

IS-RG528 Series

28-Port Industrial Ethernet Managed Switch

Web Configuration Tool Guide

Version Number: v1.0 Issue: 1.1r1, June 2015



[CONTENTS]

1. Introductions	4
1.1 System Description	4
1.2 Using the Web Interface	4
1.2.1 Web Browser Support	4
1.2.2 Navigation	5
1.2.3 Title Bar Icons	5
1.2.4 Ending a Session	6
1.3 Using the Online Help	6
2. Using the Web	7
2.1 Login	7
2.2 Tree View	8
2.2.1 Configuration Menu	8
2.2.2 Monitor Menu	8
2.2.3 Maintenance Menu	9
2.3 Configuration	10
2.3.1 Link Aggregation	10
2.3.2 802.1x Authentication	11
2.3.3 Interface VLAN	14
2.3.4 Static Route	15
2.3.5 Port Configuration	16
2.3.6 VLAN	27
2.3.7 MAC Learning & Forwarding	33
2.3.8 Spanning Tree Protocol (STP)	34
2.3.9 Policer	46
2.3.10 ACL	50
2.3.11 Shaper	56
2.3.12 Queue & Scheduler	58
2.3.13 Storm Control	61
2.3.14 IGMP	67
2.4 Status	錯誤!尚未定義書籤。
2.4.1 Front Panel	77
2.4.2 Alarm/Event	83



2.4.3 Fdb	85
2.4.4 Giga Port Statistics	86
2.4.5 RMON	89
2.4.6 Users	91
2.4.7 I.A. Ring & Chain Status	92
2.4.8 802.1x	93
2.4.9 IGMP	98
2.5 System	100
2.5.1 Restart	100
2.5.2 Save & Restore	101
2.5.3 Firmware	103
2.5.4 Alarm Profile	104
2.5.5 CLI Options	105
2.5.6 HTTP (HTTPS)	106
2.5.7 SLL	107
2.5.8 SNTP	108
2.5.9 Syslog	109
2.5.10 User Administration	110
2.5.11 SNMP	112



1. Introductions

1.1 System Description

IS-RG528 Series 28-port Managed switches deliver high quality, wide operating temperature range, extended power input range, IP-30 design, and advanced VLAN & QoS features. It's ideal for harsh environments and mission critical applications.

IS-RG528 Series Managed switches provides enterprise-class networking features to fulfill the needs of large network infrastructure and extreme environments.

IS-RG528 Series Managed switches ease the effort to build a network infrastructure which offers a reliable, well managed and good QoS networking for any business requiring continuous and well-protected services in industrial environments. With the features such as I.A. Ring & Chain, Ethernet OAM, IEEE 1588v2 / Sync-E and QoS, customers can ensure their network is qualified to deliver any real-time and high quality applications.

1.2 Using the Web Interface

The object of this document "IS-RG528 Series Web Configuration Tool Guide" is to address the web feature, design layout and descript how to use the web interface.

1.2.1 Web Browser Support

IE 7 (or newer version) with the following default settings is recommended:

Language script	Latin based
Web page font	Times New Roman
Plain text font	Courier New
Encoding	Unicode (UTF-8)
Text size	Medium

Firefox with the following default settings is recommended:

Web page font	Times New Roman
Encoding	Unicode (UTF-8)
Text size	16



Google Chrome with the following default settings is recommended:

Web page font	Times New Roman	
Encoding	Unicode (UTF-8)	
Text size	Medium	

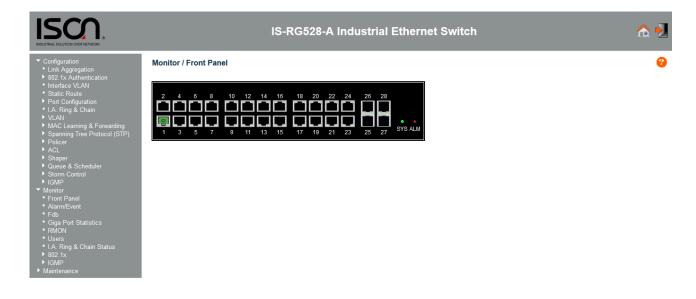
1.2.2 Navigation

All main screens of the web interface can be reached by clicking on hyperlinks in the four menu boxes on the left side of the screen:

- > Status Display statistics, status, and contents of memory.
- **Configuration** Configure the system, interfaces, and filters.
- > **System** Display system information, download firmware, back up configurations, and modify users.

You can find the detailed information in section 2.2 Tree View.

1.2.3 Title Bar Icons



Help Button



For more information about any screen, click on the Help button on the screen. Help information is displayed in the same window.



Save Button



If any unsaved change has been made to the *configuration* (by you during this or a prior session, or by any other administrator using the web interface or the Command Line Interface), a Save icon appears in the title line. To save the running configuration to the startup configuration:

- 1. Click on the Save icon. The System/Save and Restore screen appears.
- 2. Click on Submit next to Data Control Action drop-down list on top of System/Save and Restore screen.

1.2.4 Ending a Session

To end a session, close your web browser. This prevents an unauthorized user from accessing the system using your user name and password.

1.3 Using the Online Help

Each screen has a Help button that invokes a page of information relevant to the particular screen. The Help is displayed in a new window.

Each web page of Configuration/Status/System functions has a corresponding help page.



2. Using the Web

2.1 Login

	IS-RG528-A Web Interface Login
Username:	
Password:	
Sign in	

Operation	 Fill Username and Password Click "Sign in" 	
Field	Description	
Username	Login user name. The maximum length is 32. Default: admin	
Password	Login user password. The maximum length is 32. Default: admin	



2.2 Tree View

The tree view is a menu of the web. It offers user quickly to get the page for expected data or configuration.

2.2.1 Configuration Menu

- Configuration

 - Link Aggregation802.1x Authentication
 - Interface VLAN

 - Port Configuration
 - I.A. Ring & Chain
 - ▶ VLAN
 - ▶ MAC Learning & Forwarding
 - ► Spanning Tree Protocol (STP)

 - ▶ ACL

 - ▶ Shaper▶ Queue & Scheduler

 - ▶ IGMP
- ▶ Maintenance

2.2.2 Monitor Menu

- Configuration
- ▼ Monitor
 - Front Panel
 - Alarm/Event
 - Fdb
 - Giga Port Statistics
 - RMON

 - I.A. Ring & Chain Status ▶ 802.1x
- Maintenance



2.2.3 Maintenance Menu

- ► Configuration
- ► Monitor

 ▼ Maintenance
 Restart
- Save & RestoreFirmwareAlarm ProfileCLI Options
- HTTP(HTTPS) SSL
- SNTP
- SyslogUser AdministrationSNMP



2.3 Configuration

2.3.1 Link Aggregation

Configuration / Link Aggregation

Previous Con	nmand Resu	lt: Normal							
(Note: Trunk	Group 1, 2,	CANNOT tak	e the same	member po	ort to each o	ther; Max 4	member poi	ts in a Trun	k Group.)
Trunk Group	1 Disabled	•	Modify	′					
				Memb	er Port				
				Select Me	mber Port				
GE-1	GE-2	GE-3	GE-4	GE-5	GE-6	GE-7	GE-8	GE-9	GE-10
GE-11	GE-12	GE-13	GE-14	GE-15	GE-16	GE-17	GE-18	GE-19	GE-20
GE-21	GE-22	GE-23	GE-24	GE-25	GE-26	GE-27	GE-28		
Trunk Group	2 Disabled	•	Modify	/					
				Memb	er Port				
				Select Me	mber Port				
GE-1	GE-2	GE-3	GE-4	GE-5	GE-6	GE-7	GE-8	GE-9	GE-10
GE-11	GE-12	GE-13	GE-14	GE-15	GE-16	GE-17	GE-18	GE-19	GE-20
GE-21	GE-22	GE-23	GE-24	GE-25	GE-26	GE-27	GE-28		

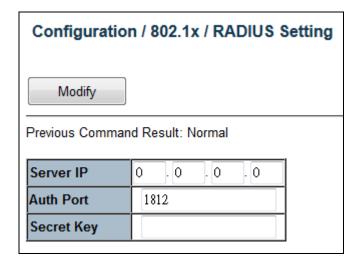
Operation	Modify:	
	. Select port with check box from GE-1 ~ GE-xx (xx = 10~28).	
	2. Click Modify button.	
Field	Description	
Trunk Group	Trunk Group number.	



