

Switch Configuration Example for **Dante** Niveo NGSM/NGSME Series

5	Ite	ms Covered:				
	•	QOS	٠	VLAN	•	Link Aggregation
	•	Multicast	•	DHCP Server		

1. Assign Static IP Address to your Nework Card

ieral		
ou can get IP settings assigned a is capability. Otherwise, you ne r the appropriate IP settings.	automatically if your network suppor ed to ask your network administrato	ts r
Obtain an IP address autom	atically	
Use the following IP address		
IP address:	192.168.2.3	Assign s
Subnet mask:	255 . 255 . 255 . 0	The IP a
Default gateway:	21 121 14	as the sy
Obtain DNS server address a	automatically	
Use the following DNS serve	r addresses:	
Preferred DNS server:	· · · · ·	
Alternate DNS server:	6 (R) (R	
Validate settings upon exit	Advanced.	

Assign static IP address to your network card. The IP address of your computer must belong to the same subnet is the switch, i.e 192.168.2.x with a mask of 255.255.255.0

2. Connect to the Switch Via Its default IP



Log in with
 Username: admin
 Password: admin

4. Switch Information

To be able to differentiate between your switches, edit the system information

Configuration System	System Informat	tion Configuration
IP	System Contact	AV Department
NTP Time	System Name	DantePrimary
 Log 	System Location	CustomerSite
 Green Ethernet Ports DHCPv4 	Save Reset	

Second switch could be **DanteSecondary** Third switch could be **DanteControl**

5. Switch IP Configuration

Click on Configuration>System>IP

 Configuration System Information 	IP Configura	ation
= IP	Mode	Router V
- NIP	DNS Server	No DNS server 🗸
• Log	DNS Proxy	
Michael Otacking		

Set the Switch mode to **Router** If the Switch is not connected to the outside world, then set DNS Server to **No DNS Server**

5. Switch IP Configuration (Continued)

By default each switch is set to the same IP of 192.168.2.1/24 on VLAN 1. To avoid a network conflict, each switch should be set to a unique IP. It's also good practice to leave VLAN 1 as a backup management VLAN and dedicate 1 switch port for it. Another good practice is to match the 3rd Octet to the VLAN ID

Example for a 3 switches Dante System;

Switch	IP Address	System Name	VLAN ID	Port
1	192.168.1.252	DantePrimary	1	22
2	192.168.1.253	DanteSecondary	1	22
3	192.168.1.254	DanteControl	1	22

6. Switch Connection



7. Aggregation

Go to Configuration>Aggregation>Groups for each switch

On Group ID 1, check Port 23 & 24

Luiemei													Por	τM	lem	ber	s											G	roup	Configuration	on
Dv4	Group ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	Mode		Revertive	Max Bundle
Pv6	Normal	\odot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0.000000000			
rity	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	LACP (Active)	~	Z	16
100	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Disabled	~		16
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Disabled	~		16
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Disabled	~		16
tion	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Disabled	~		16
æ	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ô	0	0	0	Disabled	~		16
	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Disabled	~		16
	8	0	Õ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Disabled	~		16
	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Disabled	~		16
	10	0	Õ	Õ	0	0	0	0	0	0	0	0	0	0	0	Õ	0	0	0	0	0	0	Õ	Õ	0	0	0	Disabled	~		16
	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Disabled	~		16
ation	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Disabled	~	1	16
10	12	~	~	~	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\tilde{\mathbf{O}}$	0	0	Disabled	~	10	16

Ľ				02.00
	22	No	Fast 🗸	32768
	23	Yes	Fast 🗸	32768
	24	Yes	Fast 🗸	32768
	25	No	Fast 🗸	32768
	26	No	Fast 🗸	32768

To verify that Link Aggregation has been turned on for port 23 & 24 Go to **Configuration>Aggregation>LACP**



8. VLAN Configuration

On each switch, go to Configuration>VLANs

Under Allowed Access VLANs, simply type in the VLAN you would like to add after the comma

Under * **Port VLAN**, enter 10 and click on any other part of the screen. Each port should be set to 10

