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# **Gigabit PoE Switch Web**

**User Manual**

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FCC compliance: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

### EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: <http://www.recyclethis.info>.



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: <http://www.recyclethis.info>.

### **Industry Canada ICES-003 Compliance**

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

## Preface

### Applicable Models

This manual is applicable to DS-3E15XXP series switch and guides you to complete the configuration and operation of the switch.

### About the Default

- Default administrator account: admin.
- Default IP address: 192.168.1.64.

### Symbol Conventions

The symbols that may be found in this document are defined as follows.

| Symbol                                                                                             | Description                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>Danger</b>  | Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.                                                         |
|  <b>Caution</b> | Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results. |
|  <b>Note</b>    | Provides additional information to emphasize or supplement important points of the main text.                                                                   |

### Safety Instruction

#### **Danger**

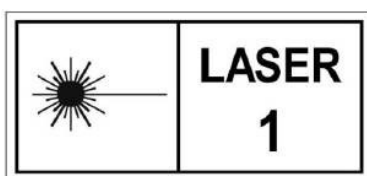
- This is a class A product and may cause radio interference in which case the user may be required to take adequate measures.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- The socket-outlet shall be installed near the device and shall be easily accessible.
- The device must be connected to an earthed mains socket-outlet.
- Install the device according to the instructions in this manual.
- ⚡ indicates hazardous live and the external wiring connected to the terminals requires installation by an instructed person.

- Keep body parts away from fan blades. Disconnect the power source during servicing.
- Never place the device in an unstable location. The device may fall, causing serious personal injury or death.
- This device is not suitable for use in locations where children are likely to be present.
- CAUTION: Risk of explosion if the battery is replaced by an incorrect type.
- Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
- Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.
- Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas. Dispose of used batteries according to the instructions.



### Caution

- CAUTION: Double pole/Neutral fusing. After operation of the fuse, parts of the device that remain energized might represent a hazard during servicing.
- The device has been designed, when required, modified for connection to an IT power distribution system.
- This device is suitable for mounting on concrete or other non-combustible surface only.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc. The openings shall never be blocked by placing the device on a bed, sofa, rug or other similar surface.
- No naked flame sources, such as lighted candles, should be placed on the device.
- The device shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the device.
- Burned fingers when handling the cover area of the device. Wait one-half hour after switching off before handling the parts.
- CLASS 1 LASER PRODUCT



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## Chapter 1 Introduction

DS-3E15XXP series switches are layer 2 PoE switches, providing advanced PoE power supply technology and gigabit networks design on the basis of high-performance access. The switches support Web management, and various layer 2 management protocols such as STP/RSTP, VLAN, link aggregation, SNMP, QoS to ensure stable data upload.

## Chapter 2 Activation and Login

For the first time usage, you must activate the switch and configure the password.

### Before You Start

The computer and the switch are on the same network segment.

### Steps

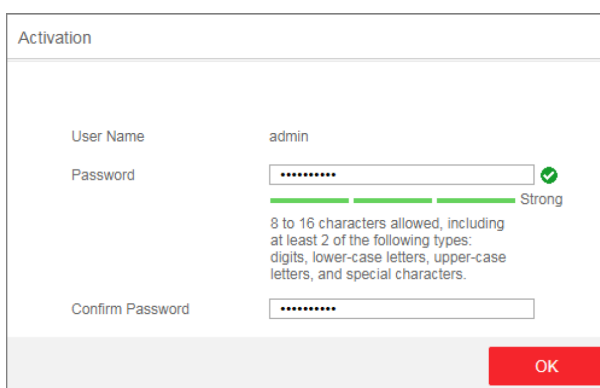


#### Note

Take DS-3E1510P as an example. All figures in this manual are for illustration purpose only.

---

1. Enter the default IP 192.168.1.64 in the browser address bar.



The screenshot shows the 'Activation' page of a web interface. It contains three input fields: 'User Name' with the value 'admin', 'Password' with a masked password and a green checkmark indicating it is strong, and 'Confirm Password' with a masked password. Below the password fields, there is a text box explaining the password requirements: '8 to 16 characters allowed, including at least 2 of the following types: digits, lower-case letters, upper-case letters, and special characters.' A red 'OK' button is located at the bottom right of the form.

Figure 2-1 Activation



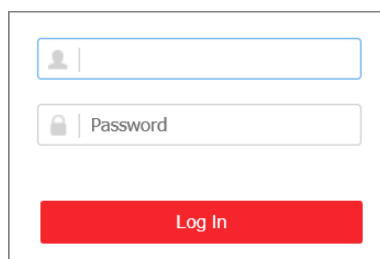
#### Note

You are recommended to use the newest version of the following browsers: IE 10+, Edge, and Chrome 31+.

---

2. Configure the password and confirm it.
3. Click **OK**.

Go to the login page.

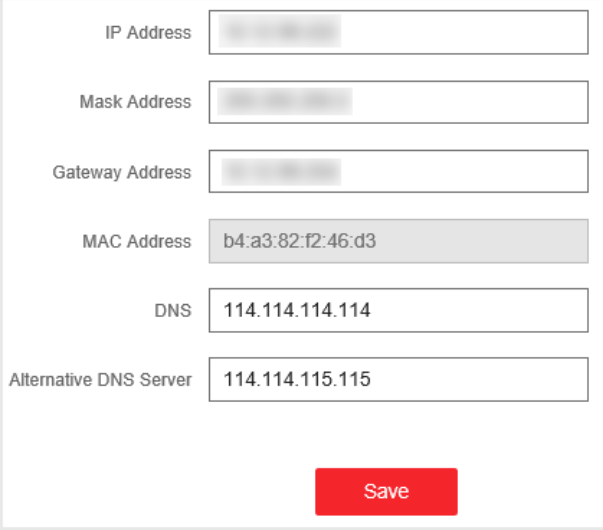


The screenshot shows the 'Login' page of a web interface. It contains two input fields: 'User Name' with a user icon and 'Password' with a lock icon. Below the input fields, there is a red 'Log In' button.

Figure 2-2 Login

4. Enter the **User Name** and **Password**, and click **Log In**.
5. **Optional:** Change the network configuration.

- 1) Go to **System Management** → **Network Configuration** .



The image shows a web form for network configuration. It contains six input fields: IP Address, Mask Address, Gateway Address, MAC Address, DNS, and Alternative DNS Server. The MAC Address field is pre-filled with 'b4:a3:82:f2:46:d3'. The DNS field is pre-filled with '114.114.114.114'. The Alternative DNS Server field is pre-filled with '114.114.115.115'. A red 'Save' button is located at the bottom right of the form.

|                        |                   |
|------------------------|-------------------|
| IP Address             |                   |
| Mask Address           |                   |
| Gateway Address        |                   |
| MAC Address            | b4:a3:82:f2:46:d3 |
| DNS                    | 114.114.114.114   |
| Alternative DNS Server | 114.114.115.115   |

Save

**Figure 2-3 Network Configuration**

- 2) Change the IP address, mask address, the gateway address, DNS and alternative DNS as needed. You can log in to the switch with the new IP address next time.



