

Lysora LCS Series Switches

Lysora 1.51 Configuration Guide

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Preface

Intended Audience

This document is intended for:

- Network engineers
- Technical support and servicing engineers
- Network administrators

Technical Support

- Official website: <https://help.lysoratech.com/>
- Technical support email: support@lysoratech.com

Conventions

1. UI Conventions

UI Convention	Description	Example
Boldface	The interactive UI elements are in boldface , including buttons, tabs, menus, and so on.	(1) Click OK . (2) Select Config Wizard . (3) Click the Clients tab.
>	The ">" symbol indicates a hierarchical relationship or a path to a specific item.	Select System > Time .

2. Symbols

The symbols that may be found in this document are described as follows:

Warning

An alert that calls attention to important information which, if not understood or followed, can result in data loss or equipment damage.

Caution

An alert that calls attention to essential information which, if not understood or followed, can result in function failure or performance degradation.

 Note

An alert that contains additional or supplementary information.

 Specification

An alert that contains a description of product or version support.

3. Notes

This document provides configuration details (including model, description, port type, and software interface) of the expected version for reference purposes only. In the event of any discrepancy or inconsistency between the expected version and the actual version, the actual version shall take precedence.

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1 Change Description

This section describes the hardware support and new software features in the Lysora 1.51 version. For details about the software version, see the release note published with the software version.

1.1 Hardware Support

The following table lists the hardware models supported by this version.

Table 1-1 Supported Hardware Models

Hardware Type	Model
Switch	LCS-4GS-P
Switch	LCS-8GS-P
Switch	LCS-16GS-P
Switch	LCS-24GS-P

1.2 Software Feature Changes

This is the first official release.

2 Login

2.1 Configuration Environment Requirements

- Google Chrome, Internet Explorer 9.0, 10.0, and 11.0, and some Chromium/Internet Explorer kernel-based browsers (such as 360 Extreme Explorer) are supported. Exceptions such as garbled characters or format errors may occur when other browsers are used.
- 1024 x 768 or a higher resolution is recommended. Exceptions such as font alignment errors and format errors may occur when other resolutions are used.

2.2 Connecting the Device

Connect the switch port with the network port of the PC through an Ethernet cable. Configure the PC with an IP address in the same network segment as the default IP address of the switch so that the PC can ping the switch. For example, set the IP address of the PC to 10.100.111.100.

Table 2-1 Default Configuration

Feature	Default Setting
Device IP Address	10.100.111.200
Password	admin

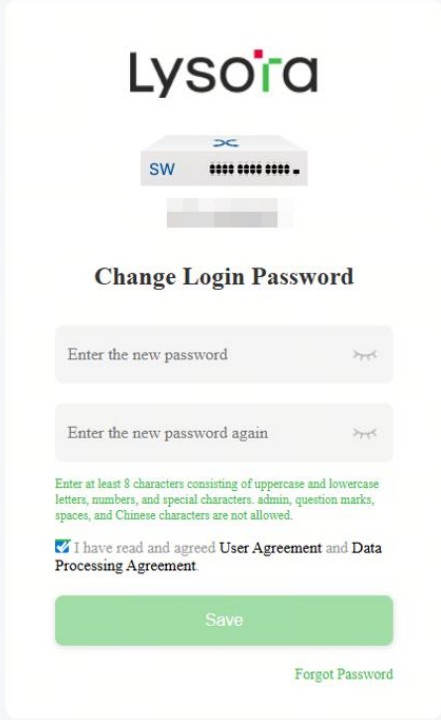
2.3 Login to Web

- (1) Enter the IP address (10.100.111.200 by default) of the device in the address bar of the browser to access the login page.

Note

If the static IP address of the device is changed, or the device dynamically obtains a new IP address, the new IP address can be used to access the device's Web as long as the PC and the device are on the same LAN, and their IP addresses are on the same network segment.

- (2) (Optional) When logging in for the first time, set the login password, select **I have read and agreed User Agreement and Data Processing Agreement.**, and click **Save**.

Figure 2-1 Login to Web Upon the First Time

LysoRa

SW

Change Login Password

Enter the new password

Enter the new password again

Enter at least 8 characters consisting of uppercase and lowercase letters, numbers, and special characters. admin, question marks, spaces, and Chinese characters are not allowed.

I have read and agreed **User Agreement** and **Data Processing Agreement**

Save

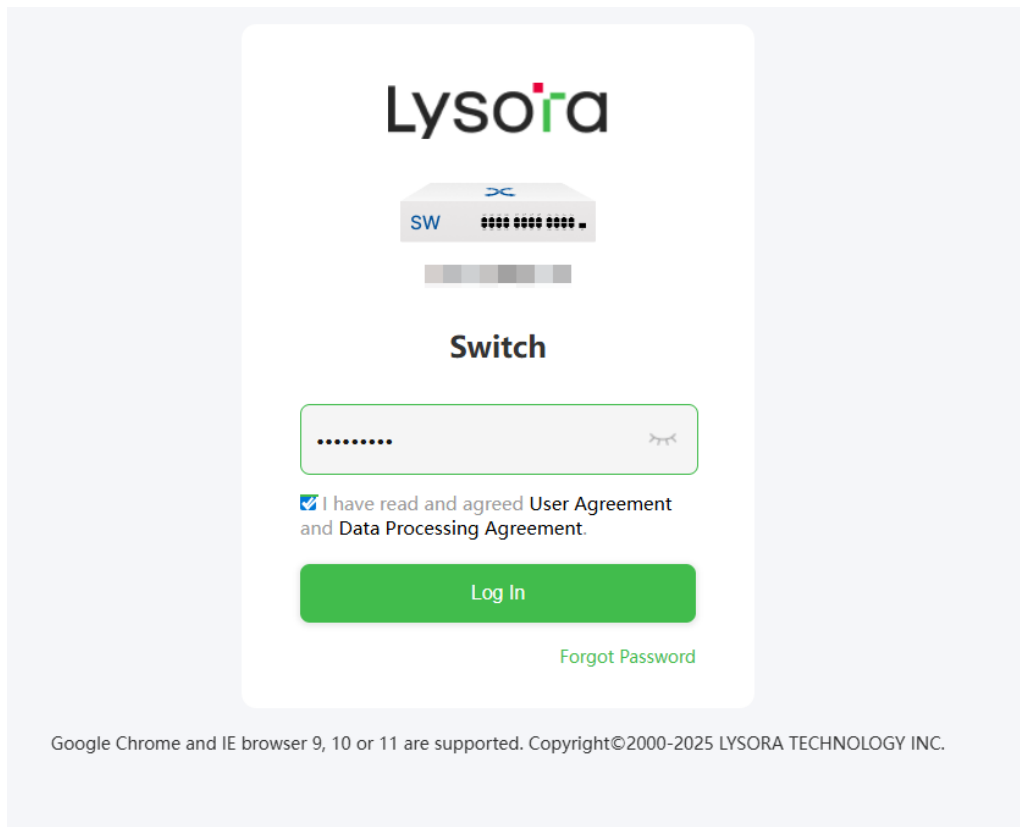
[Forgot Password](#)

Google Chrome and IE browser 9, 10 or 11 are supported. Copyright©2000-2025 LYSORA TECHNOLOGY INC.

- (3) On the login page, enter the password, select **I have read and agreed User Agreement and Data Processing Agreement**., and click **Log In** to enter the homepage of Web.

Note

To change the login password, see [8.2Login Password Settings](#).