	Note:
	Trunk Group 1 & 2 CANNOT take the member port that is
	already assigned to another Trunk Group; Max 4 member ports in a Trunk Group.
	Otherwise, the modification would be failed.
Member Port	Display current member port of Trunk Group.
Mode	To enable/disable Link Aggregation for Trunk Group.
GE-1~GE-xx (xx=10~28)	To select member ports for Trunk Group. If Link Aggregation mode is disabled,
	then the member port would be cleared, that represents no member port is assigned
	to Trunk Group.

2.3.2 802.1x Authentication

2.3.2.1 RADIUS Setting

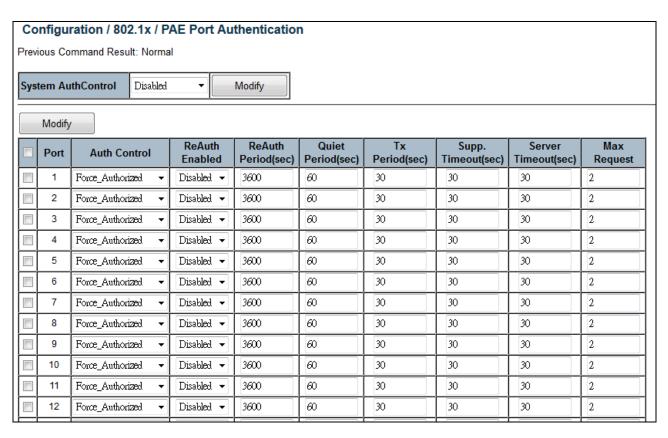


Operation	Modify:	
	Modify Server IP, Authentication Port and Secret Key fields.	
	2. Click "Modify" button to apply change.	
Field	Description	
Server IP	The IP address of RADIUS server.	
	Allow IPv4 address. 0.0.0.0 means disable RADIUS.	
	Default is 0.0.0.0.	



Auth Port	The UDP port of RADIUS server for authentication.	
	Range 1~65535.	
	Default is 1812.	
Secret Key	The key to be used between RADIUS server and Authenticator.	
	Range 0~16 chars.	
	Default is empty string.	

2.3.2.2 PAE Port Authentication



Operation	Modify System Auth. Control:	
	Select System Auth. Control.	
	2. Click "Modify" button to apply change.	
	Modify PAE Port Authentication:	
	Update below fields.	
	2. Check up the port(s) to be changed.	
	Click "Modify" button to modify PAE Port Authentication options.	



Field	Description
System AuthControl	Enable/Disable system 802.1x authentication function. Default value is Disabled.
Port	PAE port: 1 ~ MAX Number of Port.
Auth Control	The authentication type of PAE port. Allow Force_Unauthorized/Force_Authorized/Auto. Default is Force_Authorized.
ReAuth Enabled	Enable/Disable re-authenticate of PAE port. Default is Disable.
ReAuth Period	The period of re-authenticant of PAE port. Range 1~3600 sec. Default is 3600 sec.
Quiet Period	The quiet period of PAE port. Range 1~255 sec. Default is 60 sec.
Tx Period	The timeout of authenticator waiting for EAP-Response/ Identity from supplication of PAE port. Range 1~255 sec. Default is 30 sec.
Supp. Timeout	The timeout of authenticator wait for EAP-Response (exclude EAP-Request/Identify) after sending EAP-Request. Range 1~255 sec. Default is 30 sec.
Server Timeout	The timeout time of Authenticator wait Access-Challenge/ Access-Accept/ Access-Reject after sending Access-Request. Range 1~255 sec. Default is 30 sec.
Max Request	The max times of backend Authenticator send EAP-Request to supplicant before restarting the authentication process. Range 1~10. Default is 2.



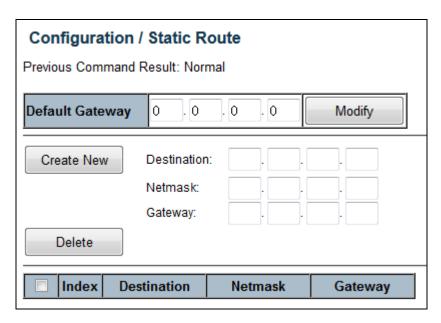
2.3.3 Interface VLAN

Previous Command Result: Normal Create New VID: IP Address: 0 . 0 . 0 . 0 Netmask: 0 . 0 . 0 . 0	Configuration / Interface VLAN			
IP Address: 0 . 0 . 0 . 0 . 0 . Netmask: 0 . 0 . 0 . 0	Previous Command Result: Normal			
Modify Delete	IP Address: 0 . 0 . 0			
linearly Delete	Modify Delete			
□ VID IP Address Netmask Mac Address		Netmask	Mac Address	
1 192 168 0 1 255 255 0 00:11:22:33:44:55	1 192 . 168 . 0 . 1	255 . 255 . 255 . 0	00:11:22:33:44:55	

Oneretion	Creater	
Operation	Create:	
	Fill VID, IP Address and Netmask	
	2. Click "Create New" button to create Interface VLAN.	
	Delete:	
	Multi-select a row data in Interface VLAN table.	
	Click "Delete" button to delete Interface VLAN.	
Field	Description	
VID	The identity for the RIP Interface.	
	Range 1~4094.	
	1st RIP interface VLAN always exist for VLAN 1. (Only support set can't be deleted)	
IP Address	IP address for the vlan interface.	
	Range 0~255.	
	Default value is 0.	
Netmask	Network subnet mask for the VLAN interface.	
	Range 0~255.	
	Default value is 0.	
Mac Address	MAC address for the VLAN interface.	
	Readonly.	



2.3.4 Static Route

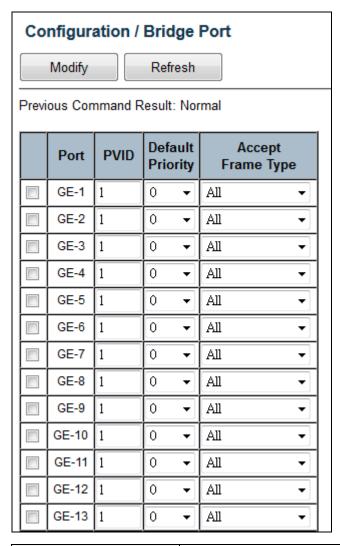


Operation	Modify:
	Click "Modify" button to apply new gateway.
	<u>Create:</u>
	Fill Destination, Netmask and Gateway.
	Click "Create New" button to create one static route.
	Delete:
	Select static route entry(s).
	2. Click "Delete" button to delete selection.
Field	Description
Default Gateway	Input default gateway IP address for management and Layer3 VLAN interface routing
Destination	Destination network address of static route.
Netmask	Network subnet mask for the route.
Gateway	Next hop IP address for the destination network.
Index	The index of the static route.