**Note**

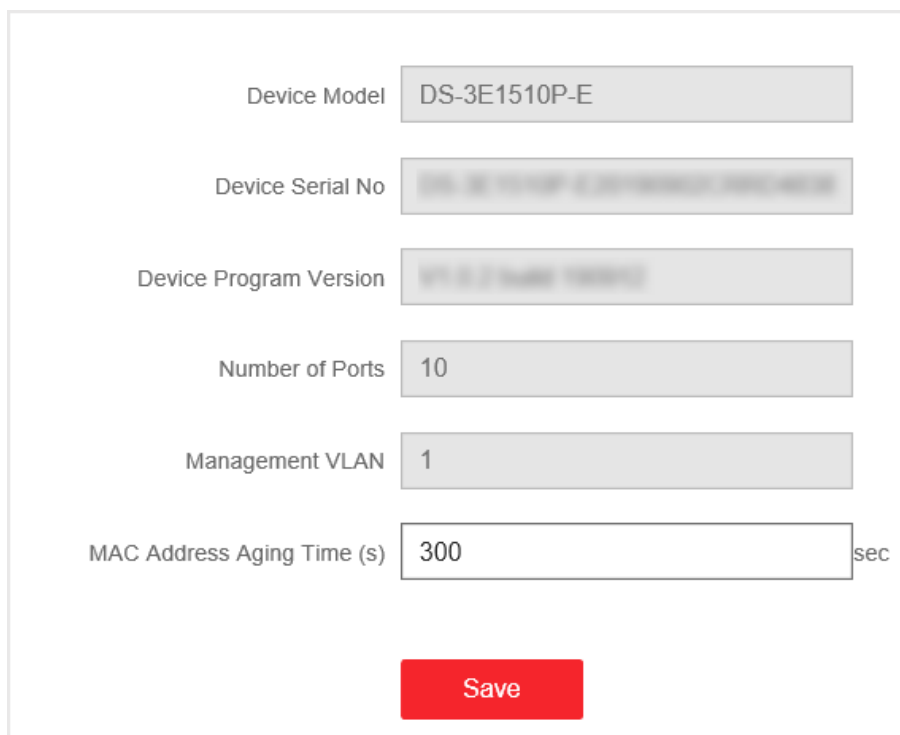
You are recommended to change the network configuration to better manage the switch.

---

## Chapter 3 Device Management

After logging in to the Web, you can go to **Device Status** to view the device status, including the device information, working status, port status, port statistics, and PoE status.

### Device Information



The screenshot shows a web interface for configuring device information. It contains six input fields with labels on the left and values inside the fields. The fields are: Device Model (DS-3E1510P-E), Device Serial No (a blurred serial number), Device Program Version (V1.0.2.0000.0000), Number of Ports (10), Management VLAN (1), and MAC Address Aging Time (s) (300). A red 'Save' button is located at the bottom center of the form.

|                            |                         |
|----------------------------|-------------------------|
| Device Model               | DS-3E1510P-E            |
| Device Serial No           | [Blurred Serial Number] |
| Device Program Version     | V1.0.2.0000.0000        |
| Number of Ports            | 10                      |
| Management VLAN            | 1                       |
| MAC Address Aging Time (s) | 300                     |

sec

Save

**Figure 3-1 Device Information**

- **Management VLAN:** The management VLAN is VLAN 1 by default that cannot be edited.
- **MAC Address Aging Time:** Aging time for MAC address table entries. The default is 300 seconds that cannot be edited.

Working Status

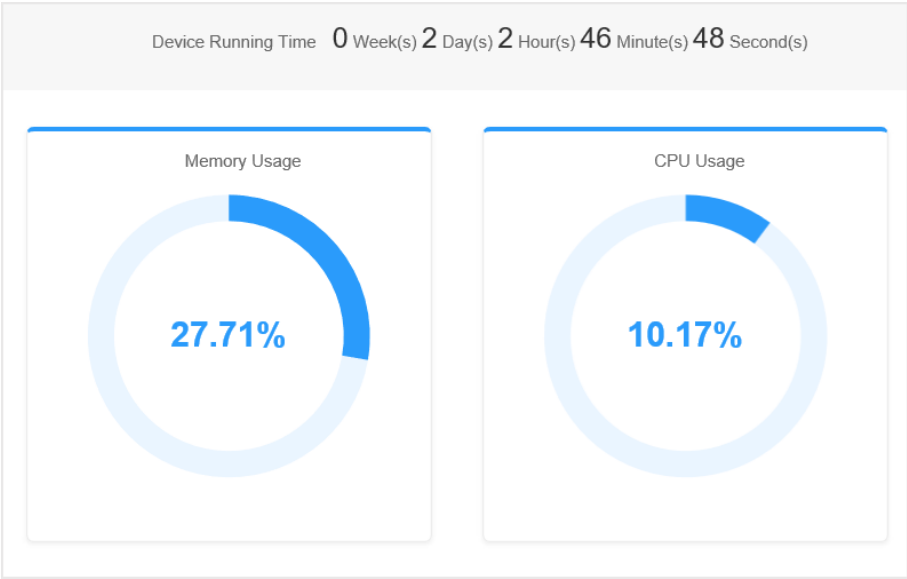


Figure 3-2 Working Status

View the device running time, memory usage, and CPU usage.

Port Status

| Port Name | Connection Status | Rate  | Duplex      | Flow Control |
|-----------|-------------------|-------|-------------|--------------|
| Ge1       | Disconnected      | -     | -           | -            |
| Ge2       | Connected         | 1000M | Full-Duplex | Off          |
| Ge3       | Disconnected      | -     | -           | -            |
| Ge4       | Connected         | 1000M | Full-Duplex | Off          |
| Ge5       | Disconnected      | -     | -           | -            |
| Ge6       | Disconnected      | -     | -           | -            |
| Ge7       | Disconnected      | -     | -           | -            |
| Ge8       | Connected         | 1000M | Full-Duplex | On           |
| Ge9       | Connected         | 1000M | Full-Duplex | On           |
| Ge10      | Disconnected      | -     | -           | -            |

Figure 3-3 Port Status

View the connection status, rate, duplex, and flow control of all ports.

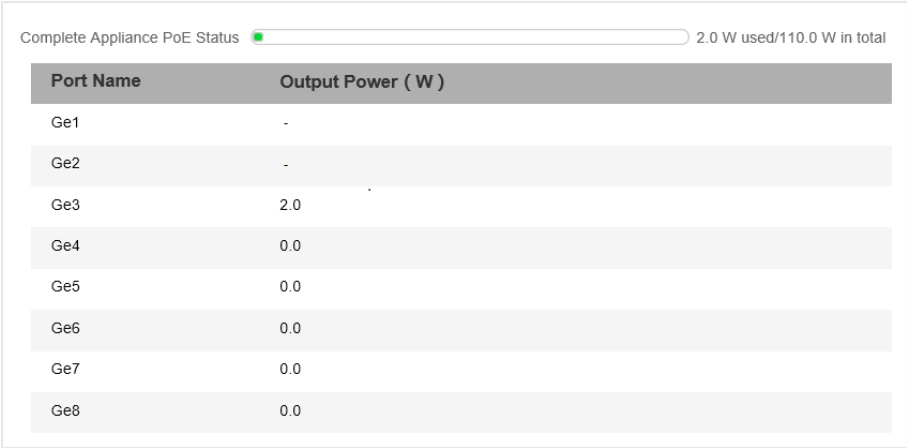
Port Statistics

| Refreshing Rate: 30 sec <input type="button" value="Refresh"/> <input type="button" value="Reset"/> |                      |                        |              |                          |                            |                |
|-----------------------------------------------------------------------------------------------------|----------------------|------------------------|--------------|--------------------------|----------------------------|----------------|
| Port                                                                                                | Number of Bytes Sent | Number of Packets Sent | Sending Rate | Number of Bytes Received | Number of Packets Received | Receiving Rate |
| Ge1                                                                                                 | -                    | -                      | -            | -                        | -                          | -              |
| Ge2                                                                                                 | -                    | -                      | -            | -                        | -                          | -              |
| Ge3                                                                                                 | 122429454            | 339425                 | 28.650Kbps   | 6796845                  | 18694                      | 768bps         |
| Ge4                                                                                                 | -                    | -                      | -            | -                        | -                          | -              |
| Ge5                                                                                                 | -                    | -                      | -            | -                        | -                          | -              |
| Ge6                                                                                                 | -                    | -                      | -            | -                        | -                          | -              |
| Ge7                                                                                                 | -                    | -                      | -            | -                        | -                          | -              |
| Ge8                                                                                                 | 23731162             | 43851                  | 34.656Kbps   | 119619685                | 339806                     | 29.388Kbps     |
| Ge9                                                                                                 | -                    | -                      | -            | -                        | -                          | -              |
| Ge10                                                                                                | 121936735            | 324630                 | 27.620Kbps   | 4769366                  | 11181                      | 522bps         |

