LUXUL™

QSC Q-Sys

Switch Configuration Guide

Login to switch

Login to switch via web browser.

If your network is not currently on a 192.168.0.x subnet, you may need to temporarily set your computer to a static IP subnet of 192.168.0.x It is also recommended to change the IP address of the switch to match the subnet of your network.

Default IP address of the switches are:

AMS-2600 = 192.168.0.2

AMS/XMS-1208P = 192.168.0.3

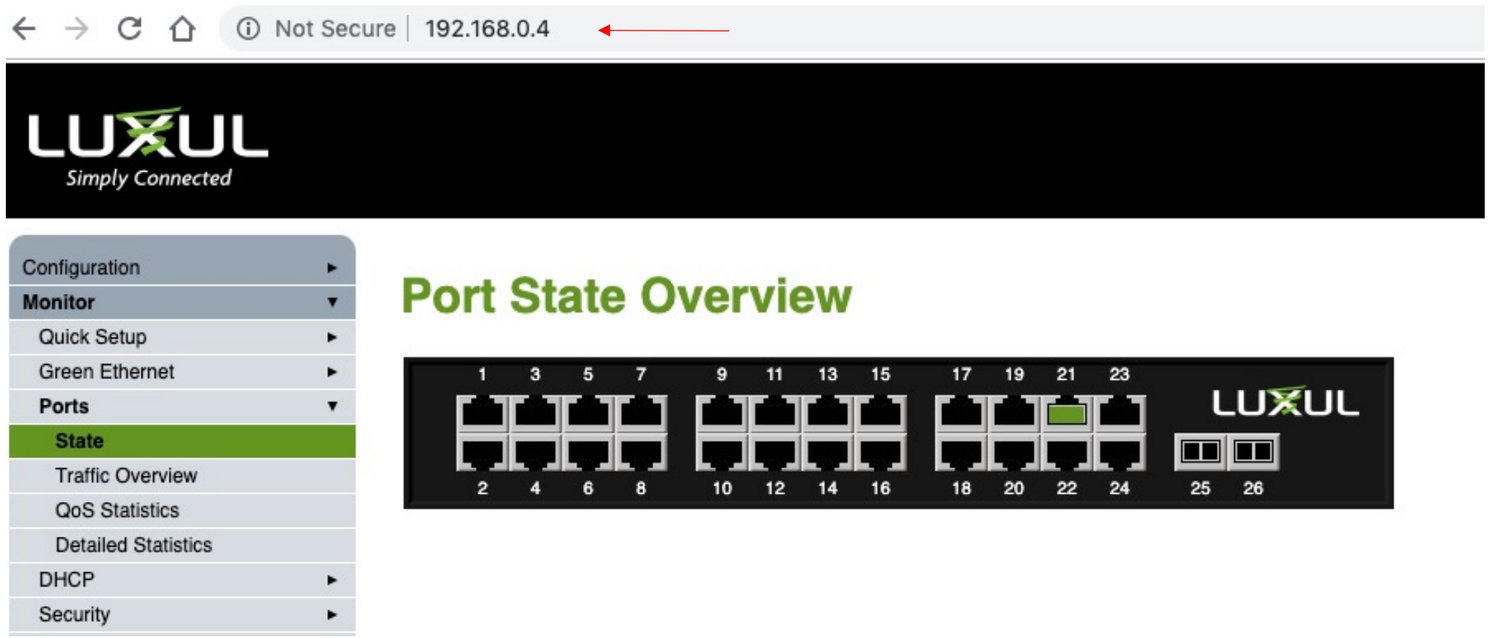
All other AMS/XMS models = 192.168.0.4

SW-510/610 Series = DHCP by default

Default username = admin

Default password = admin*

*Firmware will require a password change upon initial setup



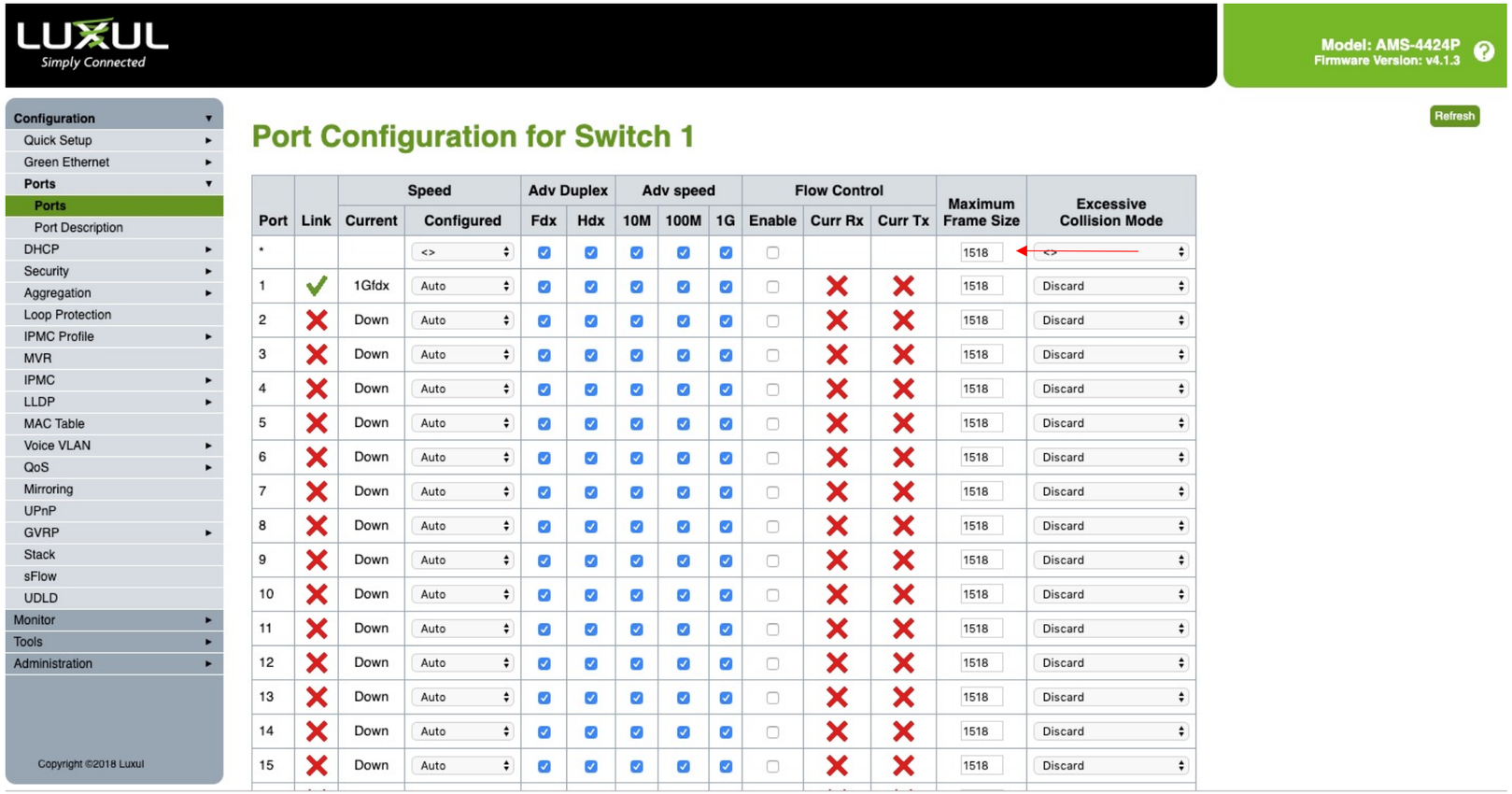
Set Port Frame Size

Navigate to Configuration > Ports > Ports

Set Maximum Frame Size to 1518.