2.3.5 Port Configuration

2.3.5.1 Bridge Port



Operation	Modify:	
	Enter or select row by checking up check box.	
	2. Modify the configuration	
	Press "Modify" button to apply modification.	
	Refresh:	
	Click "Refresh" button to get current data.	
Field	Description	
Port	Bridge port number	



PVID	Value: 1~4094.		
	Default value is 1.		
Default	Default Priority value: 0~7.		
Priority	Default is 0.		
Accept Frame Type	Type: All/ OnlyVlanTagged/ Only Untagged.		
	Default is All.		
Max MAC Limit	Range: Enabled/ Disabled.		
	Default is Disabled.		
Max MAC	Range: 0~32.		
	Default is 8.		

2.3.5.2 Giga Port

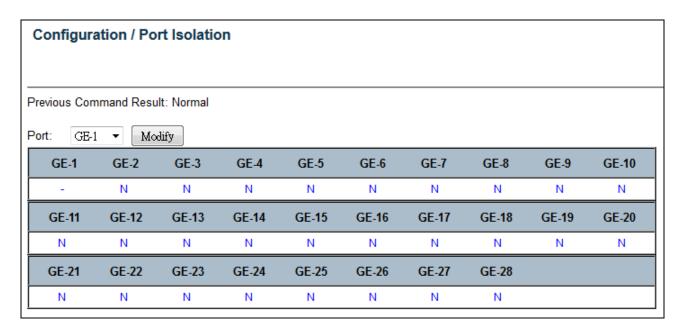
Configuration /Giga Port					
Modify Refresh					
Prev	ious C	ommand Result	: Normal		
	Port	Admin Status	Link Mode	Link Status	Flow Control
	GE-1	Enabled 🔻	Auto 🔻	Copper / 1000Mbps Full-Duplex	Disabled 🔻
	GE-2	Enabled 🔻	Auto ▼	Link Down	Disabled ▼
	GE-3	Enabled 🔻	Auto ▼	Link Down	Disabled 🔻
	GE-4	Enabled 🔻	Auto ▼	Link Down	Disabled 🔻
	GE-5	Enabled ▼	Auto ▼	Link Down	Disabled ▼
	GE-6	Enabled ▼	Auto ▼	Link Down	Disabled ▼
	GE-7	Enabled ▼	Auto ▼	Link Down	Disabled ▼
	GE-8	Enabled ▼	Auto ▼	Link Down	Disabled ▼
	GE-9	Enabled 🔻	Auto ▼	Link Down	Disabled ▼
	GE-10	Enabled 🔻	Auto ▼	Link Down	Disabled ▼
	GE-11	Enabled ▼	Auto ▼	Link Down	Disabled ▼
	GE-12	Enabled 🔻	Auto ▼	Link Down	Disabled ▼
	GE-13	Enabled 🔻	Auto ▼	Link Down	Disabled ▼
	GE-14	Enabled 🕶	Auto ▼	Link Down	Disabled 🔻



Operation	Modify:		
	Select a row item to selected		
	2. Set or select the following fields.		
	Click "Modify" button to modify.		
Field	Description		
Port	GE-1~ MAX Number of Port.		
Admin Status	Enabled/Disabled, default=Enabled.		
Link Mode	Configuration for Link Mode: Auto (default is Auto) 10Mbps Half/Full Duplex 100Mbps Half/Full Duplex 1000Mbps Full Duplex 2500Mbps Full Duplex (only in some model)		
Link Status	Display Link type and speed Possible Type: Copper/ SFP Possible Status: 10Mbps Half-Duplex or Full-Duplex 100Mbps Half-Duplex or Full-Duplex 1000Mbps Full-Duplex 2500Mbps Full-Duplex (only in some model)		
Copper/ SFP Priority	Only some model supports Copper/SFP combo port, default is SFP first.		
Flow Control	Range: Enabled/Disabled, default=Disabled.		

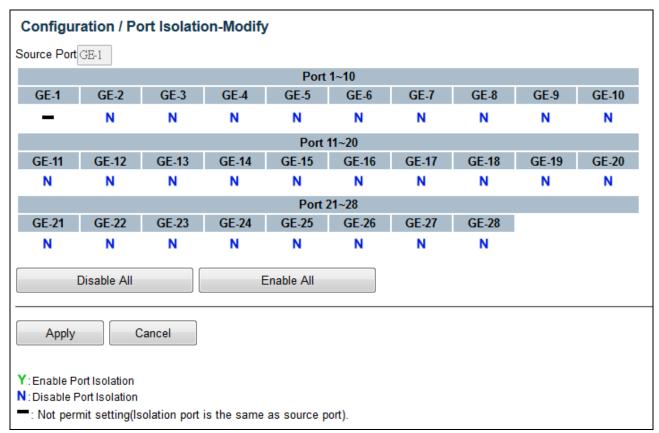


2.3.5.3 Port Isolation



Port Isolation-Modify



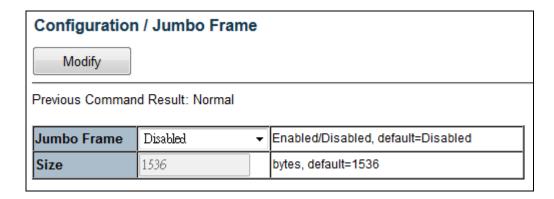




Operation	 Modify: Click "Modify" button to open modification page. Port Isolation - Modify: 1. Click "Disable All", "Enable All" or click on (Y/N/-) to change isolation setting by port. 2. Click "Apply" to apply change or Press "Cancel" to cancel and go back to main page of Isolation.
Field	Description
Source Port	GE-1 ~ MAX Number of Port.
Isolation Port	Option: Y/ N/ Y: Isolation is true N: Isolation is false -: Not permit setting (Isolation port is the same as source port)
Disable All	Disable Isolation to all ports
Enable All	Enable Isolation to all ports
Apply	Apply setting data.
Cancel	Cancel setting data.

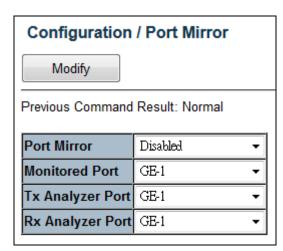


2.3.5.4. Jumbo Frame



Operation	Modify:	
	Modify the configuration.	
	2. Click "Modify" button to apply change.	
Field	Description	
Jumbo Frame	Option: Enabled/ Disabled,	
	Default is Disabled.	
Size	Range: 1536~9000 bytes,	
	Default is 1536 bytes.	

