

# CIS-SW-24 User Manual

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## Welcome to Custom Integration Solutions

Thank you for purchasing CIS devices. Our solutions make it easy for integrators to deploy networks in home and business settings with minimal configuration. Our support team is here to assist with setting up equipment and answering your network related questions.

### Overview

The CIS-SW-24 network switch is equipped with an ARM CPU and 512 MB of RAM, giving it plenty of switching capacity for most commercial applications and large home networks.

It is equipped with twenty-four Gigabit Ethernet ports and two SFP+ ports compatible with 1.25G SFP and 10G SFP+ modules.

### Package Contents



Switch



24V DC Adapter



Rack ears (2)

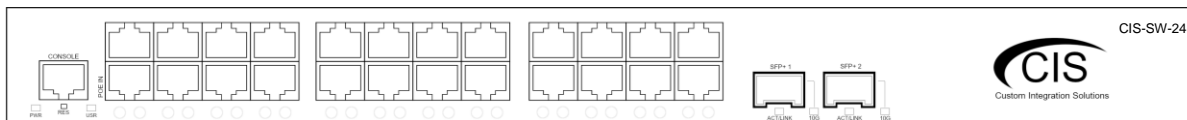


Screws (8)

### Power

The unit is shipped with a 24V 1.2A Power adapter and can be powered over PoE and accepts 10-30V DC. Maximum power consumption is 24W.

## Device Details



### Ports

- 24 Gigabit Ethernet ports (with Auto MDI/X). Port 1 accepts PoE input.
- 2 SFP+ cages, which accept both 1.25 Gb SFP and 10 Gb SFP+ modules.
- RJ45 serial port—disabled by default.

### LED Indicators

- PWR—Indicates the device is powered on.
- USR—An LED that can be customized by CIS. Default is off.
- Ethernet LEDs—Indicates network activity for each port.
- SFP+ ACT/LINK—Indicates activity on the SFP ports.
- SFP+ 10G—Indicates a 10 Gigabit link on an SFP port.

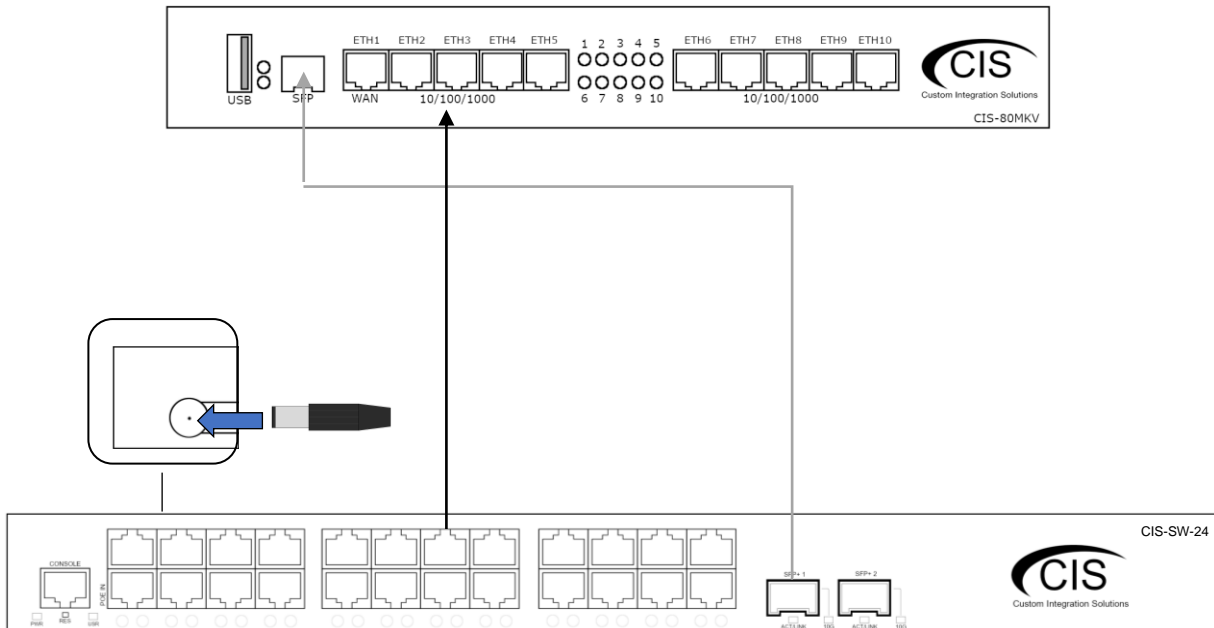
### Buttons

Reset button: Hold this button while the device is powered off, then apply power. Keep holding until the USR LED light starts flashing, (5 seconds) then release the button to reset to the default CIS configuration. You can use this procedure if you have forgotten the password to access the device, or simply wish to return the unit to its default configuration state.

### Input Power Requirements

The CIS-SW-24 is powered via the included 24V adapter or via PoE input on port 1 (10-30V DC).

## Quick Setup



1. Connect the included 24V DC adapter to the jack on the rear of the switch, or power via PoE on port 1.
2. Connect the switch to the router with an Ethernet cable or SFP cable. Do not connect both cables at the same time.
3. Connect your network devices to the remaining ports on the switch.

## Setup and Accessing the Web Interface

1. Connect the switch to your router using either an Ethernet or SFP cable. Do not connect both to the router.
2. Connect your laptop or PC to any remaining Ethernet port on the front of the CIS switch (excluding the console port). You can also access the web interface plugged directly into the router.
3. To access the web interface, you must obtain the IP address assigned to the switch. Access your router's configuration page, then find the IP address assigned to the switch in the DHCP leases.
4. Launch a web browser and navigate to the IP address of the switch. To login, enter the username **cis** and password **integration**.
5. Integrators may use the Get TeamViewer link if remote assistance is required.



## The Status Page

The status page provides basic diagnostic information. There is a CIS Support Address should you require assistance. The switch's Identity will show you which device you are accessing on your network. You can view uptime, memory usage and load on the CPU.

The screenshot shows the CIS Switch Status page for device CIS-SW-24. The page is divided into several sections:

- ISP Section:** Includes fields for "ISP Public Address" and "CIS Switch Address".
- CIS Switch Section:** Displays "CIS Switch Identity" as CIS-SW-24, "Current Firmware" as 7.13, "CIS Switch Uptime" as 00:11:57, "Total Memory" as 512.0 MIB, "CPU Load" as 5 %, and "Free Memory" as 446.9 MIB.
- CIS Platinum Support Section:** Includes a "Support Address" field with a note: "FOR INTEGRATOR PLATINUM SUPPORT PRESENT YOUR CIS SUPPORT ADDRESS ACCESS NUMBER".
- Byte Graph:** A line graph showing transmission (Tx) and reception (Rx) rates over time. The legend indicates columns for current (cur), average (avg), and maximum (max) values for both Tx and Rx.
- Packet Graph:** A line graph showing transmission (Tx) and reception (Rx) packet counts over time. The legend indicates columns for current (cur), average (avg), and maximum (max) values for both Tx and Rx packets.