Figure 2-2 Web Login Page

If you forget the device's IP address or password, hold down the **Reset** button on the device panel for more than 5 seconds to restore factory settings when the device is connected to the power supply. After restoration, you can use the default IP address to log in to the device and then change the login password.

⚠ Caution

Restoring factory settings will clear all configurations on the device. Exercise caution when performing this operation.

3 Port Management

3.1 Managing Port Information

3.1.1 Port Status Bar

The port status bar is at the top of Web, showing the port ID, port attribute (uplink/downlink), connection status, and other information.

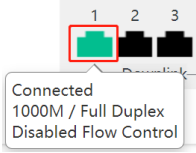
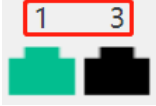

Figure 3-1 Port Status Bar



Different colors and shapes of the port icons represent different port statuses. See [Table 3-1](#) for details. Move the cursor over a port icon and the port status will be displayed, including the connection status, port rate, duplex mode, and flow control status.

Table 3-1 Port Icons

Port Icon	Description
	The port icon is in the shape of a square, showing the port is a fiber port.
	The port icon is in the shape of an RJ-45 connector, showing the port is a copper port.
	The color of the port icon is black, showing the port is disconnected.
	The color of the port icon is gray, showing the port is disabled and cannot receive or transmit packets.
	The color of the port icon is yellow, showing there is a loop.

Port Icon	Description
	<p>The color of the port icon is green, showing the port is working normally.</p>
	<p>The number above the port icon is the port ID used to identify the device port. With the port ID, you can specify the target port.</p>
	<ul style="list-style-type: none"> • The device port is classified into the uplink port and the downlink port. The uplink port is used to connect network devices in the upper layer and access the core network. The downlink port is used to connect the endpoints. • When port isolation is enabled, the downlink ports of the device are isolated from each another, and they can only communicate with the uplink ports. For details, see 3.4Port Isolation

3.1.2 Port Info Overview

Choose **Home** from the navigation page.

The **Home** page displays the global port information, including the port status, port VLAN settings, packet receiving/transmission rate (Rx/Tx rate), port isolation status, loop status, and port PoE settings. In addition, you can query and view information about downlink devices.

Click a port feature to go to the feature configuration page.

- Click **Port Status** to configure the basic port attributes. For details, see [3.2Port Settings](#).
- Click **VLAN** to set the VLAN of the port. For details, see [4.2VLAN Settings](#).

Note

Port VLAN settings can only be configured and viewed in the **Port Info** pane after the **VLAN Settings** switch is toggled on.

- Click **Isolation Status** to configure port isolation so that the downlink ports of the device are isolated from each other. For details, see [3.4Port Isolation](#).
- Click **Loop Status** to enable loop guard function. After a loop occurs, the port causing the

loop will be shut down automatically. For details, see [5.3 Loop Guard](#).

- Click **PoE** to view and set PoE parameters of the port. For details, see [6 PoE Settings](#).
- Click **Search** in the **Downlink Device** column to search for the downlink device of the selected port. After the search is done, click **View** to view the MAC address of the downlink device.
- Click **Refresh List** to fetch the latest port information.

Figure 3-2 Viewing or Configuring Port Settings

Port Info VLAN Settings ? Refresh List

Port	Status	Config Status		Actual Status	Port Status				VLAN				Rx/Tx Rate (kbps)	Isolation Status	Loop Status	PoE		Downlink Device Search
		Speed	Duplex		Flow Control(Config)	Flow Control(Actual)	EEE(Config)	EEE(Actual)	Type	Access	Native	Permit				PoE Power	Action	
Port 1	Enabled	Auto	Auto	1000M/Full Duplex	Disabled	Disabled	Disabled	Disabled	Access	1	--	--	11/0	Isolated	Normal	--	--	--
Port 2	Enabled	Auto	Auto	Disconnected	Disabled	Disabled	Disabled	Disabled	Access	1	--	--	0/0	Isolated	Normal	--	--	--
Port 3	Enabled	Auto	Auto	Disconnected	Disabled	Disabled	Disabled	Disabled	Access	1	--	--	0/0	Isolated	Normal	--	--	--
Port 4	Enabled	Auto	Auto	Disconnected	Disabled	Disabled	Disabled	Disabled	Access	1	--	--	0/0	Isolated	Normal	--	--	--
Port 5	Enabled	Auto	Auto	Disconnected	Disabled	Disabled	Disabled	Disabled	Access	1	--	--	0/0	Isolated	Normal	--	--	--
Port 6	Enabled	Auto	Auto	Disconnected	Disabled	Disabled	Disabled	Disabled	Access	1	--	--	0/0	Isolated	Normal	--	--	--
Port 7	Enabled	Auto	Auto	Disconnected	Disabled	Disabled	Disabled	Disabled	Access	1	--	--	0/0	Isolated	Normal	--	--	--
Port 8	Enabled	Auto	Auto	Disconnected	Disabled	Disabled	Disabled	Disabled	Access	1	--	--	0/0	Isolated	Normal	--	--	--
Port 9	Enabled	Auto	Auto	Disconnected	Disabled	Disabled	Disabled	Disabled	Access	1	--	--	0/0	Isolated	Normal	--	--	--
Port 10	Enabled	Auto	Auto	Disconnected	Disabled	Disabled	Disabled	Disabled	Access	1	--	--	0/0	Isolated	Normal	--	--	--
Port 11	Enabled	Auto	Auto	Disconnected	Disabled	Disabled	Disabled	Disabled	Access	1	--	--	0/0	Isolated	Normal	--	--	--

3.1.3 Port Packet Statistics

Choose **Monitoring > Port Statistics**.

The **Port Statistics** page displays the port status, the connection status, Rx/Tx rate (kbps), Rx/Tx packets (KB), Rx/Tx success, and Rx/Tx failure.

Click **Clear** to clear current packet statistics of all ports and reset the statistics.

Figure 3-3 Port Packet Statistics

Port Statistics

Port	Status	Connection Status	Rx/Tx Rate(kbps)	Rx/Tx Packets(KB)	Rx/Tx Success	Rx/Tx Failure
Port 1	Enabled	Connected	4/7	150/699	1237/2768	0/0
Port 2	Enabled	Disconnected	0/0	0/0	0/0	0/0
Port 3	Enabled	Disconnected	0/0	0/0	0/0	0/0
Port 4	Enabled	Disconnected	0/0	0/0	0/0	0/0
Port 5	Enabled	Connected	7/9	280/534	1955/1852	0/0
Port 6	Enabled	Disconnected	0/0	0/0	0/0	0/0

3.2 Port Settings

Note

- The EEE feature can be configured on RJ45 ports that operate at 100 or 1000 Mbps with **Duplex** set to **Auto**.

- For the LCST-8GT2SFP-HP, set the port speed to 10 Mbps through the DIP switch on the device's front panel or through the web interface. On the web interface, set **Speed to 10M, Duplex to Auto, and Flow Control to Enabled**. The latest configuration takes effect.

Choose **Configuration > Port Settings**.

You can set the basic attributes of the Ethernet ports in batches.

- (1) Click **Select** in the **Port** column to display options of all device ports. Select the ports you want to configure.
- (2) Set the feature parameters for the ports.
- (3) Click **Save**.

The port list below provides the basic attributes of all ports and can also be used to verify whether the configuration of a specified port takes effect.

⚠ Caution

Shutting down all ports will make the switch unmanageable. Exercise caution when performing this operation.

Figure 3-4 Port Configuration and Status

Port Settings

After the port is shut down, it is not allowed to send or receive packets(PoE is not affected). Shutting down all ports will make the switch unmanageable. Please be cautious.