2.3.5.5 Port Mirror

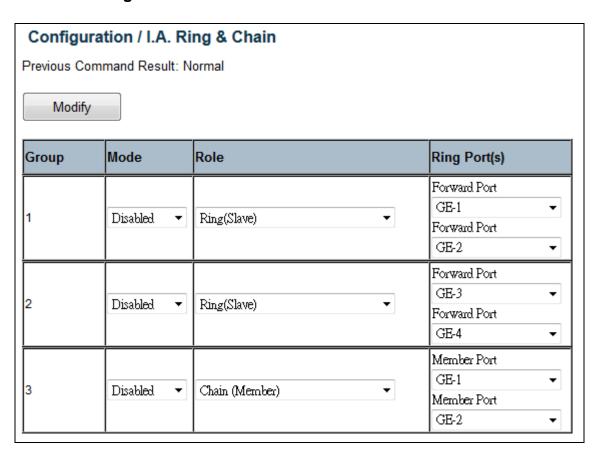




Operation	Modify:	
	Modify the configuration	
	2. Click "Modify" button to apply change	
Field	Description	
Port Mirror	Enable/Disable Port Mirror function, default is Disabled.	
Monitored Port	Value range is GE-1 ~ Port MAX Number, default is GE-1. Port to be monitored.	
Tx Analyzer Port	Value range is GE-1 ~ Port MAX Number, default is GE-1. It monitors 'out' packet of monitored port.	
Rx Analyzer Port	Value range is GE-1 ~ Port MAX Number, default is GE-1. It monitors 'in' packet of monitored port.	



2.3.5.6 I.A. Ring & Chain



Operation	Modify:
	Modify the configuration
	Press "Modify" button to apply change.
Field	Description
Group	The group index. This parameter is used for easy identifying the ring when user configure it.
	Group 1 - this group supports configuration of ring.
	Group 2 - this group supports configuration of ring, coupling and dual-homing.
	Group 3 - this group supports configuration of chain and balancing-chain.



Mode	Enable Ring on the specific group.
	# When Group 1 or 2 is enabled:
	All configuration of Group 3 will be reset to default.
	Group 3 all configuration options will be locked.
	# To configure Group 3:
	Both Group1 and 2 should be disabled first.
	When Group 3 is enabled, all configuration of Group1 and 2 will be reset to
	default.
	Group 1 and 2 all configuration options will be locked.
Role	Configure the Ring group on this switch as specific role.
	# Group 1 - support option of ring-master and ring-slave.
	Ring - it could be master or slave.
	# Group 2 - support configuration of the ring, coupling and dual-homing.
	Ring - it could be master or slave.
	Coupling - it could be primary or backup.
	Dual-Homing
	# Group 3 - support configuration of the chain and balancing-chain.
	Chain - it could be head, tail or member.
	Balancing Chain - it could be central-block, terminal-1/2 or member.
	Note 1 - Group 1 must be enabled before enable Group 2 to coupling.
	Note 2 - When Group 1 or 2 is enabled, the configuration of Group 3 will be
	disabled.
	Note 3 - When Group 3 is enabled, the configuration of Group 1 and 2 will be
	disabled.



Ring Port(s)

Selecting ring port(s).

Each ring port must be unique, CANNOT be configured in different groups; 2 ring ports between ring/chain CANNOT be the same.

When role is ring/master:

One ring port is forward port and another is block port.

The block port is redundant port; it is blocking port in normal state.

When role is ring/slave:

Both ring ports are forward port.

When role is coupling/primary:

Only need one ring port named primary port.

When role is coupling/backup:

Only need one ring port named backup port.

This backup port is redundant port; it is blocking port in normal state.

When role is dual-homing:

One ring port is primary port and another is backup port.

This backup port is redundant port; it is blocking port in normal state.

When role is chain/head:

One ring port is member port and another is head port.

Both ring ports are forwarding port in normal state.

When role is chain/tail:

One ring port is member port and another is tail port.

The tail port is redundant port; it is blocking port in normal state.

When role is chain/member:

Both ring ports are member port.

Both ring ports are forwarding port in normal state.

When role is balancing-chain/central-block:

One ring port is member port and another is block port.

The block port is redundant port; it is blocking port in normal state.

When role is balancing-chain/terminal-1/2:

One ring port is member port and another is terminal port.

Both ring ports are forwarding port in normal state.

When role is balancing-chain/member:

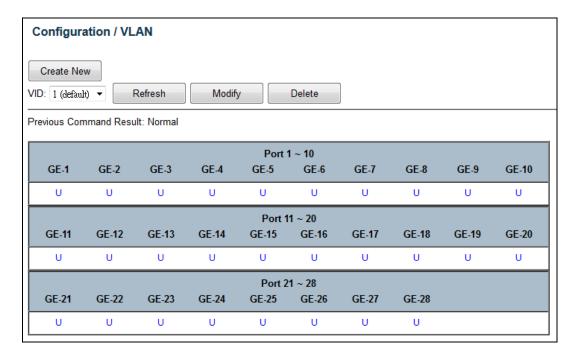
Both ring ports are member port.

Both ring ports are forwarding port in normal state.

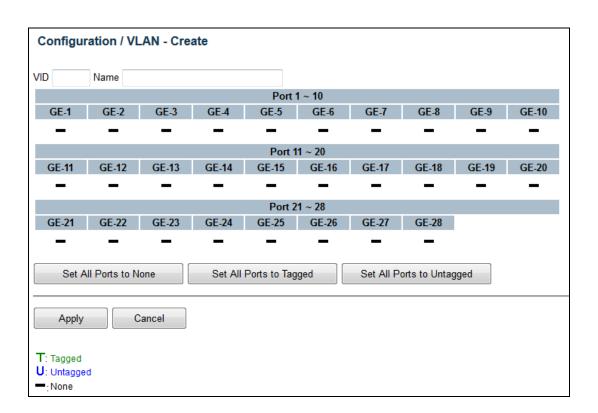


2.3.6 VLAN

2.3.6.1 Static VLAN

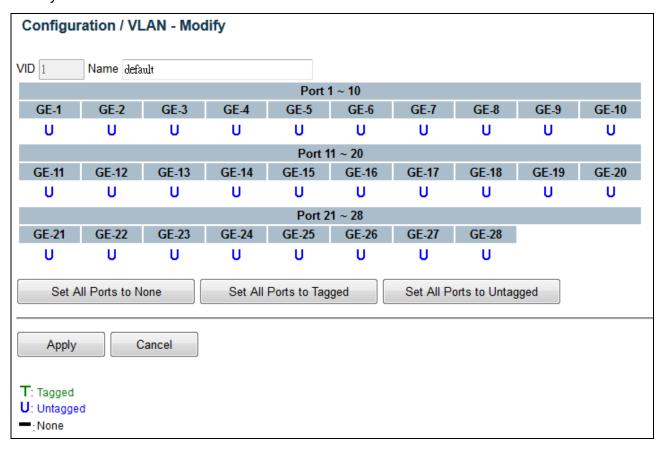


Create New VLAN





Modify VLAN

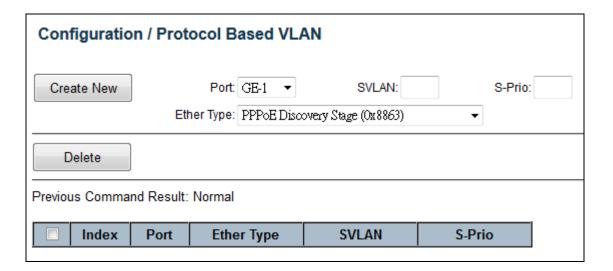


Operation Create New: 1. Click "Create New" button to open "Create New" page. 2. Set VID and Name. 3. Click fields to change status. Click "Apply" button to create, or click "Cancel" button to cancel. Modify: Click "Modify" button to open "Modify" page. 2. Modify Name. Click "Apply" button to modify, click "Cancel" button to cancel. Delete: Choice VLANs checkbox to select. Click "Delete" to delete all selected VLANs. Refresh: 1. Click "Refresh" button to get current data.



