Auto Surveillance VLAN in Catalyst 1200 and 1300 Switches

Objective

The objective of this article is to go over the Auto Surveillance VLAN (ASV) feature in the Catalyst 1200/1300 switches and the steps to configure it.

Applicable Devices | Software Version

- Catalyst 1200 | 4.0.0.91 (**Data Sheet**)
- Catalyst 1300 | 4.0.0.91 (**Data Sheet**)

Introduction

Network communication between surveillance devices such as cameras and monitoring equipment should often be given higher priority and it is important that the various devices that comprise the surveillance infrastructure in the organization are reachable for each other. Normally, the network administrator ensures that all surveillance devices are connected to the same VLAN and to configure this VLAN and the interfaces on it to allow for this high priority traffic.

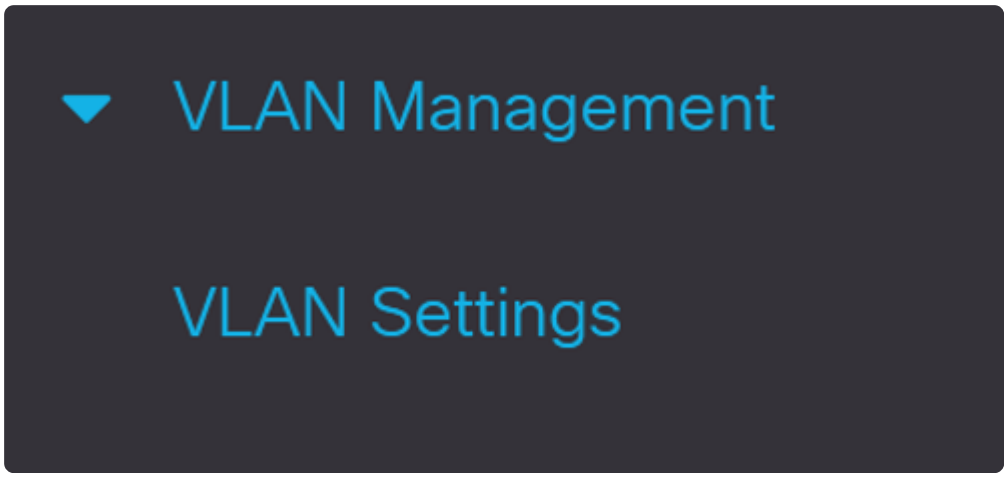
ASV automates aspects of this setup by detecting defined surveillance devices on the network, assigns them to a VLAN, and sets their traffic priority. The surveillance devices are defined by creating a list of OUIs and MAC addresses. Up to 32 sources for surveillance traffic can be defined in any combination of MAC and OUIs.

Create an ASV VLAN

ASV can be enabled only on a static VLAN and the VLAN configured as an ASV VLAN cannot be deleted.