Under port 22, change the VLAN ID to 1

Change Port 23 & 24 mode to Trunk and set Egress Tagging to Tag All

Global VLAN Configuration

Allowed Access VLANs	1,10 🛶 🛶	
Ethertype for Custom S-ports	88A8	

Port VLAN Configuration

Port	Mode	Port VLAN	Port Ty	pe F	Ingress Filtering	Ingress Acceptance	Egress Tagging	Allowed VLANs	Forbidden VLANs
*	◇ ∨	10	\diamond	*	Z	◇ v	 v 	2	
1	Access ✓	10	C-Port	\sim	1	Tagged and Untagged 🗸	Untag All 🗸 🗸	2	
2	Access 🗸	10	C-Port	~		Tagged and Untagged 🗸	Untag All 🛛 🗸	2	
3	Access ✓	10	C-Port	\sim		Tagged and Untagged \checkmark	Untag All 🗸 🗸	2	
4	Access 🗸	10	C-Port	~	V	Tagged and Untagged \checkmark	Untag All 🗸 🗸	2	
5	Access ✓	10	C-Port	~		Tagged and Untagged \checkmark	Untag All 🗸 🗸	2	
6	Access 🗸	10	C-Port	~		Tagged and Untagged 🗸	Untag All 🗸 🗸	2	
7	Access ✓	10	C-Port	\sim		Tagged and Untagged 🗸	Untag All 🔹 🗸	2	
8	Access ~	10	C-Port	\sim		Tagged and Untagged 🗸	Untag All 🗸 🗸	2	
9	Access 🗸	10	C-Port	~		Tagged and Untagged \checkmark	Untag All 🗸 🗸	2	
10	Access 🗸	10	C-Port	~		Tagged and Untagged 🗸	Untag All 🛛 🗸	2	
11	Access ✓	10	C-Port	\sim		Tagged and Untagged \checkmark	Untag All 🗸 🗸	2	
12	Access 🗸	10	C-Port	~	V	Tagged and Untagged \checkmark	Untag All 🗸 🗸	2	
13	Access ✓	10	C-Port	~		Tagged and Untagged 🗸	Untag All 🗸 🗸	2	
14	Access ~	10	C-Port	~		Tagged and Untagged 🗸	Untag All 🗸 🗸	2	
15	Access ✓	10	C-Port	\sim	V	Tagged and Untagged \checkmark	Untag All 🛛 🗸	2	
16	Access ▼	10	C-Port	\sim		Tagged and Untagged 🗸	Untag All 🗸 🗸	2	
17	Access ✓	10	C-Port	~	1	Tagged and Untagged \checkmark	Untag All 🗸 🗸	2	
18	Access ~	10	C-Port	~	1	Tagged and Untagged 🗸	Untag All 🛛 🗸	2	
19	Access ✓	10	C-Port	\sim		Tagged and Untagged \checkmark	Untag All 🗸 🗸	2	
20	Access 🗸	10	C-Port	~	1	Tagged and Untagged 🗸	Untag All 🗸 🗸	2	
21	Access ✓	10	C-Port	~		Tagged and Untagged \checkmark	Untag All 🗸 🗸	2	
22	Access 🗸	1	C-Port	~		Tagged and Untagged 🗸	Untag All 🔷 🗸	1	
23	Trunk 🗸	1	C-Port	~	~	Tagged Only 🗸 🗸	Tag All 🗸 🗸	1-4095	
24	Trunk 🗸	1	C-Port	~	12	Tagged Only 🗸	Tag All 🗸 🗸	1-4095	
25	Access 🗸	1	C-Port	~	1	Tagged and Untagged 🗸	Untag All 🛛 🗸	1	
26	Access ♥	1	C-Port	~	1	Tagged and Untagged 🗸	Untag All 🔹 👻	1	

Save Reset

9. Add Interfaces for new VLANs

Taking the primary switch as an example (DantePrimary) which serves VLAN 10, let's add an IP Interface to it.

Go to Configuration>IP

-Under IP Interfaces, click on Add Interface

-Change VLAN ID to 10

-Under IPv4, enter 192.168.10.1. Enter 24 for Mask length

- Click Save

Follow the same steps and add VLAN 20 on the DanteSecondary switch & VLAN 30 on the DanteControl switch. Port 23 & 24 on each switch need to be in Trunk mode while ports 22 need to be on VLAN 1.