Field	Description
VID	Value: 1~4094.
	Default value is 1.
Name	Range:0~32 characters
Tagged	Range: T/ U/
	T: Tagged
	U: Untagged
	- : None (not join this VLAN)
Set All Ports to None	Set all ports to None (no port join this VLAN)
Set All Ports to Tagged	Set all ports join the VLAN as Tagged.
Set All Ports to Untagged	Set all ports join the VLAN as Untagged.

2.3.6.2 Protocol Based VLAN





Operation	Create New:		
- F	Click "Create New" button to Create New page.		
	2. Set Port and Ether Type, input SVLAN and S-Prio.		
	3. Click Create New button. (Max entry: 10.)		
	Delete:		
	Select Index with check box.		
	Click "Delete" button to delete data.		
Field	Description		
Index	Index 1~10.		
Port	Protocol-base VLAN config port number, Port range:1 ~ MAX Number of Port.		
	Select Ether Type:		
	1. PPPoE Discovery Stage (0x8863).		
Ether Type	2. PPPoE Session Stage (0x8864).		
	3. Internet Protocol (0x0800).		
	4. Address Resolution Protocol (ARP) (0x0806).		
	5. Others (input ether type), Range 0000~FFFF.		
SVLAN	Service VLAN ID, Range 1 ~ 4094		
S-Prio	CoS of SVLAN: 0~7, 8:reserve		



2.3.6.3 VLAN Translation

Configuration	/ VLAN	Translati	on					
Create New	Po	rt: GE-1 🔻	CVL	AN:	C-Prio:			
	SVLAN	N :	S-P	rio:		[VLAN	Mode always Replace	ed N:1]
Delete								
Previous Command	Result: No	rmal						
Index Port	CVLAN	C-Prio	SVLAN	S-Prio	VLAN Mo	de]	

Operation	<u>Create:</u>		
	Select Port, fill CVLAN, C-Prio, SVLAN and S-Prio.		
	2. Click "Create New" button to create new entry. Click Delete button to delete		
	selected entry(s).		
Field	Description		
Index	Index 1~10, max entry number: 10.		
Port	VLAN translation port number:		
Port	GE-1 ~ MAX Number of Port.		
CVLAN	Customer VLAN ID:		
CVLAN	Range: 1 ~ 4094		
O Del-	CoS of CVLAN:		
C-Prio	Range: 0~7, 8: reserve		
SVLAN	Service VLAN ID:		
SVLAN	Range: 1 ~ 4094		
S-Prio	CoS of SVLAN:		
5-P110	Range: 0~7, 8: reserve		
VI AN Mada	Currently only supports:		
VLAN Mode	Replaced N to 1.		



2.3.6.4 VLAN Stacking

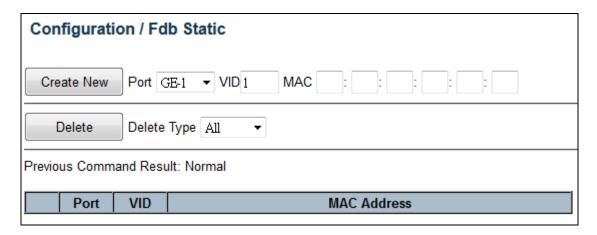
Co	Configuration / VLAN Stacking				
	Modify				
Prev	ious Command Resu	lt: Normal			
Ext-	TPID:0x 8100 (0x1	to 0xffff)			
	Port	VLAN Stacking			
	GE-1	Disabled 🔻			
	GE-2	Disabled 🔻			
	GE-3	Disabled ▼			
	GE-4	Disabled ▼			
	GE-5	Disabled ▼			
	GE-6	Disabled ▼			
	GE-7	Disabled 🔻			
	GE-8	Disabled 🔻			
	GE-9	Disabled 🔻			
	GE-10	Disabled 🔻			
	GE-11	Disabled 🔻			
	GE-12	Disabled 🔻			
	GE-13	Disabled ▼			

Operation	Modify:		
	Select Port check box :		
	2. Select Select mode Disabled/ Enabled, click "Modify" button to apply change.		
Field	Description		
Ext-TPID (Hex)	The range is from 1~FFFF (0x1 to 0xffff) Default is 0x8100		
VLAN Stacking Port	Port:		
	GE-1 ~ MAX Number of Port.		
VLAN Stacking	Enable/Disable VLAN Stacking (QinQ) mode. Default value is disable.		



2.3.7 MAC Learning & Forwarding

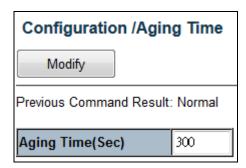
2.3.7.1 Fdb Static



Operation	Create New:
	Setting Port, VID and MAC Address
	Click "Create New" to create a new data
	Delete:
	Select a delete type "All/Port/VID/Selected"
	2. If delete type is "Port", then select a port from list.
	3. If delete type is "VID", then input a VID.
	4. If delete type is "Selected", then select row(s) to be deleted.
	5. Click "Delete" button to delete.
Field	Description
Port	Giga Port: GE-1~MAX Number of Port
VID	Range: 1~4094.
	Default value is 1.
MAC Address	Format XX:XX:XX:XX:XX



2.3.7.2 Aging Time



Operation	Modify:	
	Modify the configuration	
	2. Click "Modify" button to apply the change	
Field	Description	
Aging Time(Sec)	Range: 10~1000000,	
	Default is 300 seconds.	

2.3.8 Spanning Tree Protocol (STP)

2.3.8.1 STP Bridge

Status:



Configuration / STP Bridge

Modify

Refresh

Previous Command Result: Normal

Status Config

Status Config					
STP	Disabled	Enabled/Disabled, default=Disabled			
Protocol	STP	STP/RSTP/MSTP, Default=STP			
Priority	0x8000(32768)	0~61440 in step 4096, default=0x8000			
Bridge Max Age	20	6~40 seconds, default=20. Configure value for this system, when this switch is root bridge.			
Bridge Hello Time	2	1~10 seconds, default=2. Configure value for this system, when this switch is root bridge.			
Bridge Forward Delay	15	4~30 seconds, default=15. Configure value for this system, when this switch is root bridge.			
BPDU Filter	Deny	Deny/Flooding when STP is Disable			
Region Name		STP Region Name. Default value is emtpy.			
Revision Level	0	MST revision level. Default value is 0.			
Time since last TC	0	seconds, Time since LAST topology change.			
Topology Changes	0	the total number of topology changes			
Designate Root (hex)	8000-001122334455	Root Priority + Root Bridge MAC			
Bridge ID (hex)	8000-001122334455	Priority + Bridge MAC			
Root Cost	0	the cost of the path to the root			



Config:

Configuration / STP Bridge Modify Refresh Previous Command Result: Normal Status Config STP Disabled ▼ Enabled/Disabled, default=Disabled Protocol STP STP/RSTP/MSTP, Default=STP ▼ 0~61440 in step 4096, default=0x8000 Priority 0x8000(32768) Bridge Max Age 6~40 seconds, default=20 20 Bridge Hello Time 2 1~10 seconds, default=2 Bridge Forward Delay 15 4~30 seconds, default=15 Deny BPDU Filter ▼ Deny/Flooding when STP is Disable **Region Name** STP Region Name. Default value is emtpy. Revision Level MST revision level. Default value is 0.

