

Manual configuration of Cisco 300 Series switches- shown on SF302-08MP

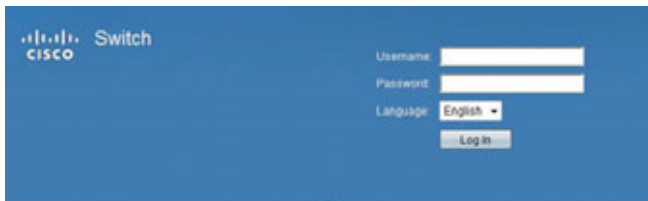
This sheet shows how to configure the 8 port Cisco SF 302-08MP switch for myMix.
If you have another model from the 300 Series the configuration is accordingly.

0. Connect to the Switch and Log-On

Power up the switch, and connect on Ethernet port with your computer. (We recommend to turn wireless off). Open your internet browser and connect to : 192.168.1.254 .

You'll get to the log-on screen:

Username and password is: Cisco.



The image shows the login screen for a Cisco switch. It has a blue background with the Cisco logo and the word "Switch" in the top left. On the right side, there are three input fields: "Username" with "Cisco" entered, "Password" with "Cisco" entered, and "Language" with a dropdown menu set to "English". Below these fields is a "Login" button.

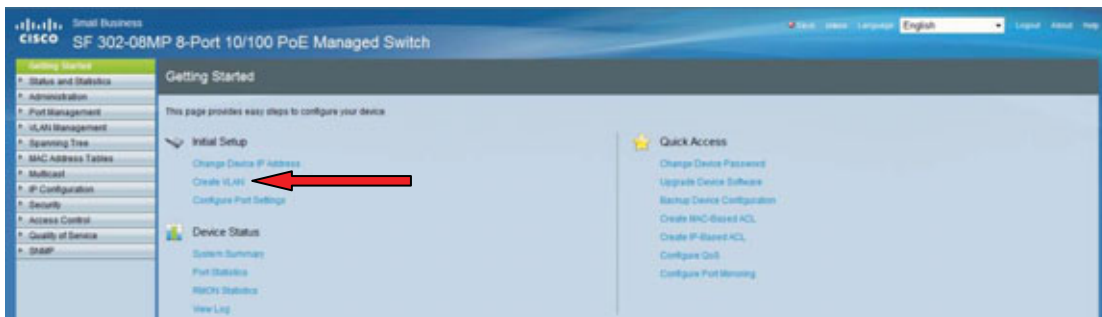
You will be prompted to create a new password. We suggest you use: password



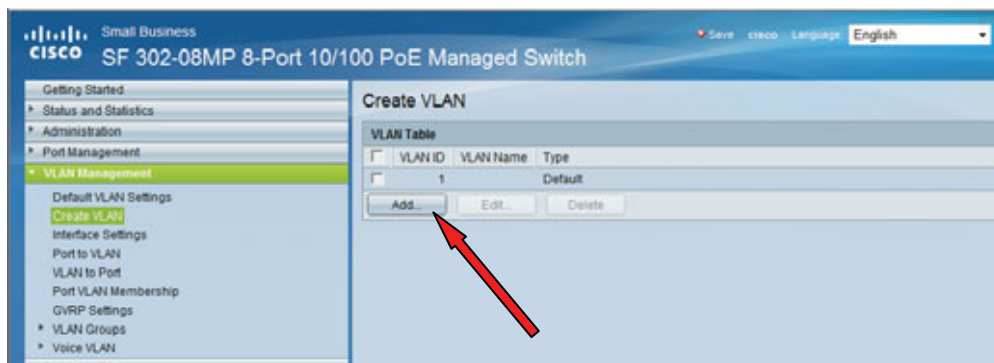
The image shows the "Change Password" screen. It has a light blue background. There are three input fields: "Old Password" with "*****" entered, "New Password" with "*****" entered, and "Confirm Password" with "*****" entered. Below these fields is a "Password Strength Meter" which is a red bar. At the bottom, there is an "Apply" button.