Changing the setting on the top row with the * globally selects all ports

Click Save at bottom of screen.



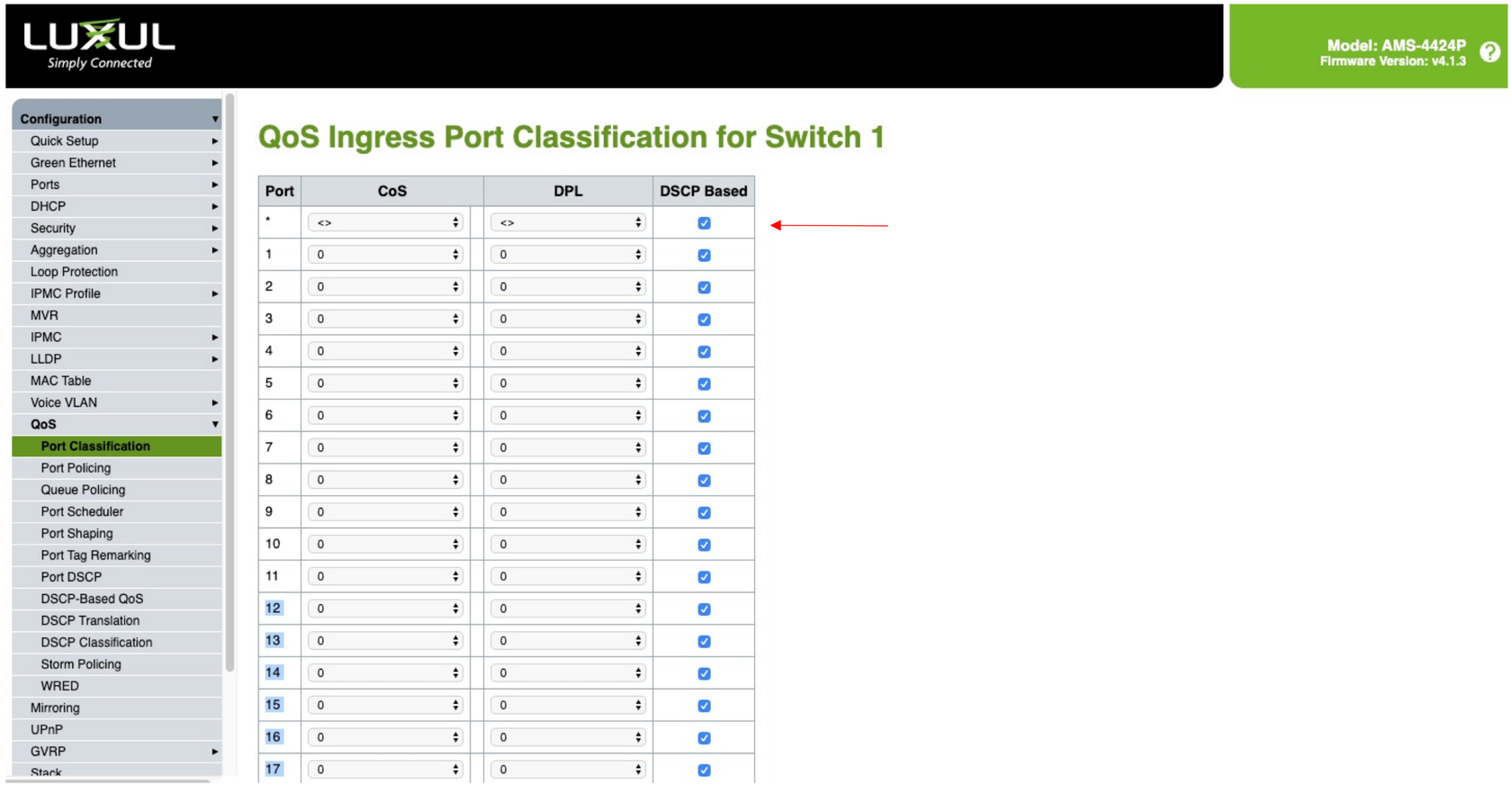
DSCP Based Port Classification

Navigate to Configuration > QoS > Port Classification

Select DSCP Based for every port

Changing the setting on the top row with the * globally selects all ports

Click Save at bottom of screen



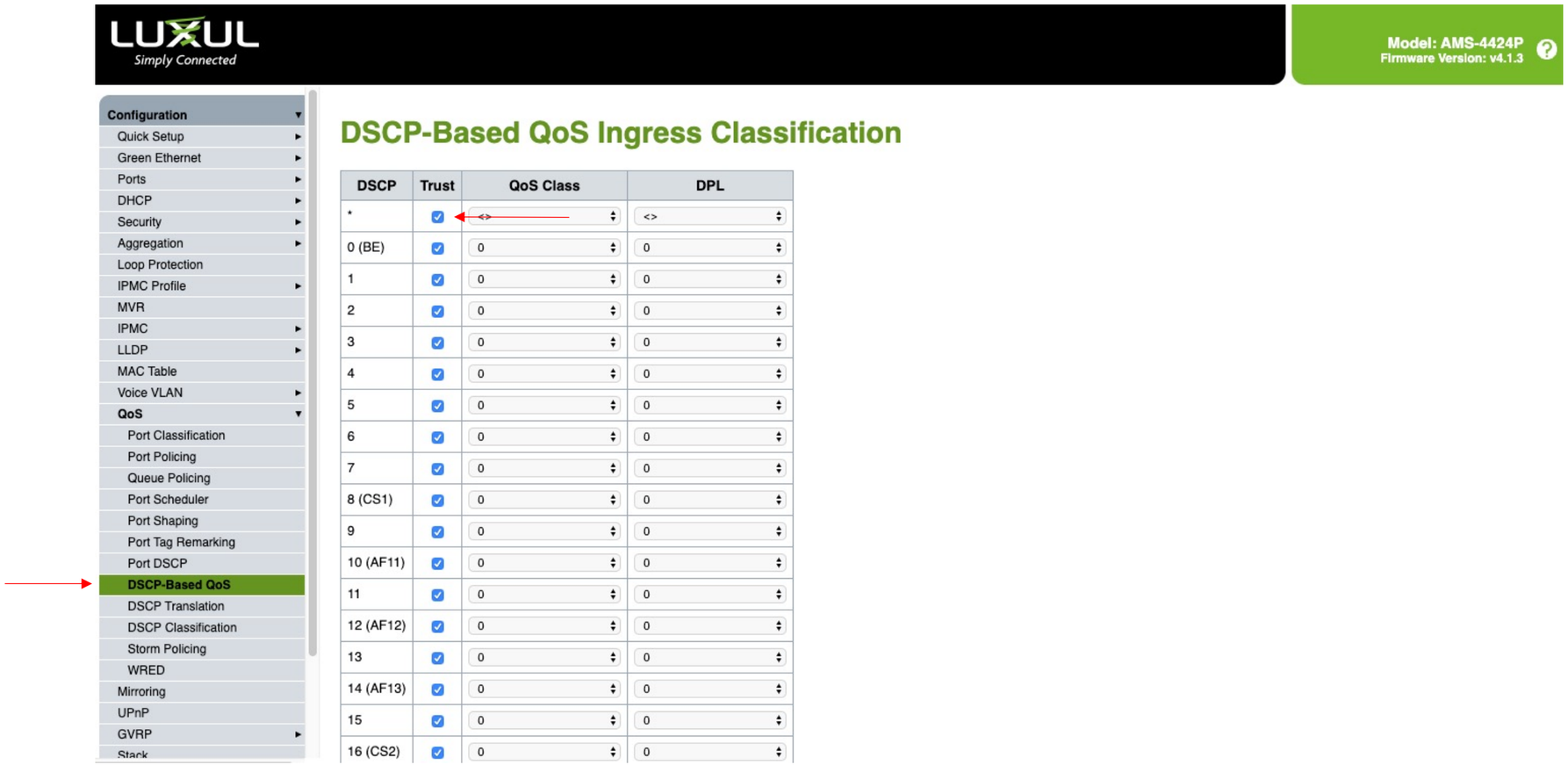
Trust DSCP

Navigate to Configuration > QoS > DSCP Based QoS

Select Trust for all ports

Changing the setting on the top row with the * globally selects all ports

