Access the Switch Web Interface

Introduction

To set up your Pro AV system, a switch with multicast capability and audio and video management functions is required. The switch must be compatible with the Yealink AVONE solution. Yealink RCH80/RCH240 is the recommended option.

- Network: Multicast-capable AV-managed switch compatible with Yealink AV One audio/video solution, enabling plug-and-play deployment for basic scenarios.
- Transmission rate: Supports at least Gigabit (1Gbps) speed.
- Features:
  - Supports PoE power delivery (Energy-Efficient Ethernet/EEE disabled by default).
  - Multicast configuration: IGMP snooping, IGMP querier, and IGMP query interval.
  - Supports unknown multicast discard and fast leave functions.

This chapter introduces the configuration of the network environment in the Pro AV system, using RCH240 as an example. The configuration method for RCH80 is the same.

Connect

- Connect your computer's Ethernet port to any port on the switch using a network cable.

Configure the IP Address of PC

- Open **Network Settings** on your PC and manually configure the USB network adapter/IP address:
  - **IP Address**: **192.168.0.100** (must be in the same subnet as the switch's management IP)
  - **Subnet Mask**: **255.255.255.0**
  - **Default Gateway**: only required for cross-subnet management.

Access the Web User Interface

1. Open a browser (Chrome/Firefox recommended) and enter the switch's default management IP address (http://192.168.0.1).
2. Change the login password upon first login, then log in again using the new password (The default username and password are admin).

Cascaded Setup

Introduction

After factory default or a factory reset, the switch's default IP address is 192.168.0.1 and IGMP Auto Query is enabled by default. However, in a cascaded network, identical switch IPs can prevent logging into the target switch. Also, multiple simultaneous queries can cause multicast anomalies on devices, leading them to leave groups. Therefore, when cascading RCH80 and RCH240, you must change the switches' IP addresses and disable duplicate IGMP Auto Query functionality.

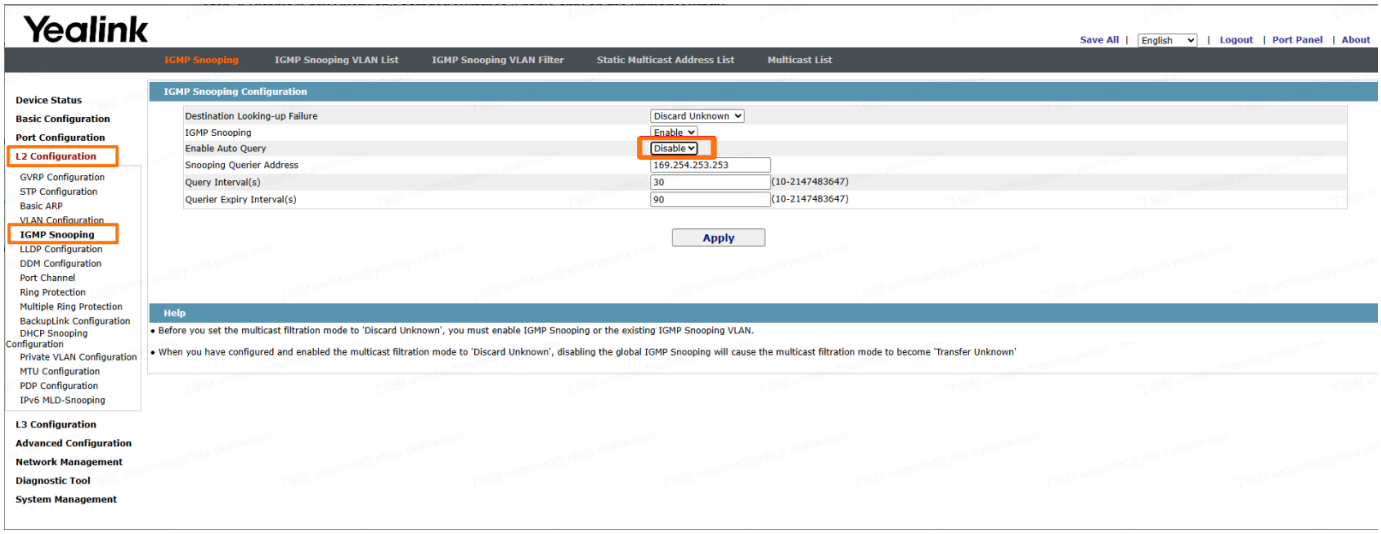
1. Disable the Auto Query on Cascaded Switches

In a cascaded topology, IGMP Auto Query should only be enabled on the primary/master switch to avoid conflicts.

In a multicast network, IGMP querying performs these key functions:

- Sends query packets to identify devices that need to receive multicast streams
- Maintains correct multicast membership state
- Ensures efficient delivery of multicast streams

1. Open the switch web user interface.
2. Go to **L2 Configuration** > **IGMP Snooping**, and set **Enable Auto Query** to **Disable**.