1. Create VLAN 2, Name it AVB (or mymix....)

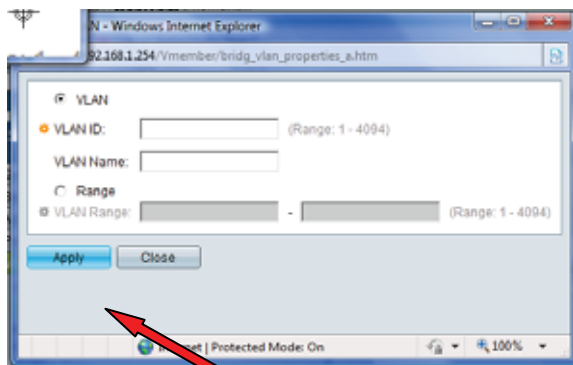
On the Getting Started Screen click on Create VLAN



Or in the main menu, navigate to VLAN Management | Create VLAN



Press Add



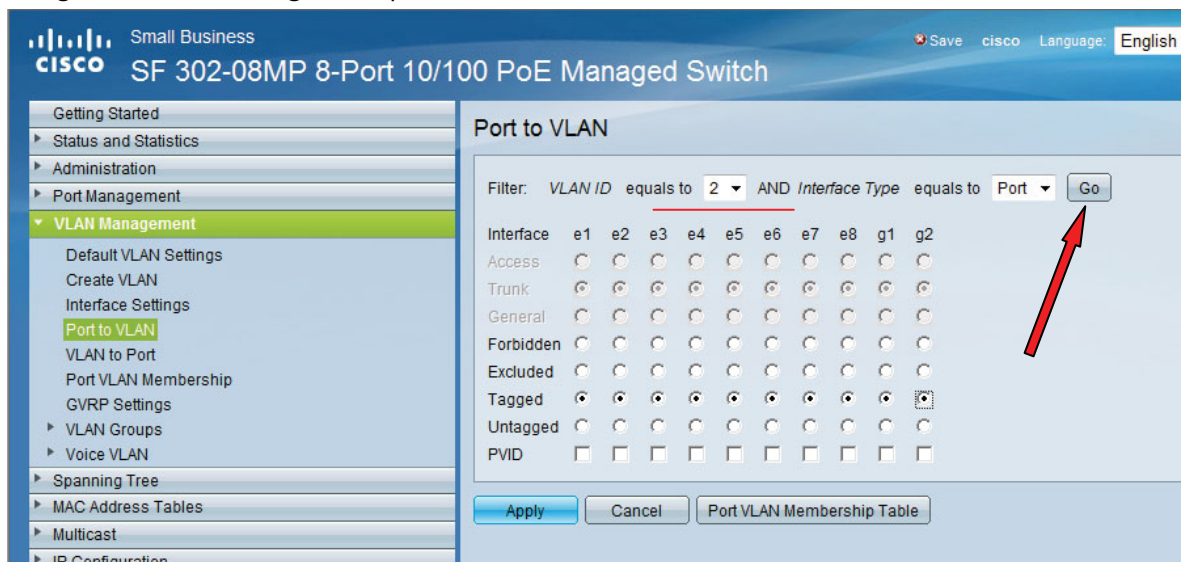
VLAN ID: 2

VLAN Name: e.g. AVB

Press Apply, and then press Close.