Click Save at bottom of screen



DSCP Class for Q-Sys only configuration

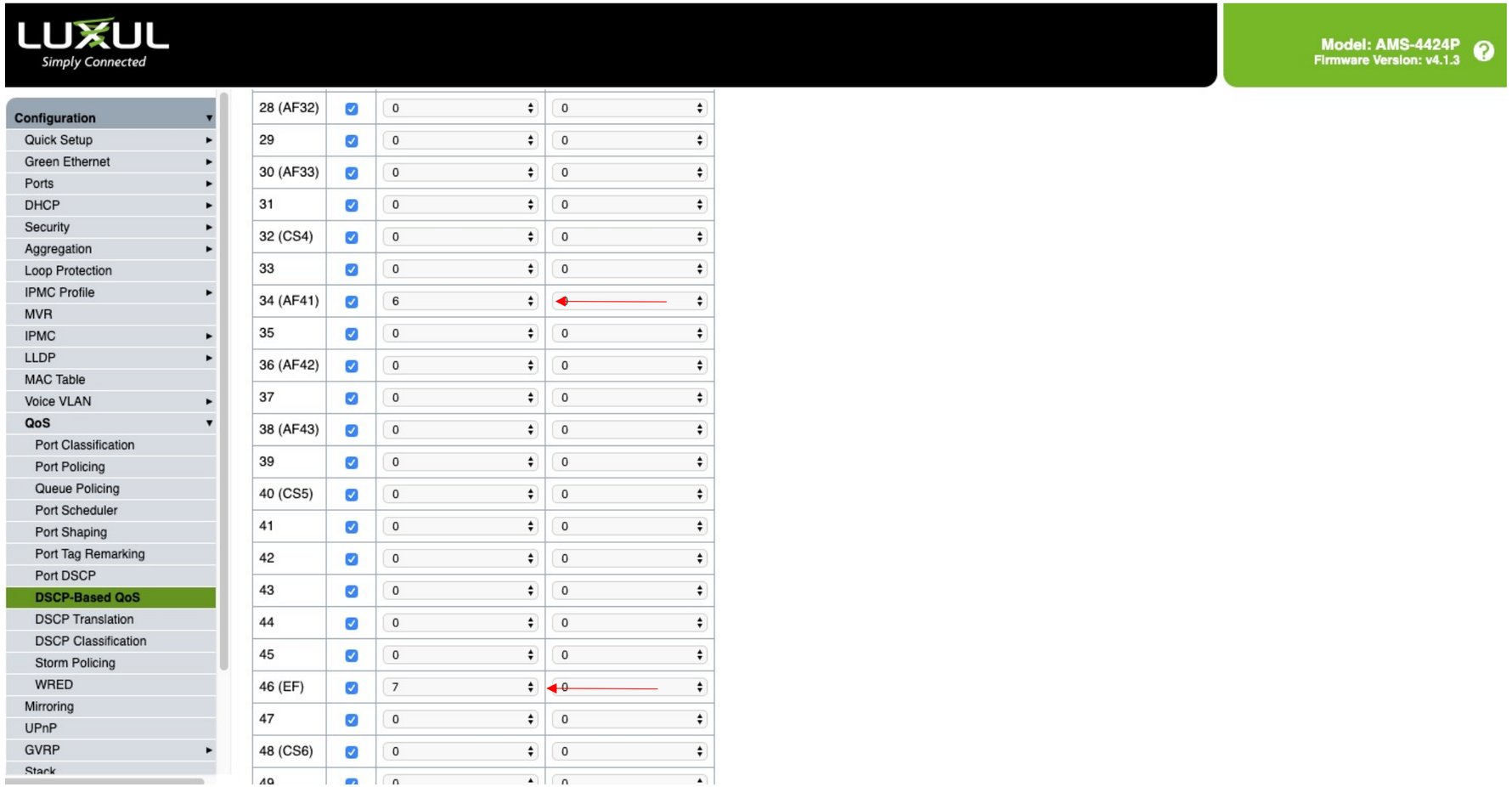
*Use this config when configuring only for Q-Sys. If using the same switch for both Q-Sys and Dante, skip to the next page.

On same screen as above

Set Class 46 to Priority 7

Set Class 34 to Priority 6

Click Save at bottom of screen



DSCP Class for combo Dante & Q-sys

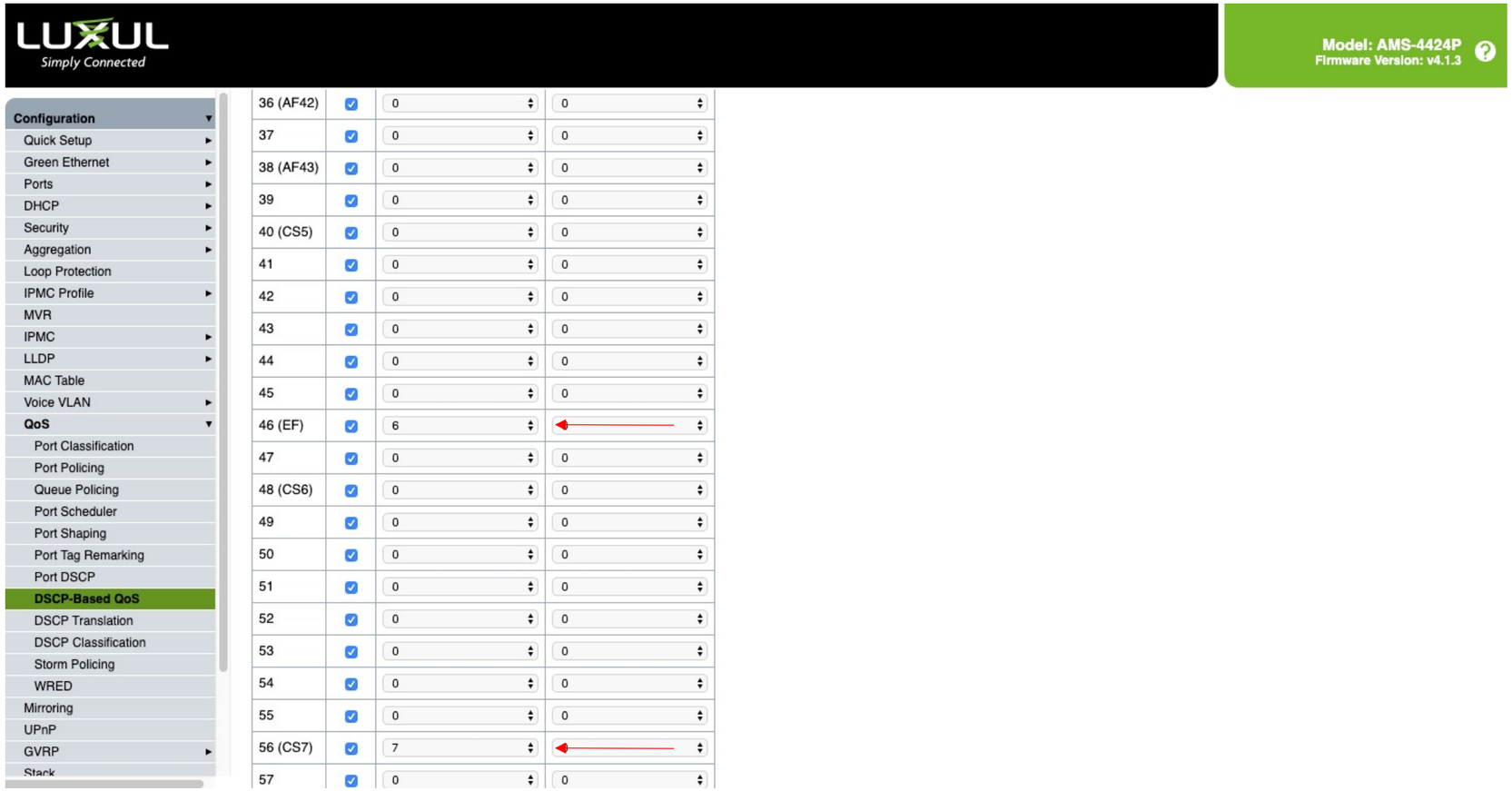
*Use this config only when using the same switch to run both Dante Q-Sys. Skip this step if only configuring for Q-Sys.

