PULSEEIGHT

V 1.0

INTRODUCTION

The Pulse-Eight OneIP Multiviewer is an ultra-low latency, AV-over-IP solution capable of distributing UltraHD 4K HDMI 2.0 video (18Gbps), with support for HDR, over a 1Gbps Ethernet network.

The following is a step-by-step tutorial for configuring the Packedge MS series switches for use with Pulse-Eight OneIP TRX units. Please follow the instructions below before connecting any OneIP devices to the switch.

SUPPORTED PRODUCTS

- Pakedge MS series switches.

☰ *Note: Please note this has only been tested with MS2424 at the present time.*

IMPORTANT NOTES!

Do **NOT** connect any OneIP devices to the switch before configuration is completed, doing so may cause the switch to run slow or crash due to multicast data flooding the network.

PULSE**EIGHT**

pakedge
Router

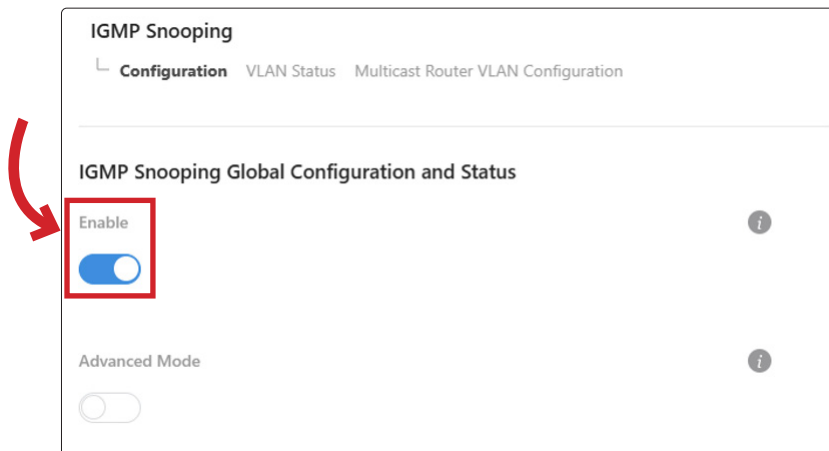Secondary Network Switch

Core Network Switch

AVoIP Switch
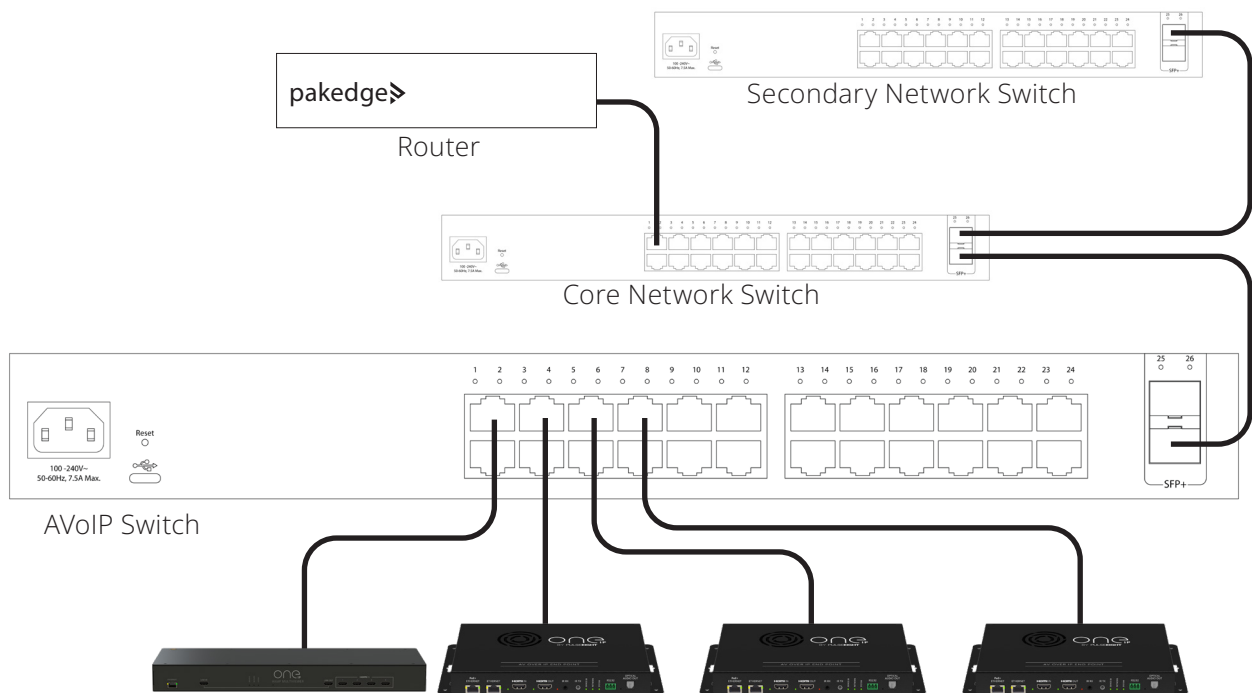
CORE SWITCH (OR SINGLE SWITCH) CONFIGURATION