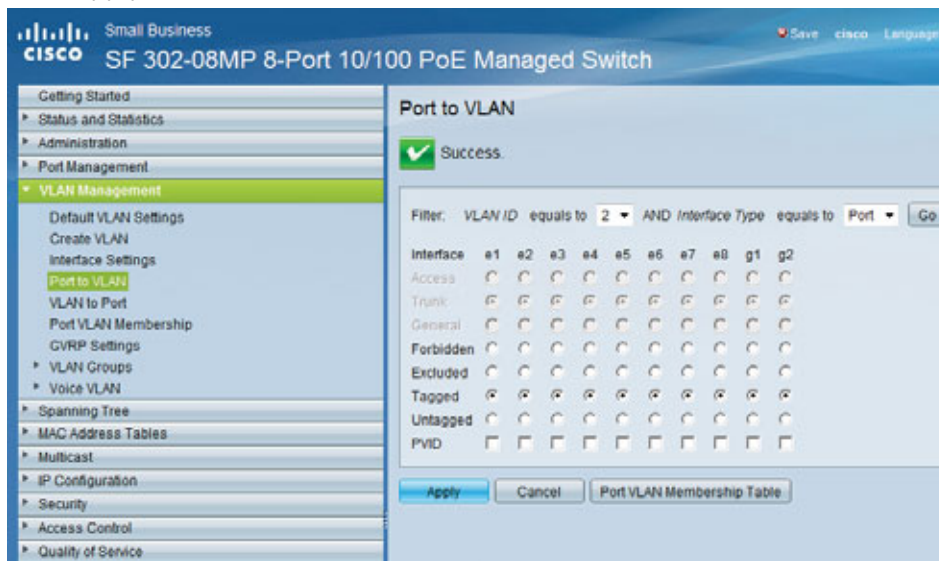
2. Assign all AVB Ports as Tagged on VLAN 2

Navigate to VLAN Management | Port to VLAN



Select VLAN 2 and press go

Mark all ports that are used for myMix as Tagged (typically all Ports on the switch)
Press Apply.