On same screen as above

Set Class 56 to Priority 7

Set Class 46 to Priority 6

Click Save at bottom of screen



DSCP Class for combo Dante & Q-sys

*Use this config only when using the same switch to run both Dante Q-Sys. Skip this step if only configuring for Q-Sys.

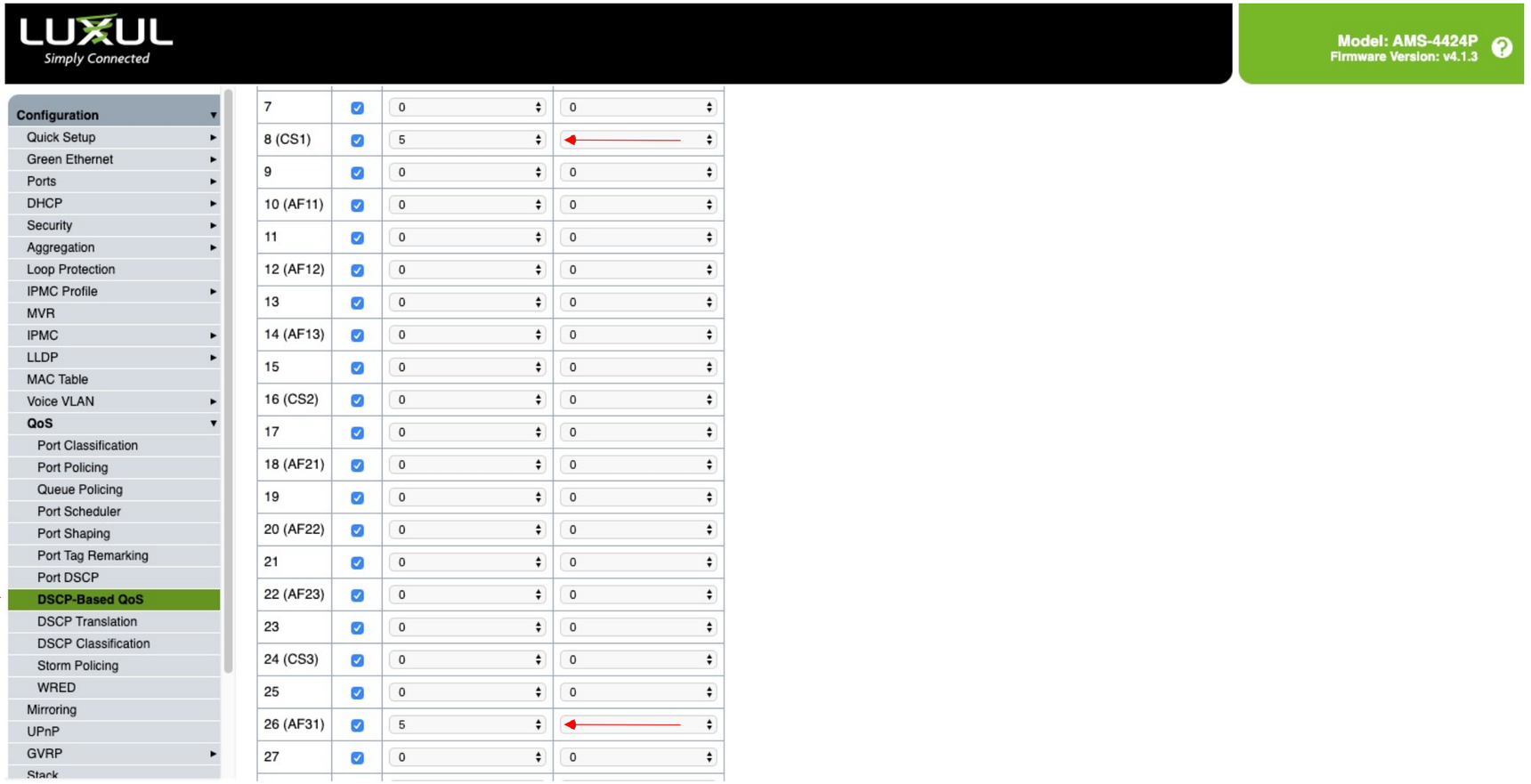
On same screen as above

Set Class 26 to Priority 5

Set Class 8 to Priority 5

All other Classes set to 0