The MaxAge, HelloTime and ForwardDelay times are constrained as follows: $2 \times (ForwardDelay - 1) >= MaxAge >= 2 \times (HelloTime + 1)$

Operation	Modify:
	Select "Config" page.
	2. Modify the configuration.
	3. Clicks "Modify" button to apply change.
	Refresh:
	Click "Refresh" button to get current data.
Field	Description
STP	Specify whether or not the system is to implement the spanning tree protocol. Range: Enabled/Disabled, default=Disabled.
Protocol	RSTP (IEEE 802.1W), STP (IEEE 802.1D) Option: STP/RSTP, Default=STP.

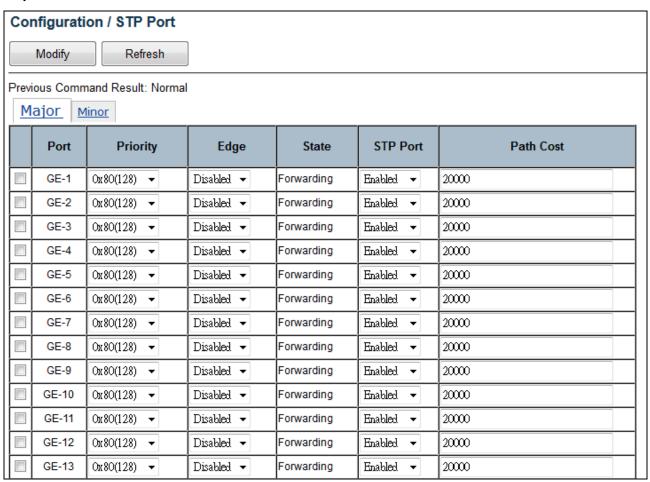


Priority	Sets the spanning tree protocol priority. The lower the priority number, the more significant the bridge becomes in protocol terms. Where two bridges have the same priority, their MAC address is compared and the smaller MAC address is treated as the most significant. Range: 0~61440 in step 4096, Default is default=0x8000(32768).
Bridge MaxAge	Sets the maximum age of received spanning tree protocol information before it is discarded. This is used when the bridge is or is attempting to become the root bridge. Range: 6~40 seconds, Default=20 seconds.
Bridge Hello Time	Sets the time after which the spanning tree process sends notification of topology changes to the root bridge. This is used when the bridge is or is attempting to become the root bridge. Range: 1~10 seconds, Default=2 seconds.
Bridge Forward Delay	Sets the time that the bridge spends in listening or learning states when the bridge is or is attempting to become the root bridge. Range: 4~30 seconds, Default=15 seconds. The maxage, hellotime and forwarddelay times are constrained as follows: 2 x (forwarddelay - 1) >= maxage maxage >= 2 x (hellotime + 1) For example, the default settings are: 2 x (15 - 1) >= 20 20 >= 2 x (2 + 1)
BPDU Filter	Deny/Flooding when STP is Disable.



2.3.8.2 STP Port

Major:





Minor:

Configu	ration / STP Po	ort				
Modi	Modify Refresh					
Previous C	Command Result: No	ormal				
<u>Major</u>	Minor					
Dort			Designated			Farmed Transitions
Port	Root (hex)		Cost	Bridge (hex)	Port (hex)	Forward Transitions
GE-1	0000-000000000000	0 0		0000-000000000000	8001	0
GE-2	0000-000000000000	0 0		0000-000000000000	8002	0
GE-3	0000-000000000000	0 0		0000-000000000000	8003	0
GE-4	0000-000000000000	0 0		0000-000000000000	8004	0
GE-5	0000-000000000000	0 0		0000-000000000000	8005	0
GE-6	0000-000000000000	0 0		0000-000000000000	8006	0
GE-7	0000-000000000000	0 0		0000-000000000000	8007	0
GE-8	0000-000000000000	0 0		0000-000000000000	8008	0
GE-9	0000-000000000000	0 0		0000-000000000000	8009	0
GE-10	0000-000000000000	0 0		0000-000000000000	800A	0
GE-11	0000-000000000000	0 0		0000-000000000000	800B	0
GE-12	0000-000000000000	0 0		0000-000000000000	800C	0

Operation	Modify:	
	1. Select "Major" page	
	Select row(s) to be changed by checking up checkbox	
	3. Modify the configuration	
	4. Click "Modify" button to apply change.	
	Refresh:	
	Click "Refresh" button to get current data.	
Field	Description	
Port	Range: GE-1 ~ MAX Number of Port	
Priority	Range: 0~240 in step 16,	
	Default is default=0x80(128).	
	Default is default=0x80(128).	



Edge	Range: Enabled/Disabled, default=Disabled.
State	Range: Disabled/ Blocking/ Listening/ Learning/ Forwarding/ Broken Disabled: For ports which are disabled (see dot1dStpPortEnable), this object will have a value of disabled. Blocking: The port will go into a blocking state at the time of selection process, when a
	switch receives a BPDU on a port that indicates a better path to the root switch, and if a port is not a root port or a designated port.
	Listening: After blocking state, a root port or a designated port will move to a listening state. All other ports will remain in a blocked state. During the listening state the port discards frames received from the attached network segment and it also discards frames switched from another port for forwarding. At this state, the port receives BPDUs from the network segment and directs them to the switch system module for processing. After a forward time delay (The default forward delay time is 15 seconds.), the switch port moves from the listening state to the learning state.
	Learning: A port changes to learning state after listening state. During the learning state, the port is listening for and processing BPDUs. In the listening state, the port begins to process user frames and start updating the MAC address table. But the user frames are not forwarded to the destination. After a forward time delay (The default forward delay time is 15 seconds), the switch port moves from the learning state to the forwarding state.
	Forwarding: A port in the forwarding state forwards frames across the attached network segment. In a forwarding state, the port will process BPDUs, update its MAC Address table with frames that it receives, and forward user traffic through the port. Forwarding State is the normal state. Data and configuration messages are passed through the port, when it is in forwarding state. Broken: If the bridge has detected a port that is malfunctioning it will place that port into the broken state.
STP Port	Range: Enabled/ Disabled, Default is Enabled.
Path Cost	Range: 1 ~ 200000000, Default is 20000.
Designated Root	The parameter is the unique Bridge Identifier of the Bridge recorded as the Root in the Configuration BPDUs transmitted by the Designated Bridge for the segment to which the port is attached. Format: Root bridge priority + Root Bridge MAC address
Designated Cost	The parameter is the path cost of the Designated Port of the segment connected to this port. This value is compared to the Root Path Cost field in received BPDUs.



Designated Bridge	The parameter is the Bridge Identifier of the bridge which this port considers to be the Designated Bridge for this port's segment. Format: Designated bridge priority + Designated Bridge MAC address. [0x8000-001122334455]
Designated Port	The parameter (dot1dStpPortDesignatedPort) is the Port Identifier of the port of the Designated Bridge for this port's segment. Format: Designated port priority + Designated Port ID. [0x8001]
Forward Transitions	Forward Transitions count.