Log in to the Pakedge Switch web interface. The Pakedge MS switches are set to DHCP by default; to find an IP address, you need to scan the network or check the DHCP server; if no DHCP server is available, the switch will default to 192.168.1.205.

1. Log in to the Web UI. The default credentials are **admin** and **password**.
2. Create a new secure password and username.
3. Set the switch to a static IP address or DHCP reserved from the DHCP server (optional).
    a. Select "**Configure**" then under "**LAN**" change mode to Static and set the desired IP address, Subnet Mask, and Gateway.
    b. Save the settings by clicking "**Apply**" in the top right corner of the screen. The switch will reboot and use the static or reserved IP address.
    c. Once "**Submitting**" shows on the screen, close the browser window.
4. Log in to the Web UI using the new IP address, username, and password.
5. From the main menu, select "**Advanced**" and then '**IGMP Snooping**' under the switching section.
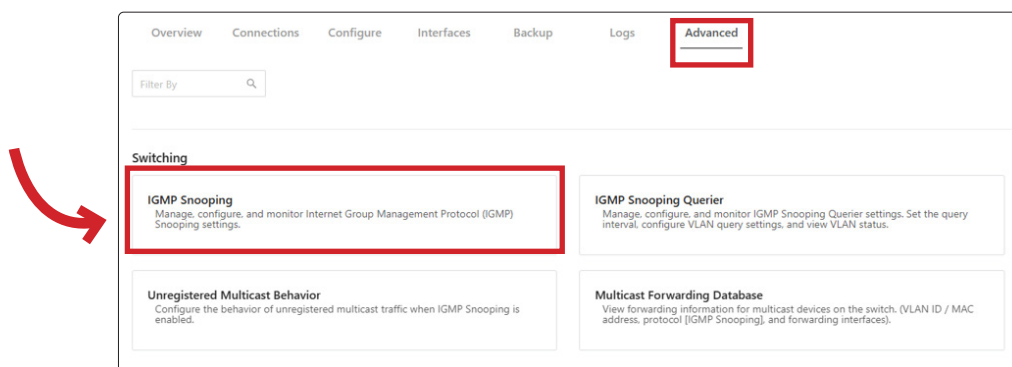
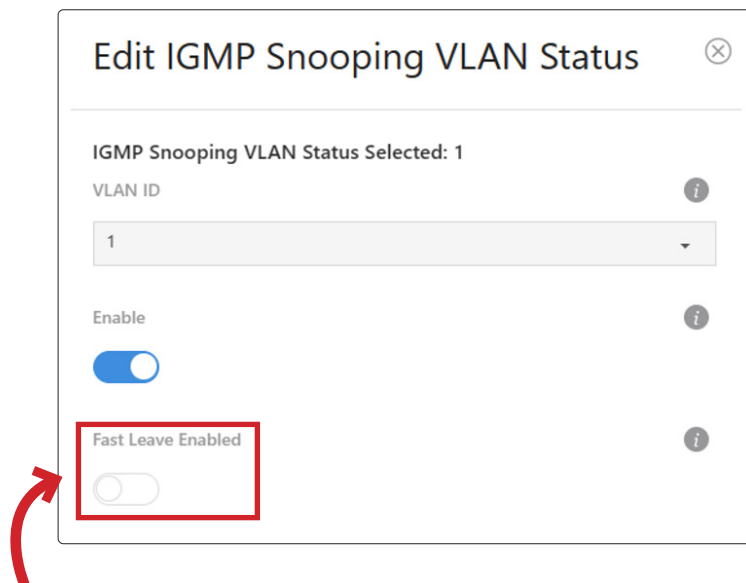6. Enable the IGMP Snooping Global Configuration and Status toggle switch and click "**Apply**".