9. Add Interfaces for new VLANs Continued

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After you are done adding the interfaces, your screen should look like this

IP Interfaces

R O

Delete	VLAN	0	IPv4 DH	ICP	IP	v4	IPv	6
Delete	VLAN	Enable	Fallback	Current Lease	Address	Mask Length	Address	Mask Length
	1		0		192.168.1.253	24		
	10		0		192.168.10.1	24		
	20		0		192.168.20.1	24		
	30		0		192.168.30.1	24		

Add Interface

For the DanteSecondary switch, set VLAN 1 IPv4 to 192.168.1.253 For the DanteControl switch, set VLAN 1 IPv4 to 192.168.1.254 All 3 switches should have the same interfaces for VLAN 10, 20 & 30

10. Go to Configuration>Ports. In the row **Port*** of the **Port Configuration** table, select **Flow Control>Configured** and enter **1518** at **Maximum Frame Size**

This should automatically select Configured and enter 1518 at the Maximum Frame Size on all the ports. Click Save

Configuration	Port C	onfig	uration						
▼ System	I OIL C	Joining	uration						
 Information IP 				Speed		Flow Contro		Maximum	Excessive
NTP	Port	LINK	Current	Configured	Current Rx	Current Tx	Configured	Frame Size	Collision Mode
Time	*			<> v			Image: A start of the start	1508	<> v
Log Virtual Stacking	1		Down	Auto	×	×		1508	Discard x
Green Ethernet			Down	Auto	~	~		1000	Discard +
 Port Power Savings 	2		Down	Auto ~	x	x		1508	Discard ~
Ports	3		Down	Auto 🗸	×	×	✓	1508	Discard ~
DHCP	4		Down	Auto 🗸	X	X		1508	Discard V
Security	5	-	1Gfdy	Auto	~	~		1508	Discard y
Aggregation	5		IGIUX	Auto	~	~		1500	Discaru V
Loop Protection	6		Down	Auto 🗸	×	x		1508	Discard ~
Spanning Tree	7		Down	Auto 🗸	×	×	Image: A start and a start	1508	Discard ~
	8		Down	Auto 🗸	X	X		1508	Discard ~
IPMC	9		Down	Auto	×	×		1508	Discard x
LLDP	10		Down	Auto	2	2		1000	Discard +
▶ PoE	10		Down	Auto ~	x	x		1508	Discard ~
 MAC Table 	11		Down	Auto 🗸	×	×	✓	1508	Discard ~
VLANs	12		Down	Auto 🗸	x	x		1508	Discard V
Private VLANs	13		Down	Auto	×	×		1508	Discard x
▶ VCL	10		Down	Auto	~	~		1000	Discard +
Voice VLAN	14	•	Down	Auto ~	x	x		1508	Discard ~
▶ QoS	15		Down	Auto 🗸	×	×	✓	1508	Discard ~
Mirroring	16		Down	Auto 🗸	X	X		1508	Discard V
	17		Down	Auto	~			1509	
GVRP	17		Down	Auto	~	×	<u> </u>	1506	
- Monitor	18		Down	Auto 🗸	x	×		1508	
- System									
 Information 	Save	Rese	et						

11. Go to Configuration>Spanning Tree>CIST Ports

In the CIST Aggregated Port Configuration table, clear the STP Enabled check box.

and the second second	and the second	100 C		
STP	CIST	Port	Configuration	

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CIST A	ggregated Po	rt Configuration							
Port	STP	Path Cost	Priority	Admin Edge	Auto Edge	Restricted		BPDU Guard	Point-to-
	Enabled		,			Role	TCN		point
		Auto 🗸	128 🗸	Non-Edge ✔	Image: A start and a start				Forced True 🗸

In the **CIST Normal Port Configuration** table, clear the STP Enabled check box at the **Port***. The check box should automatically clear on all the ports in the table.

Click Save.