2.3.8.3 MSTP Bridge

Configuration / MSTP Bridge			
Create New ID MSTI Name	Priority	Ox 8000(32768)	•
Delete Modify Refresh MSTI Name ▼			
Add Remove VID -			
Previous Command Result: Normal			

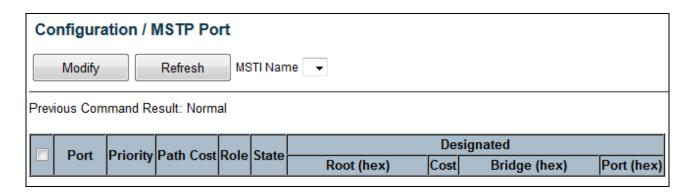
Operation	Create New:	
	Fill "MSTI Name" and select "Priority" fields.	
	(Default MSTI Name will be set when name is not input.)	
	2. Click "Create New" button to create new data.	
	3. Max MSTI number is 10.	
	Delete:	
	Select "MSTI Name".	
	2. Click "Delete" button to the Instance.	
	Modify:	
	Select "MSTI Name" from list.	
	2. Modify "MSTI Name", "VID" or select "Priority".	
	3. Click "Modify" button.	
	Add or Remove VID:	
	Fill start VID and end VID.	
	2. Click "Add" or "Remove" button to edit VID range.	
	Or input the VID range with the format in the VID cell.	
Field	Description	
ID	MSTI ID, value range is 1~10.	
MSTI Name	MSTI Name, 1~30 characters.	
	Can not be empty, if empty, system will give default name.	
VID Start	VLAN ID, Range 1-4094.	
VID End	VLAN ID, Range 1-4094.	



VID	VLAN ID, Format: 2-5,7,100-4094. Accept number, space, dash and comma.	
Priority	MSTI's priority. The lower the priority number, the more significant the bridge becomes in protocol terms. Where two bridges have the same priority, their MAC address is compared and the smaller MAC address is treated as the most significant. Range: 0~61440 in step 4096, Default is default=0x8000(32768).	
Designated Root	The parameter is the unique Bridge Identifier of the Bridge recorded as the Root in the Configuration BPDUs transmitted by the Designated Bridge for the segment to which the port is attached. Format: MSTI's Root bridge priority + Root Bridge MAC address	
Bridge ID	The parameter is the Bridge Identifier of the bridge which this port considers to be the Designated Bridge for this port's segment. Format: MSTI's priority + Bridge MAC address. [0x8000-001122334455]	
Root Cost	The parameter is the path cost of the MSTI's Designated Port of the segment connected to this port. This value is compared to the Root Path Cost field in received BPDUs.	
Root Port	The parameter is the MSTI's Port Identifier of the port of the Designated Bridge for this port's segment. [0x8001]	



2.3.8.4 MSTP Port



Operation	Modify:
	Select a row item to selected
	2. Set or select the following fields.
	3. Click "Modify" button.
Field	Description
Port	Range: GE-1 ~ MAX Number of Port
Priority	Range: 0~240 in step 16, Default is default=0x80(128).
Path Cost	Range: 1 ~ 200000000, Default is 20000.
Role	Range: Disabled/ Root/ Designated/ Alternate/ Backup/ Master/ Unknown.
	Range: Disabled/ Blocking/ Listening/ Learning/ Forwarding/ Broken
	Disabled: For ports which are disabled (see dot1dStpPortEnable), this object will have
	a value of disabled.
	Blocking: The port will go into a blocking state at the time of selection process, when a
	switch receives a BPDU on a port that indicates a better path to the root switch, and if
	a port is not a root port or a designated port.
	Listening: After blocking state, a root port or a designated port will move to a listening
State	state. All other ports will remain in a blocked state. During the listening state the port
	discards frames received from the attached network segment and it also discards
	frames switched from another port for forwarding. At this state, the port receives
	BPDUs from the network segment and directs them to the switch system module for
	processing. After a forward time delay (The default forward delay time is 15 seconds.),
	the switch port moves from the listening state to the learning state.
	Learning: A port changes to learning state after listening state. During the learning
	state, the port is listening for and processing BPDUs. In the listening state, the port



	begins to process user frames and start updating the MAC address table. But the user
	frames are not forwarded to the destination. After a forward time delay (The default
	forward delay time is 15 seconds), the switch port moves from the learning state to the
	forwarding state.
	Forwarding: A port in the forwarding state forwards frames across the attached
	network segment. In a forwarding state, the port will process BPDUs, update its MAC
	Address table with frames that it receives, and forward user traffic through the port.
	Forwarding State is the normal state. Data and configuration messages are passed
	through the port, when it is in forwarding state.
	Broken: If the bridge has detected a port that is malfunctioning it will place that port into
	the broken state.
	The parameter is the unique Bridge Identifier of the Bridge recorded as the Root in the
	Configuration BPDUs transmitted by the Designated Bridge for the segment to which
Designated Root	the port is attached.
	Format : Root bridge priority + Root Bridge MAC address
	The parameter is the path cost of the Designated Port of the segment connected to this
Designated Cost	port. This value is compared to the Root Path Cost field in received BPDUs.
	The parameter is the Bridge Identifier of the bridge which this port considers to be the
	Designated Bridge for this port's segment.
Designated Bridge	Format: Designated bridge priority + Designated Bridge MAC address.
	[0x8000-001122334455]
	The parameter (dot1dStpPortDesignatedPort) is the Port Identifier of the port of the
Designated Port	Designated Bridge for this port's segment.
	Format: Designated port priority + Designated Port ID. [0x8001]



2.3.9 Policer

2.3.9.1 Policer Ingress Color

Configuration / Policer Ingress Color			
Modify			
Previous Command R	esult: Normal		
Color Aware Mode:	Color Blind 🔻		
CoS Number	Color		
CoS 0	Green	₹	
CoS 1	Green	₹	
CoS 2	Green	₹	
CoS 3	Green	▼	
CoS 4	Green	▼	
CoS 5	Green	▼	
CoS 6	Green	₹	
CoS 7	Green	•	

Operation	Modify:	
	Select "Color Blind" or "Color Aware"	
	2. Modify the configuration	
	3. Click "Modify" button to apply change	
Field	Description	
Color Aware Mode	Color Blind/ Color Aware. Default is Color Blind.	
CoS 0	Green/Yellow/Red, default is green	
CoS 1	Green/Yellow/Red, default is green	
CoS 2	Green/Yellow/Red, default is green	
CoS 3	Green/Yellow/Red, default is green	
CoS 4	Green/Yellow/Red, default is green	
CoS 5	Green/Yellow/Red, default is green	



CoS 6	Green/Yellow/Red, default is green
CoS 7	Green/Yellow/Red, default is green



2.3.9.2 Policer Color Marking

Configuration / Policer Color Marking

Modify

Туре	Number	
CoS Green	CoS 7	
CoS Yellow	CoS 5	
CoS Red	CoS 3	
DSCP Green	DSCP 56	
DSCP Yellow	DSCP 40	
DSCP Red	DSCP 24	

Operation	Modify:	
	Modify the configuration	
	2. Click "Modify" button to apply change	
Field	Description	
Color Aware Mode	Color Blind/ Color Aware. Default is Color Blind.	
CoS Green	Range: 0~7, Default is 7	
CoS Yellow	Range: 0~7, Default is 5	
CoS Red	Range: 0~7, Default is 3	
DSCP Green	Range: 0~63, Default is 56	
DSCP Yellow	Range: 0~63, Default is 40	
DSCP Red	Range: 0~63, Default is 24	