## Setting the Switch's Identity

The identity is used to identify your device on the network. If you have multiple switches of the same model, it is recommended you use a naming scheme to identify them.

The **Identity** setting can be found in the **System** tab in the left toolbar.

The screenshot shows the CIS Switch Identity configuration page for device CIS-SW-24. The page is titled "Identity" and features a text input field containing "CIS-SW-24". Below the input field, the text "Switch Identity" is displayed. An "Apply" button is located at the bottom right of the configuration area. The left sidebar shows the "System" tab selected.



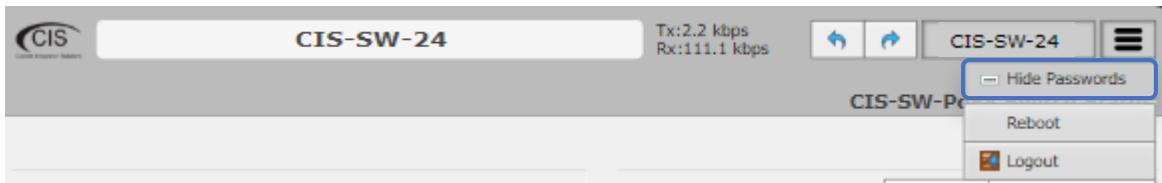
## Undo / Redo

Undo and Redo buttons are located on the top. You may use them to quickly undo/redo any changes made to configuration.



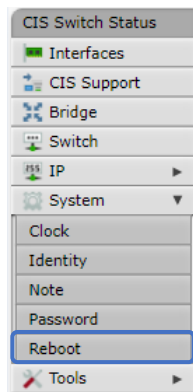
## Show / Hide Passwords

Selecting the **Hide Passwords** button in the Menu on top right corner will toggle the displaying of passwords related to Wi-Fi, Hotspot, and more.



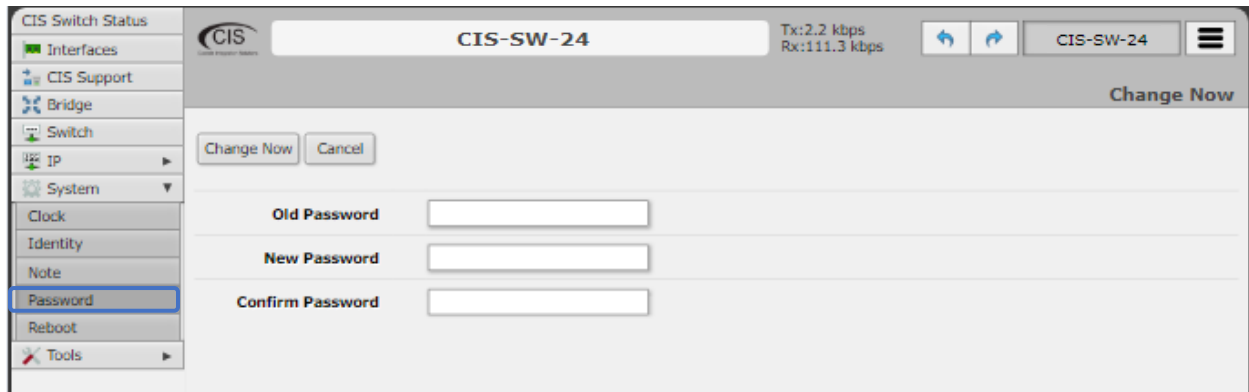
## Rebooting the Device

If you are having ongoing issues with your network and suspect a reboot will help, the Reboot option can be found in the Menu on top right corner. Clicking reboot will ask for confirmation before proceeding.



## Changing the Default Password

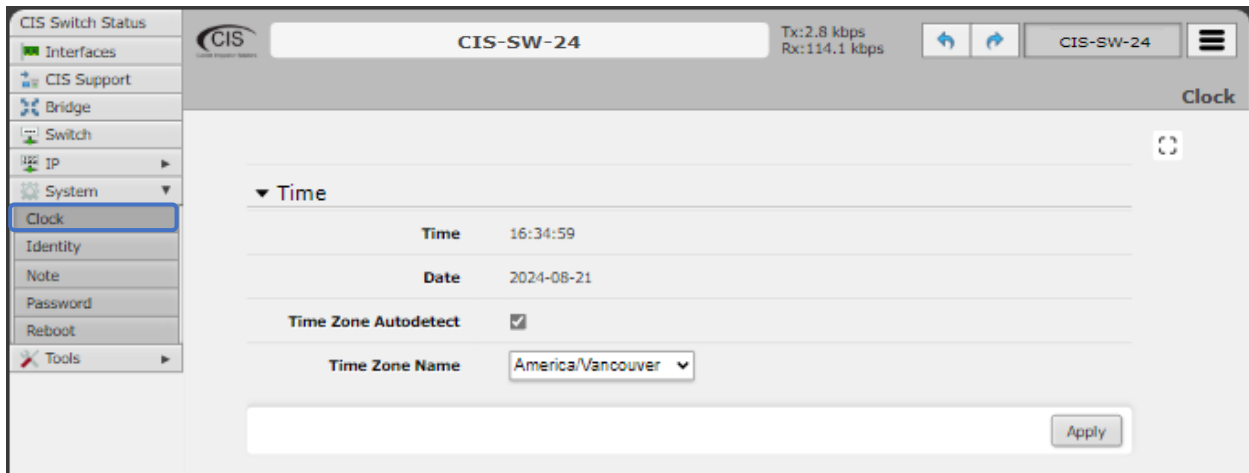
After you log in for the first time, please create a new password to increase the security of the device. Enter the old password in the top field and a secure password in the new and confirm password fields.



The screenshot shows the CIS SW-24 web interface. The left sidebar contains a menu with the following items: CIS Switch Status, Interfaces, CIS Support, Bridge, Switch, IP, System, Clock, Identity, Note, Password (highlighted), Reboot, and Tools. The main content area is titled 'CIS-SW-24' and shows network statistics (Tx: 2.2 kbps, Rx: 111.3 kbps) and a 'Change Now' button. Below this, there are three input fields labeled 'Old Password', 'New Password', and 'Confirm Password'. There are also 'Change Now' and 'Cancel' buttons at the top of the form.

## Setting the Time Zone

You can find the Clock settings under the System tab in the left toolbar. Select your time zone from the drop-down menu.



The screenshot shows the CIS SW-24 web interface with the 'Clock' settings page. The left sidebar menu is the same as in the previous screenshot, but 'Clock' is highlighted. The main content area is titled 'Clock' and shows a 'Time' section with a refresh icon. The 'Time' section includes fields for 'Time' (16:34:59) and 'Date' (2024-08-21). Below these is a 'Time Zone Autodetect' checkbox which is checked. The 'Time Zone Name' is set to 'America/Vancouver' in a dropdown menu. There is an 'Apply' button at the bottom right of the form.