Figure 3-4 Port Statistics

- **Refreshing Rate:** 10 sec, 30 sec, 60 sec, and **Manually Refresh** is available.
- **Refresh:** When you choose **Manually Refresh**, you can click **Refresh** to refresh the statistics.
- **Reset:** You can click **Reset** to clear all the statistics.

**PoE Status**



**Figure 3-5 PoE Status**

View the complete appliance PoE status and the output power of each PoE port.

# Chapter 4 Switch Configuration

## 4.1 Port Configuration

### 4.1.1 Attribute Configuration

The basic parameters can influence the working status of ports. Configure the parameters according to the actual situation.

**Steps**

1. Go to **Switch Configuration → Basic Configuration → Port Configuration → Attribute Configuration** .

Attribute Configuration

Port Mirroring

Port Rate-Limiting

Storm Control

Long-Range Mode

| Port Name | Speed | Duplex | Flow Control                        | Enable                              |
|-----------|-------|--------|-------------------------------------|-------------------------------------|
| Ge1       | 10M   | auto   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Ge2       | auto  | auto   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Ge3       | auto  | auto   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Ge4       | auto  | auto   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Ge5       | auto  | auto   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Ge6       | auto  | auto   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Ge7       | auto  | auto   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Ge8       | auto  | auto   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Ge9       | 1000M | full   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Ge10      | 1000M | full   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Save

Figure 4-1 Port Attribute Configuration

2. Configure the parameters.

**Speed**

The speed of data transmission of the port.

- PoE port: The default is **auto**.
- SFP fiber optical port: The default is **auto** that cannot be edited.

**Duplex**

The duplex mode of the port.

- PoE port: The default is **auto** that cannot be edited.
- SFP fiber optical port: The default is **auto** that cannot be edited.

**Flow Control**

Enabling the flow control can prevent data loss in data transmission.

Enable

Enable or disable the port link.

3. Click **Save** to complete the configuration.

4.1.2 Port Mirroring

Port mirroring monitors network traffic by sending copies of all incoming and outgoing packets from one port to a mirroring port.

Steps

1. Go to **Switch Configuration → Basic Configuration → Port Configuration → Port Mirroring** .

Attribute Configuration

Port Mirroring

Port Rate-Limiting

Storm Control

Long-Range Mode

Port Mirroring

☒ Enable

Mirror Port

Ge3

Mirror Source Configuration

| Port Name | Mirror Direction     |
|-----------|----------------------|
| Ge1       | Disable Mirror       |
| Ge2       | Inbound              |
| Ge4       | Outbound             |
| Ge5       | Inbound and Outbound |
| Ge6       | Disable Mirror       |
| Ge7       | Disable Mirror       |
| Ge8       | Disable Mirror       |
| Ge9       | Disable Mirror       |
| Ge10      | Disable Mirror       |

Save

Figure 4-2 Port Mirroring

2. Check **Enable** of **Port Mirroring**.
3. Configure the parameters according to the actual situation.

Table 4-1 Parameters of Port Mirroring

| Parameter   | Description        |
|-------------|--------------------|
| Mirror Port | Surveillance port. |

| Parameter        | Description                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | You can only set one port as the mirror port.                                                                                                                                                                                                                                                                                                                                                                     |
| Mirror Source    | The port that is under surveillance.<br>You can set one or more ports as the mirror source.                                                                                                                                                                                                                                                                                                                       |
| Mirror Direction | Surveillance direction. <ul style="list-style-type: none"> <li>• <b>Disable Mirror:</b> The port is not under surveillance.</li> <li>• <b>Inbound:</b> The inbound data of the port is under surveillance.</li> <li>• <b>Outbound:</b> The outbound data of the port is under surveillance.</li> <li>• <b>Inbound and Outbound:</b> Both inbound and outbound data of the port are under surveillance.</li> </ul> |

4. Click **Save** to complete the port mirroring configuration.

## 4.1.3 Port Rate-Limiting

Configure the port sending and receiving rate according to the actual situation.

### Steps

1. Go to **Switch Configuration → Basic Configuration → Port Configuration → Port Rate-Limiting**.

| Attribute Configuration | Port Mirroring        | Port Rate-Limiting                 | Storm Control           | Long-Range Mode                      |
|-------------------------|-----------------------|------------------------------------|-------------------------|--------------------------------------|
| Port Name               | Sending Rate-Limiting | Sending Rate-Limiting Value (Mbps) | Receiving Rate-Limiting | Receiving Rate-Limiting Value (Mbps) |
| Ge1                     | Rate-Limiting         | 100                                | Rate-Limiting           | 100                                  |
| Ge2                     | No Rate-Limiting      | 1000                               | No Rate-Limiting        | 1000                                 |
| Ge3                     | No Rate-Limiting      | 1000                               | No Rate-Limiting        | 1000                                 |
| Ge4                     | No Rate-Limiting      | 1000                               | No Rate-Limiting        | 1000                                 |
| Ge5                     | No Rate-Limiting      | 1000                               | No Rate-Limiting        | 1000                                 |
| Ge6                     | No Rate-Limiting      | 1000                               | No Rate-Limiting        | 1000                                 |
| Ge7                     | No Rate-Limiting      | 1000                               | No Rate-Limiting        | 1000                                 |
| Ge8                     | No Rate-Limiting      | 1000                               | No Rate-Limiting        | 1000                                 |
| Ge9                     | No Rate-Limiting      | 1000                               | No Rate-Limiting        | 1000                                 |
| Ge10                    | No Rate-Limiting      | 1000                               | No Rate-Limiting        | 1000                                 |

**Save**

**Figure 4-3 Port Rate-Limiting**

2. Configure the parameters.

**Table 4-2 Parameters of Port Rate-Limiting**

| Parameter                     | Description                                                                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sending Rate-Limiting         | <ul style="list-style-type: none"><li>• <b>Rate-Limiting:</b> The data sending rate of the port is limited.</li><li>• <b>No Rate-Limiting:</b> The data sending rate of the port is not limited.</li></ul>     |
| Sending Rate-Limiting Value   | Only editable when the sending rate of the port is limited.<br>The range is from 1 to 1000 Mbps.                                                                                                               |
| Receiving Rate-Limiting       | <ul style="list-style-type: none"><li>• <b>Rate-Limiting:</b> The data receiving rate of the port is limited.</li><li>• <b>No Rate-Limiting:</b> The data receiving rate of the port is not limited.</li></ul> |
| Receiving Rate-Limiting Value | Only editable when the receiving rate of the port is limited.<br>The range is from 1 to 1000 Mbps.                                                                                                             |

3. Click **Save** to complete the configuration.

#### 4.1.4 Storm Control Configuration

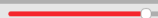
Storm control prevents the ports from being disrupted by a broadcast, multicast, or unknown unicast storm. Errors in the protocol-stack implementation, or mistakes in network configuration, can cause a storm. The storm congests the network and degrades the network performance.