1	Port	2	Status	Speed	Duplex	Flow Control	EEE
	Port 1		Enabled	Auto	Auto	Disabled	Disabled

3 Save

Port List

Port	Status	Speed/Duplex		Flow Control		EEE	
		Config Status	Actual Status	Config Status	Actual Status	Config Status	Actual Status
Port 1	Enabled	Auto/Auto	100M/Full Duplex	Disabled	Disabled	Disabled	Disabled
Port 2	Enabled	Auto/Auto	Disconnected	Disabled	Disabled	Disabled	Disabled
Port 3	Enabled	Auto/Auto	Disconnected	Disabled	Disabled	Disabled	Disabled
Port 4	Enabled	Auto/Auto	Disconnected	Disabled	Disabled	Disabled	Disabled
Port 5	Enabled	Auto/Auto	1000M/Full Duplex	Disabled	Disabled	Disabled	Disabled
Port 6	Enabled	Auto/Auto	Disconnected	Disabled	Disabled	Unsupported	Unsupported

Table 3-2 Basic Port Configuration Parameters

Parameter	Description	Default
Port	Select the ports you want to configure.	No default value

Parameter	Description	Default
Status	<ul style="list-style-type: none"> • Enabled: When the port is enabled, it can receive or transmit packets. • Disabled: When the port is disabled, it cannot receive or transmit packets (The PoE feature of the ports will not be affected). 	Enabled
Speed	Configure the operating speed of the Ethernet physical port. When the speed is set to Auto , it is determined by the auto-negotiation between the local port and the peer port. The negotiated speed can be any speed within the port capability.	Auto
Duplex	<ul style="list-style-type: none"> • Full Duplex: The port can receive packets while sending packets. • Half Duplex: The port can receive or send packets at a time. • Auto: The duplex mode of the port is determined by the auto-negotiation between the local port and the peer port. 	Auto
Flow Control	<ul style="list-style-type: none"> • Enabled: The port will process the received flow control frames and send them when flow congestion occurs. • Disabled: The flow control is disabled. 	Disabled
EEE	When Energy Efficient Ethernet (EEE) based on the IEEE 802.3az standard is enabled on an Ethernet port and the port is in idle state, it enters the Low Power Idle (LPI) mode, thereby achieving energy saving.	Disabled

3.3 Port Mirroring

3.3.1 Overview

In network monitoring and troubleshooting scenarios, users need to analyze data traffic on suspicious network nodes or device ports. When port mirroring is enabled, packets received and transmitted on the source port will be mirrored to the mirror port (destination port). You

can monitor and analyze the packets on the mirror port through network analyzer without affecting the normal data forwarding of the monitored device.

As [Figure 3-5](#) shows, by configuring port mirroring on Device A, the packets on Port 1 are mirrored to Port 10. Though the network analyzer is not directly connected to Port 1, it can receive all packets on Port 1 and is able to monitor the data traffic on Port 1.

Figure 3-5 Operating Principle of Port Mirroring



3.3.2 Configuration Steps

Choose **Configuration > Port Mirroring**.

Select the source port, the monitoring direction, and the mirror port, and click **Save**. The device supports configuring one port mirroring rule.

If you want to delete port mirroring configuration, click **Delete**.

⚠ Caution

- You can select multiple source ports but only one mirror port. The source ports cannot contain the mirror port.
- Only one port mirroring rule can be configured. If multiple rules are configured, the latest configuration takes effect.

Figure 3-6 Configuring Port Mirroring

Port Mirroring

Packets received and transmitted on the source port will be mirrored to the mirror port.(The image destination port can only grab packets and cannot transmit data with the switch)

Source Port Member	Direction	Mirror Port
port 3/24	Input	Port 1
2	Input	1

1 2 3 Save

Delete

Table 3-3 Port Mirroring Parameters

Parameter	Description
Source Port Member	<p>The source port is also called the monitored port. Packets on the source port will be mirrored to the mirror port for network analysis or troubleshooting.</p> <p>You can select multiple source ports. Packets on these ports will be mirrored to one mirror port.</p>
Direction	<p>Direction of the data traffic monitored on the source port:</p> <ul style="list-style-type: none"> ● Bi-directions (input & output): All packets on the source port, including the received packets and the transmitted packets, will be mirrored to the mirror port. ● Input: The packets received by the source port will be mirrored to the mirror port. ● Output: The packets transmitted from the sourced port will be mirrored to the mirror port.
Mirror Port	<p>The mirror port is also called the monitoring port. The mirror port is connected with a monitoring device, and it transmits packets on the source port to the monitoring device.</p>

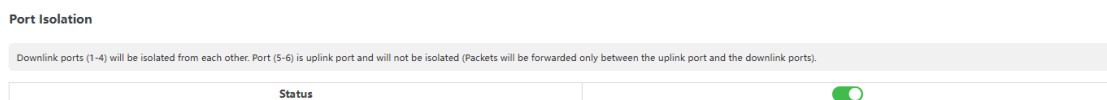
3.4 Port Isolation

Choose **Configuration > Port Isolation**.

Port isolation is used for isolating layer-2 packets. When port isolation is enabled, the downlink ports are isolated from each other but can communicate with uplink ports.

Port isolation is disabled by default. Toggle the switch to **On** to enable port isolation.

Figure 3-7 Port Isolation



Note

- The number of the uplink/downlink ports and port IDs of different devices vary. Please refer to the specific device's documentation for accurate information.

- Port isolation can be enabled on devices featuring DIP switches on the panel. The last configuration applied takes effect.

3.5 Port-based Rate Limiting

Choose **QoS > Rate Limiting**.

You can configure rate limiting rules for packets in the input direction and the output direction of ports. There is no rate limiting on ports by default.

Select the port you want to configure, then select the rate limiting type and status, and enter the rate limit. Click **Save** to save the configuration. The configuration will be displayed accordingly in the **Port Rate** table right below the **Save** button.

Note

You can set **Rate** only after **Status** is set to **Enabled**.

Figure 3-8 Port Rate Limiting

Rate Limiting

Port	Type	Status	Rate(Mbit/sec)
1 Port 1	2 Output	Enabled	1000 (1-1000M)

3 Save

Port	Input Rate(Mbit/sec)	Output Rate(Mbit/sec)
Port 1	No Limit	No Limit
Port 2	No Limit	No Limit
Port 3	No Limit	No Limit
Port 4	No Limit	No Limit
Port 5	No Limit	No Limit
Port 6	No Limit	No Limit

Table 3-4 Rate Limiting Parameters

Parameter	Description	Default
Port	You can select multiple ports for rate limiting configuration in batches.	No default value

Parameter	Description	Default
Type	<p>The direction of the rate-limited data traffic:</p> <ul style="list-style-type: none"> ● Input & output: Rate limiting for all packets forwarded over the port, including the received packets and the transmitted packets. ● Input: Rate limiting for packets received by the port. ● Output: Rate limiting for packets transmitted from the port. 	No default value
Status	You can decide whether to enable or disable rate limiting.	Disabled
Rate (Mbit/sec)	The maximum rate at which packets are forwarded over the port.	No Limit

Note

The port rate limit range varies with the switch model.

3.6 Management IP Address

Choose **Configuration > IP Settings**.

You can configure the management IP address of the device. By accessing the management IP address, you can configure and manage the device.

There are two Internet types available:

- Dynamic IP address: Enable **Auto Obtain IP** feature to use the IP address assigned dynamically by the uplink DHCP server.
- Static IP address: Disable **Auto Obtain IP** feature to use the fixed IP address configured manually by the user.