## IP Addressing

### View the Switch's IP Addresses

By default, the switch will acquire an IP address through DHCP. You can view the IP addresses in the **IP > Addresses** section. In the picture below, there is an entry for a static address (optional), an entry for your support IP address (if the support tunnel is enabled), and an entry for the IP address received via DHCP.

|   |   | Comment           | Address      | Network           | Interface |
|---|---|-------------------|--------------|-------------------|-----------|
| E | X | 10.100.1.2/24     | 10.100.1.0   | bridge-operations |           |
|   |   | 10.255.255.100/32 | 10.255.254.1 | CIS_Support       |           |
|   |   | 172.16.255.235/23 | 172.16.254.0 | bridge-operations |           |

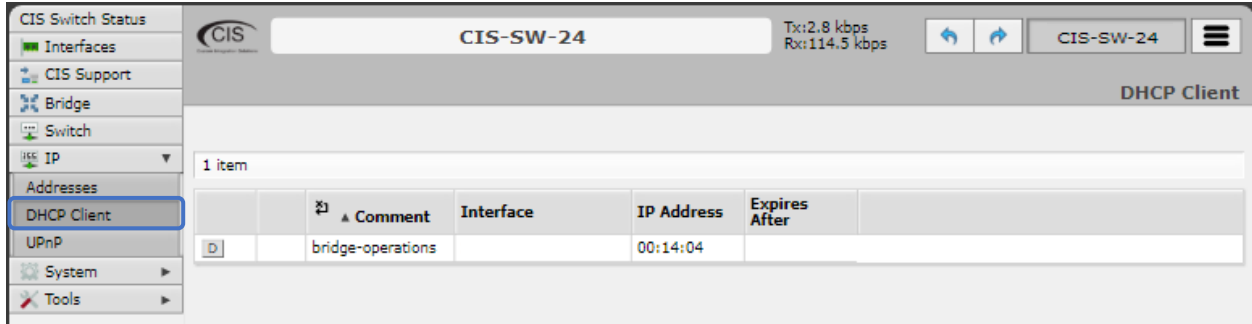
### CIS Support

With the CIS Support tunnel activated, the CIS team can make configuration changes, push updates, and troubleshoot your network. Press the button to the left of the entry. “D” stands for disable, while “E” stands for enable.

|   |   | Comment | Name            | Type        | Actual MTU | L2 MTU | Tx         | Rx        | Tx |
|---|---|---------|-----------------|-------------|------------|--------|------------|-----------|----|
| D | R |         | <=> CIS_Support | SSTP Client | 1500       |        | 116.9 kbps | 18.9 kbps | 12 |

## Renewing the IP Address

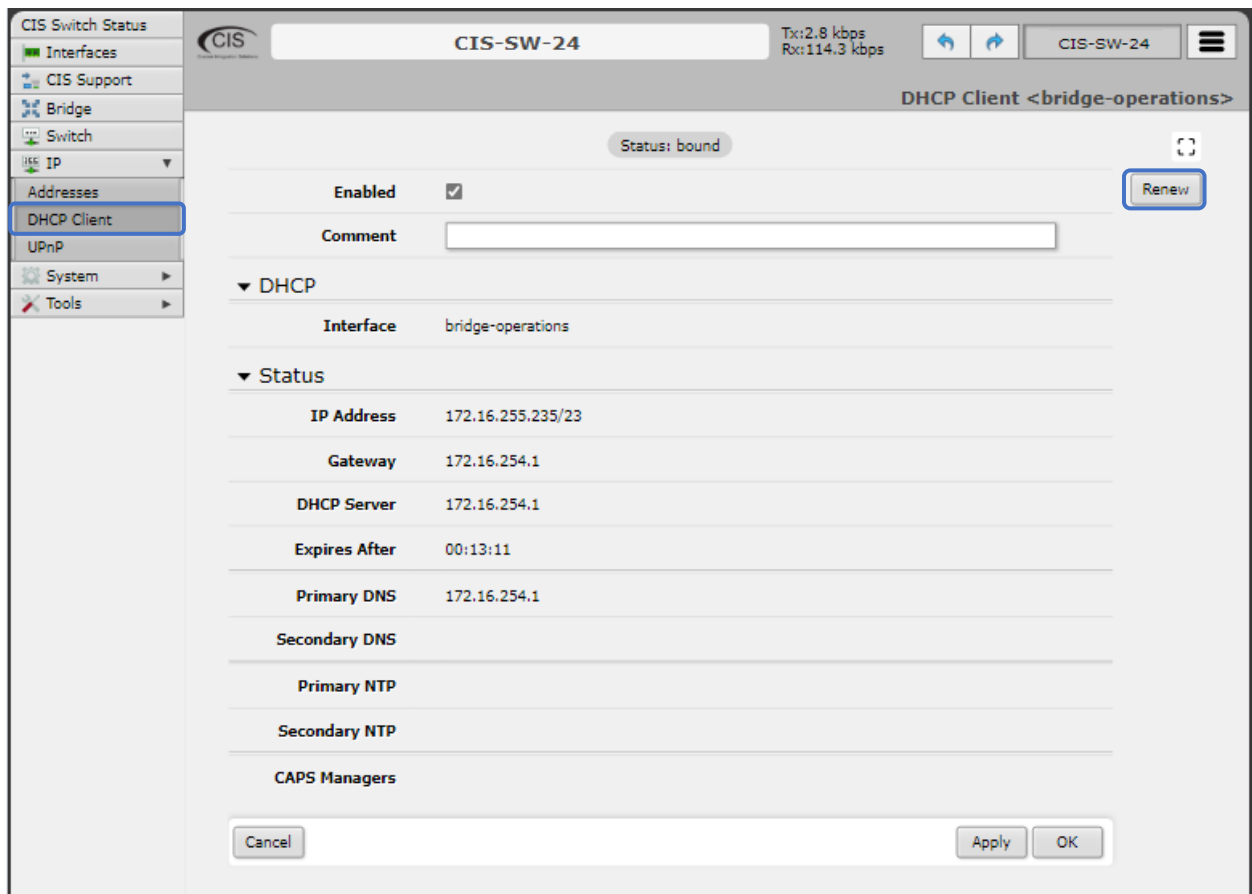
To renew the IP address, select the **DHCP Client** section under the **IP** tab.



The screenshot shows the CIS SW-24 configuration interface. The left sidebar has the 'DHCP Client' option selected under the 'IP' tab. The main area displays a table with one entry:

|   | Comment           | Interface | IP Address | Expires After |
|---|-------------------|-----------|------------|---------------|
| D | bridge-operations |           | 00:14:04   |               |

Click on the entry to bring up the options. Click the **Renew** button to obtain a new lease.