The packets passing from the port will be determined by the storm control if they are unknown unicast, multicast, or broadcast. When the packets number exceeds the threshold, the incoming data is dropped.

##### Steps

1. Go to **Switch Configuration → Basic Configuration → Port Configuration → Storm Control** .

Attribute Configuration   Port Mirroring   Port Rate-Limiting   **Storm Control**   Long-Range Mode

| Port Name | Storm Control | Storm Control Mode | Rate Threshold (Mbps)                                                                                                       |
|-----------|---------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Ge1       | On            | Multicast          | 1  1000 <input type="text" value="888"/>  |
| Ge2       | Off           | Unknown Unicast    | 1  1000 <input type="text" value="1000"/> |
| Ge3       | Off           | Unknown Unicast    | 1  1000 <input type="text" value="1000"/> |
| Ge4       | Off           | Unknown Unicast    | 1  1000 <input type="text" value="1000"/> |
| Ge5       | Off           | Unknown Unicast    | 1  1000 <input type="text" value="1000"/> |
| Ge6       | Off           | Unknown Unicast    | 1  1000 <input type="text" value="1000"/> |
| Ge7       | Off           | Unknown Unicast    | 1  1000 <input type="text" value="1000"/> |
| Ge8       | Off           | Unknown Unicast    | 1  1000 <input type="text" value="1000"/> |
| Ge9       | Off           | Unknown Unicast    | 1  1000 <input type="text" value="1000"/> |
| Ge10      | Off           | Unknown Unicast    | 1  1000 <input type="text" value="1000"/> |

Save

Figure 4-4 Storm Control

- 2. Select the port on which you want to enable storm control. Configure **Storm Control** as **on**.
- 3. Configure **Storm Control Mode** as **Broadcast**, **Multicast**, or **Unknown Unicast**. The threshold applies to the chosen mode.
- 4. Configure the number of frames in Mbps that you want the port to handle in **Rate Threshold**.
- 5. Click **Save** to complete the configuration.

4.1.5 Long-Range Mode Configuration

When long-range mode is enabled, the transmission distance of the port can reach 300 meters, and the rate is 10 Mbps.

Steps

- 1. Go to **Switch Configuration → Basic Configuration → Port Configuration → Long-Range Mode** .

Attribute Configuration   Port Mirroring   Port Rate-Limiting   Storm Control   **Long-Range Mode**

| Port Name | Enable                              |
|-----------|-------------------------------------|
| Ge1       | <input checked="" type="checkbox"/> |
| Ge2       | <input checked="" type="checkbox"/> |
| Ge3       | <input type="checkbox"/>            |
| Ge4       | <input type="checkbox"/>            |
| Ge5       | <input type="checkbox"/>            |
| Ge6       | <input type="checkbox"/>            |
| Ge7       | <input type="checkbox"/>            |
| Ge8       | <input type="checkbox"/>            |

Save

Figure 4-5 Long-Range Mode Configuration

- 2. Check **Enable** of the port.
- 3. Click **Save** to complete the configuration.

4.2 Link Aggregation Configuration

Link aggregation is used to aggregate physical ports to create a logical channel. The advantages of link aggregation are higher transmission speed with wider bandwidth.

Steps

- 1. Go to **Switch Configuration → Basic Configuration → Link Aggregation → Load Balancing Configuration** to configure **Load Balancing Mode**.

Load Balancing Configuration

Aggregation Group Configuration

Load Balancing Mode

Source and Destination MAC

Save

Figure 4-6 Load Balancing

Source and Destination MAC

Load balancing is performed based on source and destination MAC addresses on all the packets.

2. Add a link aggregation group in **Aggregation Group Configuration**.

Load Balancing Configuration

Aggregation Group Configuration

+ Add

✕ Delete

ⓘ

The rate, duplex, and flow control, VLAN and long-range configuration of all ports in the aggregation group must be the same.

| Aggregation Group ID          | Group Members |
|-------------------------------|---------------|
| <input type="checkbox"/> LAG3 | Ge9,Ge10      |

Figure 4-7 Link Aggregation Group

- 1) Click **Add**.

Add Link Aggregation Group

Aggregation Group

(1~8)

Available Port List

Ge1

Ge2

Ge3

Ge4

Ge5

Ge6

Ge7

Ge8

Group Members (0)

Add >>

<< Delete

OK

Cancel

Figure 4-8 Add a Link Aggregation Group

- 2) Enter the group number in the **Aggregation Group** field. The range is from 1 to 8.
- 3) Move the ports that are to be assigned to the group from the **Available Port List** to the **Group Members** list.

---

## Note

- You can delete the ports from the **Group Members** by clicking **Delete**.
- The rate, duplex, flow control, VLAN, and long-range configuration of all ports in one aggregation group must be the same.

4) Click **OK** to add a link aggregation group.

---

## 4.3 VLAN Configuration

A Virtual Local Area Network (VLAN) is a group of devices located on different LAN segments that are configured to communicate as if they were attached to the same wire. LANs are based on logical instead of physical connections, which is flexible for device connection.

### 4.3.1 Add a VLAN

#### Steps

1. Go to **Switch Configuration** → **Basic Configuration** → **VLAN** → **802.1Q VLAN**.
2. Click **Add**.

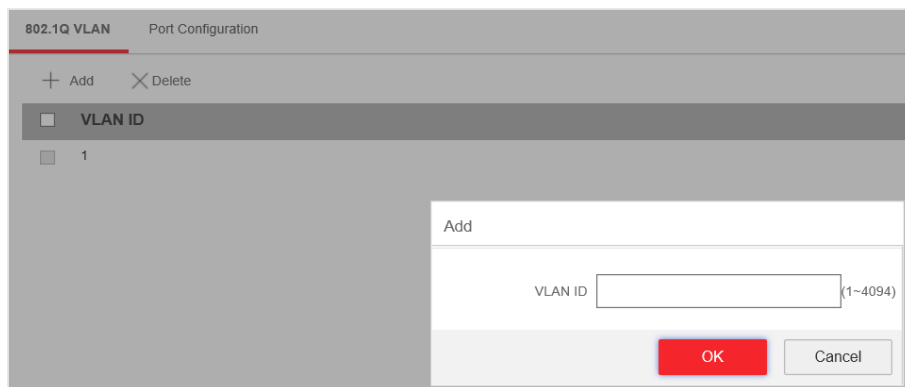


Figure 4-9 Add a VLAN

3. Enter a VLAN ID.

---

## Note

- A maximum of 128 VLANs are supported.
- The range is from 1 to 4094.

4. **Optional:** You can also delete a VLAN by clicking **Delete**.

---

## Note

You cannot delete the VLAN 1, because VLAN 1 is the Management VLAN.

---

4.3.2 Configure a Port

Steps

1. Select a port to configure on the **Port Configuration** page.

802.1Q VLAN

Port Configuration

 Edit

| Port Name | VLAN Type | PVID | Accessible VLAN |
|-----------|-----------|------|-----------------|
| Ge1       | ACCESS    | 1    | 1               |
| Ge2       | ACCESS    | 1    | 1               |
| Ge3       | ACCESS    | 1    | 1               |
| Ge4       | ACCESS    | 1    | 1               |
| Ge5       | ACCESS    | 1    | 1               |
| Ge6       | ACCESS    | 1    | 1               |
| Ge7       | ACCESS    | 1    | 1               |
| Ge8       | ACCESS    | 1    | 1               |
| Ge9       | ACCESS    | 1    | 1               |
| Ge10      | ACCESS    | 1    | 1               |

Save

Figure 4-10 VLAN Port Configuration

2. Click **Edit**.

3. Configure the port VLAN.

- **Access Port**
  - An access port transports traffic to and from only the specified VLAN, usually the default VLAN, VLAN 1.
  - Select **Port VLAN Type** as **ACCESS**, and select the **PVID**.