Enable **Auto Obtain IP** feature, and the device will automatically obtain various parameters from the DHCP server. You can select whether to obtain a DNS address automatically from the DHCP server. If **Auto Obtain DNS** feature is disabled, you need to configure a DNS address manually.

After disabling **Auto Obtain IP** feature, you need to manually configure the IP address, subnet mask, gateway IP address, and DNS address. Click **Save** to enforce the configuration.

VLAN is used for managing VLAN tag of the management packets. Disable VLAN settings, and the management packets will be untagged, and management VLAN configuration is not supported. The management VLAN of the device is VLAN 1 by default.

Figure 3-9 IP Settings

IP Settings

VLAN	1 (1-4094)
Disable VLAN Settings, and the management packets will be untagged. If you want to tag packets, please enable VLAN Settings.	
Auto Obtain IP	Enabled
If you disable this feature, multi-DHCP alarming will fail.	
IP Address	192.168.110.139
Submask	255.255.255.0
Gateway	192.168.110.1
Auto Obtain DNS	Enabled
DNS	192.168.110.1

[Save](#)

Note

- Disable VLAN settings, and the management packets will be untagged. If you want to tag packets, please enable VLAN settings. For details, see [4.2.1 Global VLAN Settings](#).
- The management VLAN must be selected from the existing VLANs. To create a static VLAN, refer to [4.2.2 Static VLANs Settings](#).
- You are advised to bind a configured management VLAN to an uplink port. Otherwise, you may fail to access the web interface. For details, see [4.2.3 Port VLAN Settings](#).
- If you disable **Auto Obtain IP** feature, multi-DHCP alarming will fail. For details about multi-DHCP alarming, see [9.2 Multi-DHCP Alarming](#).

3.7 Setting the Port Media Type

Specification

This function is only supported on the LCS-4GS-P and the LCS-8GS-P switches.

Choose **Configuration > Port Media Type**.

- (1) Select a combo port. Only combo ports are displayed in the drop-down list.
- (2) Select the port type. You can select **combo(optical preferred)**, **electrical**, or **optical** from the drop-down list.
 - **combo(optical preferred)**: The port type is automatically selected based on the access status of the combo port. The optical port is selected by default.
 - **Electrical**: Indicates the RJ45 port type.
 - **Optical**: Indicates the optical port type.
- (3) Click **Save**. The configured combo port type is displayed in the lower list.

Figure 3-10 Setting the Port Media Type

Port Media Type

1 2 3

Port	Port Media Type
Port 6	optical

4 Switch Settings

4.1 Managing MAC Address

4.1.1 Overview

The MAC address table records mappings of MAC addresses and ports to VLANs.

The device queries the MAC address table based on the destination MAC address in a received packet. If the device finds an entry that is consistent with the destination MAC address in the packet, the device forwards the packet through the port specified by the entry in unicast mode. If the device does not find such an entry, it forwards the packet through all ports other than the receiving port in broadcast mode.

MAC address entries are classified into the following types:

- **Static MAC address entries:** Static MAC address entries are manually configured by the users. Packets whose destination MAC address matches the one in such an entry are forwarded through the corresponding port.
- **Dynamic MAC address entries:** Dynamic MAC address entries are learned dynamically by the device. They are generated automatically by the device.

4.1.2 Viewing MAC Address Table

Choose **Configuration > MAC List**.

This page displays the MAC address of the device, including the static MAC address configured manually by the users and the dynamic MAC address learned automatically by the device.

Click **Clear Dynamic MAC** to clear the dynamic MAC address learned by the device. The device will re-learn the MAC address and generate a MAC address table.

Figure 4-1 MAC Address Table

MAC List

Up to 2k MAC addresses can be learned by the device, with 3 MAC addresses already learned. The MAC List displays up to 100 learned MAC addresses. Other learned MAC addresses are not shown but can be searched in MAC Search.

No.	MAC Address	VLAN ID	Type	Port
1	30:0D:9E:31:BB:5F	1	Dynamic	5
2	00:E0:4C:36:02:BD	1	Dynamic	1
3	00:D0:F8:20:AA:BB	1	Dynamic	5

[Clear Dynamic MAC](#)

Note

- If you disable VLAN, the device will forward packets according to only the destination MAC address. VLAN ID is not displayed in the MAC address table.
- Up to 100 MAC addresses are displayed.

4.1.3 Searching for MAC Address

Choose **Configuration > MAC Search**.

You can search for MAC address entries according to MAC address and VLAN ID.

Caution

If you disable VLAN, the VLAN ID will not be recorded in the MAC address table. MAC address entries can only be found through MAC address.

Enter MAC address and VLAN ID, and then click **Search**. The MAC address entries that meet the search criteria will be displayed in table right below the **Search** button. Moreover, you can enter partial characters of the MAC address for fuzzy search.

Figure 4-2 Searching for MAC Addresses (with VLAN Enabled)

MAC Search

MAC Address	VLAN ID
<input type="text" value="00:00:00:00:00:00"/>	<input type="text" value="VLAN ID (1-4094)"/>
Search	

MAC Address	VLAN ID	Type	Port
30:0D:9E:31:BB:5F	1	Dynamic	Port 5

4.1.4 Configuring Static MAC Address

Choose **Configuration > Static MAC**.

By configuring a static MAC address, you can manually bind the MAC address of a downlink network device with a port of the switch. After you add a static MAC address, when the

device receives a packet destined to this address from VLAN, it forwards the packet to the specified port.

⚠ Caution

If you disable VLAN, the VLAN ID will not be recorded in the MAC address table. It is not allowed to configure a VLAN to which the static MAC address belongs.

Enter a MAC address, specify a VLAN ID and select the outbound port. Then click **Add** to add a static MAC address. The MAC address entries will be updated accordingly in the MAC address table.

Figure 4-3 Configuring Static MAC Address

Static MAC

Up to 16 MAC addresses can be configured.

MAC Address	VLAN ID	Port
<input type="text" value="00:00:00:00:00:00"/>	<input type="text" value="VLAN ID (1-4094)"/>	<input type="text" value="Port 1"/>

No.	MAC Address	VLAN ID	Port
<input type="checkbox"/> 1	00:CD:FE:73:37:85	2	1

If you want to delete a static MAC address, select the MAC address entry you want to delete in the table and click **Delete**.

4.2 VLAN Settings

4.2.1 Global VLAN Settings

Choose **Home** from the navigation page.

This page displays the status of VLAN settings. You can toggle on or off **VLAN Settings**.

- When VLAN is disabled, the device operates like an un-managed switch. The device forwards packets according to the destination MAC address, and the VLAN information of the forwarding packets remains unchanged during the forwarding process.
- When VLAN is enabled, the device operates like a managed switch. The device forwards packets according to the destination MAC address and VLAN ID. You can configure the port mode (access or trunk) based on whether a VLAN tag is carried in packets. Besides, all device ports will be initialized to access ports.

Figure 4-4 VLAN Settings

Device Info

Model: [REDACTED]	Firmware Version: Lysora 1.51.0.2119
MAC Address: [REDACTED]	SN: [REDACTED]
IP Address: [REDACTED]	Uptime: 00h 45min 05s
Cloud Status: Connectable Download App	Hostname: Lysora Edit

Port Info VLAN Settings ?