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Port	STP Enabled	Path Cost	Priority	Admin Edge	Auto Edge	Restr Role	icted TCN	BPDU Guard	Point poir	-to- nt
*		<> ▼	< ▼	<> ▼	~				\diamond	~
1		Auto 🗸	128 🗸	Non-Edge 🗸	~				Auto	~
2		Auto 🗸	128 🗸	Non-Edge 🗸	Z				Auto	~
3		Auto 🗸	128 🗸	Non-Edge 🗸	Z				Auto	~
4		Auto 🗸	128 🗸	Non-Edge 🗸	~				Auto	~
5		Auto 🗸	128 🗸	Non-Edge 🗸	Z				Auto	~
6		Auto 🗸	128 🗸	Non-Edge 🗸	~				Auto	~
7		Auto 🗸	128 🗸	Non-Edge 🗸	~				Auto	~
8		Auto 🗸	128 🗸	Non-Edge 🗸	~				Auto	~
9		Auto 🗸	128 🗸	Non-Edge 🗸	Z				Auto	~
10		Auto 🗸	128 🗸	Non-Edge 🗸	~				Auto	~
11		Auto 🗸	128 🗸	Non-Edge 🗸	Z				Auto	~
12		Auto 🗸	128 🗸	Non-Edge 🗸	~				Auto	~
13		Auto 🗸	128 🗸	Non-Edge 🗸	Z				Auto	~
14		Auto 🗸	128 🗸	Non-Edge 🗸	~				Auto	~
15		Auto 🗸	128 🗸	Non-Edge 🗸	~				Auto	~
16		Auto 🗸	128 🗸	Non-Edge 🗸	~				Auto	~
17		Auto 🗸	128 🗸	Non-Edge 🗸	~				Auto	~
18		Auto 🗸	128 🗸	Non-Edge 🗸	~				Auto	~

12. Go to Configuration>QOS>Port Classification. At the Port* row in the QOS Ingress Port Classification table, select DSCP Based.

This should automatically select DSCP based on all the ports in the table.

QoS Ingress Port Classification

Port	CoS	DPL	PCP	DEI	Tag Class.	DSCP Based	Address Mode
*	< ◄	<> ♥	< ◄	< ◄		Z	✓ ✓
1	0 ~	0 ~	0 🗸	0 ~	Disabled	Z	Source 🗸
2	0 🗸	0 🗸	0 🗸	0 🗸	Disabled	Z	Source 🗸
3	0 ~	0 ~	0 🗸	0 🗸	Disabled	Z	Source 🗸
4	0 ~	0 ~	0 🗸	0 🗸	Disabled	Z	Source 🗸
5	0 ~	0 ~	0 🗸	0 ~	Disabled	~	Source 🗸
6	0 ~	0 ~	0 ~	0 🗸	Disabled	Z	Source 🗸
7	0 ~	0 🗸	0 🗸	0 ~	Disabled	~	Source 🗸
8	0 ~	0 🗸	0 ~	0 ~	Disabled	Z	Source 🗸
9	0 ~	0 ~	0 🗸	0 ~	Disabled	2	Source 🗸
10	0 🗸	0 🗸	0 🗸	0 🗸	Disabled	Z	Source 🗸
11	0 ~	0 ~	0 🗸	0 ~	Disabled	~	Source 🗸
12	0 ~	0 ~	0 🗸	0 🗸	Disabled	Z	Source 🗸
13	0 ~	0 ~	0 🗸	0 ~	Disabled	~	Source 🗸
14	0 ~	0 ~	0 ~	0 🗸	Disabled	2	Source 🗸
15	0 ~	0 🗸	0 🗸	0 ~	Disabled	~	Source 🗸
16	0 ~	0 🗸	0 ~	0 🗸	Disabled	Z	Source 🗸
17	0 ~	0 ~	0 🗸	0 ~	Disabled	Z	Source 🗸
18	0 🗸	0 🗸	0 🗸	0 🗸	Disabled	Z	Source 🗸

Save Reset

13. Go to Configuration>QOS>DSCP Based QOS

At the Port* row of the DSCP-Based QoS Ingress Classification table, select Trust

At DSCO 8 (CS1), select QoS Class 5

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At DSCO 26 (AF31), select QoS Class 5

At DSCO 46 (EF), select QoS Class 6

At DSCO 56 (CS7), select QoS Class 7

All other QoS class values should be 0.