7. Move to the VLAN Status page, and click "**OPTIONS**" button to add a VLAN entry.
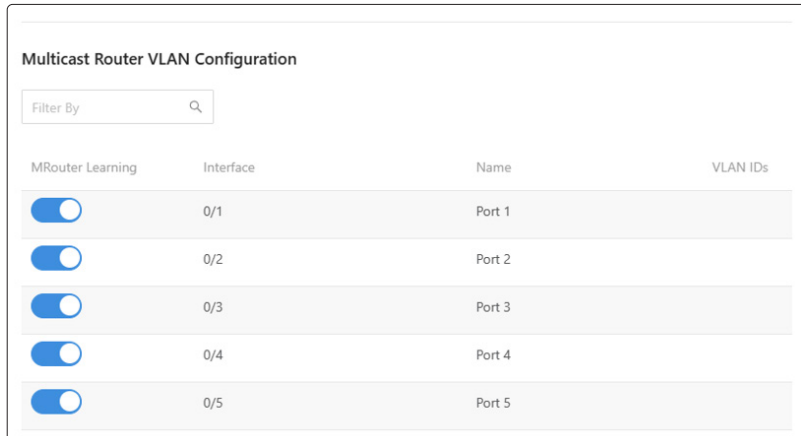
8. Select the VLAN ID on which the OneIP devices are connected and disable Fast Leave for all switches.

9. Click the **Apply** button in the top right corner of the page.

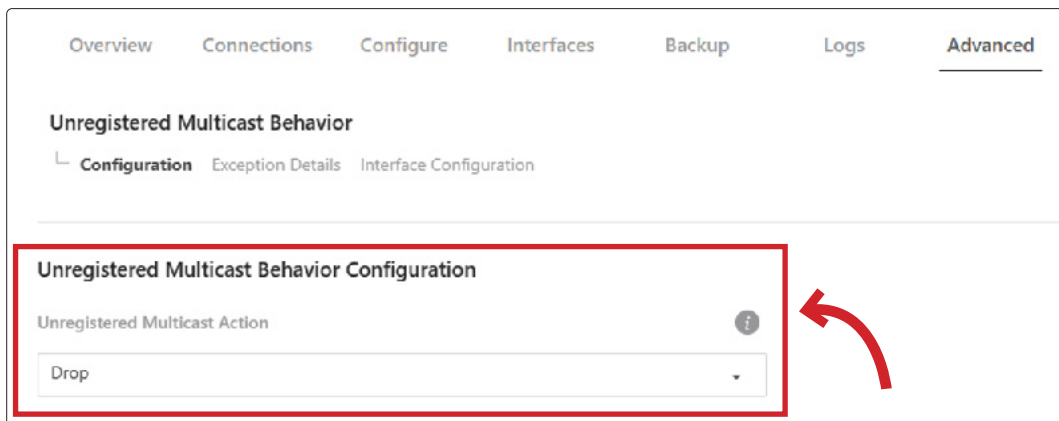10. On the **Multicast Router VLAN Configuration** page, enable MRouter Learning on all ports and click **Apply**.