Edit Port VLAN

Port Ge1

Port VLAN Type ☒ ACCESS ☐ TRUNK

PVID 

1

All ports in the aggregation group will be edited.

OK

Cancel

Figure 4-11 Edit an Access Port VLAN

### Note

All ports in the same aggregation group will be edited automatically at the same time.

#### - Trunk Port

- A trunk port is a port that is assigned to carry traffic for all the VLANs.
- Select **Port VLAN Type** as **TRUNK**, select the **PVID** and enter the **VLAN** that are allowed to be accessed.

Figure 4-12 Edit a Trunk Port VLAN

### Note

- All ports in the same aggregation group will be edited automatically at the same time.
- You can check **All VLANs are allowed to be accessed.** to assign the port to all the VLANs.

4. Click **OK**.

5. Click **Save** to save the configuration.

## 4.4 QoS Configuration

Quality of Service (QoS) includes the transmission bandwidth, delay, packet loss rate and etc. Increasing network bandwidth, decreasing network delay, and reducing packet losses can improve QoS in network service. You can configure the scheduling mode and port priority of QoS.

### Steps

1. Go to **Switch Configuration → Basic Configuration → QoS → Scheduling Mode** to select a scheduling type.

The screenshot displays the 'Scheduling Mode' configuration interface. At the top, there are two tabs: 'Scheduling Mode' (which is active and highlighted with a red underline) and 'Port Priority'. Below the tabs, the 'Scheduling Type' section contains three radio buttons: 'NORMAL', 'SP', and 'WRR'. The 'WRR' option is selected. Underneath, there are two dropdown menus. The first is labeled 'Weight for Low Priority' and has the value '1' selected. The second is labeled 'Weight for High Priority' and has the value '8' selected. At the bottom center of the form is a red button labeled 'Save'.

**Figure 4-13 Scheduling Mode**

### **NORMAL**

First In First Out (FIFO) mode. Transmit the message coming in first. QoS is not enabled.

### **SP**

Strict Priority mode. Transmit the message according to the actual priority configuration.

### **WRR**

Weighted Round Robin mode. Transmit the message according to the respective weight for low priority and high priority.

2. Configure the port priority in **Port Priority**.

Scheduling Mode

**Port Priority**

| Port Name | Priority      |
|-----------|---------------|
| Ge1       | High Priority |
| Ge2       | High Priority |
| Ge3       | Low Priority  |
| Ge4       | Low Priority  |
| Ge5       | Low Priority  |
| Ge6       | Low Priority  |
| Ge7       | Low Priority  |
| Ge8       | Low Priority  |

Save

Figure 4-14 Port Priority

3. Click **Save** to complete the configuration.

4.5 SNMP Configuration

Simple Network Management Protocol (SNMP) is a widely used application-layer communication protocol for monitoring network performance. SNMP network is composed of the Network Management System (NMS) and the Agent. NMS is the SNMP manager, and Agent sends Traps to NMS.

### 4.5.1 SNMP Proxy Settings

#### Steps

1. Go to **Switch Configuration → L2 Configuration → SNMP Configuration → SNMP Proxy Settings** to configure SNMP proxy.

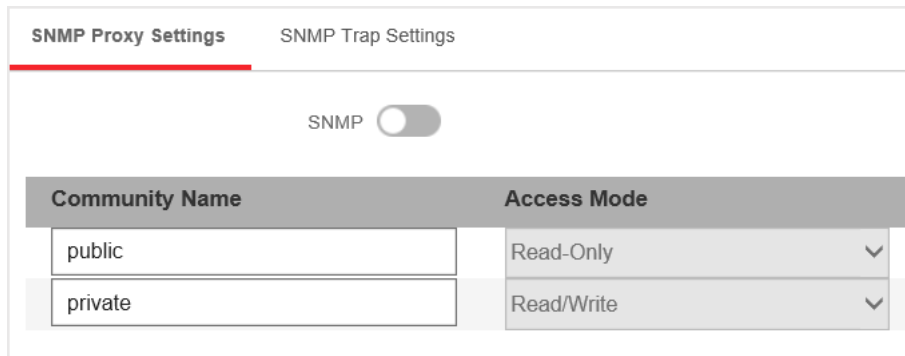
The image shows the 'SNMP Proxy Settings' web interface. At the top, there are two tabs: 'SNMP Proxy Settings' (selected) and 'SNMP Trap Settings'. Below the tabs, there is a toggle switch for 'SNMP' which is currently turned off. Underneath the toggle, there is a table with two columns: 'Community Name' and 'Access Mode'. The table contains two rows: one with 'public' and 'Read-Only' (with a dropdown arrow), and another with 'private' and 'Read/Write' (with a dropdown arrow).

Figure 4-15 Proxy Settings

- 1) Enable **SNMP**.
- 2) Define the **Community Name**.

#### Community Name

The community name is an authentication mechanism, similar to a password, which is used to limit the data transmission between NMS and Agent.

- **Read-Only Community Name:** The Community name accessible to NMS with read permission. The default is **public**.
- **Read/Write Community Name:** The Community name accessible to NMS with read and write permission. The default is **private**.

- 3) Click **Save**.

### 4.5.2 SNMP Trap Settings

#### Steps

1. Enable **Trap** on the **SNMP Trap Settings** page.

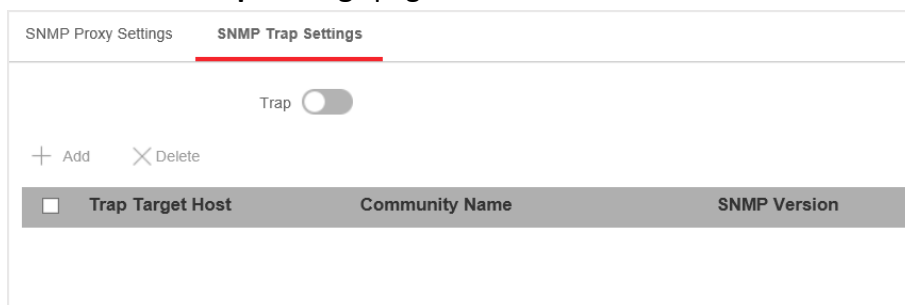
The image shows the 'SNMP Trap Settings' web interface. At the top, there are two tabs: 'SNMP Proxy Settings' and 'SNMP Trap Settings' (selected). Below the tabs, there is a toggle switch for 'Trap' which is currently turned off. Underneath the toggle, there are two buttons: '+ Add' and 'X Delete'. Below these buttons, there is a table with three columns: 'Trap Target Host', 'Community Name', and 'SNMP Version'. The table is currently empty.