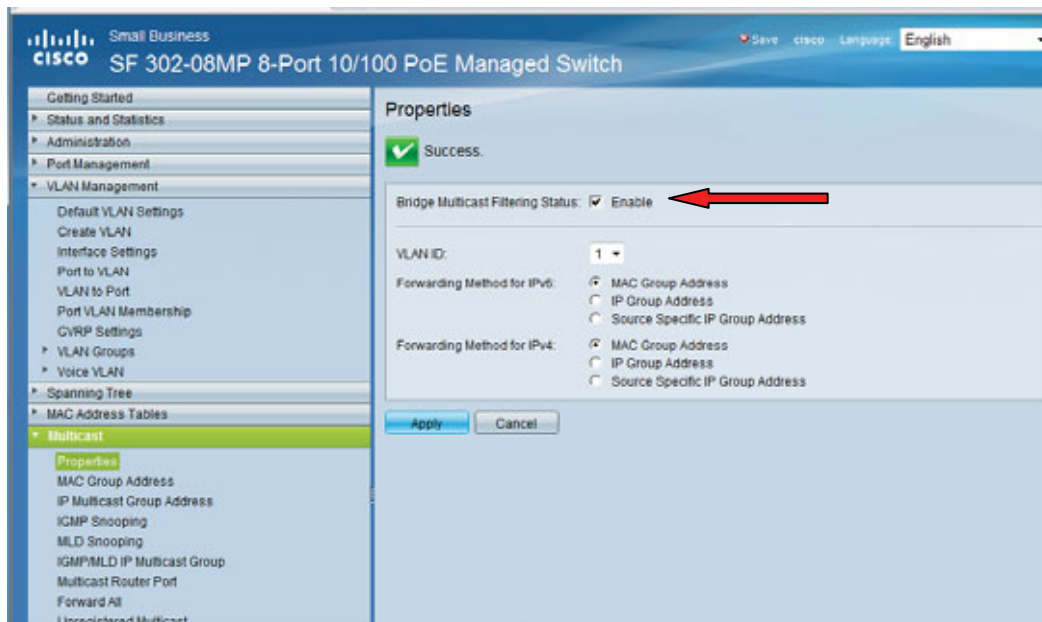


3. Enable Bridge Multicast Filtering

Navigate to Multicast | Properties

Check Bridge Multicast Filtering Status Enable

Press Apply

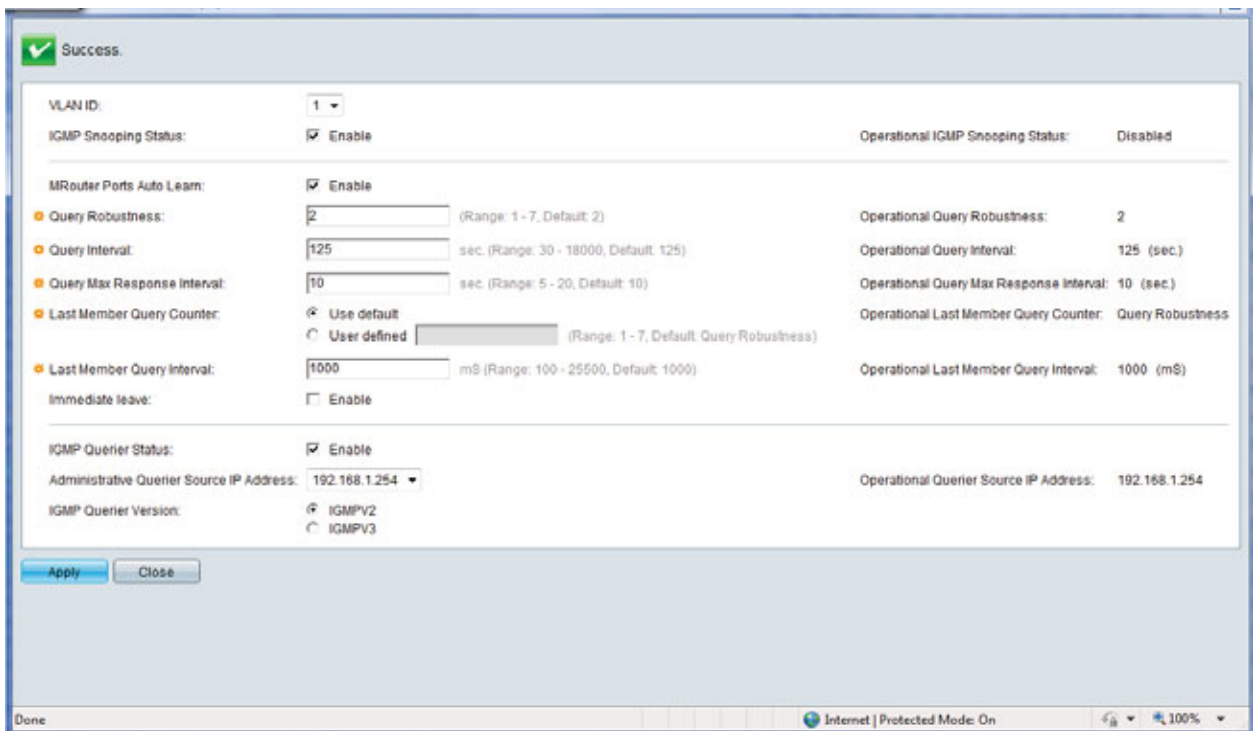


4. Enable IGMP Snooping and IGMP Querier on both VLAN 1 & VLAN 2

Navigate to Multicast | IGMP Snooping

Check IGMP Snooping Status Enable
 Select radio button in front of VLAN 1
 Press Edit

Check IGMP Snooping Status Enable
 Check IGMP Querier Status Enable
 Press Apply



Select VLAN 2
 Check IGMP Snooping Status Enable
 Check IGMP Querier Status Enable
 Press Apply
 On the IGMP Snooping Screen you should see both VLANs with the information below.