11. Go to **Advanced > Unregistered Multicast Behaviour > Configuration**. Set **Unregistered Multicast Behaviour Configuration** to Drop. Click Apply.
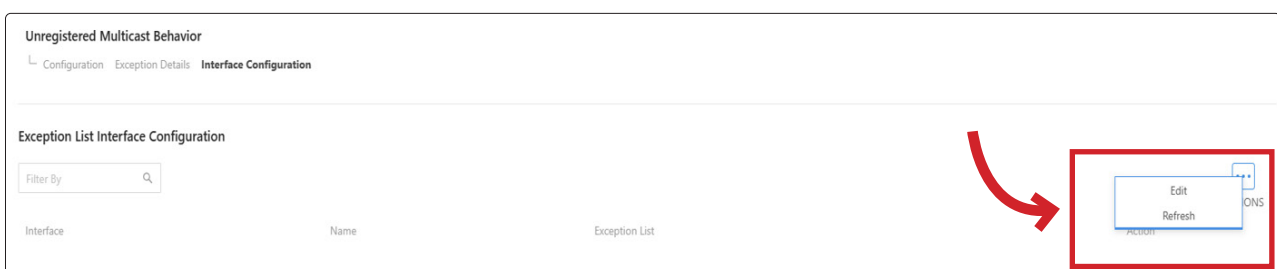

12. If you notice an entry for **EXC_default_list** under the Exemptions list, proceed to the next steps. If not, then your configuration is complete.

13. Click on the **Interface Configuration** tab, then select **Options** and **Edit**.

14. To select all entries in the **EXC_default_list**, click the box next to Interface. Then, click Edit Selected.

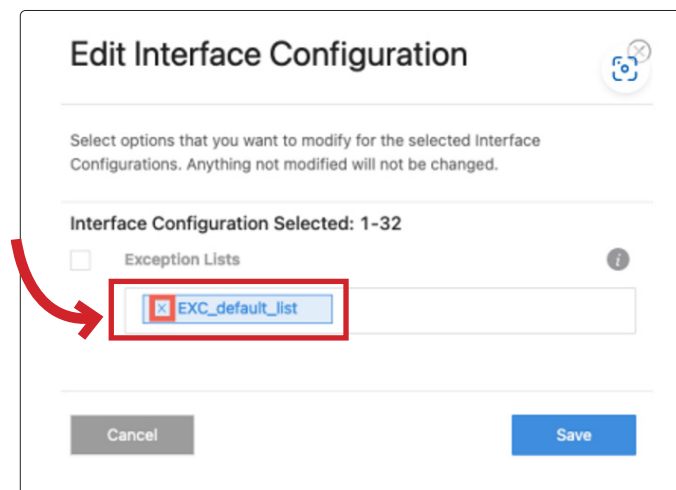15. Click the "x" in the **EXC_default_list** object to delete it.
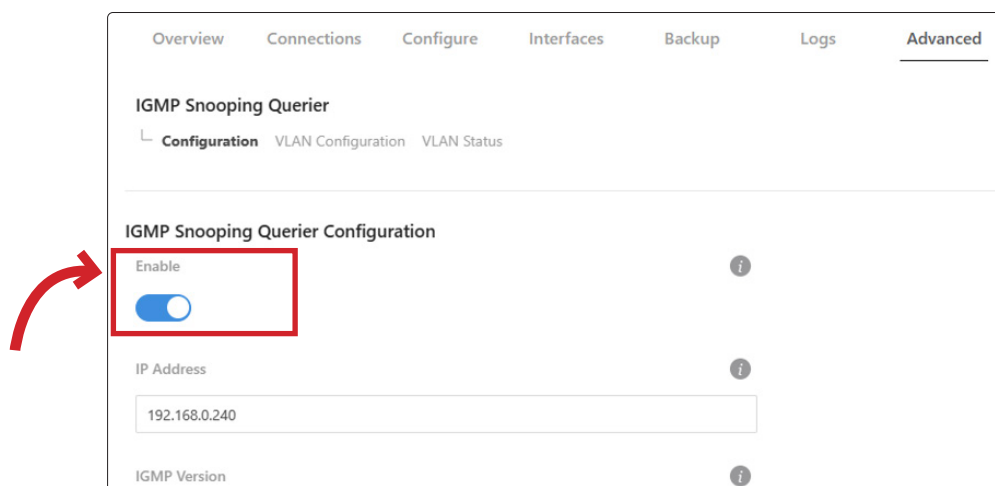