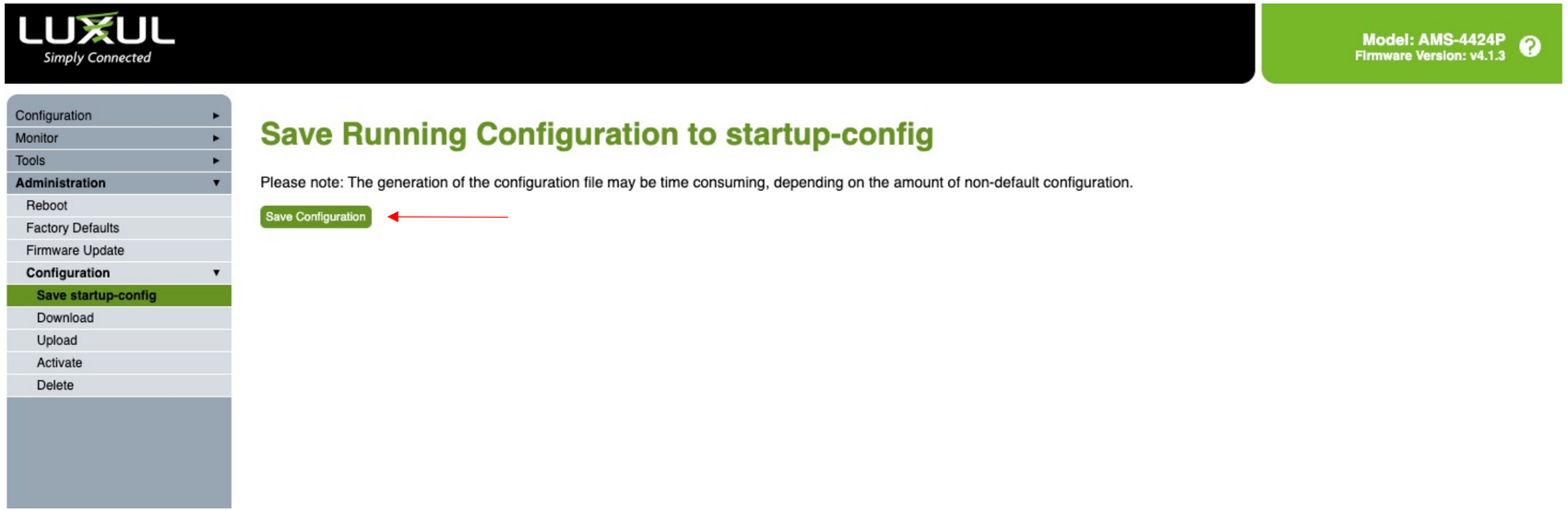
Click Save at bottom of screen.



Save Startup Configuration

Navigate to Administration > Configuration > Save startup-config

Click Save Configuration



IGMP Multicast Configuration

Navigate to Configuration > IPMC > IGMP Snooping > Basic Configuration

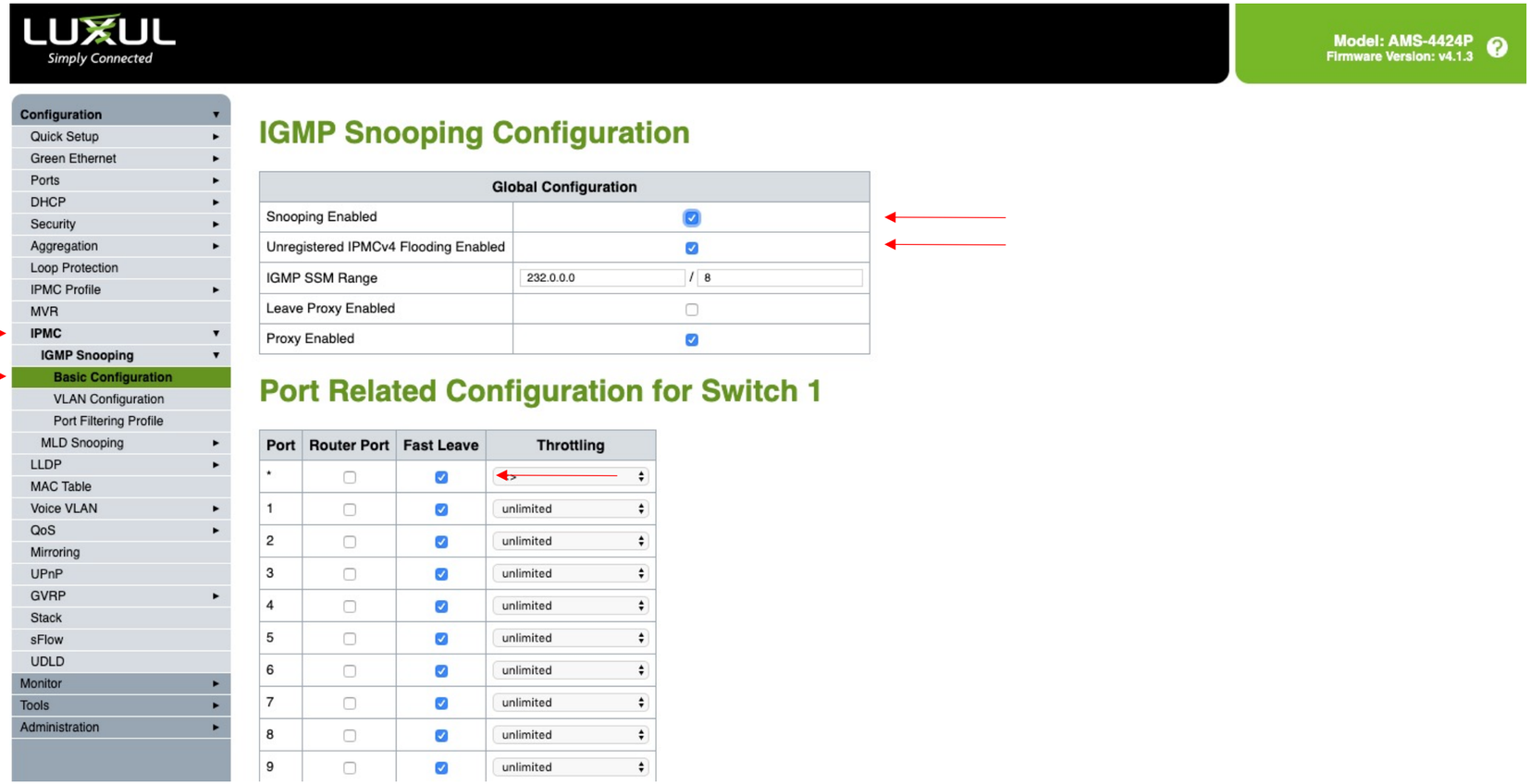
Check Snooping Enabled

Check Unregistered IPMCv4 Flooding Enabled (it should be enabled already)