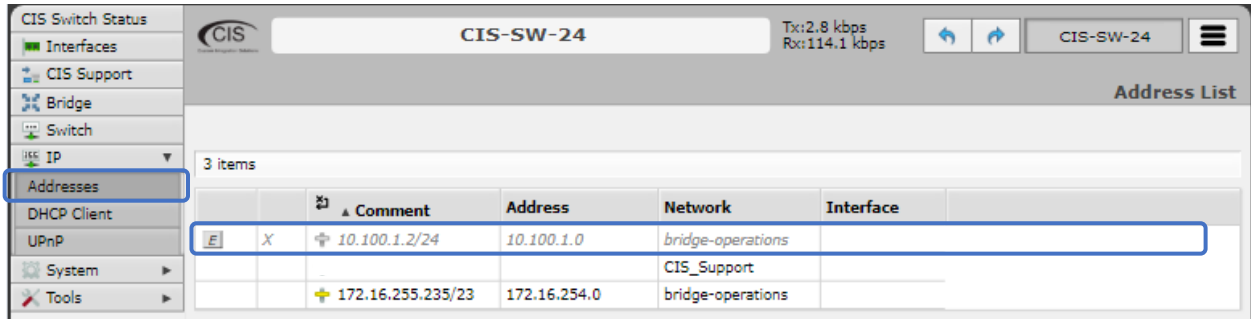
The screenshot shows the detailed configuration for the DHCP Client 'bridge-operations'. The status is 'bound'. The 'Enabled' checkbox is checked. A 'Renew' button is visible in the top right. The configuration includes the following details:

- Interface:** bridge-operations
- Status:**
  - IP Address:** 172.16.255.235/23
  - Gateway:** 172.16.254.1
  - DHCP Server:** 172.16.254.1
  - Expires After:** 00:13:11
  - Primary DNS:** 172.16.254.1
  - Secondary DNS:**
  - Primary NTP:**
  - Secondary NTP:**
  - CAPS Managers:**

Buttons for 'Cancel', 'Apply', and 'OK' are located at the bottom of the configuration window.

## Setting a Static IP address

To set a static IP, select **Addresses** from the **IP** tab. Click on the field containing the disabled IP address.



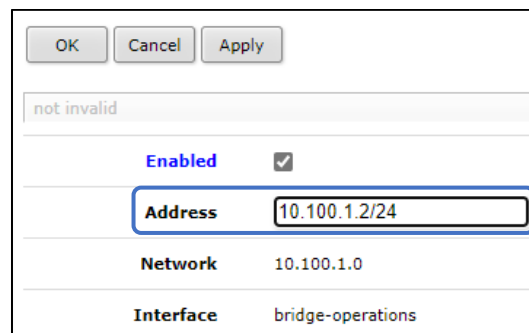
The screenshot shows the CIS Switch configuration interface for CIS-SW-24. The left sidebar has the 'Addresses' option selected. The main area displays a table titled 'Address List' with 3 items. The first item is highlighted with a blue border and has a red 'X' in the status column, indicating it is disabled. The table columns are Comment, Address, Network, and Interface.

|   | Comment           | Address      | Network           | Interface |
|---|-------------------|--------------|-------------------|-----------|
| X | 10.100.1.2/24     | 10.100.1.0   | bridge-operations |           |
|   | 172.16.255.235/23 | 172.16.254.0 | CIS_Support       |           |
|   |                   |              | bridge-operations |           |

If your network falls in one of the ranges below, you can set the static IP address yourself. If it is outside of these ranges, you must call CIS to have a route created!

| Available address ranges: |               |                |                |
|---------------------------|---------------|----------------|----------------|
| 172.16.1.0/24             | 10.100.1.0/24 | 192.168.1.0/24 | 192.168.0.0/24 |

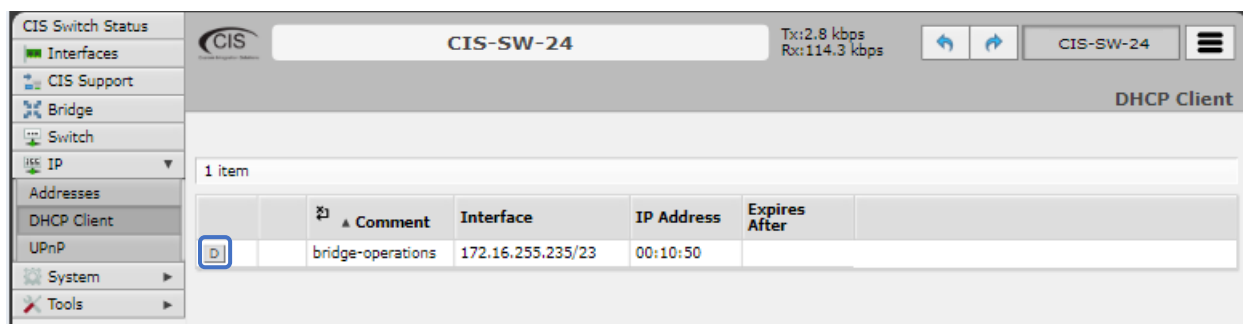
Enter the IP address to assign to the switch. Ensure that it is outside of the DHCP pool, and not in use by other devices. The format must include **/24** at the end. This is the subnet mask, which determines how many devices can be connected to this network.



The screenshot shows a dialog box for configuring a static IP address. It has buttons for 'OK', 'Cancel', and 'Apply'. A text field contains 'not invalid'. Below this, there is a section for 'Enabled' with a checked checkbox. The 'Address' field is highlighted with a blue border and contains '10.100.1.2/24'. Below it, the 'Network' is set to '10.100.1.0' and the 'Interface' is set to 'bridge-operations'.

|             |                                     |       |
|-------------|-------------------------------------|-------|
| OK          | Cancel                              | Apply |
| not invalid |                                     |       |
| Enabled     | <input checked="" type="checkbox"/> |       |
| Address     | 10.100.1.2/24                       |       |
| Network     | 10.100.1.0                          |       |
| Interface   | bridge-operations                   |       |

Once you have set the static IP address, disable the DHCP client. Go to the **DHCP Client** tab located under **IP** in the toolbar. Click the “D” to disable the DHCP client.



The screenshot shows the CIS Switch Status interface for CIS-SW-24. The left sidebar contains a navigation menu with the following items: CIS Switch Status, Interfaces, CIS Support, Bridge, Switch, IP (selected), Addresses, DHCP Client (selected), UPnP, System, and Tools. The main content area is titled "DHCP Client" and displays a table with one item. The table has the following columns: Comment, Interface, IP Address, and Expires After. The first row contains the following data: Comment: bridge-operations, Interface: 172.16.255.235/23, IP Address: 00:10:50. A small "D" button is visible in the first column of the table, which is highlighted with a blue box.

|                          | Comment           | Interface         | IP Address | Expires After |
|--------------------------|-------------------|-------------------|------------|---------------|
| <input type="checkbox"/> | bridge-operations | 172.16.255.235/23 | 00:10:50   |               |

# Interfaces

To view the interface status, select **Interfaces**, then the **Ethernet** tab. The Ethernet tab provides an overview of the activity on all ports. You can view the traffic sent and received and other diagnostic information.

|     | Comment | Name           | Type     | MTU  | Actual MTU | L2 MTU | Tx         | Rx        | Tx Packet (p/s) |
|-----|---------|----------------|----------|------|------------|--------|------------|-----------|-----------------|
| [D] |         | ether-01       | Ethernet | 1500 | 1500       | 1592   | 632.1 kbps | 75.9 kbps | 88              |
| [D] |         | ether-02       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-03       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-04       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-05       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-06       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-07       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-08       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-09       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-10       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-11       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-12       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-13       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-14       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-15       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-16       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-17       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-18       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-19       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-20       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-21       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-22       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-23       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | ether-24       | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | sfp-sfpplus-01 | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |
| [D] |         | sfp-sfpplus-02 | Ethernet | 1500 | 1500       | 1592   | 0 bps      | 0 bps     | 0               |

## Power Cycling an Ethernet Port

Click the **Power Cycle** button in the Interfaces > Ethernet section. Select the port and duration, then click **Power Cycle**.