5. Set unregistered multicast to be filtered on all myMix Ports (typically all ports)

Navigate to Multicast | Unregistered Multicast

The screenshot shows the 'Unregistered Multicast' configuration page. On the left is a navigation menu with 'Multicast' expanded. The main area displays a table of unregistered multicast entries. Below the table is an 'Edit Unregistered Multicast' dialog box. The dialog shows the following configuration:

| Entry No. | Interface | Unregistered Multicast |
|-----------|-----------|------------------------|
| 1 | e1 | Forwarding |
| 2 | e2 | Forwarding |
| 3 | e3 | Forwarding |
| 4 | e4 | Forwarding |
| 5 | e5 | Forwarding |
| 6 | e6 | Forwarding |
| 7 | e7 | Forwarding |
| 8 | e8 | Forwarding |
| 9 | g1 | Forwarding |
| 10 | g2 | Forwarding |

The 'Edit Unregistered Multicast' dialog box shows:

- Interface: Port e1 LAG
- Unregistered Multicast: Forwarding Filtering

Select Radio Button for first myMix Port

Press Edit

Select Filtering

Press Apply

The screenshot shows the 'Unregistered Multicast' configuration page after the first entry has been updated. The 'Unregistered Multicast Table' now shows entry 1 with 'Filtering' selected. Below the table is an 'Edit Unregistered Multicast' dialog box. The dialog shows a 'Success' message and the following configuration:

Success.

| Entry No. | Interface | Unregistered Multicast |
|-----------|-----------|------------------------|
| 1 | e1 | Filtering |
| 2 | e2 | Forwarding |
| 3 | e3 | Forwarding |
| 4 | e4 | Forwarding |
| 5 | e5 | Forwarding |
| 6 | e6 | Forwarding |
| 7 | e7 | Forwarding |
| 8 | e8 | Forwarding |
| 9 | g1 | Forwarding |
| 10 | g2 | Forwarding |

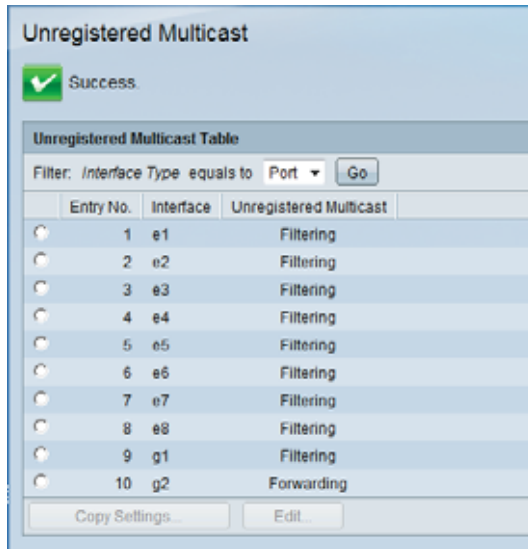
The 'Edit Unregistered Multicast' dialog box shows:

- Interface: Port e1 LAG
- Unregistered Multicast: Forwarding Filtering

Select First port and press Copy Settings

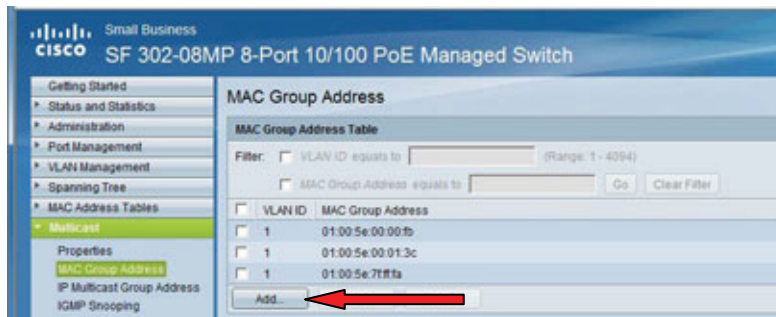
Enter 2-8 (or 2-9 if you want to include G1 port) into: field. On SF300-24P typically E1 to E24

If you plan to use G2 as uplink port, leave G2 on forwarding! (On SF300-24P, G1-4 on forwarding)
press Apply

