

IGMP Snooping Groups

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When using IGMP snooping, it can be very useful to see what is happening on the switch. In this example, we can look at a Cisco switch being used in an nCompass Controlled Aquila Live system. It does not matter that we are using nCC, this will look the same on just a Controller based solution also.

Please bear in mind that this system is 1+1 Encoding Live and 1+1 Multiplexers that are using:

- 1. Statistical Multiplexing
- 2. Services Synchronisation
- 3. Dual Output Prevention

This is important to know because we can see the multicasts for each of these processes.

IGMP Snooping Groups

Once you have logged in to your switch (in this example I am using a Cisco switch) you can issue this command from the top level (no need to go in to the configuration mode).

show ip igmp snooping groups



The VLAN column is which VLAN each of the interfaces is in.

VLAN 100 - Management (the management interfaces of each server are teamed)

VLAN 250 - Primary EL output and Mux input

VLAN 300 - Secondary EL output and Mux input

VLAN 400 - Mux output VLAN

We can pick out of the list certain Multicast Groups and their function:

Vlan	Group	Type	Version	Port List
100	239.211.1.1 Synchronisation (EL)	igmp	v2	Gi0/8, Gi0/13, Gi0/23 - Services
100	239.211.2.1 Prevention (EL)	igmp	v2	Gi0/8, Gi0/13, Gi0/23 - Dual Output
100	239.225.0.1	igmp	v2	Gi0/15, Gi0/16, Gi0/23 - StatMux Announcer (EL <-> Mux)
250	239.1.1.1 (Primary EL)	igmp	v2	Gi0/27, Gi0/28 - Service 01 Multicast
250	239.1.1.2 (Primary EL)	igmp	v2	Gi0/27, Gi0/28 - Service 02 Multicast
250	239.1.1.3 (Primary EL)	igmp	v2	Gi0/27, Gi0/28 - Service 03 Multicast
250	239.1.1.4 (Primary EL)	igmp	v2	Gi0/27, Gi0/28 - Service 04 Multicast
250	239.225.0.1 Announcer	igmp	v2	Gi0/25, Gi0/26, Gi0/27, Gi0/28 - StatMux

(EL <-> Mux)

300	239.2.1.1	igmp	v2	Gi0/33, Gi0/34 - Service 01 Multicast
(Secondary EL)				
300	239.2.1.2	igmp	v2	Gi0/33, Gi0/34 - Service 02 Multicast
(Secondary EL)				
300	239.2.1.3	igmp	v2	Gi0/33, Gi0/34 - Service 03 Multicast
(Secondary EL)				
300	239.2.1.4	igmp	v2	Gi0/33, Gi0/34 - Service 04 Multicast
(Secondary EL)				
300	239.225.0.1	igmp	v2	Gi0/31, Gi0/32, Gi0/33, Gi0/34 - StatMux
Announcer				

(EL <-> Mux)

400	239.0.0.200	igmp	v2	Gi0/37, Gi0/38 - Mux Multicast Output
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