## VLANs

VLANs provide isolation between your network devices. This can keep traffic from designated devices secure and restricted from other devices on the network and reduce the overall congestion. It is highly recommended to deploy VLANs for VoIP applications and systems that handle sensitive data.

### Purchase VLAN configuration

For a complete VLAN model, the router, access points and switching all require additional configuration.

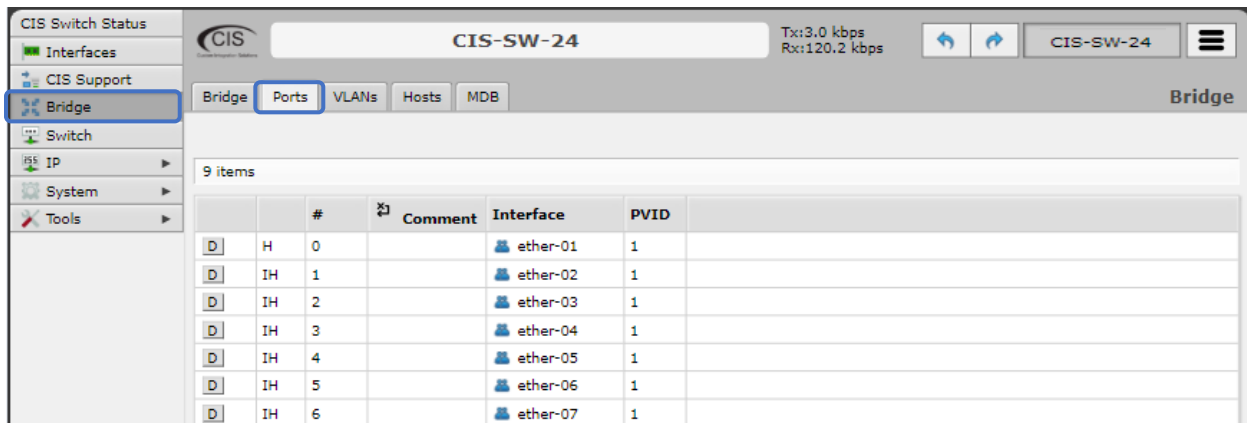
VLANs and additional networks are available on the CIS Store.

<https://www.cisnetworks.com/store/cis-vlan-interface/>

<https://www.cisnetworks.com/store/cis-additional-network/>

### Changing the VLAN on a Port on a Preconfigured System

Select **Bridge** from the left toolbar, then click on the **Ports** tab. Select the port you wish to change the VLAN on.



The screenshot shows the CIS Switch Status interface for CIS-SW-24. The left sidebar has 'Bridge' selected. The main area shows the 'Ports' tab with a table of 9 items. The table has columns for #, Comment, Interface, and PVID. The PVID field is highlighted for the selected port.

|   |    | # | Comment | Interface | PVID |
|---|----|---|---------|-----------|------|
| D | H  | 0 |         | ether-01  | 1    |
| D | IH | 1 |         | ether-02  | 1    |
| D | IH | 2 |         | ether-03  | 1    |
| D | IH | 3 |         | ether-04  | 1    |
| D | IH | 4 |         | ether-05  | 1    |
| D | IH | 5 |         | ether-06  | 1    |
| D | IH | 6 |         | ether-07  | 1    |

Enter the VLAN you wish the port to be a member of in the **PVID** field.

**PVID**

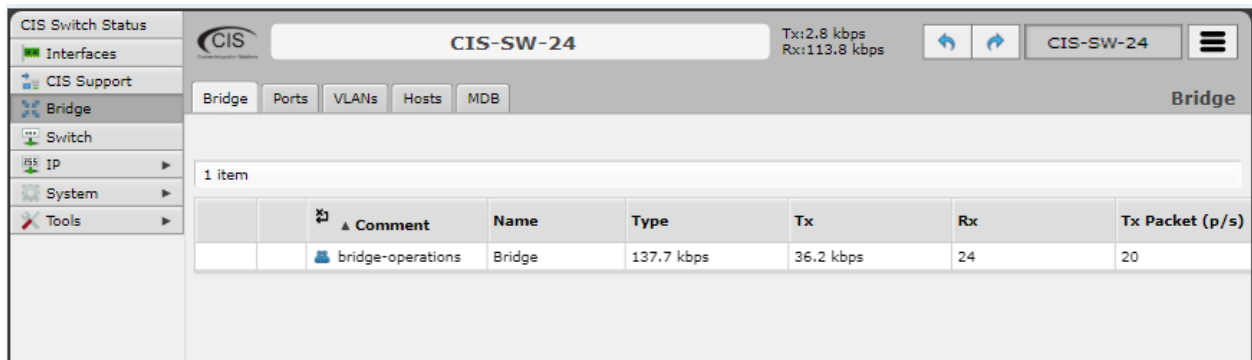


## Manually Configuring the Switch for VLANs

When you purchase a VLAN configuration from CIS, these configuration changes will already be implemented. If you wish to implement these changes yourself, follow the instructions below.

### Step 1 – Enable VLAN Filtering on the Bridge

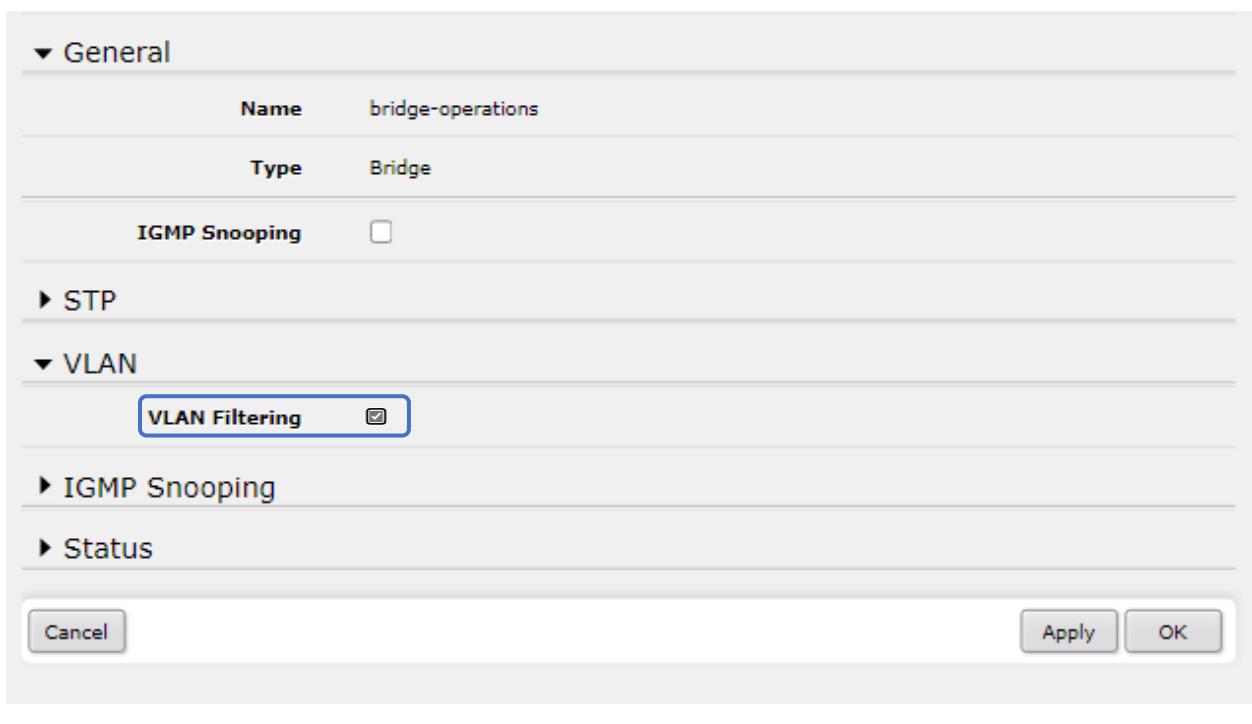
Select **Bridge** from the left toolbar. Select the bridge entry.