Figure 4-16 Trap Settings

2. Click **Add** to add a trap.

Add

Target Host IP

Community Name

SNMP Version

v1

OK

Cancel

Figure 4-17 Add a Trap

Table 4-3 Parameters of a Trap

| Parameter      | Description                                                                                                                                                                                                                                                                  |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target Host IP | The IP address of NMS. It cannot be the broadcast or multicast address.                                                                                                                                                                                                      |
| Community Name | The password used for authentication. Up to 32 bytes can be set.                                                                                                                                                                                                             |
| SNMP Version   | <div>The Agent supports SNMP Version 1 (SNMPv1) and SNMP Version 2c (SNMPv2c).</div> <div><div><div></div></div><div>Note</div></div> <div>The prerequisite of successful connection between NMS and Agent is that the SNMP version of NMS and Agent must be the same.</div> |

3. Click **OK**.
4. Click **Save** to add a trap.
5. **Optional:** You can check the trap and click **Delete** to delete a trap.

4.6 STP Configuration

Spanning-Tree Protocol (STP) is a Layer 2 link management protocol that provides path redundancy while preventing loops in the network. The STP uses a spanning-tree algorithm to select one switch as the root of a spanning tree. STP determines the topology by transmitting Bridge Protocol Data Unit (BPDU) packets between devices. Spanning-tree operation creates a stable network.

4.6.1 Global Configuration

Steps

1. Go to **Switch Configuration → L2 Configuration → STP Configuration → Global Configuration** .
2. Check **Enable STP**.

Global Configuration
STP Port Configuration
STP Status

① The maximum aging time must meet the following conditions:

Maximum Aging Time  $\geq 2 \times (\text{Hello Time} + 1)$

Maximum Aging Time  $\leq 2 \times (\text{Forwarding Delay} - 1)$

Enable STP ☒

STP Mode RSTP

Bridge Priority 32768

Hello Time 2 S

Maximum Aging Time 20 S

Forwarding Delay 15 S

Save

**Figure 4-18 Global Configuration**

### 3. Configure the parameters.

**Table 4-4 Parameters of STP**

| Parameter          | Description                                                                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| STP Mode           | <ul style="list-style-type: none"> <li><b>STP</b>: Spanning-tree protocol.</li> <li><b>RSTP</b>: Rapid spanning-tree protocol. RSTP provides faster spanning tree convergence after a topology change.</li> </ul>                                                                          |
| Bridge Priority    | <p>The lower the number is, the higher the priority is. The range is from 0 to 61,440 seconds, in increments of 4096; the default is 32,768. Valid values are 0, 4096, 12288, 16384 ... and 61440.</p> <p>A switch with higher bridge priority is more likely to become a root bridge.</p> |
| Hello Time         | The time between each BPDU that is sent on a port, which is used for port link diagnosis. The range is from 1 to 10 seconds. The default is 2 seconds.                                                                                                                                     |
| Maximum Aging Time | The maximum length of time that passes before a bridge port saves its configuration BPDU information.                                                                                                                                                                                      |

| Parameter        | Description                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | <p>The range is from 6 to 40 seconds. The default is 20 seconds.</p> <p> <b>Note</b></p> <p>The maximum aging time must meet the following conditions:</p> <ul style="list-style-type: none"><li>• Maximum Aging Time <math>\geq</math> (Hello Time + 1)</li><li>• Maximum Aging Time <math>\leq</math> (Forwarding Delay - 1)</li></ul> |
| Forwarding Delay | <p>The time interval that is spent in the listening and learning state when the topology changes. The range is from 4 to 30 seconds. The default is 15 seconds.</p>                                                                                                                                                                                                                                                       |

4. Click **Save**.

### 4.6.2 STP Port Configuration

If a loop occurs, you can set port priority so that the spanning tree can select the port with the highest priority to forward data.

#### Steps

1. The port is enabled by default on the **STP Port Configuration** page.

Global Configuration

STP Port Configuration

STP Status

| Port Name | Port                                | Port Priority                    |
|-----------|-------------------------------------|----------------------------------|
| Ge1       | <input checked="" type="checkbox"/> | <input type="text" value="128"/> |
| Ge2       | <input checked="" type="checkbox"/> | <input type="text" value="128"/> |
| Ge3       | <input checked="" type="checkbox"/> | <input type="text" value="128"/> |
| Ge4       | <input checked="" type="checkbox"/> | <input type="text" value="128"/> |
| Ge5       | <input checked="" type="checkbox"/> | <input type="text" value="128"/> |
| Ge6       | <input checked="" type="checkbox"/> | <input type="text" value="128"/> |
| Ge7       | <input checked="" type="checkbox"/> | <input type="text" value="128"/> |
| Ge8       | <input type="checkbox"/>            | <input type="text" value="128"/> |
| Ge9       | <input checked="" type="checkbox"/> | <input type="text" value="128"/> |
| Ge10      | <input checked="" type="checkbox"/> | <input type="text" value="128"/> |

Save

Figure 4-19 Port Priority

2. Configure the **Port Priority**.

**Port Priority**

- The lower the number is, the higher the priority is, the more probably the port becomes the root port.
- The range is from 0 to 240, in increments of 16; the default is 128. Valid values are 0, 16, 32, 48, 64, 80, 96, 112, 128, 144, 160, 176, 192, 208, 224, and 240.

 **Note**

If the priority of the port is the same, spanning tree uses the port ID to select a port as the root port.

3. Click **Save**.

4.6.3 STP Status View

You can check the global status of STP settings and the status of each port.

Go to **Switch Configuration → L2 Configuration → STP Configuration → STP Status** .

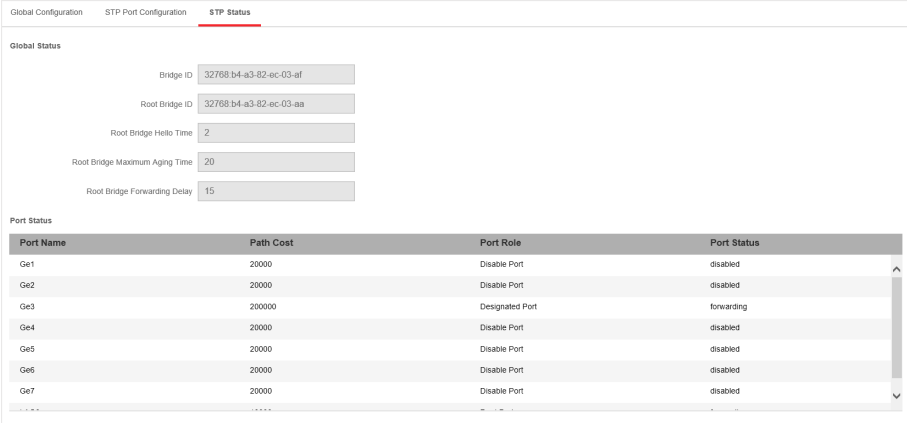


Figure 4-20 STP Status

4.7 PoE Management

PoE Settings

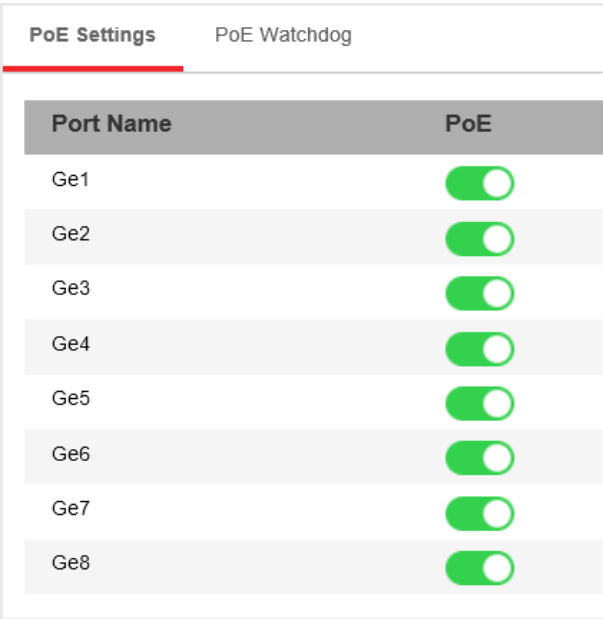


Figure 4-21 PoE Settings

You can enable PoE to supply power for the powered devices (PDs).