Check Fast Leave on all ports

Changing the setting on the top row with the * globally selects all ports

Click Save at bottom of screen



IGMP Multicast VLAN Configuration

Navigate to Configuration > IPMC > IGMP Snooping > VLAN Configuration

Click Add New IGMP VLAN

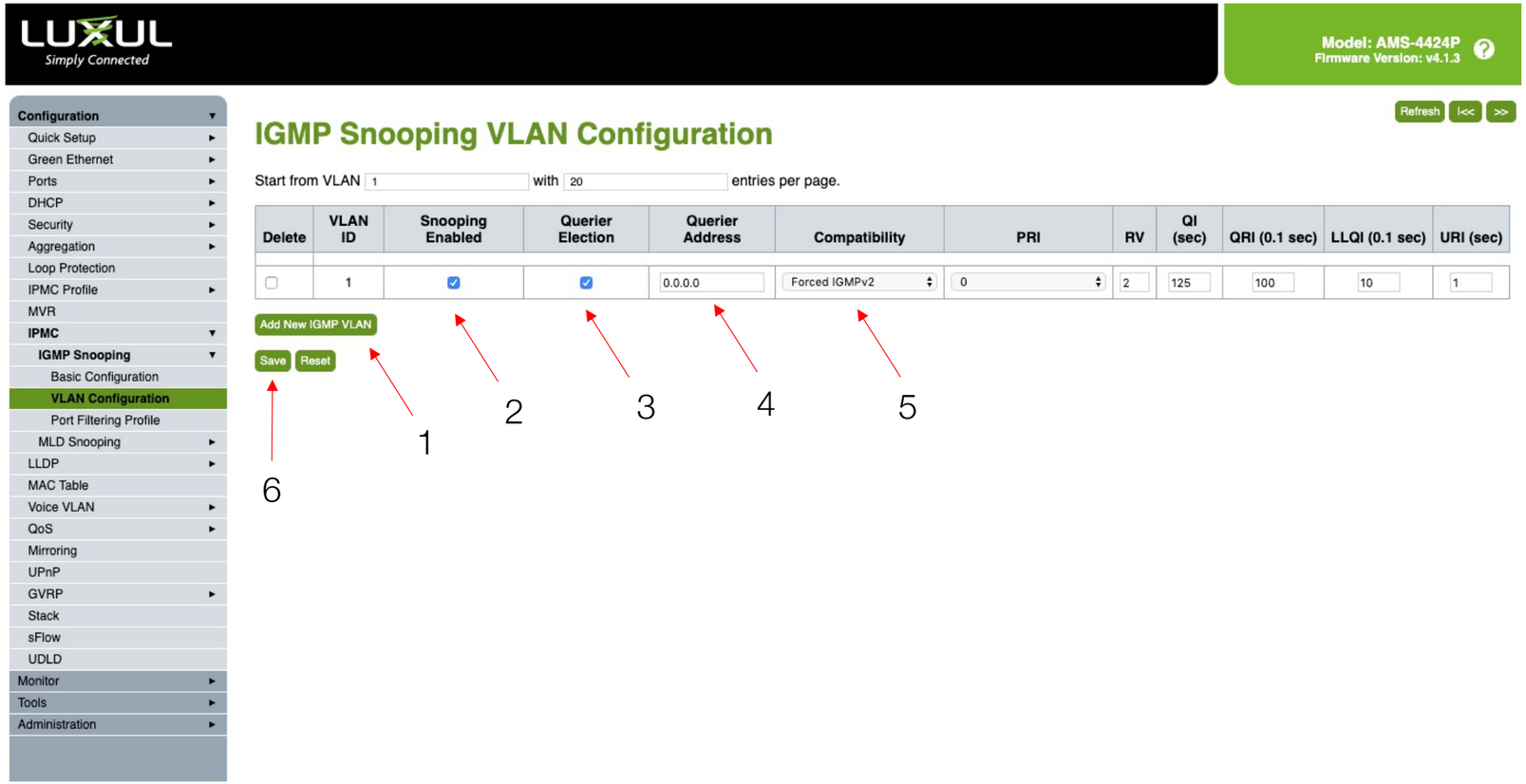
Check Snooping Enabled

Check Querier Election

IP Address can be left at 0.0.0.0 if only using one switch

*Set IP as IP address of the switch if using more than one switch in network

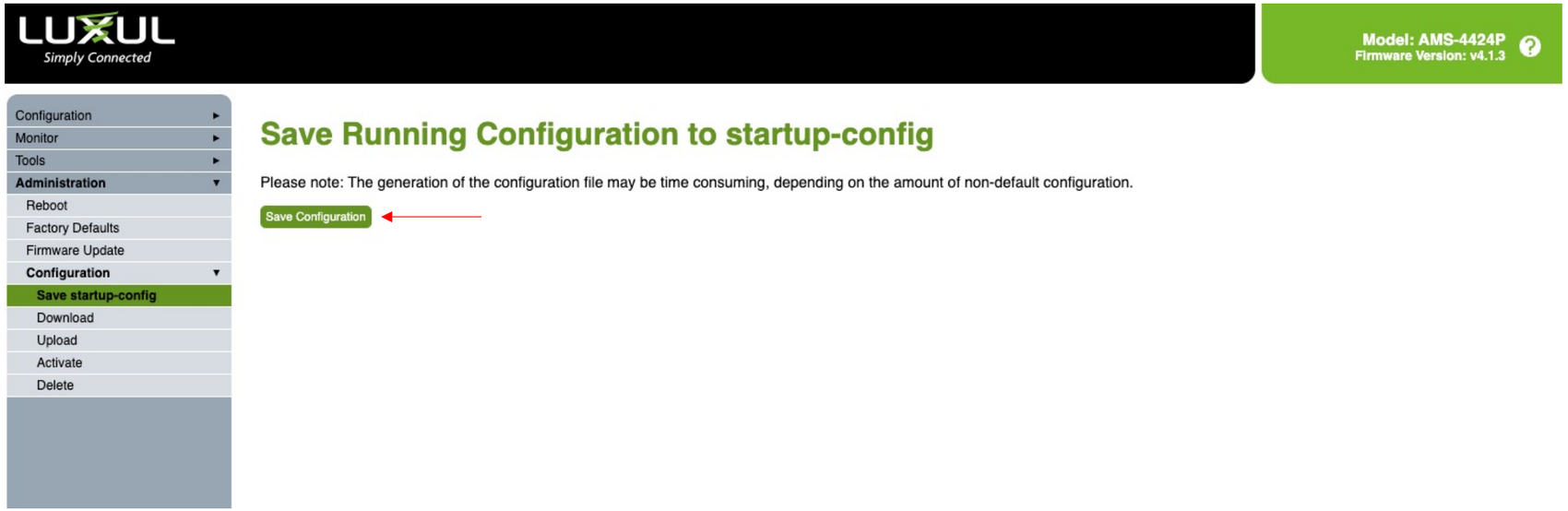
Change Compatibility to Forced IGMPv2



Save Startup Configuration

Navigate to Administration > Configuration > Save startup-config

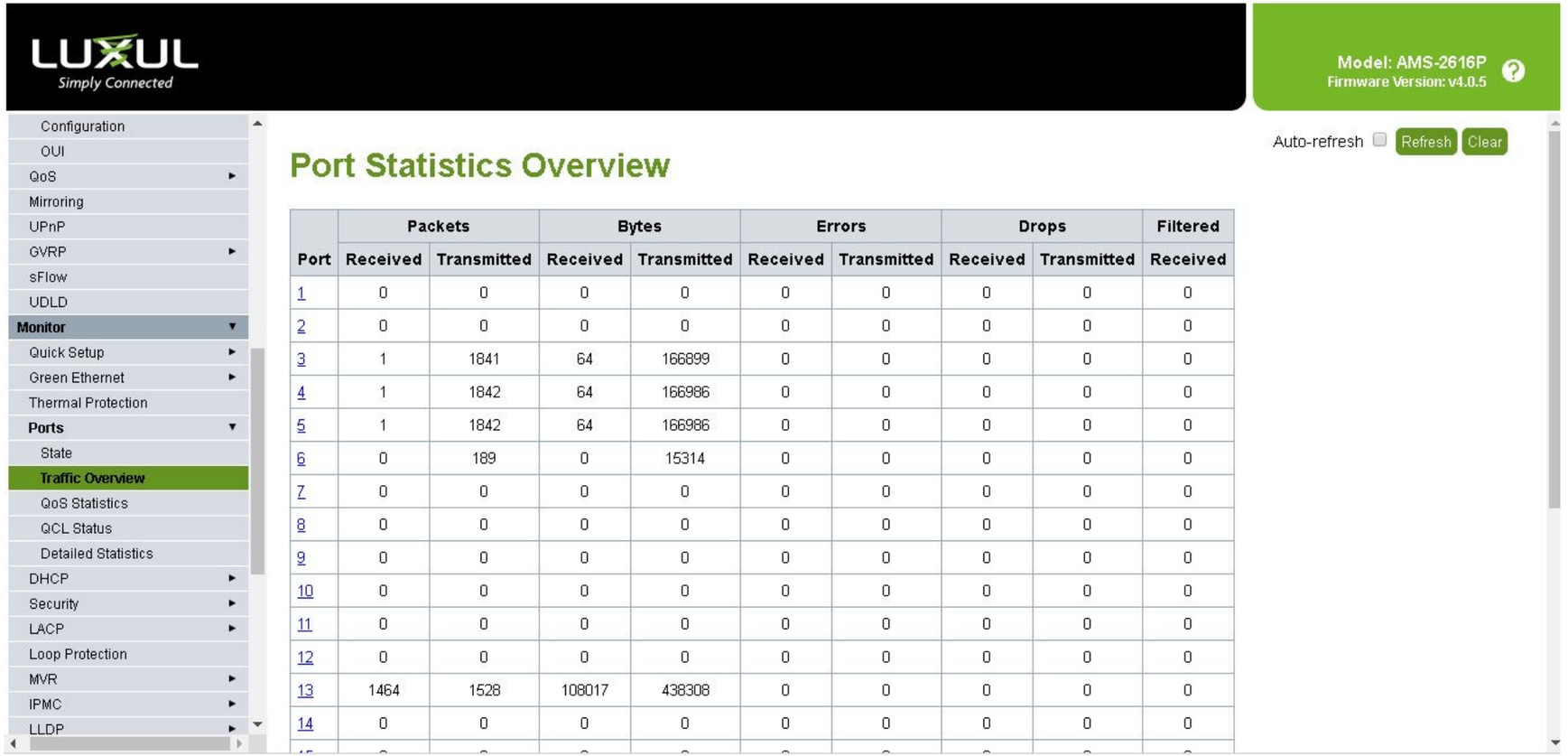
Click Save Configuration



Diagnostic Tools

