

SINGLE SWITCH CONFIGURATION TO WORK WITH MOST 1G VIDEO OVER IP SOLUTIONS

Basic Operations

1. Logging On to the Switches

Connect PC to the switch with a network cable and configure PC's IP address correctly. Enter switch's web login IP address (default is **192.168.2.1**) in a browser and then press **Enter**. The browser will show a dialog box like below:

← → 🗙 🗋 192.168.2.1		ମ ମ୍ହ 🖿 🚍
	Authentication Required × The server http://192.168.2.1:80 requires a username and password. The server says: Managed. User Name: Password: textstyle Log In Cancel	

Operate as follows.

Input username (default is "**admin**") and password (default is "**admin**")

Then click Log In.

2. Resetting to Factory Defaults

P R O F E S S I • OCL Status • Detailed Statistics • Security > LACP • Loop Protection • Spanning Tree • MVR • IPMC • LLDP • MAC Table • VLANs • VCL • SFlow • Diagnostics • Maintenance • Restart Device • Factory Defaults • Software • Configuration	Factory Defaults Are you sure you want to reset the configuration to Factory Defaults? Ves No	6
192.168.2.1/factory.htm		

As shown in the figure above, choose **Maintenance** -> **Factory Defaults**, then click **Yes**, the switch will reset its

configuration to factory defaults. Once the resetting finished, the switch will give a report as below:



3. Configuration for Non-stack

Niveo series switches can be used for single switch networking or cascading switch networking. In this chapter, we'll provide the configuration guiding with the example of NGSM24T2.

1. Basic configuration



	P C					60
Configuration	IGMP	Snooping Co	nfiguration			
Power Reduction			Global Confi	iguration		
Ports Security Aggregation	Snoopin Unregis	g Enabled tered IPMCv4 Fl	ooding Enabled	7		
Loop Protection	IGMP S	SM Range	3	232.0.0.0	/ 8	
 Spanning Tree MVR 	Leave P	Proxy Enabled				
✓ IPMC ✓ IGMP Snooping ■ Basic	Port R	elated Config	guration			
Configuration	Port	Router Port	Fast Leave	Throttling		
Configuration	*		V	<> •		
 Port Group Filtering 	1			unlimited T		
MLD Snooping	2			unlimited v		
	3			unlimited T		
	4			unlimited T		

As shown in the figure above, choose **Configuration** -> **IPMC** -> **IGMP Snooping** -> **Basic Configuration**, then

operate as below.

- Check for Snooping Enabled
- Uncheck for Unregistered IPMCv4 Flooding Enabled
- Check the cell corresponding to the column Fast Leave in the first row of the list

Because Niveo switches may be located in different places in networking model, their configuration differs a little. For more information, see below.

A. Single Switch or Extended Switch in Cascading Networking



As shown in the figure above, just scroll the page down and click Save.

B. Core Switch in Cascading Networking



	<u> </u>	-			
Configuration	14			unlimited T	
System	15			unlimited T	
Power Reduction	16			unlimited T	
Security	17	0		unlimited T	
Aggregation	18			unlimited T	
Loop Protection	19	8		unlimited T	
Spanning Tree	20		1	unlimited T	
IPMC	21			unlimited T	
✓ IGMP Snooping	22			unlimited T	
Configuration	23			unlimited T	
■ VLAN	24	R		unlimited T	
 Port Group 	25			unlimited T	
Filtering	26	ā			
MLD Shooping	20	<u> </u>	6267	annitiou	

As shown in the figure above, uncheck the **Fast Leave** cell of the cascading port, namely, port 24, then scroll down the page and click **Save**.

Note:

In the example, we assume that ports 24 is the cascading pot. If actual applications vary, select another port according to the site's situation.