Port	Port Status								VLAN			
	Status	Config Status		Actual Status	Flow Control(Config)	Flow Control(Actual)	EEE(Config)	EEE(Actual)	Type	Access	Native	Permit
		Speed	Duplex									
Port 1	Enabled ▼	Auto ▼	Auto ▼	100M/Full Duplex	Disabled ▼	Disabled	Disabled ▼	Disabled	Access	1	--	--
Port 2	Enabled ▼	Auto ▼	Auto ▼	Disconnected	Disabled ▼	Disabled	Disabled ▼	Disabled	Access	1	--	--
Port 3	Enabled ▼	Auto ▼	Auto ▼	Disconnected	Disabled ▼	Disabled	Disabled ▼	Disabled	Access	1	--	--
Port 4	Enabled ▼	Auto ▼	Auto ▼	Disconnected	Disabled ▼	Disabled	Disabled ▼	Disabled	Access	1	--	--
Port 5	Enabled ▼	Auto ▼	Auto ▼	1000M/Full Duplex	Disabled ▼	Disabled	Disabled ▼	Disabled	Access	1	--	--
Port 6	Enabled ▼	Auto ▼	Auto ▼	Disconnected	Disabled ▼	Disabled	Unsupported ▼	Unsupported	Access	1	--	--

Note

Apart from choosing **Home** from the navigation page, you can also choose **VLAN > VLAN List** or **VLAN > VLAN Settings** to toggle on or off **VLAN Settings**. Configuration through three paths has the same effects and takes effect instantly for all the paths.

4.2.2 Static VLANs Settings

Choose **VLAN > VLAN List**.

Enter VLAN ID and click **Add** to create a static VLAN.

- Note**
- You can create static VLANs only when **VLAN Settings** is toggled on.
 - The VLAN ID ranges from 1 to 4094. VLAN 1 is the default VLAN.
 - A maximum of 16 VLANs can be created.
 - The Management VLAN (VLAN 1), Native VLAN, Permit VLAN, and Access VLAN cannot be deleted.

The VLAN table contains the existing VLANs. Select the VLANs and click **Delete**, and the corresponding VLANs will be deleted. VLAN 1 cannot be deleted.

Figure 4-5 Static VLANs Settings

VLAN List

VLAN Settings ?

Up to 16 VLAN members can be configured.

VLAN ID (1-4094)

<input type="checkbox"/>	No.	VLAN ID
<input type="checkbox"/>	1	1

4.2.3 Port VLAN Settings

Caution

Improper configuration of VLANs on a port (especially uplink port) may cause the failure to log in to Web. Therefore, exercise caution when configuring VLANs.

Choose **VLAN > VLAN Settings**.

Configure the port mode and VLAN members of a port, and you will know the allowed VLANs of the port and whether the packets forwarded by the port carry tags.

Note

- You are advised to create VLAN members (refer to [4.2.2Static VLANs Settings](#)) before configuring the port based on VLANs. Click **VLAN List** to access the **VLAN List** page where you can add VLAN members.
- You can configure VLANs on ports only when **VLAN Settings** is toggled on.
- On the **VLAN Settings** page, VLAN settings are the same as those on the **Home** page. The settings are globally applied and the latest configuration takes effect.

- (1) Select the target ports. Multiple ports can be selected.
- (2) Configure the port type.
 - Access: If the port is an access port, select **Access** for the port.
 - Trunk: If the port is a trunk port, select a native VLAN for the port, and enter the VLAN ID range of permit VLANs.
- (3) Click **Save**.

The configured port information is synchronized to the table on the **VLAN Settings** page.

Figure 4-6 Configuring Port VLANs

VLAN Settings

VLAN Settings ?

You can go to [VLAN List](#) to add a VLAN ID.

Port	Port Mode	Access VLAN <small>The packets of this VLAN are untagged.</small>	Native VLAN <small>The packets of this VLAN are untagged.</small>	Permit VLAN
Port 3 x	Access v	VLAN 2 v	VLAN 1 v	--Select--

Port	Port Mode	Access VLAN	Native VLAN	Permit VLAN
Port 1	Access	1	--	--
Port 2	Access	1	--	--
Port 3	Access	1	--	--
Port 4	Access	1	--	--
Port 5	Access	1	--	--
Port 6	Access	1	--	--
Port 7	Access	1	--	--
Port 8	Access	1	--	--
Port 9	Access	1	--	--
Port 10	Access	1	--	--
Port 11	Access	1	--	--

Table 4-1 Port Modes

Port Mode	Description
Access	<ul style="list-style-type: none"> One access port can belong to only one VLAN and allow frames from this VLAN only to pass through. This VLAN is called an access VLAN. The frames from the access port do not carry VLAN tag. When the access port receives an untagged frame from a peer device, the local device determines that the frame comes from the access VLAN and adds the access VLAN ID to the frame. Access port is connected to the endpoints.
Trunk	<ul style="list-style-type: none"> One trunk port supports one Native VLAN and several Permit VLANs. Native VLAN frames forwarded by a trunk port do not carry tags while Permit VLAN frames forwarded by the trunk port carry tags. Trunk port is connected to switches. You can set the Permit VLAN range to limit VLAN frames that can be forwarded. Make sure the trunk ports at the two ends of the link are configured with the same Native VLAN.

5 Security

5.1 DHCP Snooping

5.1.1 Overview

The Dynamic Host Configuration Protocol (DHCP) snooping function allows a device to snoop DHCP packets exchanged between clients and a server to record and monitor the IP address usage and filter out invalid DHCP packets, including request packets from the clients and response packets from the server.

5.1.2 Configuration Steps

Choose **Configuration > DHCP Snooping**.

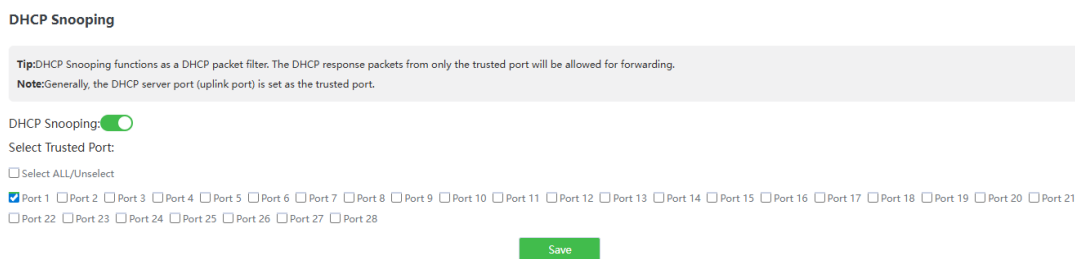
Toggle the switch to **On** to enable DHCP snooping, select the trusted ports, and then click **Save**.

When DHCP snooping is enabled, response packets are forwarded from only trusted ports of the DHCP servers.

Caution

The uplink port connected to the DHCP server is configured as the trusted port generally.

Figure 5-1 DHCP Snooping



DHCP Snooping

Tip: DHCP Snooping functions as a DHCP packet filter. The DHCP response packets from only the trusted port will be allowed for forwarding.
Note: Generally, the DHCP server port (uplink port) is set as the trusted port.

DHCP Snooping:

Select Trusted Port:

Select ALL/Unselect

Port 1 Port 2 Port 3 Port 4 Port 5 Port 6 Port 7 Port 8 Port 9 Port 10 Port 11 Port 12 Port 13 Port 14 Port 15 Port 16 Port 17 Port 18 Port 19 Port 20 Port 21 Port 22 Port 23 Port 24 Port 25 Port 26 Port 27 Port 28

Save

5.2 Storm Control

5.2.1 Overview

When a local area network (LAN) has excess broadcast, multicast, or unknown unicast data flows, the network speed will slow down and packet transmission will have an increased timeout probability. This situation is called a LAN storm, which may be caused by topology protocol execution errors or incorrect network configuration.