16. Click **Save** and then **Apply** at the top of the page.
17. Go to **Advanced > IGMP Snooping Querier > Configuration**. Click **Enable** and make sure the **IGMP Version** is set to **V2**, then click **Apply** at the top of the page.
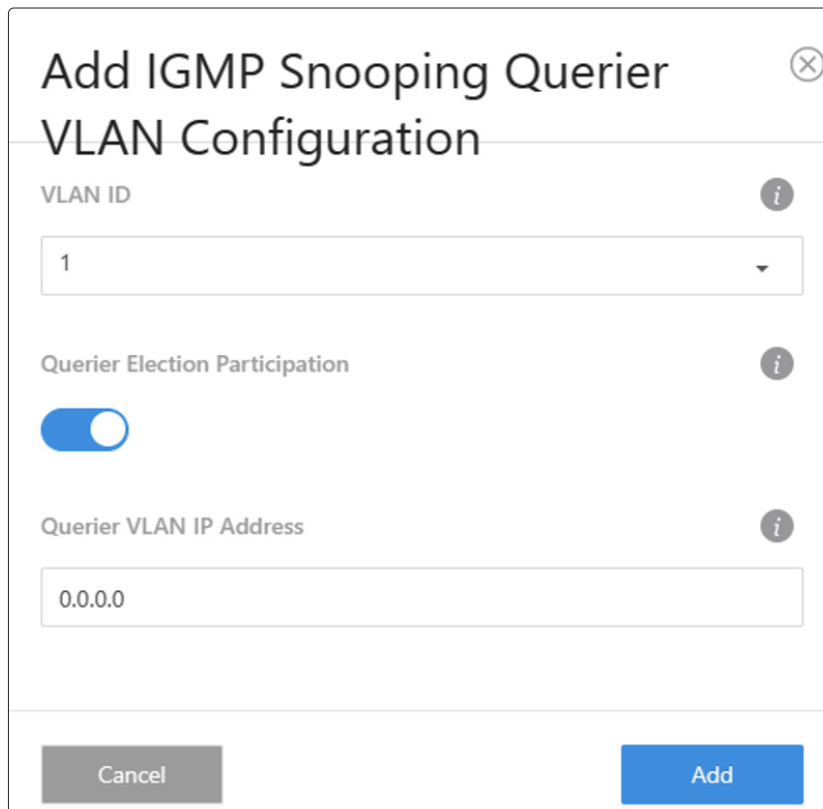18. The Querier IP address should be set to the same IP address as the switch.

19. Select the **VLAN Configuration Tab** in the **IGMP Snooping Querier** menu.
20. On the right side, select the three dots under **OPTIONS** and choose '**Add**'.
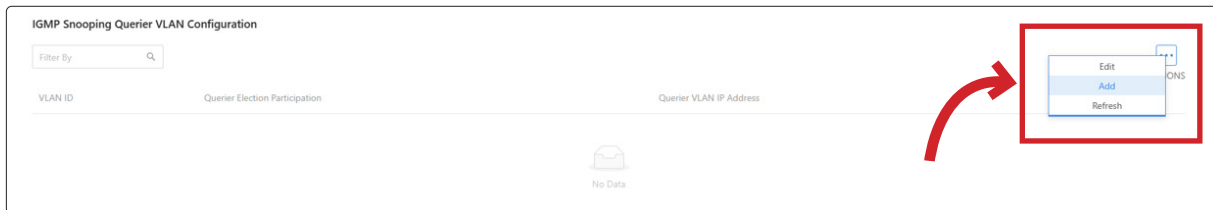
21. Confirm VLAN 1 is selected and enable '**Querier Election Participation**'. The VLAN IP can be 0.0.0.0.
22. Then, click **Add** button.

23. Click the **Apply** button in the top right corner of the screen.
24. This is all that is needed for a single switch setup.

MANUAL VERSION HISTORY

V1.0 - 8th February 2024. First version.