The screenshot shows the CIS switch configuration interface for switch CIS-SW-24. The left sidebar contains a navigation menu with options: Interfaces, CIS Support, Bridge (selected), Switch, IP, System, and Tools. The main area displays the Bridge configuration page with tabs for Bridge, Ports, VLANs, Hosts, and MDB. A table lists the bridge configuration:

| Comment           | Name   | Type       | Tx        | Rx | Tx Packet (p/s) |
|-------------------|--------|------------|-----------|----|-----------------|
| bridge-operations | Bridge | 137.7 kbps | 36.2 kbps | 24 | 20              |

Enable the **VLAN Filtering** option. Click Apply, then OK.



The screenshot shows the CIS switch configuration interface for switch CIS-SW-24. The left sidebar contains a navigation menu with options: Interfaces, CIS Support, Bridge (selected), Switch, IP, System, and Tools. The main area displays the Bridge configuration page with tabs for Bridge, Ports, VLANs, Hosts, and MDB. The configuration is shown in a form with the following fields:

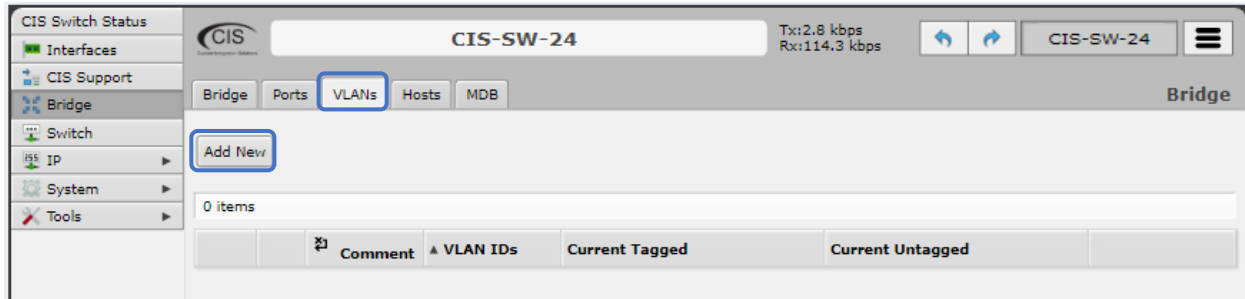
- Name:** bridge-operations
- Type:** Bridge
- IGMP Snooping:**
- VLAN Filtering:**
- IGMP Snooping:**
- Status:**

Buttons for Cancel, Apply, and OK are visible at the bottom of the configuration page.

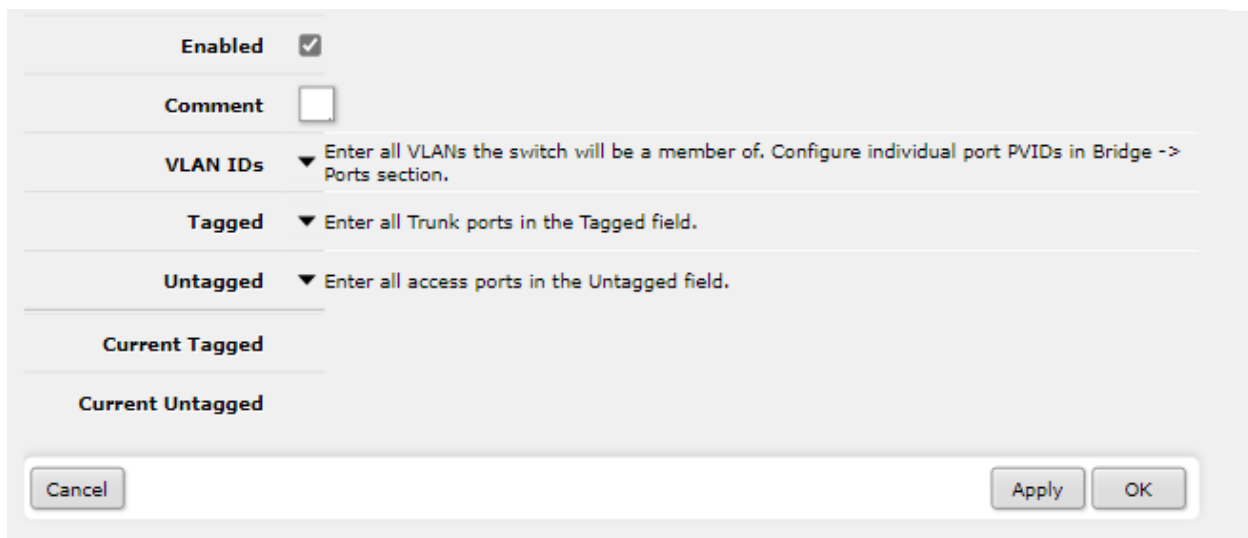
## Step 2 – Assign the Trunk Port(s)

Trunk ports carry traffic from all VLANs between your switches and routers. You must configure a trunk port between the router and the switch.

With **Bridge** selected in the left toolbar, select the **VLANs** tab. Click **Add New**.