Navigate to Monitor > Ports > Traffic Overview

Errors, Drops, Filtered should be 0 or near 0

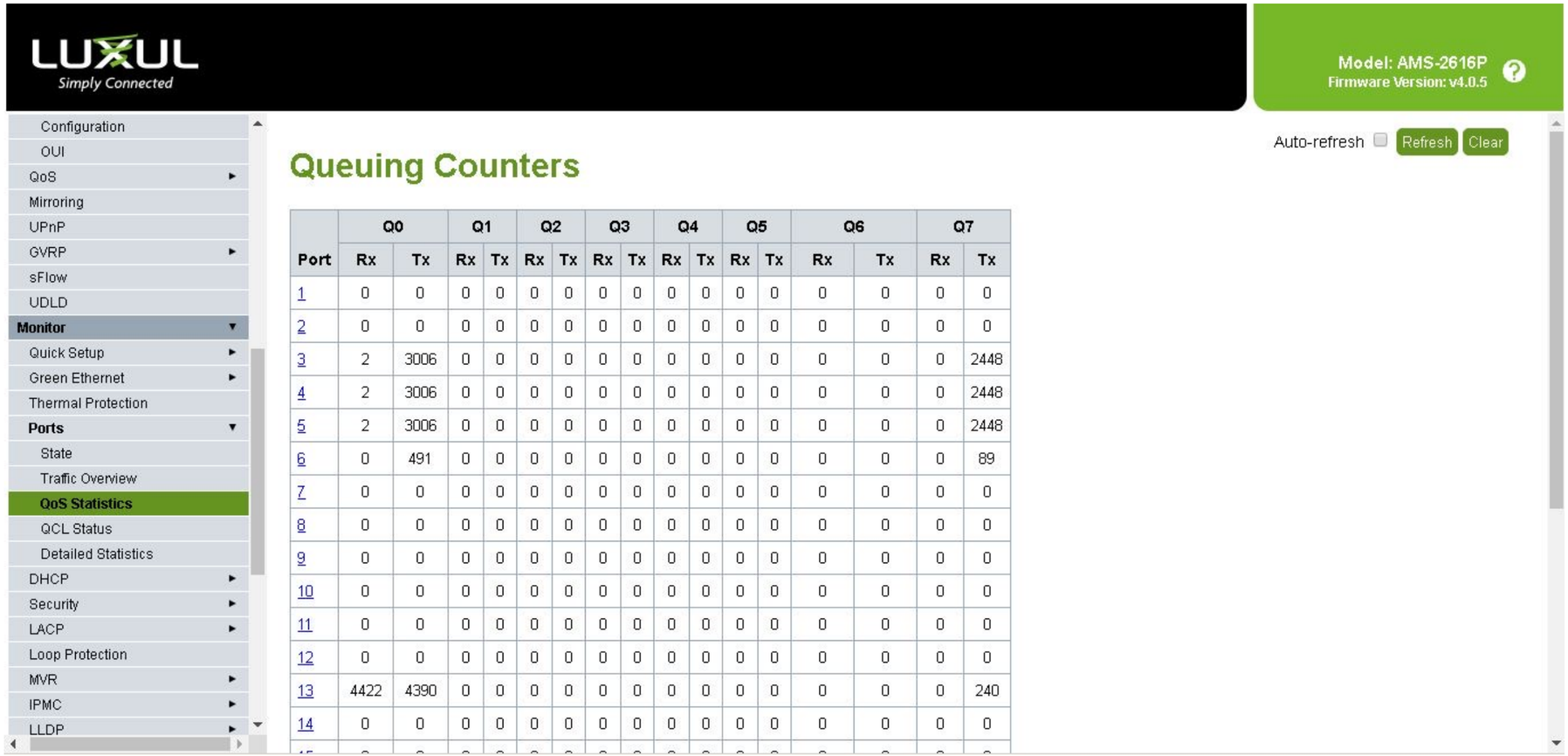


Port	Packets		Bytes		Errors		Drops		Filtered
	Received	Transmitted	Received	Transmitted	Received	Transmitted	Received	Transmitted	Received
1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	1	1841	64	166899	0	0	0	0	0
4	1	1842	64	166986	0	0	0	0	0
5	1	1842	64	166986	0	0	0	0	0
6	0	189	0	15314	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
13	1464	1528	108017	438308	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0

Diagnostic Tools

Navigate to Monitor > Ports > QoS Statistics

Numbers should be seen in Q6 and Q7 for any port that a Q-Sys device is connected as that is where the Q-Sys system runs on the network