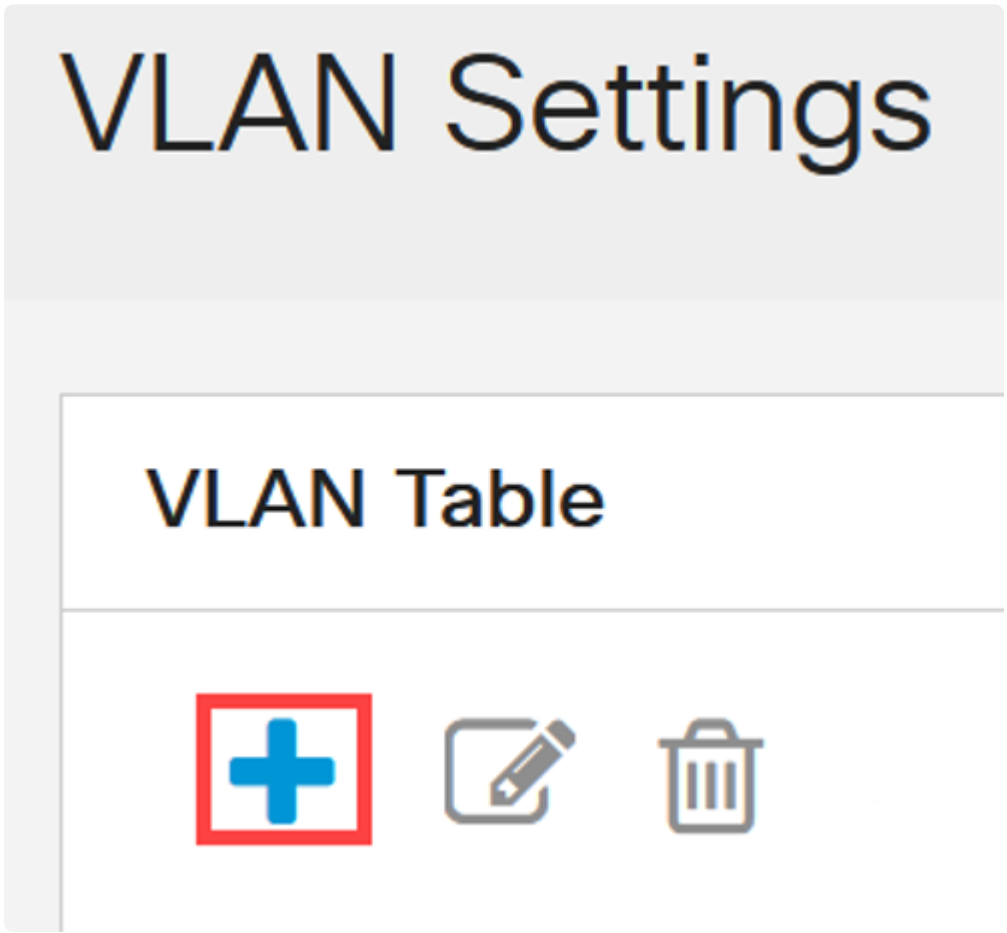
Step 1

Login to the Catalyst switch and navigate to **VLAN Management > VLAN Settings.**



Step 2

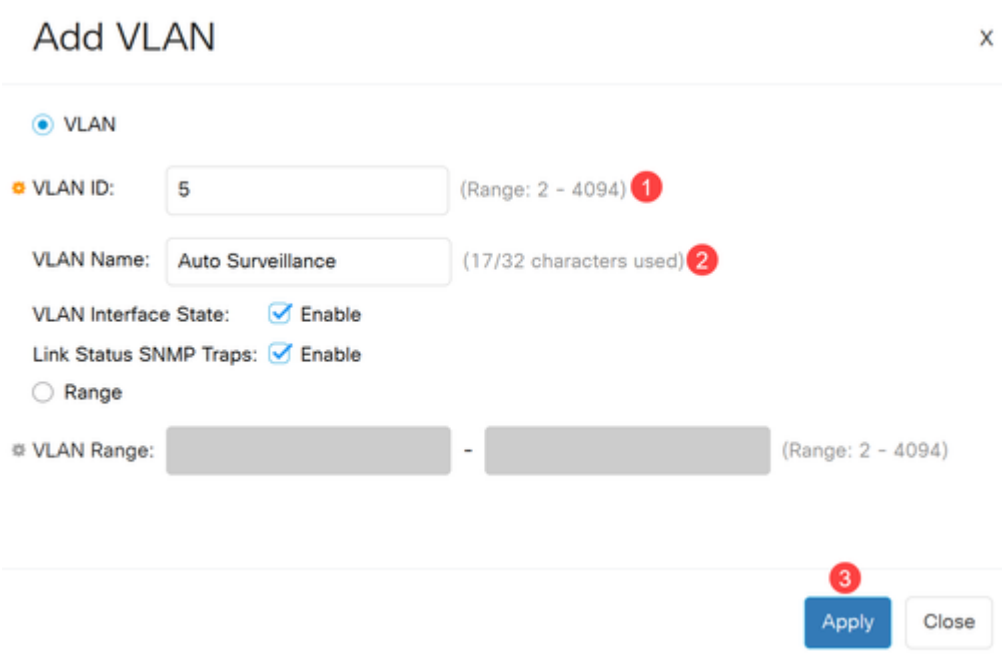
To add a VLAN, click on the **plus** symbol.



