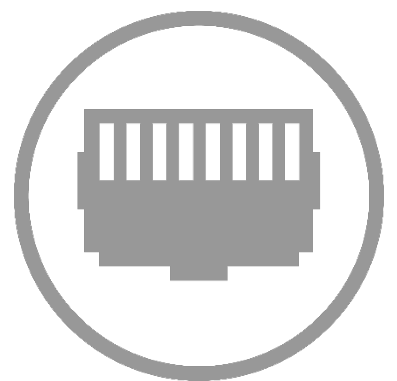




S3 Series

Knowledge Base Article



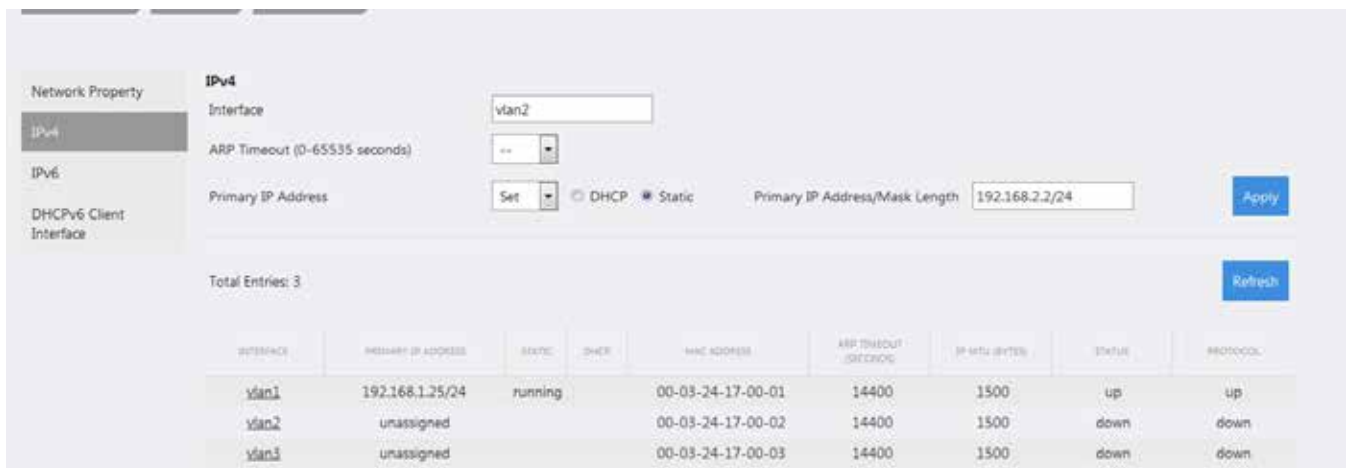
IGMP Snooping with Querier setup for S3-24P switch

This guide will help you configure IGMP Snooping and multicast settings on an S3-24P switch for general use. You may want to check any 3rd-party vendors requirements before enabling IGMP Snooping, and you will typically want to enable IGMP Snooping on all managed switches in the network. Make sure any VLANs that require IGMP snooping have an IP Interface. If this is already done or if you are not using VLANs, skip to step 2.

Step 1:

For this example, we are adding an IP Interface for VLAN2. Go to **Administration > Management > Network Interface** and type in "vlan2", then click **Add**.

Then, click on **IPv4** on the left menu and type "vlan2" in again for the interface. Click the drop down for **Primary IP Address** and select **set**, then **static**. Type in the IP address with CIDR notation (/24) at the end to represent a 255.255.255.0 subnet mask--for example, 192.168.2.2/24 and click apply.



The screenshot shows the configuration page for the IPv4 interface 'vlan2'. The 'Primary IP Address' is set to '192.168.2.2/24' with the 'Static' option selected. Below the configuration fields is a table showing the status of three interfaces: vlan1, vlan2, and vlan3.

| INTERFACE | PRIMARY IP ADDRESS | STATE | DHCP | MAC ADDRESS | ARP TIMEOUT (SECONDS) | IP MTU (BYTES) | STATUS | PROTOCOL |
|-----------|--------------------|---------|------|-------------------|-----------------------|----------------|--------|----------|
| vlan1 | 192.168.1.25/24 | running | | 00-03-24-17-00-01 | 14400 | 1500 | up | up |
| vlan2 | unassigned | | | 00-03-24-17-00-02 | 14400 | 1500 | down | down |
| vlan3 | unassigned | | | 00-03-24-17-00-03 | 14400 | 1500 | down | down |