You can perform storm control separately for the broadcast, unknown multicast, and unknown unicast data flows. When the rate of broadcast, unknown multicast, or unknown unicast data flows received over a device port exceeds the specified range, the device transmits only packets in the specified range and discards packets beyond the range until the packet rate falls within the range. This prevents flooded data from entering the LAN and causing a storm.

5.2.2 Configuration Steps

Choose **QoS > Storm Control**.

Select the storm control type, port, status, and enter the rate limit, and then click **Save**.

The storm control type and corresponding rate are displayed in the table right below the **Save** button. When storm control is disabled, the rate of broadcast, unknown multicast, and unknown unicast data flows is not limited. The corresponding status is displayed **Disabled**. When storm control is enabled, the corresponding rate limits will be displayed.

Figure 5-2 Storm Control

Storm Control

Type	Port	Status	Rate(Mbit/sec)
Broadcast	Port 1	Enable	1000 (1-1000M)

Save

Type	Broadcast(Mbit/sec)	Unknown Unicast(Mbit/sec)	Unknown Multicast(Mbit/sec)
Port 1	Disabled	Disabled	Disabled
Port 2	Disabled	Disabled	Disabled
Port 3	Disabled	Disabled	Disabled
Port 4	Disabled	Disabled	Disabled
Port 5	Disabled	Disabled	Disabled
Port 6	Disabled	Disabled	Disabled
Port 7	Disabled	Disabled	Disabled
Port 8	Disabled	Disabled	Disabled
Port 9	Disabled	Disabled	Disabled
Port 10	Disabled	Disabled	Disabled
Port 11	Disabled	Disabled	Disabled
Port 12	Disabled	Disabled	Disabled

5.3 Loop Guard

Choose **Monitoring > Loop Prevention**.

When loop guard feature is enabled, the port causing the loop will be shut down automatically. After the loop is removed, the port will be up automatically. Loop guard function is disabled by default.

Figure 5-3 Loop Prevention

Loop Prevention

The port causing the loop will be shut down. After the loop is removed, the port will be up automatically.

Enabled

6 PoE Settings

✔ Specification

This function is supported by switch models suffixed with -P, -LP, -HP, or -UP in the [Supported Hardware Models](#), such as the LCS-24GS-P.

Choose **PoE** from the navigation pane.

The device supplies power to PoE powered devices through ports. You can view the power supply status of the current system and ports and configure whether to enable the power supply feature on a specified port.

- **PoE Info:** The total power, used power, remaining power, and current work status of the PoE system are displayed.
- **PoE watchdog:** This feature is mainly applicable to Closed-Circuit Television (CCTV) scenarios for security purposes. After this feature is enabled, when a PoE port of the device suddenly stops receiving packets during the ping interval, the powered device (PD) will be restarted after the ping interval expires to restore normal operation.

i Note

If a non-PD, such as a PC, is connected to a PoE port of this device, the PoE watchdog will not initiate any action on the non-PD even if the trigger condition is met.

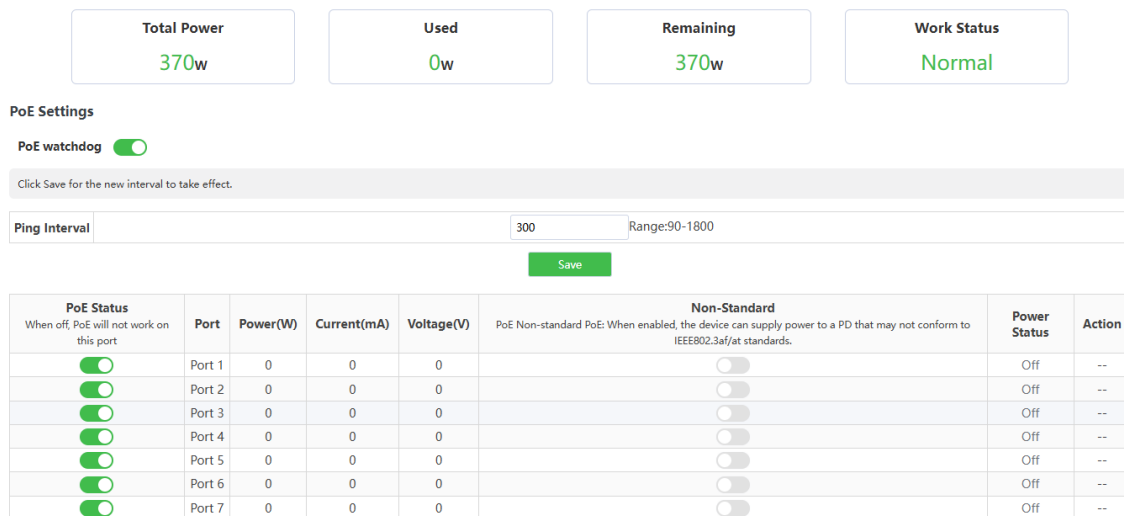
Table 6-1 PoE Watchdog Application Description

Packet Receiving Status of the PoE Port	Whether PoE Watchdog is Enabled	Action Taken on the PD
During the ping interval, a PoE port of the device suddenly stops receiving packets.	Yes	Restart the PD to restore normal operation and reset the ping interval.
	No	No action is initiated on the PD.
During the ping interval, a PoE port of the device stops receiving packets all the time.	Yes	No action is initiated on the PD.
	No	No action is initiated on the PD.
	Yes	Reset the ping interval.

Packet Receiving Status of the PoE Port	Whether PoE Watchdog is Enabled	Action Taken on the PD
During the ping interval, a PoE port of the device starts to receive packets.	No	No action is initiated on the PD.

- Port status
 - The voltage, current, output power, and current power status of the device ports are displayed.
 - You can toggle on or off PoE Status to enable or disable the PoE feature. When PoE is disabled, the port will not supply power to PDs.
 - When the switch needs to supply power to a PD that does not comply with IEEE 802.3af/at, you can toggle on Non-Standard.

Figure 6-2 PoE Information and Configuration



7 Toolkit

7.1 Cloud Settings

Choose **Toolkit > Cloud Settings**.

On Lysora Cloud, you can check the status of your device, including its cloud connectivity status, reason for failure to connect, and the domain name and IP address of the cloud server.

- To change the domain name of the device, enter the new domain name in the **Domain** field, and then click **Save**.
- To restore the default domain name, click **Restore Default**, and then click **OK** on the pop-up window.


Figure 7-1 Cloud Settings

Cloud Settings

Cloud Status	Connectable
Reason	This device is not registered to Cloud.
Domain	deviceiotrc.lysoratech.com:7683
IP	3.23.53.160

Save
Restore Default

Table 7-1 Cloud Settings Parameters

Parameter	Description
Cloud Status	Indicates the connectivity status of the device on the cloud, including Connected , Unconnected and Connectable .
Reason	Indicates the reason for connection failure. Reasons for different cloud statuses: <ul style="list-style-type: none"> ● Connected: No reason is displayed. ● Unconnected: <ul style="list-style-type: none"> ○ No Internet connection or DNS resolution failure. ○ This device failed to connect to Lysora Cloud. ● Connectable: This device is not registered to Lysora Cloud.
Domain	Domain name of the cloud server <hr/> <p> Caution</p> <ul style="list-style-type: none"> ● The coap:// prefix is not required in the domain name field as it is added by default. ● After the domain name is changed, the page is refreshed after 5 seconds by default.
IP	IP address of the cloud server resolved based on the cloud address.

7.2 System Logs

Choose Toolkit > Logs.