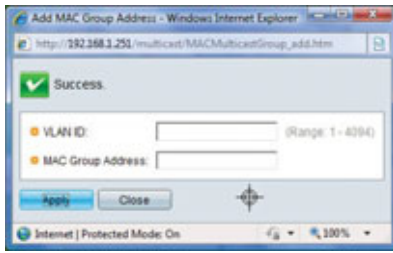


6. Exempt PTP Traffic from Filtering

Under Multicast, go to MAC Group Address

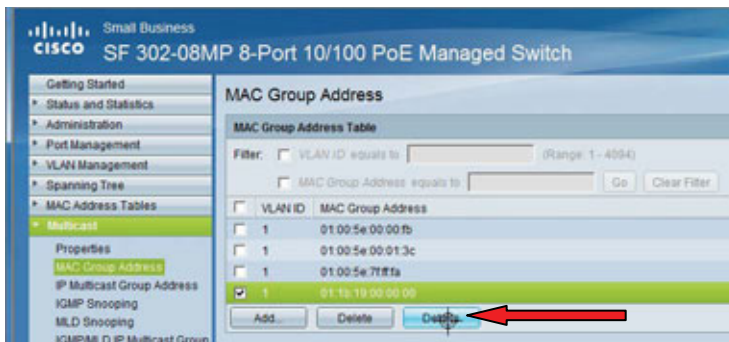


Select Add

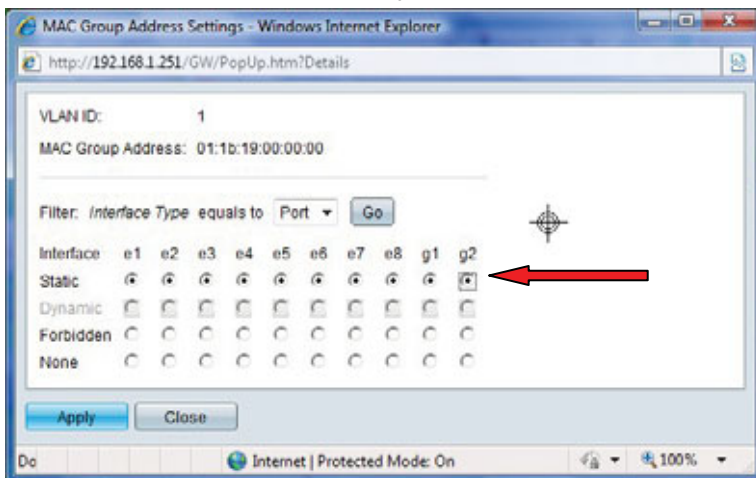


Enter 1 for VLAN ID and for the MAC Group Address 91:e0:f0:00:ff:00

Select Apply



Check the MAC address that was just added and select Details

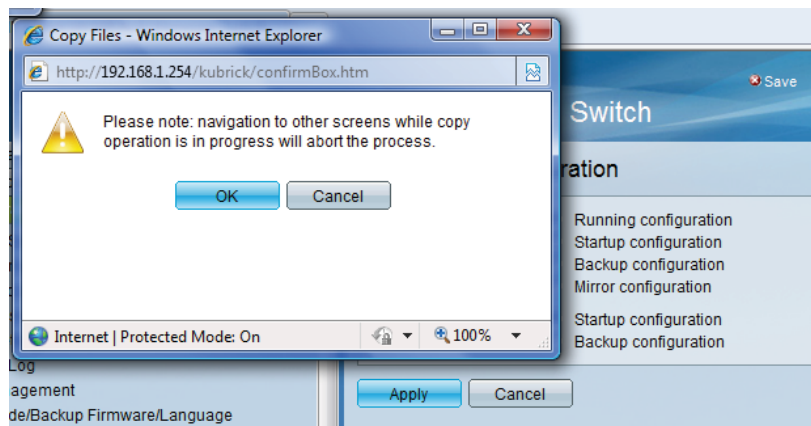


Under the MAC Group Address Settings, change the setting from none to static for each port and select Apply

7. Save all settings

Press Save on top bar (To the left of Language drop down)

You'll get a prompt not to move to other screens while in progress. Press OK.



