

BINARY MOIP SETUP GUIDE FOR THE PAKEDGE SX-24 NETWORK SWITCHES



INTRODUCTION

This covers the MoIP configuration for the following switches:

- SX-24 SX-24P16
- SX-24P8 SX-24P

The SX series switches can only be used for single-switch MoIP systems. Because of the high bandwidth requirements of each MoIP device, the 1G uplink of these switches is not enough to transfer multiple streams between switches. If this use case is required, look to the Pakedge S3L-24P switch for support.

1. Log In to the Switch

Log in to your switch. The default login for any SX-24x is at the IP address 192.168.1.205, username *pakedge* password *pakedges*—though hopefully you changed this password at install.

SX-24P8 pakedgedevice&software inc	
pakedge	
Login	

Step 2: Check for Jumbo Frames

Doublecheck under **Ports > Port Setting > MTU** that the ports are configured for Jumbo Frames (MTU 9k+). This is the default setting for the SX switches.

Por	t Settings									
Common (Configuration	Port Statistics	Flow Control	Broadcast Storm	Port Rateli	mit MTU L	ink Aggregatio	on Mirror		
2	4	6	10	12	14	16	18	20	22	24
9216	9216	9216 92	16 921	6 9216	9216	9216	9216	9216	9216	9216
							and a			
			,		13	15		19	21	
9216	9216	9216 921	16 921	6 9216	9216	9216	9216	9216	9216	9216
				: /	MTU					
				MT	U					
				1518~	9216					

Step 3: Enable IGMP

Navigate to Traffic>IGMP

VLAN	Traffic	Management
Configuration	QoS	Maintenance
MAC VLAN	ACL	SNMP
Protocol VLAN	STP	LLDP
Voice VLAN	IGMP	Syslog
	DHCP Relay DHCP Snooping	Network Diagnostic
		_

Set IGMP Status to Enable and click Apply.

AP Snooping Multicast Filtering Fast Leave Multicast Group	AP Snooping Multicast Filtering Fast Leave Multicast Group	AP Snooping Multicast Filtering Fast Leave Multicast Group) IGMP			
IGMP Global Setup	IGMP Global Setup IGMP Status (Enable + Multicast VLAN Registration Status (Disable +)	IGMP Global Setup IGMP Status : Enable ♦ Multicast VLAN Registration Status : Disable ♦	MP Snooping Mul	Iticast Filtering Fast Le	ave Multicast Group	
IGMP Global Setup	IGMP Status (Enable + Multicast VLAN Registration Status (Disable +	IGMP Global Setup IGMP Status ☐ Enable ♦ Multicast VLAN Registration Status ☐ Disable ♦				
	IGMP Status Enable 🔶 Multicast VLAN Registration Status Disable 🔶	IGMP Status 🗧 Enable 💠 Multicast VLAN Registration Status 🗧 Disable 🛊			IGMP Glo	obal Setup

Step 4: Edit IGMP Settings

Scroll down and click the **Edit** icon (on the right) to edit IGMP for the VLAN that will run MoIP communications.

Apply Clear					IGMF Status			
VI AN Quarter Pourting Group general Query Group specific Query Host Unknown Multicast			Clear	Apply				
ID State Port Age Max Response Time Max Response Time Age Action	Unknown Multicast Action	Host Port Age	Group-specific Query Max Response Time	Group-general Query Max Response Time	Routing Port Age	Querier State	VLAN ID	D

et Querier State to Enable	e, and Unknown r	Multicast Action to Drop.	LIICK APPIY.
		IGMP Global Setup	
VLAN ID	1	Querier State	Enable 🖨
Routing Port Age	105	Group-general Query Max Response Time	10
Group-specific Query Max Response Time	2	Host Port Age	260
Unknown Multicast Action	Drop	\$	

Set Querier State to Enable, and Unknown Multicast Action to Drop. Click Apply.

Step 5: Set Up Fast Leave

Navigate to **Fast Leave** and select all ports connected to a MoIP device. Select **Enable** at the bottom and click **Apply**. (You can select all ports and enable fast leave as this should have no adverse effects on any other applications running through the switch.)

↑ IGMP										
IGMP Snooping Mu	lticast Filtering	Fast Leave	Multicast (Group						
		-	10	12	14	16	18	20	22	24
• •		•	•	•	•	•	•	•	•	
	●Fast Leave									
	Fast Leave									
					,	ear				

This completes the SX-24x switch Single Switch MoIP configuration



Rev: 191108-1402 © 2019 Binary