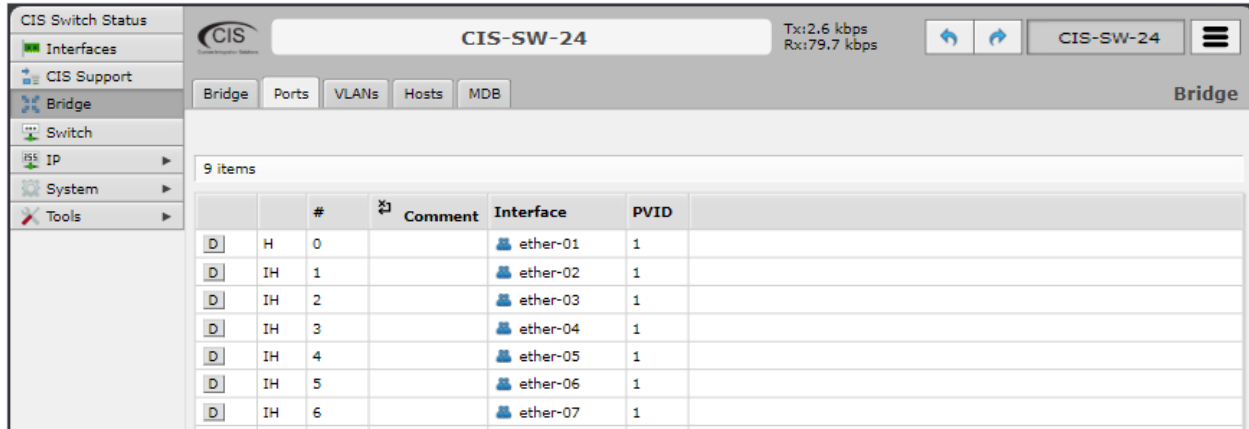


Enter the VLAN IDs the trunk will carry. You should enter the VLAN ID of every VLAN that will be present on the network. Use the up/down arrows to add and remove VLAN IDs. Set each trunk port to be **Tagged**.

The screenshot shows a configuration dialog box for a VLAN. It has several fields: 'Enabled' with a checked checkbox, 'Comment' with an empty text box, 'VLAN IDs' with a dropdown menu and a help text: 'Enter all VLANs the switch will be a member of. Configure individual port PVIDs in Bridge -> Ports section.', 'Tagged' with a dropdown menu and help text: 'Enter all Trunk ports in the Tagged field.', and 'Untagged' with a dropdown menu and help text: 'Enter all access ports in the Untagged field.'. Below these fields are two empty text boxes labeled 'Current Tagged' and 'Current Untagged'. At the bottom, there are three buttons: 'Cancel', 'Apply', and 'OK'.

### Step 3 – Assign Ports to VLANs

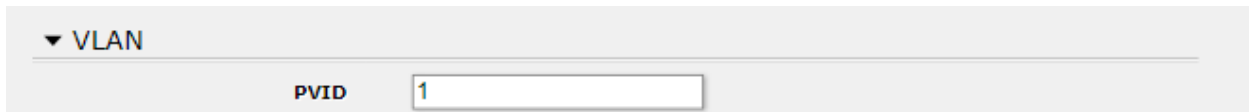
The ports that connect to your devices will be “untagged” ports or access ports. The final step is to set which VLAN they will be a member of. With the **Bridge** section selected in the left toolbar, select the **Ports** tab. Click on a port below.



The screenshot shows the configuration interface for CIS-SW-24. The left sidebar has 'Bridge' selected. The main area shows the 'Ports' tab with a table of 9 items. The table has columns for #, Comment, Interface, and PVID.

|   |    | # | Comment | Interface | PVID |
|---|----|---|---------|-----------|------|
| D | H  | 0 |         | ether-01  | 1    |
| D | IH | 1 |         | ether-02  | 1    |
| D | IH | 2 |         | ether-03  | 1    |
| D | IH | 3 |         | ether-04  | 1    |
| D | IH | 4 |         | ether-05  | 1    |
| D | IH | 5 |         | ether-06  | 1    |
| D | IH | 6 |         | ether-07  | 1    |

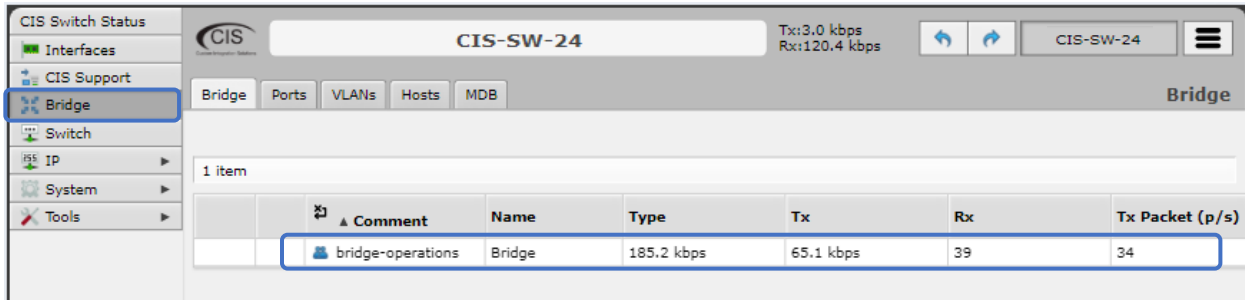
Enter the VLAN number in the **PVID** field and click Apply, then OK.



The screenshot shows a dialog box titled 'VLAN'. Below the title bar, there is a label 'PVID' followed by a text input field containing the number '1'.

## Multicast Filtering

By enabling **IGMP Snooping**, multicast traffic will be automatically forwarded to only the devices that request it. Select the **Bridge** option from the left toolbar. Click on the bridge entry.



| Comment           | Name   | Type       | Tx        | Rx | Tx Packet (p/s) |
|-------------------|--------|------------|-----------|----|-----------------|
| bridge-operations | Bridge | 185.2 kbps | 65.1 kbps | 39 | 34              |

Enable **IGMP Snooping**. Click Apply, then OK.



**General**

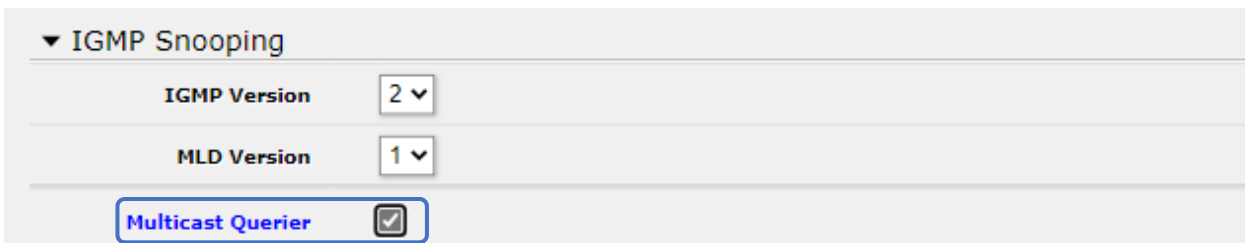
Name: bridge-operations

Type: Bridge

**IGMP Snooping**

### Multicast Querier

The multicast querier option is required for many multicast systems to function correctly. With this enabled, the switch will periodically check to determine if devices are still requiring a multicast stream.