Step 3

Configure the *VLAN ID* and *VLAN Name* and click **Apply**. In this example, the VLAN ID is 5

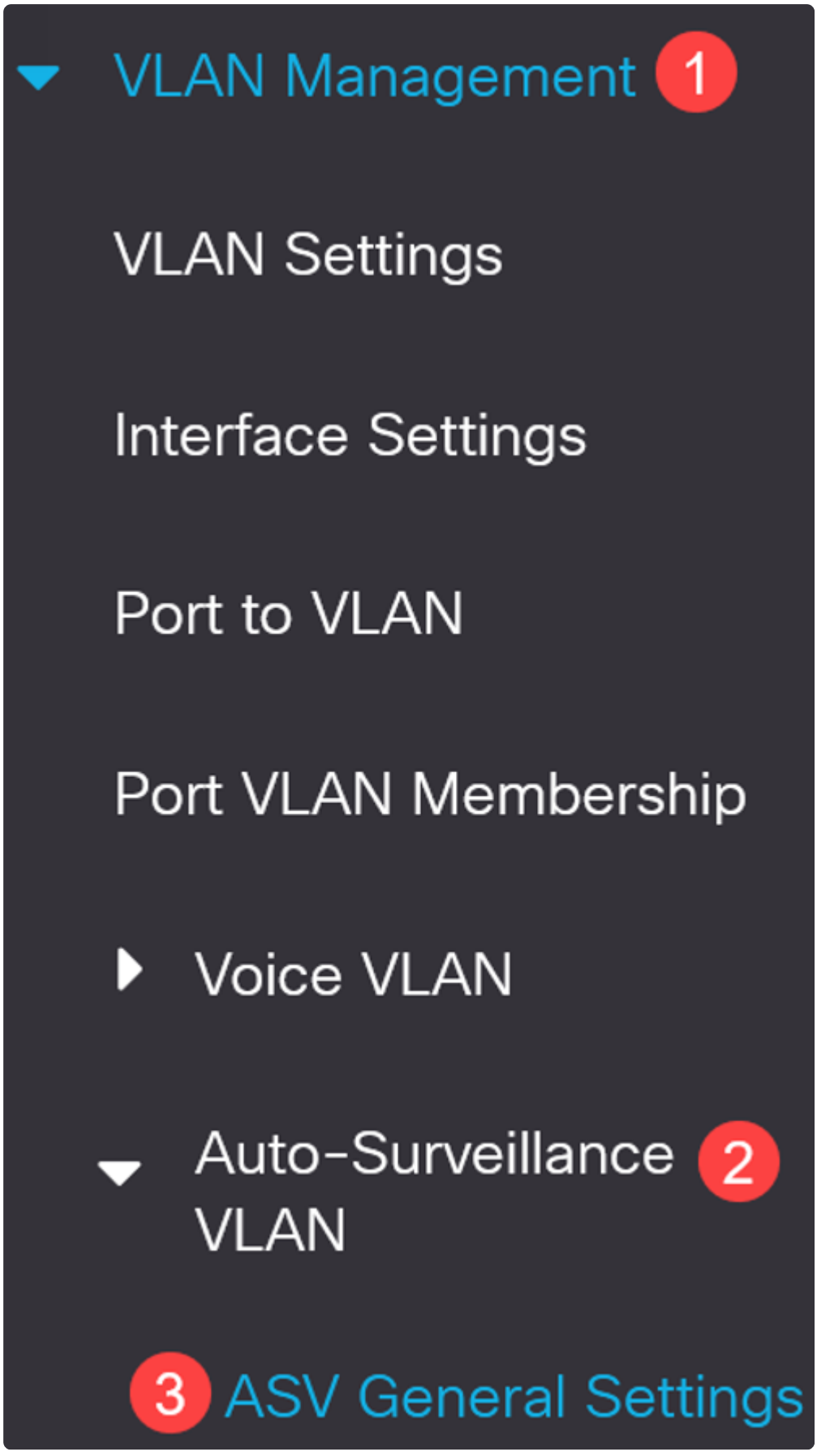
and the VLAN Name is Auto Surveillance.