Click Save.

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DSCP-Based QoS Ingress Classification

DSCP	Trust	QoS Class	DPL
*		<> V	<> ~
(BE)		0 ~	0 🗸
		0 🗸	0 🗸
2	<	0 🗸	0 🗸
3		0 🗸	0 ~
4	~	0 🗸	0 🗸
5		0 🗸	0 🗸
6	<	0 🗸	0 🗸
7		0 🗸	0 🗸
8 (CS1)		5 🗸	0 🗸
9		0 ~	0 ~
10 (AF11)		0 🗸	0 🗸
11		0 🗸	0 🗸
12 (AF12)	~	0 🗸	0 🗸
13		0 ~	0 ~
14 (AF13)		0 ~	0 ~
15		0 ~	0 ~
16 (CS2)		0 ~	0 ~
17		0 ~	0 ~
18 (AF21)		0 ~	0 ~
19		0 ~	0 ~
20 (AF22)			
21			
22 (AF23)			
22 (7 (1 20)			
20			
24 (000)			
20			0 ~
20 (AF31)			
21			
28 (AF32)			0 🗸
29		0 ~	0 🗸
30 (AF33)		0 ~	0 ~
31		0 ~	0 ~
32 (CS4)		0 ~	0 ~
33	Image: A start and a start	0 🗸	0 🗸

12. DHCP Server Configuration

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S S I O N A L

Each switch can be turned into a DHCP server. Switch 1 can serve VLAN10 and provide IP addresses 192.168.10.X Switch 2 can serve VLAN20 and provide IP addresses 192.168.20.X. Switch 3 can serve VLAN30 and provide IP addresses 192.168.30.X

Go to Configuration>DHCP>Mode

Turn Mode to Enabled

Click on Add VLAN Range and enter 10. Enter 20 for switch 2 and 30 for switch 3.

 Configuration System Green Ethernet Ports DHCP Server Mode Excluded IP Pool 	DHC Glob Moo	CP Server M bal Mode de Enabled N Mode	lode Configurat	ion
 Snooping Relay Security Aggregation 		Delete 1	VLAN Range	Mode Enabled
Loop Protection Spanning Tree IPMC Profile MVR IPMC IPMC	Add	d VLAN Range	3	

Go to Excluded IP

Since this is for switch 1 VLAN10, we can exclude IP 192.168.10.1 to 192.168.10.49.

Click on Add IP Range to enter the above range.

Everything else will be reserved for the DHCP pool

Click Save

DHCP Server Excluded IP Configuration

Excluded IP Address

Delete	IP Range	
	192.168.20.1 - 192.168.20.49	

Add IP Range

Reset

Click on DHCP>Pool

Click on Add New Pool

Enter VLAN10 for the name

Over over VLAN10 and click to edit

DHCP Server Pool Configuration

Pool Setting

Delete	Name	Туре	IP	Subnet Mask	Lease Time	
	VLAN10	Network	192.168.10.50	255.255.255.0	1 days 0 hours 0 minutes	

Add New Pool

Save Reset

Change **Type** to Network

Change IP to 192.168.1.50. This is where your DHCP pool starts

Enter 255.255.255.0 for the Subnet Mask

Enter 192.168.10.1 for the Default Router

You don't need to enter a DNS server if the switch is isolated

DHCP Pool Configuration

Pool

Name VLAN10 V

Setting

Pool Name	VLAN10	
Туре	Network	~
IP	192.168.10	.50 🔶
Subnet Mask	255.255.25	5.0 🔶
	1	days (0-365)
Lease Time	0	hours (0-23)
	0	minutes (0-59)
Domain Name		
Broadcast Address		
	192.168.10	.1+
Defeuilt Deuter		
Default Router		
	8.8.4.4	
DNS Server		
DING GEIVEI		
NTP Server		
NetBIOS Node Type	None	~
NetBIOS Scope		
NetBIOS Name Server		
NIS Domain Name		

13. IGMP Settings

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Go to Configuration>IPMC>IGMP Snooping>Basic Configuration

In the IGMP Snooping Configuration table, select Snooping Enabled. Also select Unregistered IP-

MCv4 Flooding Enabled, Leave Proxy Enabled, and Proxy Enabled

In the Port * row of the Port Related Configuration table, select Router Port. This should automati-

cally select **Router Port** on all ports in the table.