2. VLAN configuration

	201							(C 0
PROFESSI	ONAL								
► System	IGMP Snoopi	ng VLAN Config	uration				R	efresh <<	>>
 Power Reduction Ports Security 	Start from VLAN	1 with 20	entries per pa	age.					
Aggregation Loop Protection	Delete ID	N Snooping Enabled	IGMP Querier	Compatibility	RV	QI (sec)	QRI (0.1 sec)	LLQI (0.1 sec)	URI (sec)
 Spanning Tree MVR 	Add New IGMP	VLAN							
✓ IPMC ✓ IGMP Snooping ✓ Basic	Save Reset								
Configuration VLAN Configuration Port Group									
Filtering MLD Snooping									
192.168.2.1/ipmc_igmps_vla	an.htm								

As shown in the figure above, choose **Configuration** -> **IPMC** -> **IGMP Snooping** -> **VLAN Configuration**, click **Add New IGMP VLAN**. The subsequent configuration differs according to the switch's place in the networking.

A. Single Switch or Core Switch in the Cascading Networking



	60								C	9
R O F E S S Configuration System Power Reduction Ports Socurity	IGMP Sno	Doping V	LAN Config	uration	per page.			Refresh		
Aggregation	Delete	VLAN ID	Snooping Enabled	IGMP Querier	Compatibility	RV	QI (sec)	QRI (0.1 sec)	LLQI (0.1 sec)	ι
Spanning Tree	Delete	1			Forced IGMPv2 🔻	2	125	100	10	
	Add New I	GMP VLAN								
	4									Þ

As shown in the figure above, configure as below:

- I Set 1 for VLAN ID
- Check Snooping Enabled
- Check IGMP Querier
- Select Forced IGMPv2 for Compatibility

Then click **Save**, the screen will change as below:

	C	0								C	8
Configuration System Power Reduction Ports Security	IGI Sta	MP Sr	nooping VLAN 1	VLAN Cor	n figuratio 20 entr	n ies per page.			Refre	sh <<	>>
Aggregation Loop Protection	D	elete	VLAN ID	Snooping Enabled	IGMP Querier	Compatibility	RV	QI (sec)	QRI (0.1 sec)	LLQI (0.1 sec)	URI (
► Spanning Tree			1			Forced IGMPv2 V	2	125	100	10	
HVYK IGMP Snooping Basic Configuration VLAN Configuration Port Group Filtering MLD Snooping LLDP MAC Table	Ac	ld New	IGMP VL	AN							

As shown in the figure above, a checkbox appears in the **Delete** cell, and the other configuration items are the same as what we configured ago.

B. Extended Switch in the Cascading Networking



	9	01							C	3
P R O F E S S Configuration > System > Power Reduction • Ports > Security	I O N IGI Star	A L MP Snooping V t from VLAN 1	VLAN Config	juration	per page.			Refresh	<< >>	
Aggregation Loop Protection	D	elete VLAN	Snooping Enabled	IGMP Querier	Compatibility	RV	QI (sec)	QRI (0.1 sec)	LLQI (0.1 sec)	U
Spanning Tree MVR MVR IPMC GMP Snooping Basic Configuration VLAN Configuration Port Group Filtering MID Snooping LLDP MAC Table	D Ad Sa	elete di New IGMP VLA	N		Forced IGMPv2 •	2	125	100	10	
4 F										÷

As shown in the figure above, configure as below:

- I Set 1 for VLAN ID
- Check Snooping Enabled
- II Uncheck IGMP Querier
- Select Forced IGMPv2 for Compatibility

Then click **Save**, the screen will change as below:

	C								C	0
Configuration System Power Reduction Ports Construction	IGM Start	IP Snooping	g VLAN Cor	n figuratio 20 entr	n ies per page.			Refre	sh <<	>>
Security Aggregation Loop Protection	De	lete VLAN	Snooping Enabled	IGMP Querier	Compatibility	RV	QI (sec)	QRI (0.1 sec)	LLQI (0.1 sec)	URI (
Spanning Tree		1			Forced IGMPv2 V	2	125	100	10	
MVK IPMC GMP Snooping Basic Configuration VLAN Configuration Port Group Filtering MLD Snooping LLDP MAC Table	Add	I New IGMP VI	LAN							

As shown in the figure above, a checkbox appears in the **Delete** cell, and other configuration items are the same as what we configured ago.