Configure ASV Settings

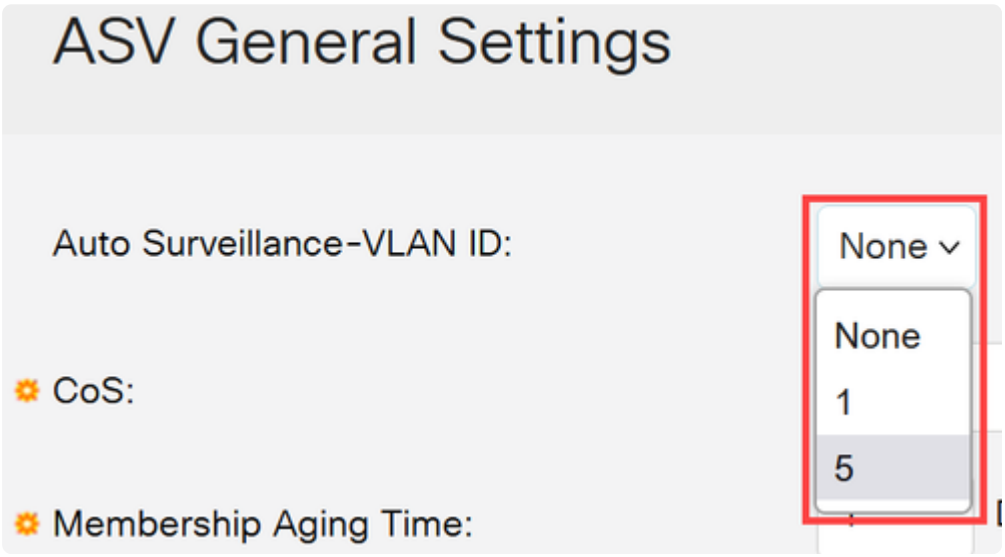
Step 1

To select the VLAN for ASV, navigate to **VLAN Management > Auto-Surveillance VLAN > ASV General Settings**.


VLAN Management
1
VLAN Settings
Interface Settings
Port to VLAN
Port VLAN Membership
Voice VLAN
Auto-Surveillance VLAN
2
3
ASV General Settings

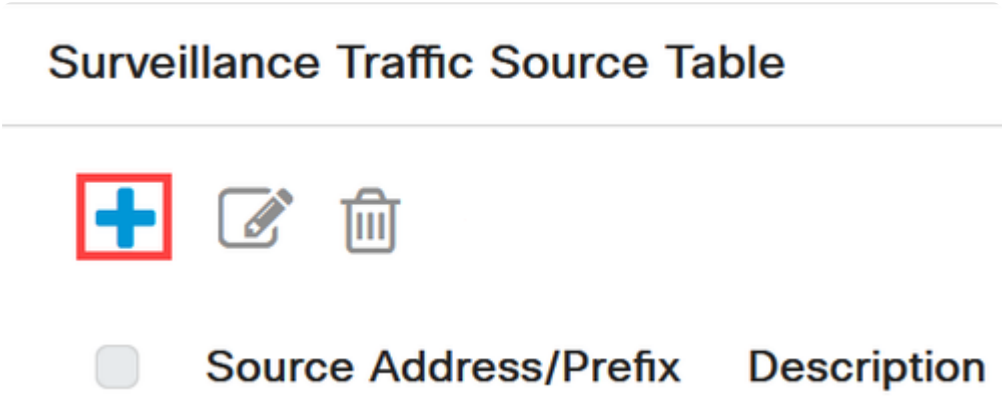
Step 2

From the *Auto-Surveillance-VLAN ID* drop-down menu, select the VLAN ID for ASV.



