How to configure IGMP for L2 Multicast in Reyee Switch ?
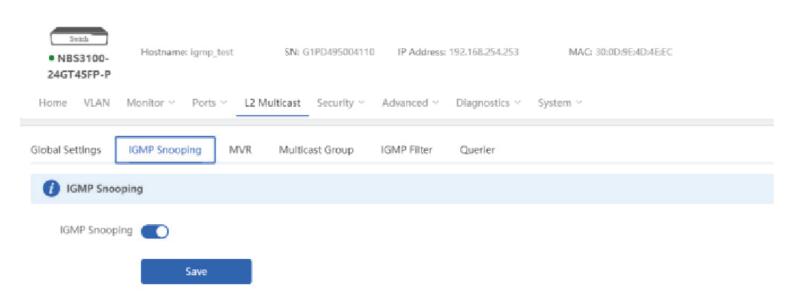
1. Topology Example
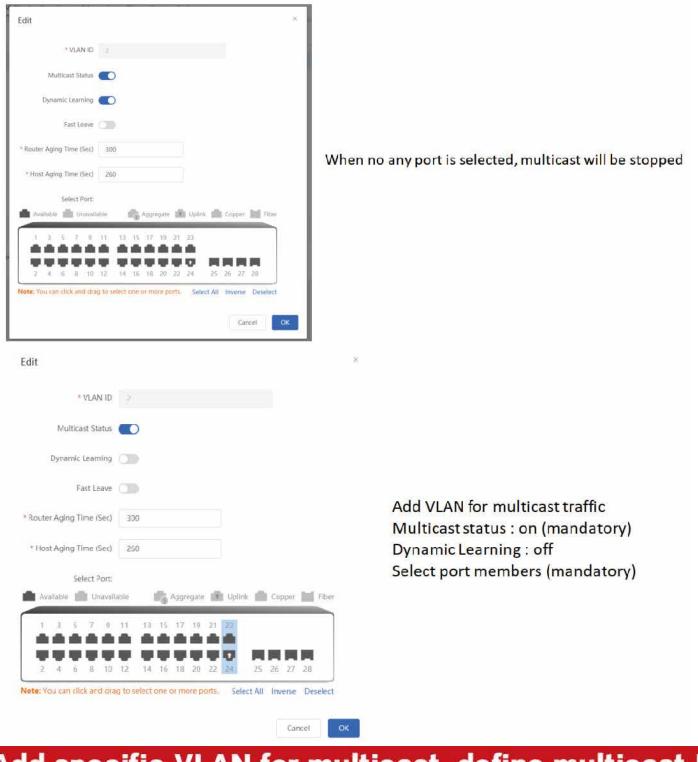

NBS3100-24GT4SFP-P — Gi0/24 — 192.168.254.1 — eth3 — Mikrotik Multicast Router — eth4 — 10.10.20.1/24

Gi0/23

PC Client

RTP://224.0.2.1

PC Server

10.10.20.254/24

RTP://224.0.2.1

2. Enable IGMP in L2 Multicast > Global Setting

NBS3100-24GT4SFP-P — Hostname: igmp_test — SN: G1PD495004110 — IP Address: 192.168.254.253 — MAC: 30:0D:9E:4D:4E:EC

Home   VLAN   Monitor ˅   Ports ˅   **L2 Multicast**   Security ˅   Advanced ˅   Diagnostics ˅   System ˅

Global Settings   IGMP Snooping   MVR   Multicast Group   IGMP Filter   Querier

Global Settings

Version: IGMPv2

IGMP Report Suppression: [on]

Unknown Multicast Pkt: Discard

Save

Enable IGMP Report Surpression
Unknown Multicast pkt : Discard (recommended)

3. Enable IGMP Snooping

NBS3100-24GT4SFP-P — Hostname: igmp_test — SN: G1PD495004110 — IP Address: 192.168.254.253 — MAC: 30:0D:9E:4D:4E:EC

Home   VLAN   Monitor ˅   Ports ˅   **L2 Multicast**   Security ˅   Advanced ˅   Diagnostics ˅   System ˅

Global Settings   **IGMP Snooping**   MVR   Multicast Group   IGMP Filter   Querier

IGMP Snooping

IGMP Snooping: [on]