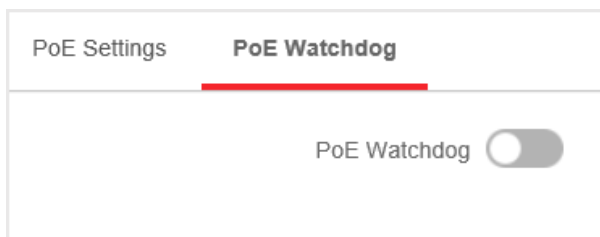
---

### **Note**

Enabling or disabling PoE has no influences on data transmission of the port.

---

### **PoE Watchdog**



**Figure 4-22 PoE Watchdog**

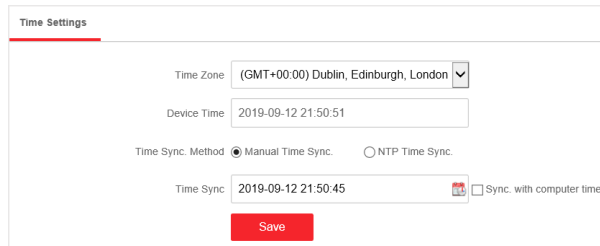
You can enable PoE watchdog to auto-detect and restart cameras that do not respond.

## Chapter 5 System Management

### 5.1 Time Sync

#### Steps

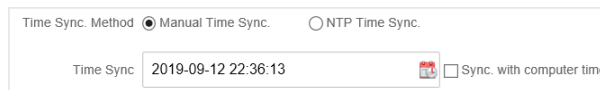
1. Go to **System Settings** → **Time Settings** . You can view the **Device Time**.



The screenshot shows the 'Time Settings' web page. It includes a 'Time Zone' dropdown menu set to '(GMT+00:00) Dublin, Edinburgh, London'. Below it is a 'Device Time' text box showing '2019-09-12 21:50:51'. The 'Time Sync. Method' section has two radio buttons: 'Manual Time Sync.' (selected) and 'NTP Time Sync.'. Below this is a 'Time Sync' text box showing '2019-09-12 21:50:45' and a checkbox labeled 'Sync. with computer time' which is unchecked. A red 'Save' button is at the bottom.

Figure 5-1 Time Settings

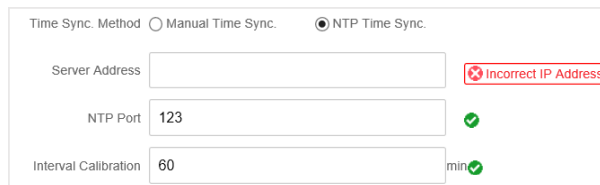
2. Select **Time Zone**.
3. Select **Time Sync. Method**
4. Set time synchronization mode.
  - **Manual Time Sync.:** Click  or check **Sync. with computer time** to synchronize the device time.



This screenshot shows the 'Manual Time Sync.' section. It has the 'Manual Time Sync.' radio button selected. The 'Time Sync' text box displays '2019-09-12 22:36:13'. To the right is a checkbox for 'Sync. with computer time' which is unchecked.

Figure 5-2 Manual Sync

- **NTP Time Sync.:** Enter the **NTP Server Address**, and set the time sync. interval.



This screenshot shows the 'NTP Time Sync.' section. The 'NTP Time Sync.' radio button is selected. It contains three input fields: 'Server Address' (empty, with a red error message 'Incorrect IP Address'), 'NTP Port' (set to '123', with a green checkmark), and 'Interval Calibration' (set to '60', with a green checkmark and 'min' label).

Figure 5-3 NTP Sync

5. Click **Save**.

### 5.2 Device Operation

When the switch malfunctions or fails to work properly, you can go to **System Management** → **System Maintenance** → **Device Operation** to restart or restore the switch.

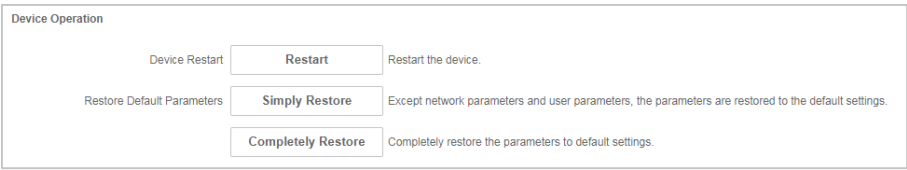


Figure 5-4 Device Operation

 **Note**

Enter the login page automatically after you restart or restore the switch.

---

**Restart**

Click **Restart** to remotely restart the switch.

**Restore**

- **Simply Restore:** Except network configuration and user parameters, all of the other parameters are restored to the default settings.
  - **Completely Restore:** Completely restore the parameters to default settings.
- 

 **Caution**

Parameters cannot be recovered after being restoring to default settings.

---

## 5.3 Configuration File Export

You can export the configuration file for local backup.

**Steps**

1. Go to **System Management** → **System Maintenance** → **Export & Import** .
2. Click **Export**.
3. Set a password for the exported configuration file.

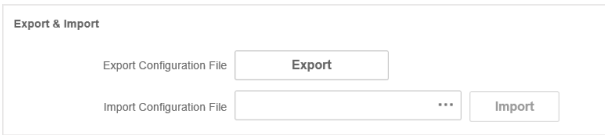


Figure 5-5 Export Configuration file

 **Note**

Please remember the password, because you need to enter the password when importing the configuration files.

---

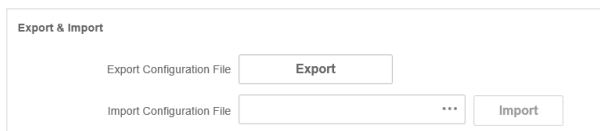
4. Click **OK**.

## 5.4 Configuration File Import

You can import the configuration file to configure the system easily.

### Steps

1. Go to **System Management → System Maintenance → Export & Import** .



**Figure 5-6 Export Configuration file**

2. Click ... to select the configuration file.
3. Click **Import**.

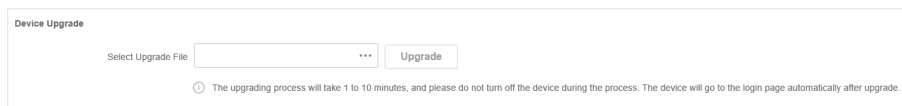
The device will restart automatically to enter the login page when the configuration file is imported.

## 5.5 Device Upgrade

You can upload the upgrade file to upgrade your switch.

### Steps

1. Go to **System Management → System Maintenance → Device Upgrade**



**Figure 5-7 Upgrade**

2. Click ... to select an upgrade patch.
3. Click **Upgrade**.



### Note

If upgrading failed or the device cannot function, please contact our technical support engineers.

---

### Result

The device will restart automatically to enter the login page when upgrade finished.

## 5.6 Log Management

System operation logs can be searched and exported for backup.