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Click Save.

System	<u> </u>	GMP	Snooping Co	nfiguration		
Green Ethernet				Clabel Care		
Ports	-			Global Confi	guration	
▶ DHCP		Snoopir	ng Enabled		~	
Security		Jnregis	tered IPMCv4 FI	looding Enabled		
Aggregation		GMP S	SM Range		232.0.0.0	/ 8
 Loop Protection 	1	_eave F	Proxy Enabled			1
Spanning Tree	1	Proxy E	nabled			
PMC Profile					_	
		Port R	elated Config	guration		
▼ IGMP Snooping	L I	Port	Pouter Port	EastLeave	Throttling	
Basic Configuration		*	Router Fort	Tast Leave	moung	
 VLAN Configuration 					< v	
 Port Flitering Profile MLD Spooping 		1			unlimited ~	
LI DP		2	Z		unlimited V	
▶ PoE		3	Image: A start and a start		unlimited V	
 MAC Table 		4		Ē	unlimited ~	T1
 VLANs 		5		0		
Private VLANs		0		0	unlimited +	
▶ VCL		0			uniimited 🗸	
Voice VLAN		7	✓		unlimited ~	
▶ QoS		8	Z		unlimited V	
Mirroring		9			unlimited V	
		10			unlimited V	Ξĺ.
• GVRP		11			unlimited M	
Monitor		11				
 System 		12				
 Information 		13	✓		unlimited ~	
CPU Load		14	2		unlimited \checkmark	
IP Status		15			unlimited V	
Detailed Log		16			unlimited V	T1
Green Ethernet		17		0		
Ports		40	<u> </u>			-
▶ DHCP		IQ				
Security	L C	Cause	Deast			
▶ LACP		Save	Reset			

Go to Configuration>IPMC>IGMP Snooping>VLAN Configuration

Click Add New IGMP VLAN. A new row for VLAN 1 will appear in the IGMP Snooping

VLAN Configuration table. For VLAN1 select Snooping Enabled and IGMP Querier.

IGMP Si	IMP Snooping VLAN Configuration										
Start from	VLAN 1	with 20 entrie	es per page.								
Delete	VLAN ID	Snooping Enabled	Querier Election	Querier Address	Compatibility	PRI	RV	QI (sec)	QRI (0.1 sec)	LLQI (0.1 sec)	URI (sec)
	10	Image: A start and a start		0.0.0.0	Forced IGMPv2 V	0 🗸	2	125	100	10	1
Add New	IGMP VLAN			14 P							
Save	Reset										
IGMP	Snoopi	ng VLAN 20 for	switch 2 will	look like this							

Start from VLAN 1 with 20 entries per page.

Delete	VLAN ID	Snooping Enabled	Querier Election	Querier Address	Compatibility	PRI	RV	QI (sec)	QRI (0.1 sec)	LLQI (0.1 sec)	URI (sec)
Delete	20			0.0.0.0	Forced IGMPv2 V	0 🗸	2	125	100	10	1

Add	New	IGMP	VLAN

IGMP Snooping for switch 3 VLAN 30 will look like this;

IGMP Snooping VLAN Configuration													
Start from VLAN 1 with 20 entries per page.													
Delete	VLAN ID	Snooping Enabled	Querier Election	Querier Address	Compatibility	PRI	RV	QI (sec)	QRI (0.1 sec)	LLQI (0.1 sec)	URI (sec)		
Delete	30			0.0.0.0	Forced IGMPv2 V	0 ~ 0	2	125	100	10	1		
Add New IGMP VLAN													
Save Reset													

You only need to check Querier Election for 1 switch. In this case we have switch 1 as the main Querier

14. The Switch configuration is ready to be saved. Go to **Maintenance>Configuration>Save** Click on **Save Startup Config>Save Configuration**. The switch is now ready for use in the network.

Do the same for the 2nd and 3rd switch.