Protected Setup
xDSL	x Digital Subscriber Line

Figures

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Tables