## Steps

1. Go to **System Management → Log Management** .

The screenshot shows the Log Management interface. At the top, there are search filters: Major Type (Operation), Minor Type (All Types), Start Time (1970-01-01 00:00:00), and End Time (2019-09-12 23:59:59). A red Search button is on the right. Below the filters is an Export button. The main area is a table with 13 rows of log entries. The table has columns: No., Operation Time, Major Type, Minor Type, Remote Operator, Remote Host Address, and Description. The entries include Remote Login, Remote Export Config, Remote Import Config, and Power On. At the bottom, there is a pagination bar showing 15 PCs in total, Page 1/1, and a table with 20 PCs per page, 1 page, and a Go button.

| No. | Operation Time      | Major Type | Minor Type            | Remote Operator | Remote Host Address | Description           |
|-----|---------------------|------------|-----------------------|-----------------|---------------------|-----------------------|
| 1   | 2019-09-12 21:34:57 | Operation  | Remote Login          | admin           | 10.6.114.16         | Remote Login(web)     |
| 2   | 2019-09-12 19:33:06 | Operation  | Remote Login          | admin           | 10.6.114.16         | Remote Login(web)     |
| 3   | 2019-09-12 17:38:38 | Operation  | Remote Login          | admin           | 10.6.114.16         | Remote Login(web)     |
| 4   | 2019-09-12 16:45:55 | Operation  | Remote Export Conf... | admin           | 10.6.114.16         | REMOTE_CFGFILE_OUTPUT |
| 5   | 2019-09-12 16:27:20 | Operation  | Remote Login          | admin           | 10.6.114.16         | Remote Login(web)     |
| 6   | 2019-09-12 16:24:29 | Operation  | Remote Login          | admin           | 10.12.99.11         | Remote Login(web)     |
| 7   | 2019-09-12 16:24:14 | Operation  | Start Up              |                 |                     | Power On              |
| 8   | 2019-09-12 16:23:33 | Operation  | Remote Import Conf... | admin           | 10.12.99.11         | REMOTE_CFGFILE_INPUT  |
| 9   | 2019-09-12 16:22:46 | Operation  | Remote Export Conf... | admin           | 10.12.99.11         | REMOTE_CFGFILE_OUTPUT |
| 10  | 2019-09-12 15:56:54 | Operation  | Remote Login          | admin           | 10.6.114.16         | Remote Login(web)     |
| 11  | 2019-09-12 15:43:19 | Operation  | Remote Login          | admin           | 10.25.207.111       | Remote Login(web)     |
| 12  | 2019-09-12 15:36:36 | Operation  | Remote Login          | admin           | 10.25.219.170       | Remote Login(web)     |
| 13  | 2019-09-12 15:36:09 | Operation  | Remote Login          | admin           | 10.12.99.11         | Remote Login(web)     |

Figure 5-8 Log Management

2. Set search conditions, including **Major Type**, **Minor Type**, **Start Time** and **End Time**.
3. Click **Search**.



### Note

A maximum of 2000 search results can display. Please narrow down the search scope if there are too many search results.

4. **Optional:** Click **Export** to export all the search results.



### Note

Logs can be exported in Excel. A prompt window will pop up when the logs are exported successfully.

## 5.7 Network Diagnostics

With network diagnostics, troubleshooting engineers can locate network faults quickly.

## Steps

1. Go to **System Management → System Tools → Network Diagnostics** .

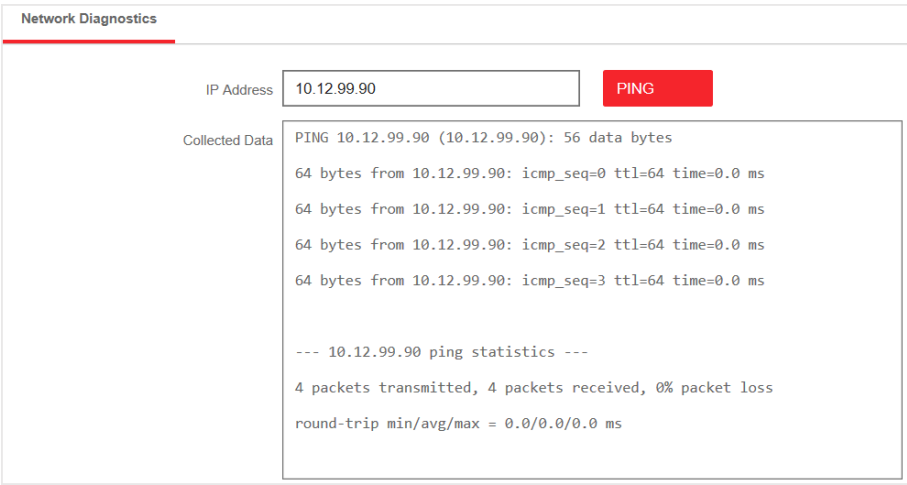


Figure 5-9 Network Diagnostics

- 2. Enter the IP address of the server, and click **PING**.

5.8 User Management

Regularly change the password can guarantee the security of the device.

Steps

- 1. Go to **System Management** → **User Management** .
- 2. Click **Edit**.

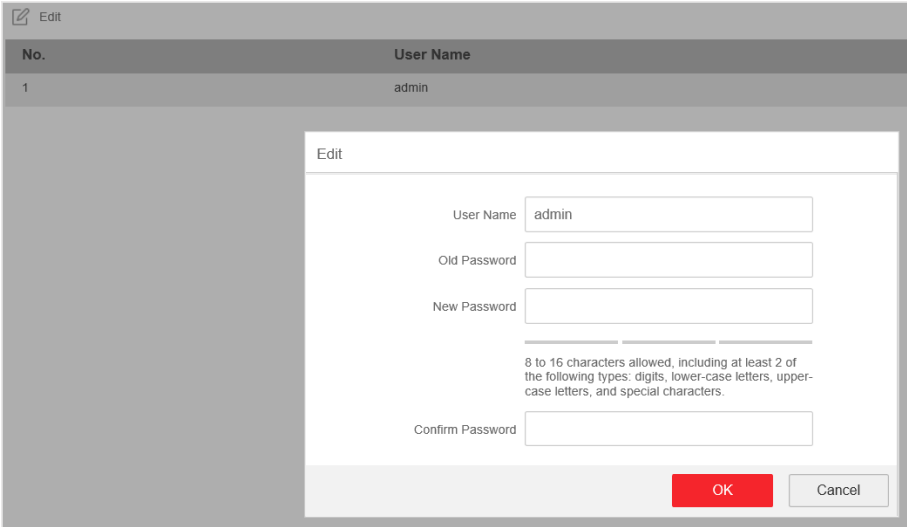
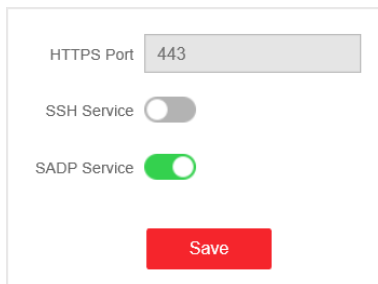


Figure 5-10 User Management

- 3. Enter the old password.
- 4. Enter a new password and confirm it.
- 5. Click **OK**.

## 5.9 Security Management

### SSH



The screenshot shows a web interface for security management. It contains three settings: 'HTTPS Port' with a text input field containing '443', 'SSH Service' with a toggle switch that is currently turned off (grey), and 'SADP Service' with a toggle switch that is currently turned on (green). At the bottom of the settings area is a red 'Save' button.

**Figure 5-11 Security Management**

The device supports SSH security service. SSH can prevent the information leakage in the remote management of the device. SSH is disabled by default.



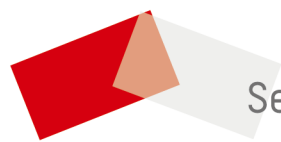
#### Note

The user name of SSH is **root**, and the password is the device login password.

---

### SADP

After enabling SADP, you can activate the device, change the password and the network information, and etc. SADP is enabled by default.



See Far, Go Further