2. Resolve IP Address Conflicts

If multiple switches are cascaded, change each switch's management IP to avoid address conflicts.

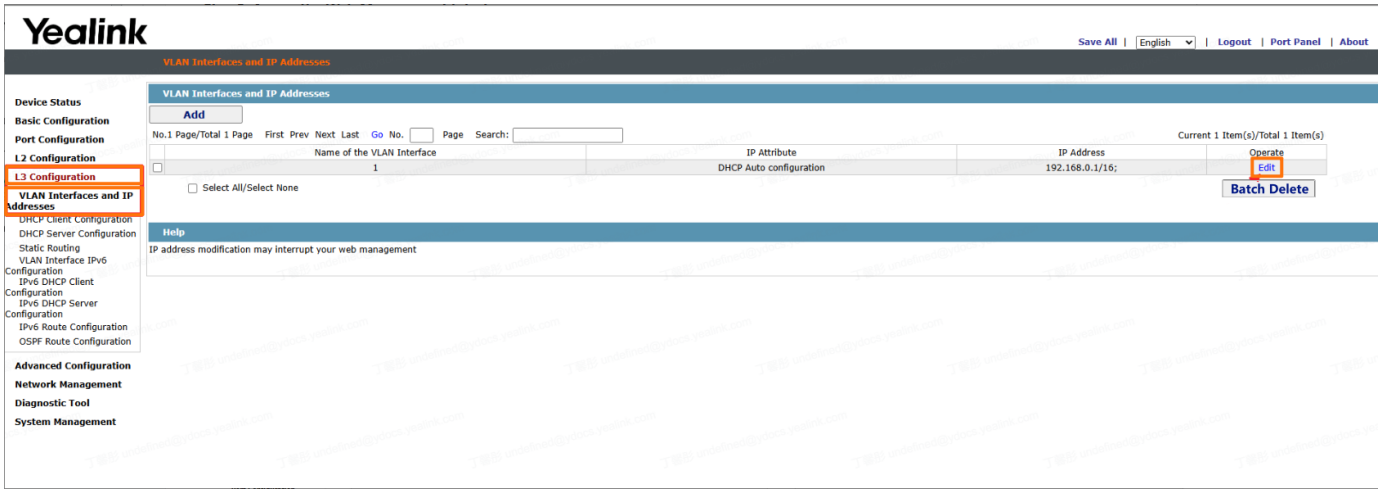
- All switches use the default IP 192.168.0.1.
- Change the second switch to 192.168.0.2; for additional RCH80 or RCH240, use 192.168.0.3

through 192.168.0.255.

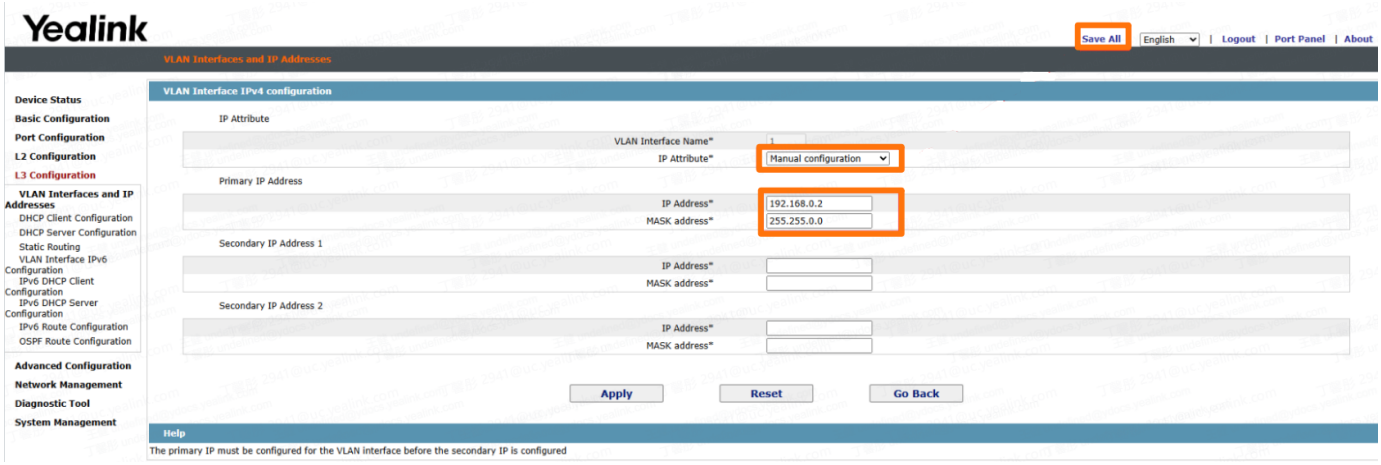
- Keep the subnet mask as 255.255.0.0.