**IGMP Snooping**

IGMP Version: 2

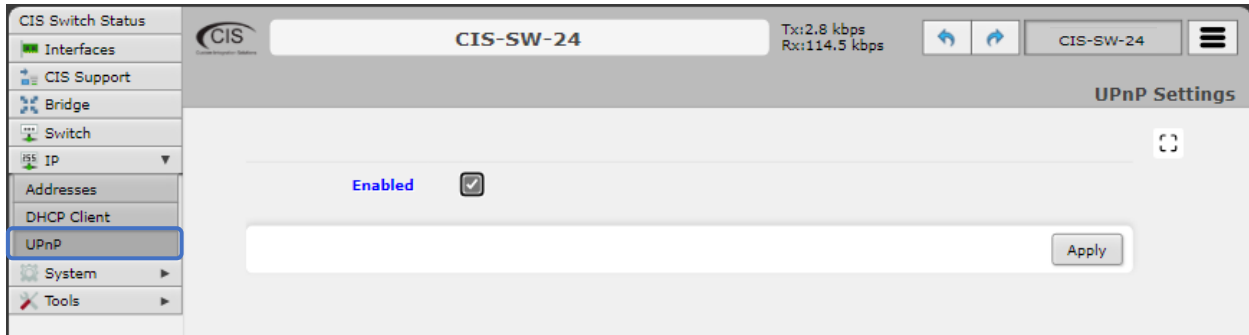
MLD Version: 1

**Multicast Querier**

## Tools

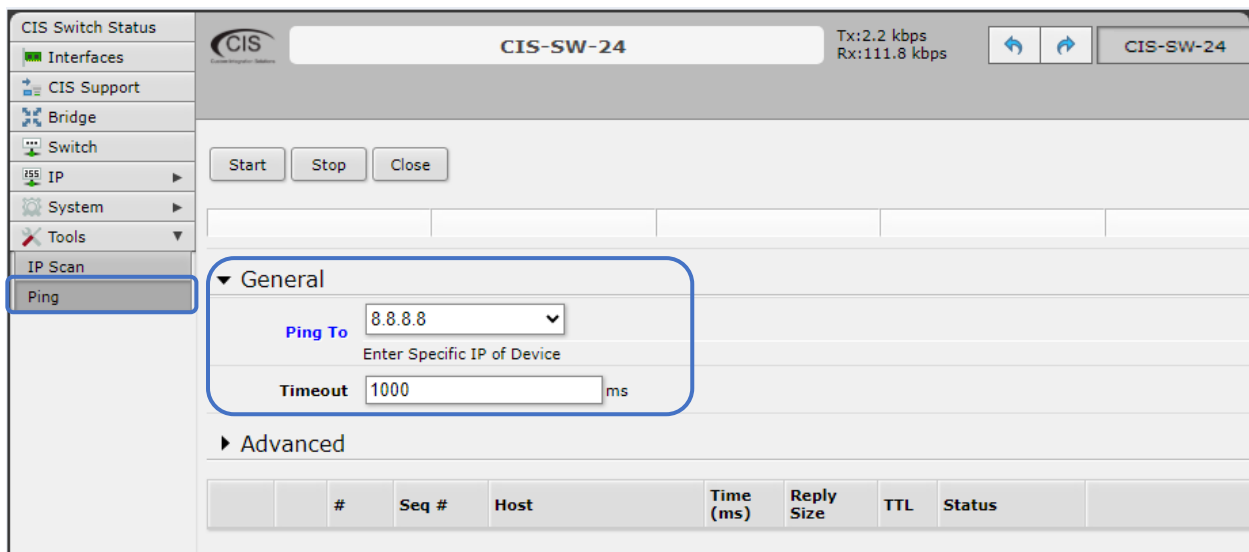
### UPnP

Universal Plug and Play enables your switch to easily discover other devices located on the network and vice-versa. If you require UPnP, select it under the **IP** tab in the toolbar, then enable it. UPnP has implications on the security of the device, and it is recommended you leave it disabled unless required.



### Ping

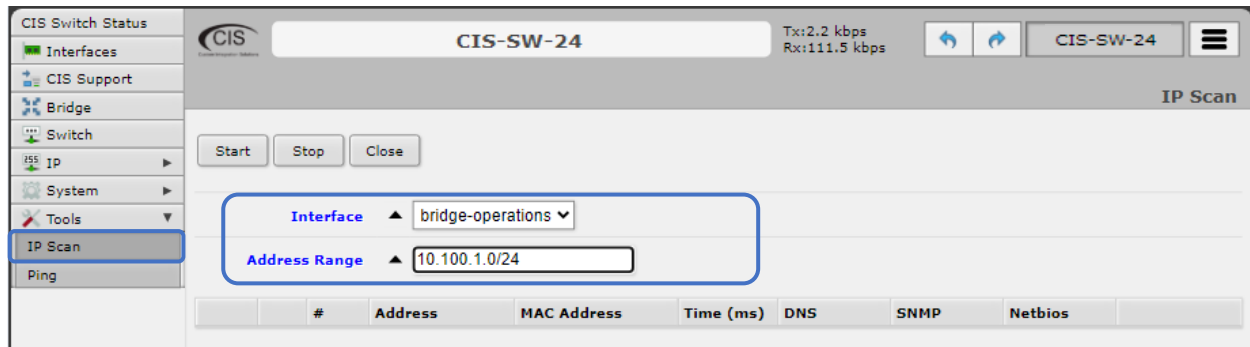
Ping uses Internet Control Message Protocol (ICMP) echo messages to determine if a remote device is active. It will also provide the round-trip time between the hosts. Enter the IP address of the device and select Start to begin. Ping devices on your network to see if they are online, or ping devices over the internet to confirm connectivity. Google's DNS server at 8.8.8.8 is a common target.



## IP Scan

The IP scan tool locates devices on the network. It can also locate devices that have a static IP set internally if they are on the same network as the switch.

To use the IP scan tool, select the network you wish to scan on (bridge-operations is default), then enter the network address and subnet mask using CIDR notation.



Select **bridge-operations** and enter **10.100.1.0/24** as the address range. You may have multiple interfaces and address ranges depending on your configuration. Most use a /24 network size.

## Troubleshooting

| Symptom   | Possible causes   |
|---|---|
| I can't get VLANs to work correctly.              | <ul style="list-style-type: none"><li>• The router must be configured to work with VLANs for most operations.</li><li>• Ensure the trunk ports are tagged correctly.</li><li>• Contact CIS for assistance.</li></ul>  |
| I can't get a connection when using the SFP port. | <ul style="list-style-type: none"><li>• CIS recommends DAC SFP cables such as the CIS-SFP-001 and 003, though other SFP modules are compatible.</li><li>• Ensure the SFP cables are inserted completely. There should be a slight click as they are inserted. They will slide in most of the way when upside down but will not fit completely.</li><li>• Check the interface status. Click Interfaces, then the Ethernet tab. Click on the SFP port in question. Determine if it is passing traffic. Consider disabling auto negotiation and setting the speed and duplex manually.</li></ul> |
| I can't enable IGMP Snooping, etc.                | <ul style="list-style-type: none"><li>• Some features are unavailable before firmware version 6.48. Contact CIS to perform a firmware upgrade your equipment.</li></ul>   |

## Warranty Information

Custom Integration Solutions™ products have a 2-Year Limited Warranty. This warranty includes parts and labor repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty shall not apply to products that have been abused, modified, or disassembled. Products to be repaired under this warranty must be returned to Custom Integration Solutions™ or a designated service center with prior notification and an assigned return authorization (RA) number.

### Contact Information

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The CIS-SW-24 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EC.