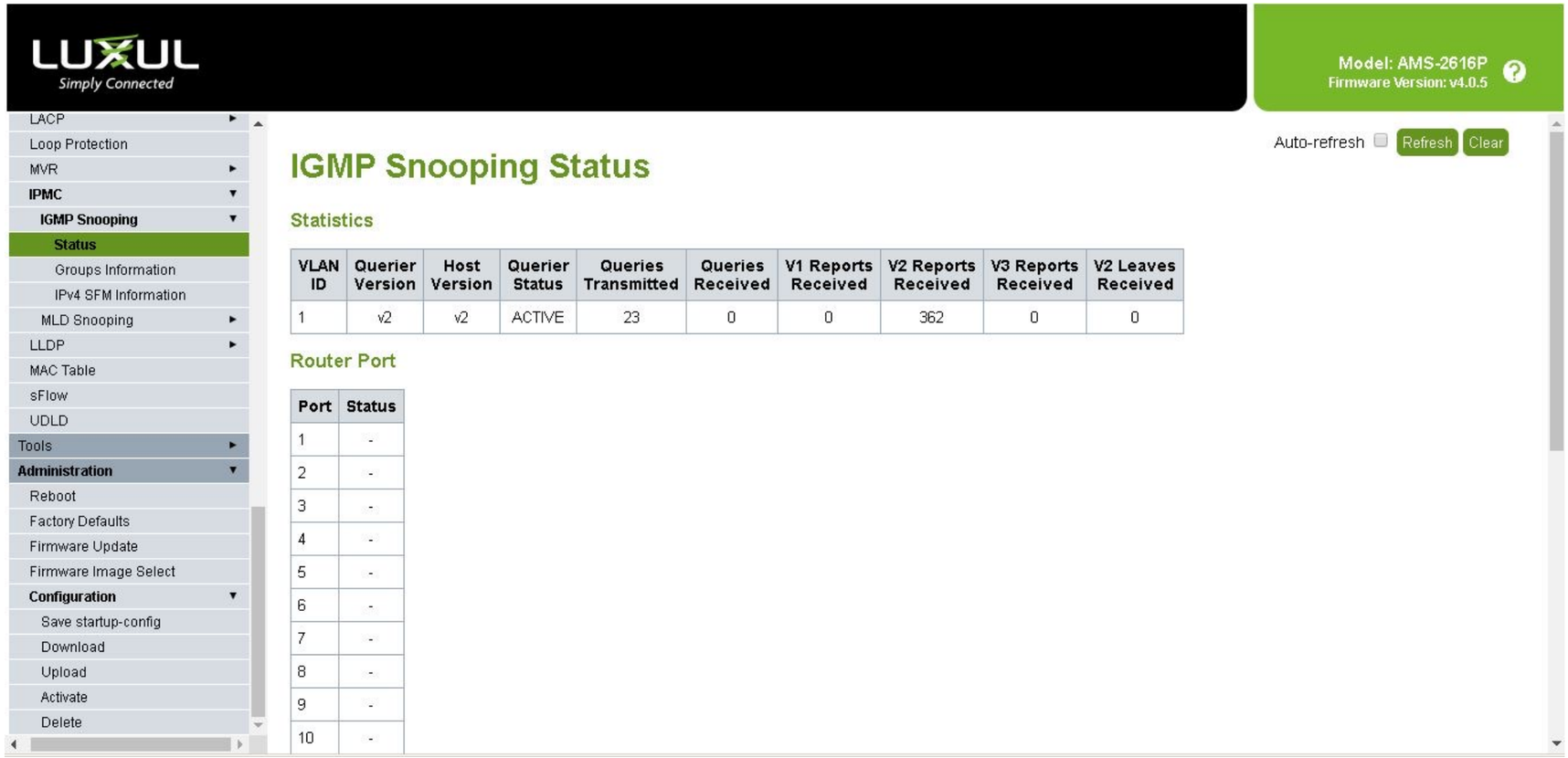


Port	Q0		Q1		Q2		Q3		Q4		Q5		Q6		Q7	
	Rx	Tx	Rx	Tx	Rx	Tx	Rx	Tx	Rx	Tx	Rx	Tx	Rx	Tx	Rx	Tx
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	2	3006	0	0	0	0	0	0	0	0	0	0	0	0	0	2448
4	2	3006	0	0	0	0	0	0	0	0	0	0	0	0	0	2448
5	2	3006	0	0	0	0	0	0	0	0	0	0	0	0	0	2448
6	0	491	0	0	0	0	0	0	0	0	0	0	0	0	0	89
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	4422	4390	0	0	0	0	0	0	0	0	0	0	0	0	0	240
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Diagnostic Tools

Navigate to Monitor > IPMC > IGMP Snooping > Status

Q-Sys uses IGMP v2. Querier and Host Version should indicate v2. Querier Status should indicate Active.

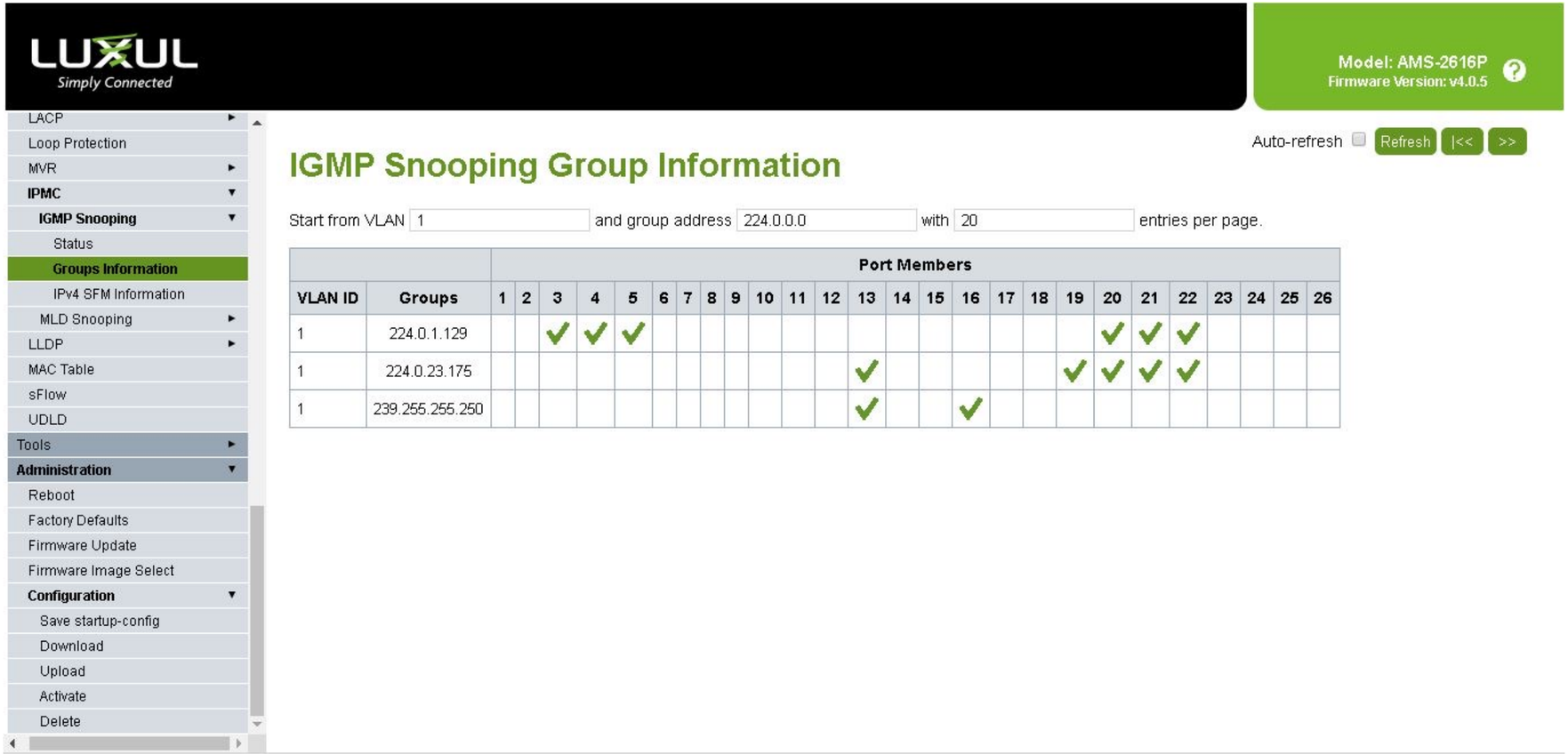


Diagnostic Tools

Navigate to Monitor > IPMC > IGMP Snooping > Groups Information

Q-SYS uses the following multicast groups:

224.0.1.129 used for PTPv2

224.0.23.175 used for QDP (Q-SYS Discovery Protocol)

This screen shows the groups and which ports/devices are part of the IGMP group