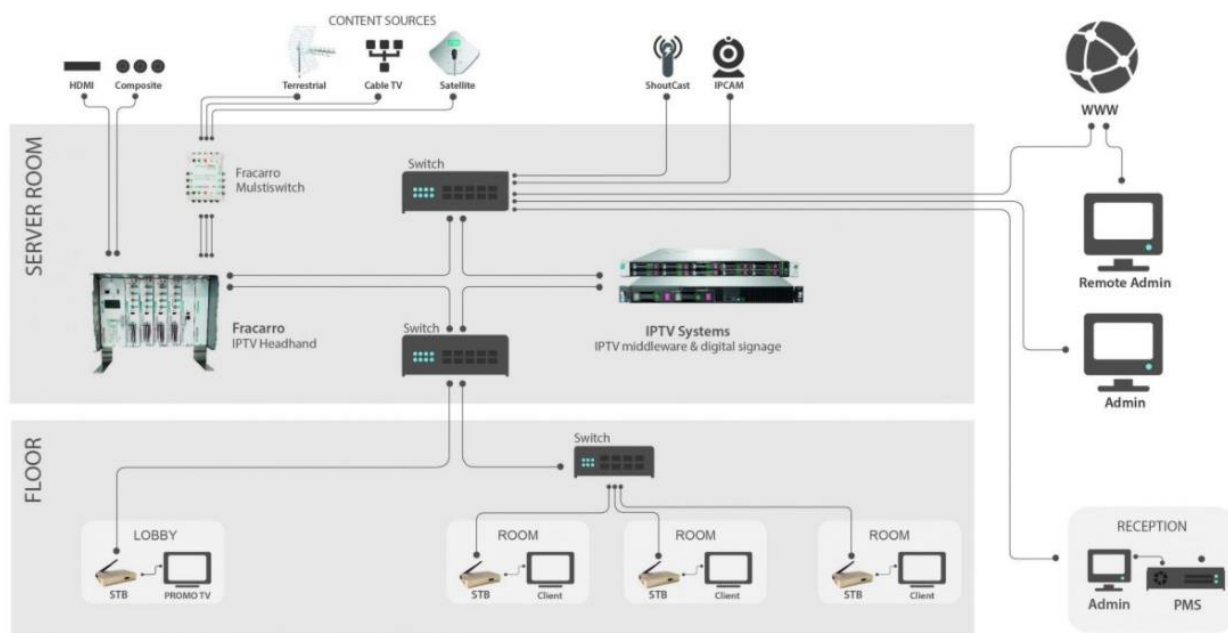


[IPTV Fracarro Solution & GIGAMEDIA Switch]

IGMP configuration in a network dedicated to IPTV



Example with IPTV Fracarro Solution and GS200 Switches

More information about IPTV Fracarro Solution :

<https://fracarro.com/fr/solutions-hospitality/solutions-iptv/>

What is IPTV :

Internet Protocol Television or IPTV, is the delivery of television content over Internet Protocol (IP)

What is IGMP :

Internet Group Management Protocol (IGMP) is a protocol that allows IP routers to dynamically determine which multicast groups have clients in a subnet.

IGMP is a protocol executed between the host machines of the same subnet and the multicast routers of this subnet. It allows a host machine to inform one of these multicast routers about its current subscriptions to multicast groups. Routers maintain the list of multicast groups to which host machines have reported that they are subscribed.

IGMP SNOOPING

IGMP Snooping controls these multicast groups by monitoring and analyzing multicast packets exchanged between upstream Layer 3 multicast devices and downstream hosts to suppress unnecessary multicast data transfer in multicast networks. layer 2

GS200 Switch configuration:

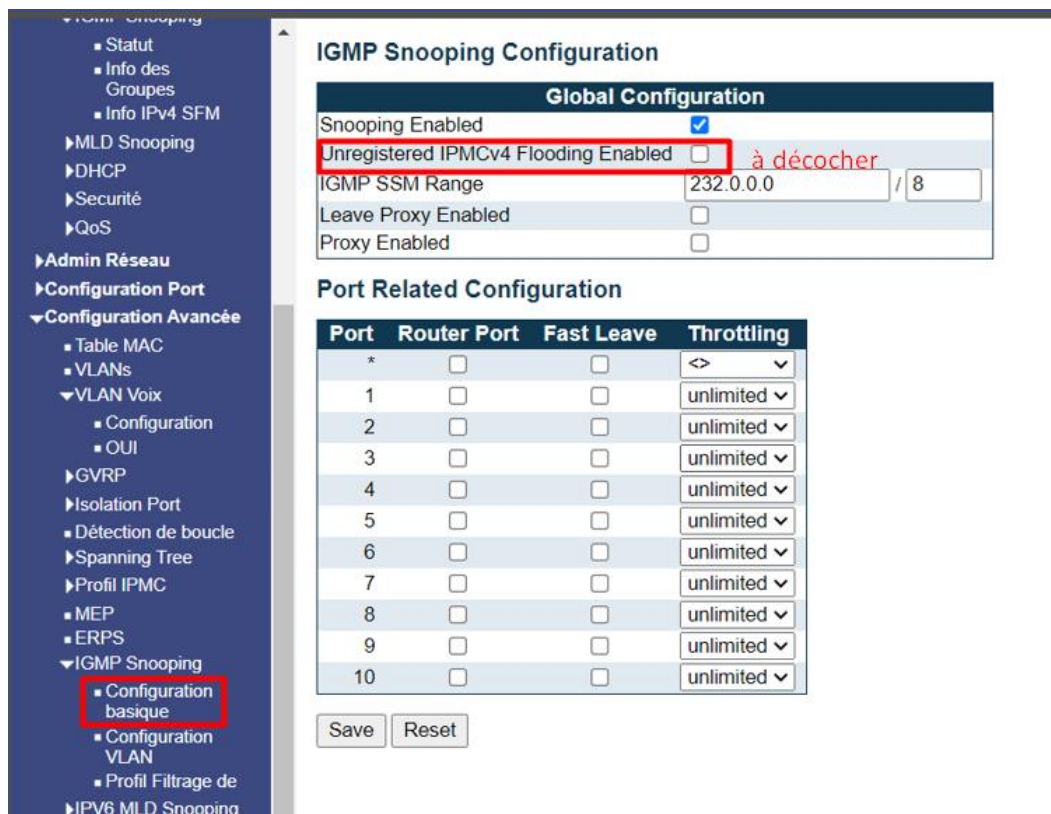
Depending on the size of the installation, you have to made the difference between Master Switch (where the IPTV server is connected) and switch for TV client.

And it's better to use a Vlan dedicated for IPTV (here VLAN 10)

Master Switch side :

➔ Enable IGMP Snooping

Advanced Configuration / IGMP Snooping



IGMP Snooping Configuration

Global Configuration

Snooping Enabled	☒
Unregistered IPMCv4 Flooding Enabled	☐ à décocher
IGMP SSM Range	232.0.0.0 / 8
Leave Proxy Enabled	☐
Proxy Enabled	☐

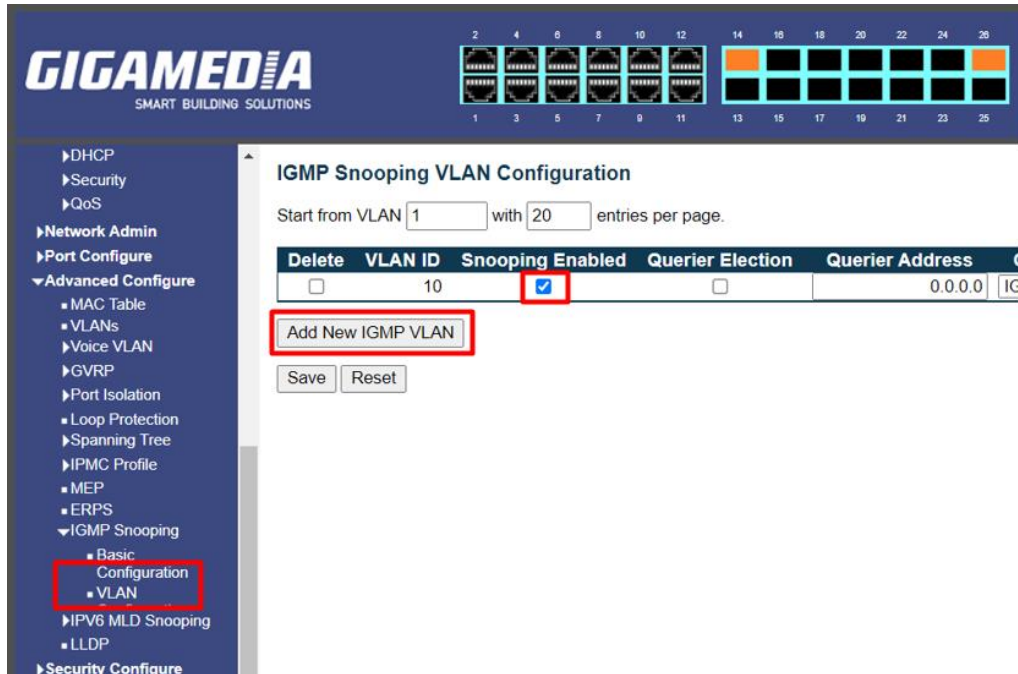
Port Related Configuration

Port	Router Port	Fast Leave	Throttling
*	☐	☐	<> ▼
1	☐	☐	unlimited ▼
2	☐	☐	unlimited ▼
3	☐	☐	unlimited ▼
4	☐	☐	unlimited ▼
5	☐	☐	unlimited ▼
6	☐	☐	unlimited ▼
7	☐	☐	unlimited ▼
8	☐	☐	unlimited ▼
9	☐	☐	unlimited ▼
10	☐	☐	unlimited ▼