System logs record device operations, operation time, and operation modules. System logs are used by administrators to monitor the running status of the device, analyze network status, and locate faults.

Figure 7-2 System Logs

Logs

Number	Time(UTC)	Type	Module	Details
1	2025/09/21 07:20:41	info	port	Port1 link up.
2	2025/09/21 07:20:11	info	port	Port1 link down.
3	2025/08/15 01:45:17	info	port	Port1 link up.
4	2025/08/15 01:45:15	info	port	Port1 link down.
5	2025/08/15 01:45:13	info	port	Port1 link up.
6	2025/08/15 01:44:39	info	port	Port1 link down.
7	1970/01/01 00:01:16	info	port	Port1 link up.
8	1970/01/01 00:01:10	info	port	Port1 link down.
9	1970/01/01 00:00:08	info	port	Port1 link up.

1 Clear

⚠ Caution

If the issue persists despite following the troubleshooting methods provided in this section, you may require remote support from a technician who will enable developer mode to resolve the issue. We will ensure your data is protected during this process.

8 System Settings

8.1 Managing Device Information

8.1.1 Viewing Device Information

Choose **Home** from the navigation page.

The **Device Info** pane on the **Home** page displays basic information about the device, including hostname, device model, serial number, firmware version, IP address, MAC address, cloud status, and uptime. You can view more information about the device by choosing **Monitoring > Device Info**.

Figure 8-1 Device Info

Device Info

Model: LCS-24GS-P	Firmware Version: Lysora 1.51.0.2012
MAC Address: C4:B2:5B:6	SN: G1U20Y
IP Address: 192.168.110.101	Uptime: 41d 00h 28min 53s
Cloud Status: Connectable Download App	Hostname: Lysora Edit

Figure 8-2 Viewing Device Information

Device Info	
Hostname	Lysora
Model	
MAC Address	C4B25B68A964
IP Address	192.168.110.101
Submask	255.255.255.0
Gateway	192.168.110.1
DNS	192.168.110.1
SN	G1U
Firmware Version	Lysora 1.51.0.2012
Firmware Date	Aug 12 2025
Hardware Version	1.00

8.1.2 Editing the Hostname

Choose **Home** from the navigation page.

Enter the hostname and click **Edit** to edit the hostname in order to distinguish different devices.

Figure 8-3 Editing the Hostname

Device Info	
Model: LCS-2	Firmware Version: Lysora 1.51.0.2012
MAC Address: C4:B2	SN: G1U
IP Address: 192.168.110.101	Uptime: 41d 00h 39min 31s
Cloud Status: Connectable Download App	Hostname: Lysora Edit

8.1.3 Cloud Management

Choose **Home** from the navigation page.

Cloud status displays whether the device is connected to the cloud. After the device is bound to a cloud management account, the Cloud Status will display **Connected**, and you can manage the device remotely through Lysora Cloud webpage or APP. Click **Connected** to access the homepage of Lysora Cloud. Click **Download App** to download Lysora Cloud APP.

Figure 8-4 Cloud Management

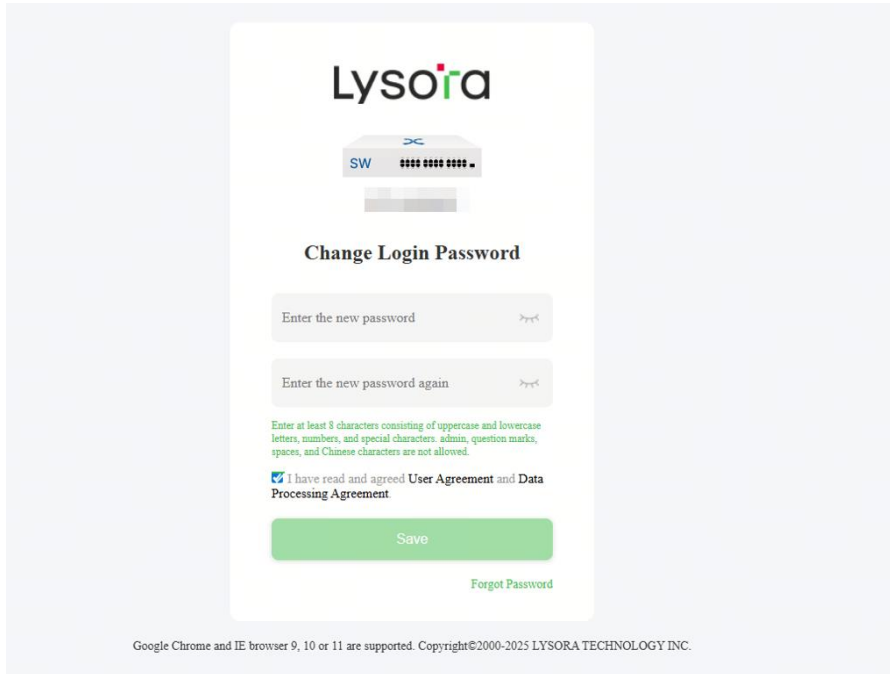
Device Info	
Model: LCS-24GS-P	Firmware Version: Lysora 1.51.0.2012
MA You can manage the device remotely on App. Click here to download App.	SN: G1U20W
Cloud Status: Connectable Download App	Uptime: 41d 00h 40min 09s
	Hostname: Lysora Edit

8.2 Login Password Settings

- Set the login password on the login page.

When logging in to the device for the first time or after resetting it to factory settings, you need to set a new login password on the login page. Click **Save** to apply changes and log in to the device with your new password.

Figure 8-5 Setting the Login Password on the Login Page



- Change the login password after login.

After logging in to the device, choose **System > Account Settings**. On the **Account Settings** page, set a new password and click **Save**. The system will automatically redirect you to the login page, where you can log in using the new password.

Figure 8-6 Setting the Login Password

Account Settings

Account	admin
Password	Password <small>Please enter 8 to 16 letters or numbers or special characters.</small>
Confirm Password	Confirm Password

⚠ Caution

- A new management password cannot be set on the Account Settings page in the following scenarios:
- This device, when in network-management mode, cannot be configured with an individual management password. You can log in to the primary device to modify the network-wide management password.

- If this device is managed by Lysora Cloud or Lysora Cloud App, you can modify the network-wide management password through Lysora Cloud or Lysora Cloud App. Changing the management password on the device will not synchronize the changes on Lysora Cloud or Lysora Cloud with the device.

Figure 8-7 Network-Management Mode

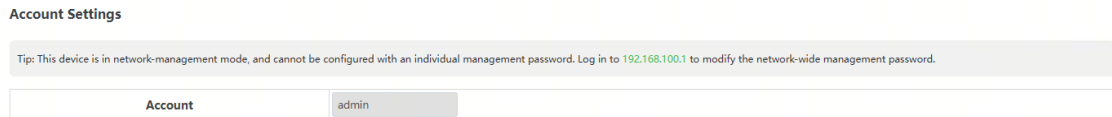
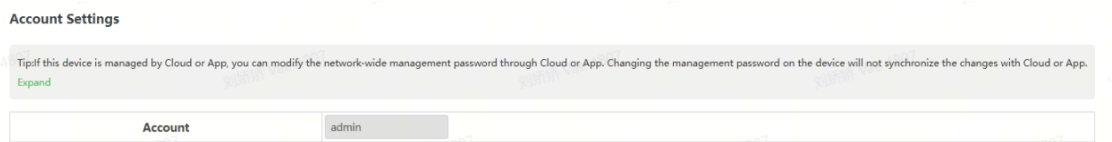


Figure 8-8 Management Through Lysora Cloud or Lysora Cloud App

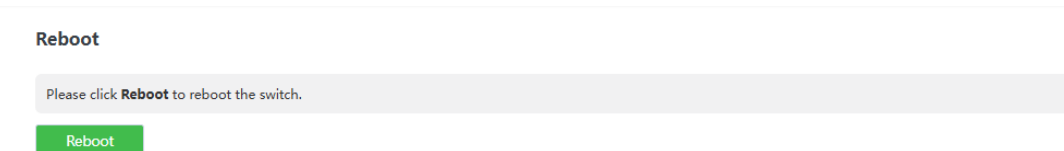


8.3 Device Reboot

Choose **System > Reboot**.