Additional steps to configure Gigabit ports as uplink:

Note when you use more than one switch you also need to set different IP addresses, within the same gateway.. Cisco 300 Series is by default set to 192.168.1.254, so you could use any address between 192.168.1.2 and 192.168.1.253. We recommend to use .240 to .252. We recommend to put a label with the new IP address on the switch.
On the Getting Started Page you'll find the link to change the IP address.

Check the box Static

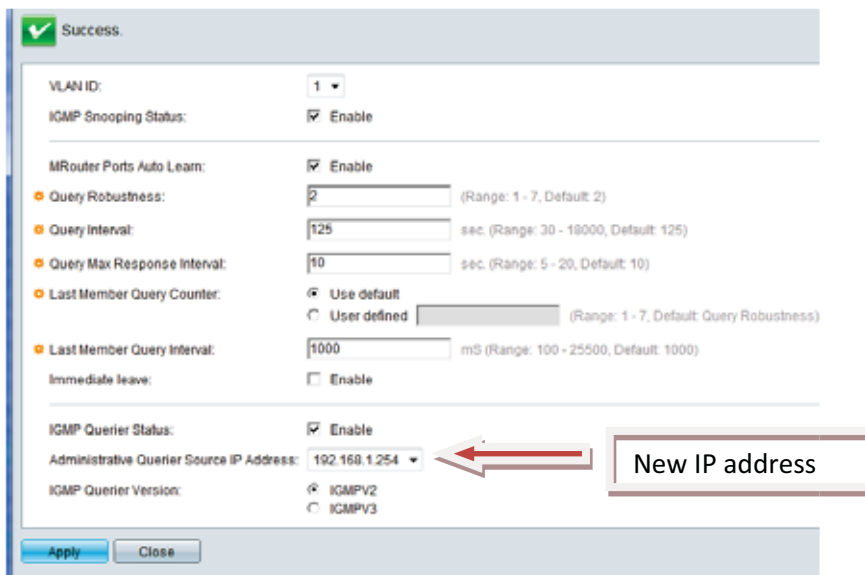
Type in a valid IP address and check the New IP address enable now.

Apply.

After you changed the IP address you need to log on again.

After you have logged in with the new IP address, go to Multicast – IGMP Snooping:

Check IGMP Querier and update to the new IP address:



Make sure the GB port(s) you want to use for uplink is/are part of the VLAN2 and tagged.

To check: VLAN Management | Port to VLAN, Select VLAN ID=2, Press GO, the Gig port for uplink should be set as Tagged.

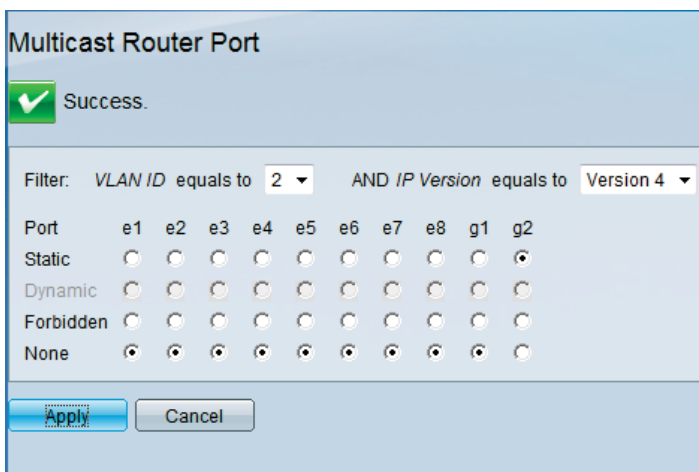
Go to Multicast | Multicast Router Port

Select VLAN2

Press GO

Select Static for Gig uplink port (e.g. G2, or any GB port that should work as uplink)

Press Apply



Save Settings

Press Save (next to Language, top screen)

Press Apply

The switch is now configured to be used with other switches (that also have an uplink port and a different IP address).

NOTE: never connect a myMix unit to an Uplink Port- as it's forwarding all traffic it can easily overload the 100MB connection and cause distorted audio.

Note: in the same menu where you save the current configuration to startup configuration you can also save a backup file of the setup on your computer via HTTP.