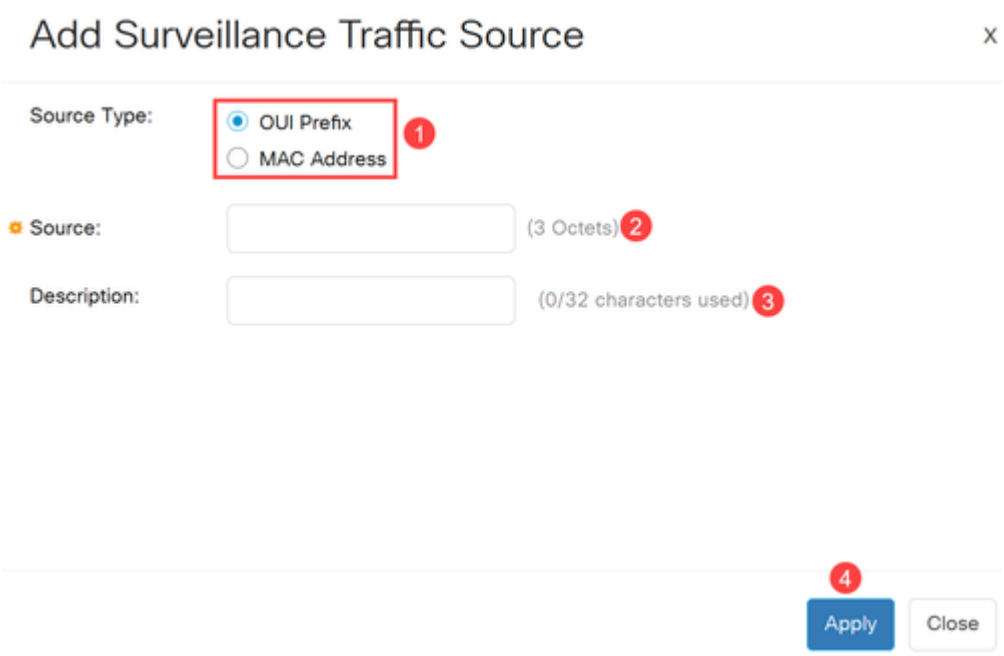
Step 3

Under the *Surveillance Traffic Source Table*, click the **plus icon**.