Save Reset

VLAN Configuration:

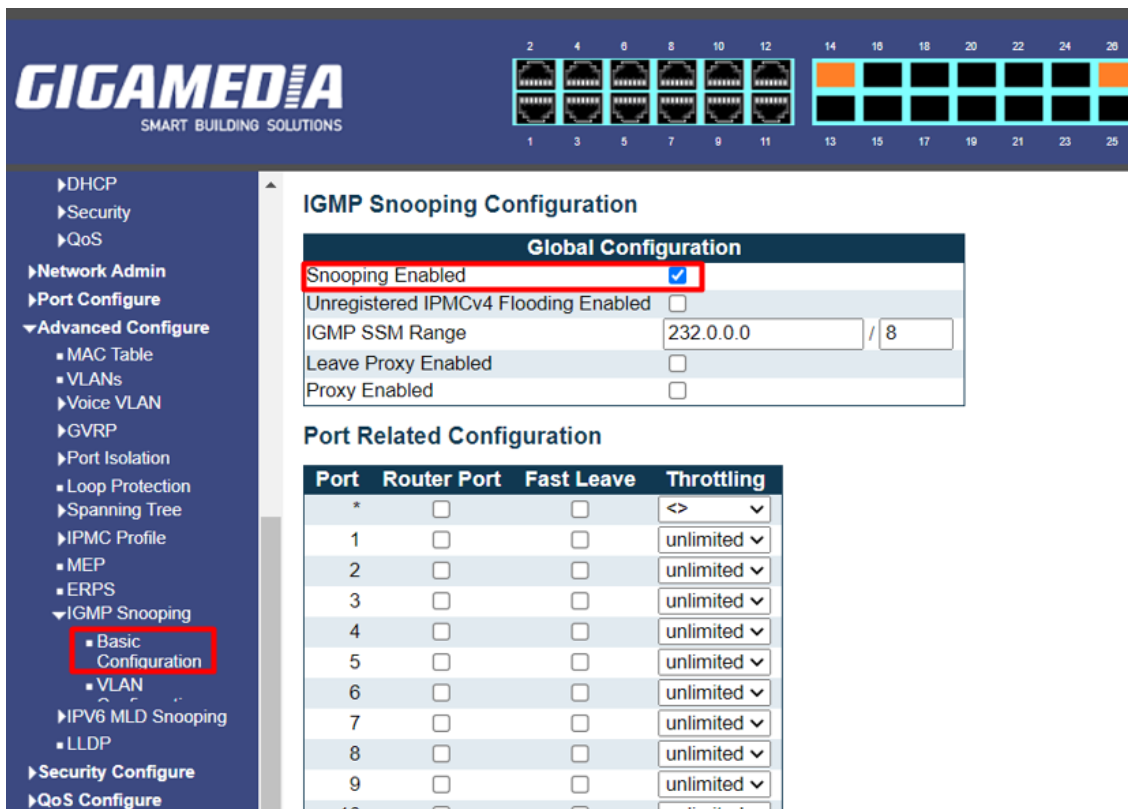
Add new IGMP VLAN (example here VLAN 10) and enable Snooping



The screenshot shows the 'IGMP Snooping VLAN Configuration' page. The left sidebar has a tree view where 'IGMP Snooping' is expanded, and 'Basic Configuration' and 'VLAN' are highlighted. The main content area shows a table with columns: Delete, VLAN ID, Snooping Enabled, Querier Election, and Querier Address. A row for VLAN 10 is shown with 'Snooping Enabled' checked. Below the table is a red-bordered box containing the text 'Add New IGMP VLAN'. There are 'Save' and 'Reset' buttons at the bottom.

Slave switch side :

Advanced configure / IGMP Snooping



The screenshot shows the 'IGMP Snooping Configuration' page. The left sidebar has a tree view where 'IGMP Snooping' is expanded, and 'Basic Configuration' and 'VLAN' are highlighted. The main content area is divided into two sections: 'Global Configuration' and 'Port Related Configuration'. In the 'Global Configuration' section, 'Snooping Enabled' is checked. In the 'Port Related Configuration' section, there is a table with columns: Port, Router Port, Fast Leave, and Throttling. The table lists ports 1 through 10, with 'Fast Leave' and 'Throttling' set to 'unlimited' for all ports.

Enable IGMP Querier :



IGMP Snooping VLAN Configuration

Start from VLAN with entries per page.

Delete	VLAN ID	Snooping Enabled	Querier Election	Querier Address	Compatibility
☐	10	☒	☒	0.0.0.0	IGMP-Auto

Add New IGMP VLAN

More information about IPTV Fracarro Solution :



<https://fracarro.com/fr/solutions-hospitality/solutions-iptv/>