Click **Reboot** to reboot the switch.

Figure 8-9 Device Reboot



8.4 System Upgrade

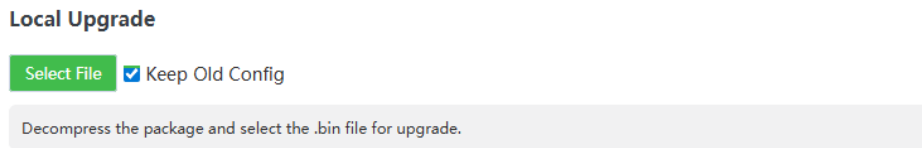
8.4.1 Local Upgrade

Choose **System > Upgrade**.

Click **Select File** to select the upgrade package from the local files (the upgrade package is a bin file. If it is a tar.gz file, you need to decompress the package and select the bin file for upgrade).

Keep Old Config is selected by default. That means the current configuration will be saved after device upgrade. If there is a huge difference between the current version and the upgrade version, you are advised not to select **Keep Old Config**.

Figure 8-10 Local Upgrade

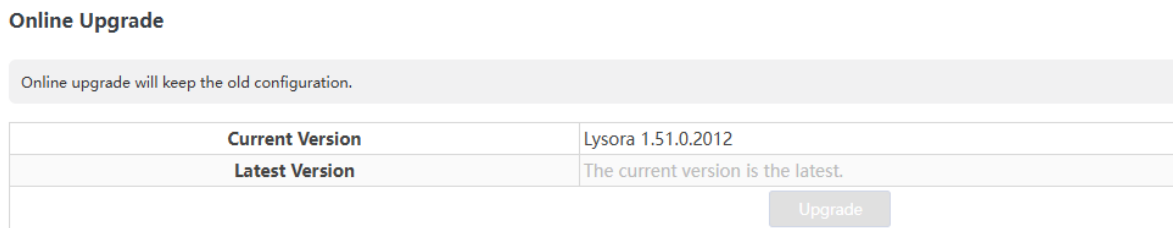


8.4.2 Online Upgrade

Choose **System > Upgrade**.

When there is a new version in the cloud, the version number of the latest version will be displayed on this page, and the **Upgrade** button will become available. The device will download the installation package of the recommended version from the cloud and it will be updated to the latest version. Online upgrade will keep the old configuration by default.

Figure 8-11 Online Upgrade



Note

The time that online upgrade takes depends on the current network speed. It may take some time. Please be patient.

8.5 Restoring Factory Configuration

Choose **System > Reset**.

Click **Reset** to restore factory configuration and reboot the device.

Figure 8-12 Restoring Factory Configuration

Reset

Reset the device to factory settings and restart it.

Reset

9 Monitoring

9.1 Cable Test

Note

Only RJ45 ports support the cable test feature.

Choose **Monitoring > Cable Test**.

Cable Test allows you to check the status of Ethernet cables. For example, you can check whether the cables are short-circuited or disconnected.

Select the ports you want to detect, and then click **Start** to start cable diagnostics. The test result will be displayed accordingly. Click **Start All** to perform one-click cable diagnostics on all ports.

Figure 9-1 Cable Test

Cable Test

<input type="checkbox"/>	Port	Test Result	Details
<input checked="" type="checkbox"/>	Port 1	Disconnected	Please check cable connection or replace the cable.
<input checked="" type="checkbox"/>	Port 2	Disconnected	Please check cable connection or replace the cable.
<input checked="" type="checkbox"/>	Port 3	Disconnected	Please check cable connection or replace the cable.
<input checked="" type="checkbox"/>	Port 4	Disconnected	Please check cable connection or replace the cable.
<input checked="" type="checkbox"/>	Port 5	Normal	The cable works well.
<input checked="" type="checkbox"/>	Port 6	Disconnected	Please check cable connection or replace the cable.

Caution

If you select an uplink port for diagnostics, the network may be intermittently disconnected. Exercise caution when performing this operation.

9.2 Multi-DHCP Alarming

⚠ Caution

Multi-DHCP alarming will fail when the device IP address is not obtained dynamically. For relevant IP address configuration, see [3.6 Management IP Address](#).


Choose **Home** from the navigation page.

When there are multiple DHCP servers in a LAN, the system will send a conflicting alarm. An alarming message will be displayed in the **Device Info** column.

Figure 9-2 Multi-DHCP Alarming



Device Info	
Model: LCS-8GS-P	Firmware Version: Lysora 1.51.0.2123
MAC Address: 0023:79	SN: TES
IP Address: 192.168.110.126	Uptime: 00h 52min 10s
Cloud Status: Connected Download App	Hostname: Lysora Edit

Move the cursor to  to view the alarm details, including the VLAN where the conflicts occur, port, IP address of DHCP server, and MAC address.

9.3 Viewing Switches on the Network

Choose **Monitoring > Device List**.

- Primary device for global management

If the switch is under uniform management, some features cannot be configured independently (such as password settings). To facilitate configuration, information of the primary device in the VLAN will be displayed on this page. Click the IP address of the primary device to access the **Primary Device** page for global configuration.
- Devices in the same management VLAN

The device is able to automatically discover other switches in the same management VLAN. Information of these switches will be displayed in **Switch List**.

The first row of **Switch List** displays information of the current device, and the following rows display information of other devices. Click the **IP address** of a device to access Web of the device (login required).

Figure 9-3 Viewing Switches on the Network

Primary Device

The current device has been managed by the master device. Please click the IP address to manage the master device.

IP Address	SN	Model
192.168.110.139		LS3-24SFPJ8GT4XS

Switch List

Up to 16 switches of the same management VLAN can be discovered.

No.	IP Address	SN	Hostname
1	192.168.110.126(Local)		Lysora

Note

The number of switches that can be discovered varies with product models.

10 FAQs

10.1 I failed to log in to Web. What can I do?

- (1) Verify that an Ethernet cable is properly connected to the LAN port of the device and the LED blinks or is steady on.
- (2) Before accessing Web, you are advised to configure a static IP address for a PC on the same network segment as the device IP address (default device IP address: 10.100.111.200 and subnet mask: 255.255.255.0). For example, set the IP address of the PC to 10.100.111.100 and the subnet mask to 255.255.255.0.
- (3) Run the **ping** command to test the connectivity between the PC and the device.
- (4) If the login failure persists, restore the device to factory settings.

10.2 What can I do if I forget my password? How can I restore the factory settings?

Caution

Press and hold the **Reset** button on the device panel for more than 5 seconds. This action will restore the device to factory settings, clearing all configurations. Exercise caution when performing this operation.

If you forget the password and cannot log in to the device, follow these steps:

- (1) With the device powered on, press and hold the **Reset** button on the device panel for more than 5 seconds. Release the button when the system LED blinks to restore the device to factory settings.
- (2) Once the device restarts, log in to Web using the default management IP address (10.100.111.100).
- (3) On the login page, set a new password and use it to log in to the device.