Save

Edit

* VLAN ID   2

Multicast Status ⬤

Dynamic Learning ⬤

Fast Leave ⬤

* Router Aging Time (Sec)   300

* Host Aging Time (Sec)   260

Select Port:

🔲 Available   🔲 Unavailable   🔲 Aggregate   🔲 Uplink   🔲 Copper   🔲 Fiber

```
 1  3  5  7  9  11   13 15 17 19 21 23
 ▢  ▢  ▢  ▢  ▢  ▢    ▢  ▢  ▢  ▢  ▢  ▢
 ▢  ▢  ▢  ▢  ▢  ▢    ▢  ▢  ▢  ▢  ▢  ▢     ▢  ▢  ▢  ▢
 2  4  6  8  10 12   14 16 18 20 22 24    25 26 27 28
```

Note: You can click and drag to select one or more ports.   Select All   Inverse   Deselect

Cancel   **OK**

When no any port is selected, multicast will be stopped

Edit

* VLAN ID   2

Multicast Status ⬤

Dynamic Learning ⬤

Fast Leave ⬤

* Router Aging Time (Sec)   300

* Host Aging Time (Sec)   260

Select Port:

🔲 Available   🔲 Unavailable   🔲 Aggregate   🔲 Uplink   🔲 Copper   🔲 Fiber

```
 1  3  5  7  9  11   13 15 17 19 21 [22]
 ▢  ▢  ▢  ▢  ▢  ▢    ▢  ▢  ▢  ▢  ▢  ▢
 ▢  ▢  ▢  ▢  ▢  ▢    ▢  ▢  ▢  ▢  ▢  [24]   ▢  ▢  ▢  ▢
 2  4  6  8  10 12   14 16 18 20 22 24    25 26 27 28
```

Note: You can click and drag to select one or more ports.   Select All   Inverse   Deselect

Cancel   **OK**

Add VLAN for multicast traffic
Multicast status : on (mandatory)
Dynamic Learning : off
Select port members (mandatory)

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4. Add specific VLAN for multicast, define multicast IP and choose Ports

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Switch
● NBS3100   Hostname: igmp_test   SN: G1PD495004110   IP Address: 192.168.254.253   MAC: 30:0D:9E:4D:4E:EC   ⟳ Reboot
24GT45FP-P

Home   VLAN   Monitor ⌄   Ports ⌄   **L2 Multicast**   Security ⌄   Advanced ⌄   Diagnostics ⌄   System ⌄

Global Settings   IGMP Snooping   MVR   **Multicast Group**   IGMP Filter   Querier

ⓘ **Multicast Group**
The static group will not learn other dynamic ports.

Multicast List   VLAN ID ⌄   Q   + Add   🗑 Delete Selected

Up to **256** entries can be added.

☐	VLAN ID	Multicast IP Address	Protocol	Type	Forwarding Port	Action
☐	2	224.0.2.1	IGMP Snooping	Static	Gi23-24	Edit Delete

Total 1   10/page ⌄   ‹   **1**   ›   Go to page 1

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5. L2 Multicast > IGMP Filter
Define Profile ID, multicast IP range that will be allowed and choose behaviour permit to allow it. apply filter on switch port that connected to end user devices.
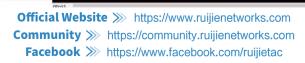
Swach

● NBS3100-
24GT4SFP-P

Hostname: igmp_test   SN: G1PD495004110   IP Address: 192.168.254.253   MAC: 30:0D:9E:4D:4E:EC   ⟳ Reboot

Home   VLAN   Monitor ⌄   Ports ⌄   L2 Multicast   Security ⌄   Advanced ⌄   Diagnostics ⌄   System ⌄

Global Settings   IGMP Snooping   MVR   Multicast Group   IGMP Filter   Querier

ⓘ IGMP Filter

Profile List   + Add   🗑 Delete Selected

	Profile ID	Behavior	Start IP Address	End IP Address	Action
☐	1	PERMIT	224.0.2.1	224.0.2.1	Edit Delete

Total 1   10/page ⌄   ‹   **1**   ›   Go to page 1

Filter List   ⟲ Batch Edit

Port	Profile ID	Max Multicast Groups	Action
Gi21	--	256	Edit
Gi22	--	256	Edit
Gi23	1	256	Edit
Gi24 ⬩	--	256	Edit

6. Server Side testing result

7. Client Side testing result

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