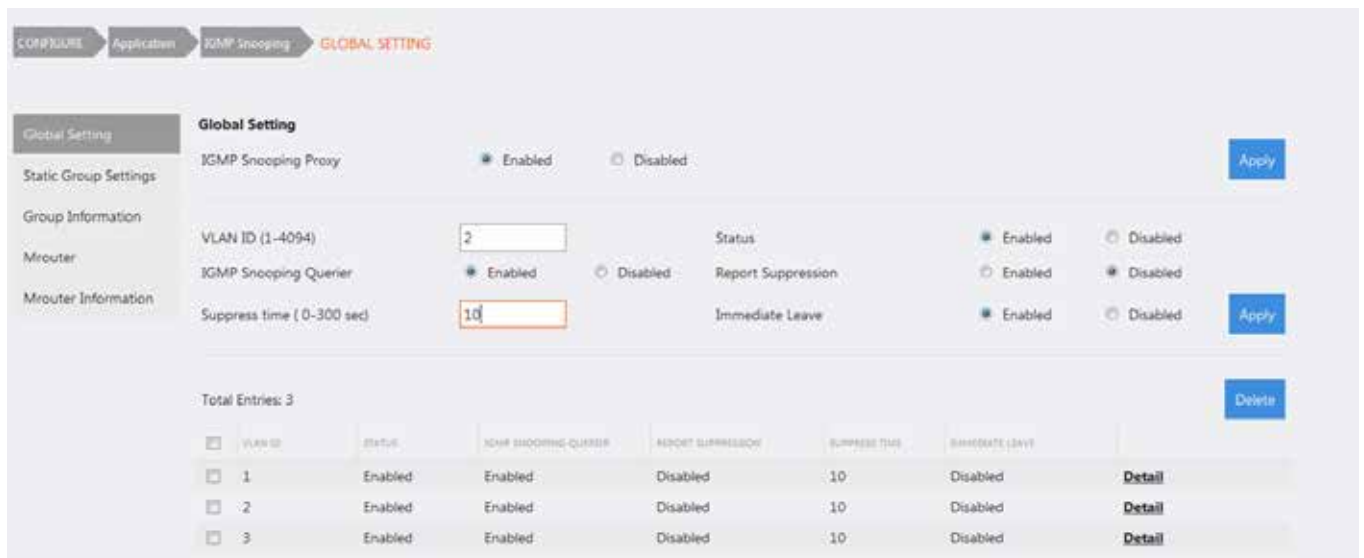
Step 2:

Navigate to **Configure > IP Routing > PIM**, set **IP Multicast Routing** to **Enable** and hit **Apply**.

Click **PIM Interface Settings** on the left menu, type "vlan2" in for **Interface Name**, select **Mode: SM** and click **Add**.



Navigate to **Configure > Application > IGMP Snooping**, for **VLAN ID (1-4094)** type in "2" or the VLAN number you're using. Set **IGMP Snooping Querier Enabled**, Set **Status Enabled**. Hit apply.



If you navigate to **Configure > Application > IGMP** to modify the IGMP Query settings.

If you need to edit any of the VLAN settings, enter the VLAN ID that you wish to modify along with the settings changes and then press apply.

CONFIGURE Application IGMP **IGMP SETTINGS**

IGMP Settings

IGMP SSM Settings

IGMP Group Information

IGMP Settings

VLAN ID (1-4094):

Access Group: Enabled Disabled

Last Member Query Interval (1000-25000 msec):

Query Interval (1-31744 sec):

Query Max Response Time (1-25 sec):

Robustness Variable (1-7):

Version: V1 V2 V3

[Apply](#)

Total Entries: 3

| INTERFACE | ACCESS GROUP | VERSION | QUERY INTERVAL (SEC) | QUERY MAX RESPONSE TIME | LAST MEMBER QUERY INTERVAL | ROBUSTNESS VARIABLE | |
|-----------|--------------|---------|----------------------|-------------------------|----------------------------|---------------------|------------------------|
| VLAN1 | | V3 | 125 | 10 | 1000 | 2 | Detail |
| VLAN2 | | V3 | 125 | 10 | 1000 | 2 | Detail |
| VLAN3 | | V3 | 125 | 10 | 1000 | 2 | Detail |

(Optional) **Configure > L2 Switching > Multicast Filtering**: Select Filtering Mode: "Filter Unregistered", select Interface: VLAN2, hit add. This will prevent non-IGMP group multicast traffic from being forwarded which can further reduce multicast traffic on the network.

*****IMPORTANT***** We need to save the configuration by going to **Maintenance > Save**, click the new **Save** button, then click **OK**.

DASHBOARD MAINTENANCE ADMINISTRATION CONFIGURE

Firmware Upgrade Configuration Reset Reboot **Save**

IGMP snooping is now enabled on the S3-24P.



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