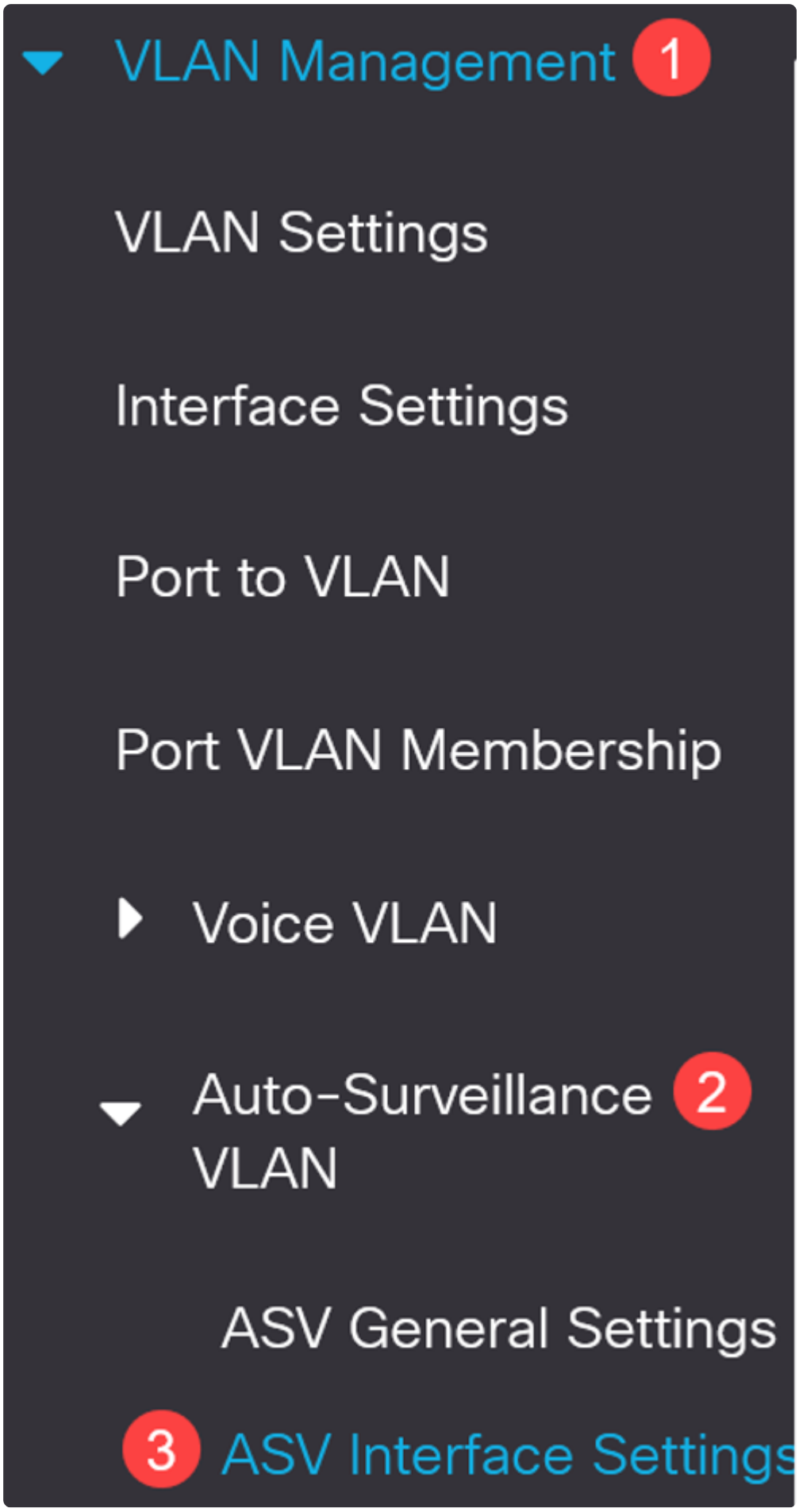
Step 4

To add the surveillance traffic source, select *Source Type* as either *OUI Prefix* or *MAC Address*. Enter the *Source* in the field provided. Optionally, you can add a *Description* and click **Apply**.