Switch Number	Recommended Management IP	Subnet Mask
Switch #1	192.168.0.1	255.255.0.0
Switch #2	192.168.0.2	255.255.0.0
Switch #3	192.168.0.3	255.255.0.0
……	192.168.0.x (x ⩽ 255)	255.255.0.0

1. Go to **L3 Configuration** > **VLAN Interfaces and IP Addresses**, then click **Edit**.



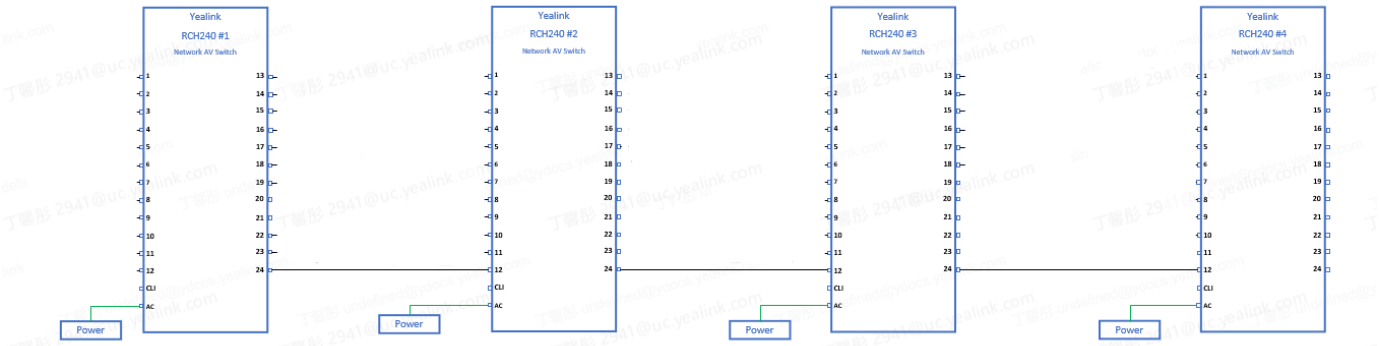
2. Edit the IP address details, then click **Save All** when finished; otherwise the device will revert to the last saved configuration after reboot.



3. After saving, open back into the switch web user interface using the new IP address.

3. Connect Cascade Switches

Once the switch configurations above are complete, you can cascade-connect the switches with Ethernet cables. We recommend using a daisy-chain topology, as shown below. We do not recommend a star-chain topology, as it may cause communication issues.



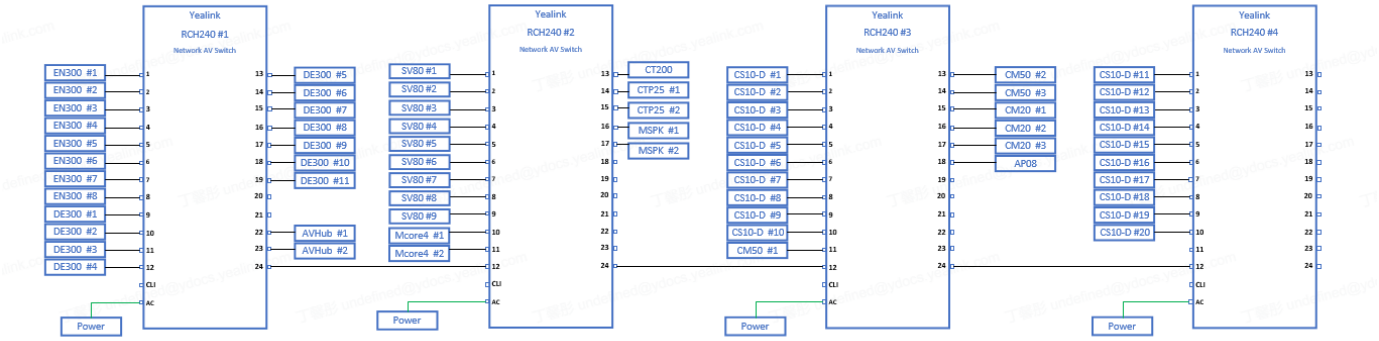
4. Connect Devices

In a cascaded switch network:

- High-bandwidth video devices (e.g., EN300/DE300/AVHUB) must be connected to the same switch;
- Audio devices (e.g., AP08/CM50/CS10-D) should be connected to the same switch whenever possible; if not feasible, connect them to a switch adjacent to the one hosting the AP08 to reduce inter-switch latency.

Example: AVONE divisible room switch connections

- All EN300/DE300/AVHUB connect to the same switch;
- AP08/CM50/CS10-D devices are primarily deployed on switch #3; due to limited switch power, some CS10-Ds need to connect to the next switch, #4;



FAQ

Why Disable the Auto Query?

Is it Necessary to Disable Redundant Queriers?

Why Recommend Manual Configuration?