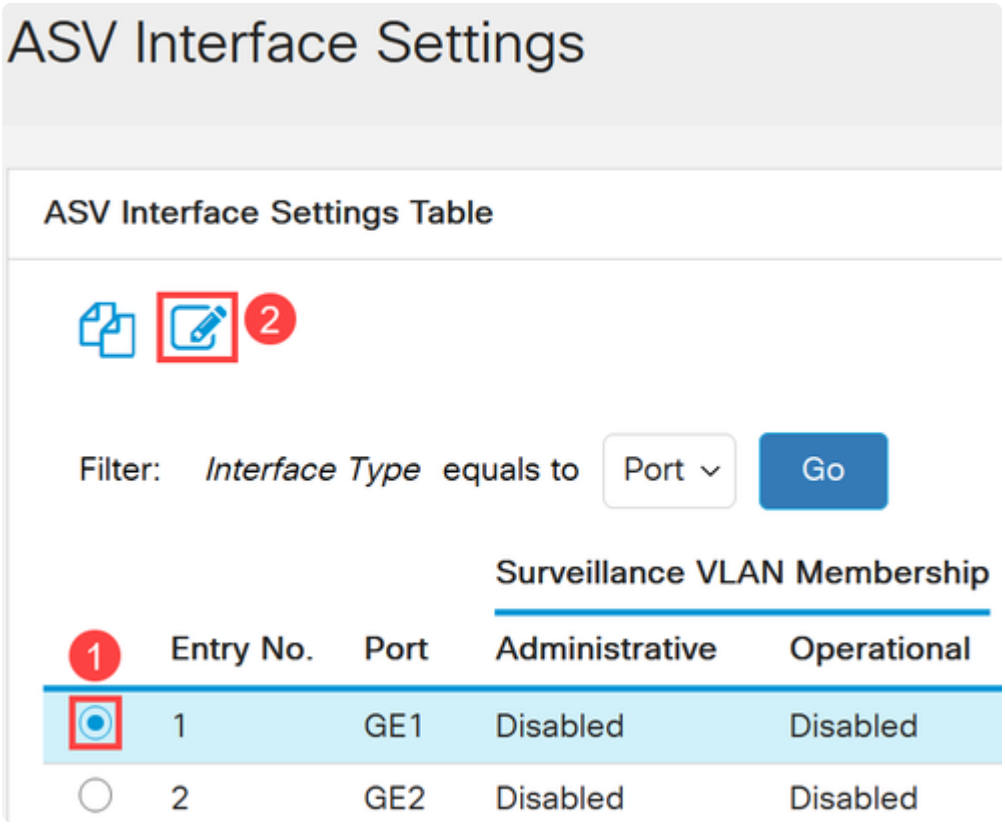
Step 5

To enable the ASV VLAN on a specific port, navigate to **VLAN Management > Auto-Surveillance VLAN > ASV Interface Settings**.


VLAN Management
1
VLAN Settings
Interface Settings
Port to VLAN
Port VLAN Membership
Voice VLAN
Auto-Surveillance VLAN
2
ASV General Settings
3
ASV Interface Settings

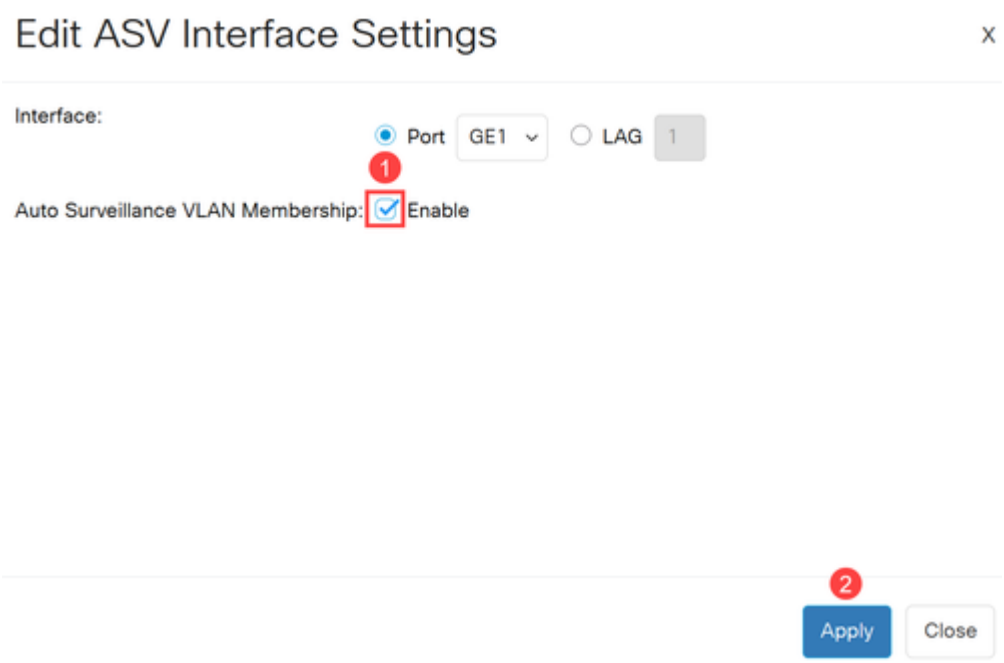
Step 6

Select the interface and click edit.



Step 7

Enable the *Auto Surveillance VLAN Membership* for the interface and click **Apply**.



Conclusion

There you go! You have configured ASV on your Catalyst 1200 or 1300 switch.

Check out the following pages for more information on the Catalyst 1200 and 1300 switches.

- **Why Upgrade to Cisco Catalyst 1200 or 1300 Series Switches Feature Comparison**
- **Cisco Catalyst 1200 and 1300 Series Switches At-a-Glance**

For other configurations and features, refer to the Catalyst series **Administration Guide**.