2.3.9.3 Ingress Policer

Conf	Configuration / Ingress Policer						
M	Modify						
Previous Command Result: Normal							
	Port	Mode	Exceed Action	PIR (Kbps)	PBS (Bytes)	CIR (Kbps)	CBS (Bytes)
	GE-1	Disabled 🔻	Drop ▼	1000000	10000	500000	10000
	GE-2	Disabled 🔻	Drop ▼	1000000	10000	500000	10000
	GE-3	Disabled 🔻	Drop ▼	1000000	10000	500000	10000
	GE-4	Disabled 🔻	Drop ▼	1000000	10000	500000	10000
	GE-5	Disabled 🔻	Drop ▼	1000000	10000	500000	10000
	GE-6	Disabled 🔻	Drop ▼	1000000	10000	500000	10000
	GE-7	Disabled 🔻	Drop ▼	1000000	10000	500000	10000
	GE-8	Disabled ▼	Drop ▼	1000000	10000	500000	10000
	GE-9	Disabled 🔻	Drop ▼	1000000	10000	500000	10000
	GE-10	Disabled 🔻	Drop ▼	1000000	10000	500000	10000
	GE-11	Disabled 🔻	Drop ▼	1000000	10000	500000	10000
	GE-12	Disabled 🔻	Drop ▼	1000000	10000	500000	10000
	GE-13	Disabled ▼	Drop ▼	1000000	10000	500000	10000

Operation	Modify:	
	Modify the configuration	
	2. Click "Modify" button to apply change	
Field	Description	
Port	Bridge port number. GE-1 ~ MAX Number of Port.	
Mode	Ingress Policer Mode Enabled/Disabled, default is Disabled.	
Exceed Action	Value range is Drop/CoS Mark/DSCP Mark, default is Drop.	
PIR (Kbps)	Value range is 1~1000000 Kbps, default is 1000000 Kbps.	
PBS (Bytes)	Value range is 1~65535 Bytes, default is 10000 Bytes.	
CIR (Kbps)	Value range is 1~1000000 Kbps, default is 500000 Kbps.	
CBS (Bytes)	Value range is 1~65535 Kbps, default is 10000 Kbps.	



2.3.10 ACL

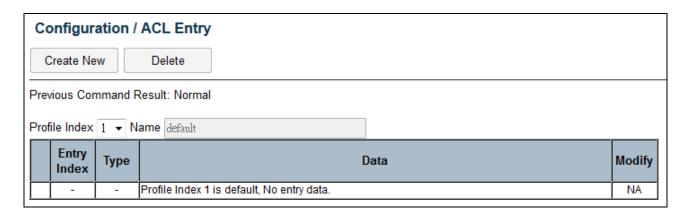
2.3.10.1 Profile

Configuration / ACL Profile		
Create New Name		
Modify Delete		
Previous Command Result: Normal		
Index Name		
1 default		

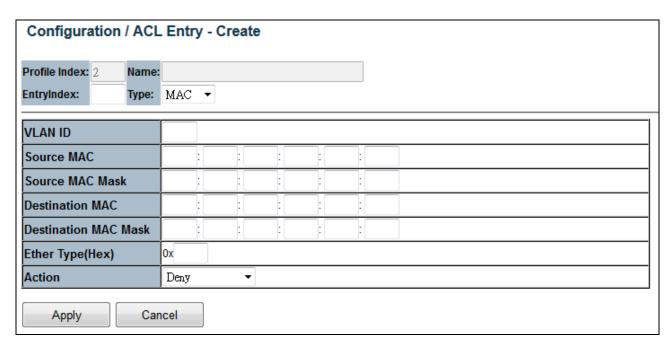
Operation	Create New:	
	1. Fill ACL Profile Name, the max length is 31.	
	2. Click "Create New" button to Create New ACL profile.	
	Modify:	
	Select checkbox of profile to be changed.	
	2. Modify the "Name" of profile	
	3. Click "Modify" button to apply change	
	Delete:	
	Select one row for delete	
	2. Click "Delete" button to delete data	
Field	Description	
Index	ACL Profile Index, range is 1 ~ MAX SIZE of profile,	
	Profile 1 is a default profile, can not be modified	
Name	ACL Profile Name, the max length 31 characters.	



2.3.10.2 Entry



Create New





Operation	Create New:		
	Click "Create New" button to open page of Create New entry.		
	2. Fill ACL Entry Index field and select Type.		
	3. Fill fields and then click "Apply" to create or click "Cancel" to cancel.		
	Modify:		
	Modify field data.		
	2. Click "Modify" button to open modification page.		
	3. Fill Entry Index field and select Type.		
	4. Fill fields and then click "Apply" to modify or click "Cancel" to cancel.		
	Delete:		
	Select one row.		
	2. Click "Delete" button to delete data.		
Field	Description		
Profile Index	Range: 1~20		
Entry Index	Range: 1~32		
Туре	MAC/IPV4/L4PORT/TOS		
Type = MAC			
VLAN ID	ACL Profile VLAN ID, value range is 1~4094.		
Source MAC	ACL Profile Source MAC format XX:XX:XX:XX:XX, each field value range 0~FF		
Source MAC Mask	ACL Profile Source MAC Mask format XX:XX:XX:XX:XX, each field value range 0~FF		
Destination MAC			
Destination MAC	ACL Profile Destination MAC format XX:XX:XX:XX:XX, each field value range 0~FF		
Destination MAC Mask	ACL Profile Destination MAC Mask format XX:XX:XX:XX:XX, each field value range 0~FF		
Ether Type (Hex)	Value range 0,05DD~FFFF,format XXXX		
Action	Value range Deny/Permit/Queue Mapping/CoS Marking/Copy Frame.		
Type = IPV4			
Source IP	Format XXX:XXX:XXX, each field value range 0~255.		
Source IP Mask	Format XXX:XXX:XXX, each field value range 0~255.		
Destination IP	Format XXX:XXX:XXX, each field value range 0~255.		



Destination IP Mask	Format XXX:XXX:XXX, each field value range 0~255.		
Protocol	Value range 0~255.		
Action	Value range Deny/Permit/Queue Mapping/CoS Marking/Copy Frame.		
Type = L4PORT			
Protocol	Value range TCP/UDP.		
Source IP	Format XXX:XXX:XXX, each field value range 0~255.		
Source IP Mask	Format XXX:XXX:XXX, each field value range 0~255.		
Port	Source IP Port, value range 0~65535.		
Destination IP	Format XXX:XXX:XXX, each field value range 0~255.		
Destination IP Mask	Format XXX:XXX:XXX, each field value range 0~255.		
Port	Source IP Port, value range 0~65535.		
Action	Value range Deny/Permit/Queue Mapping/CoS Marking/Copy Frame.		
Type = ToS			
Source IP	Format XXX.XXX.XXX, each field value range 0~255.		
Source IP Mask	Format XXX.XXX.XXX, each field value range 0~255.		
Destination IP	Format XXX.XXX.XXX, each field value range 0~255.		
Destination IP Mask	Format XXX.XXX.XXX, each field value range 0~255.		
ToS Type	Value range Precedence/ToS/DSCP/Any,0~7 in Precedence,0~15 in ToS,0~63 in DSCP.		
Action	Value range Deny/Permit/Queue Mapping/CoS Marking/Copy Frame.		



2.3.10.3 Binding

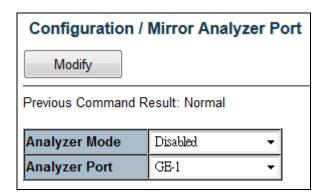
Configuration / ACL Binding

Port	rt Profile Index Default ACL Rule		Modify
GE-1	1 🔻	Permit ▼	Modify
GE-2	1 🔻	Permit ▼	Modify
GE-3	1 🔻	Permit ▼	Modify
GE-4	1 🔻	Permit ▼	Modify
GE-5	1 🔻	Permit ▼	Modify
GE-6	1 🔻	Permit ▼	Modify
GE-7	1 🔻	Permit ▼	Modify
GE-8	1 🔻	Permit ▼	Modify
GE-9	1 🔻	Permit ▼	Modify
GE-10	1 🔻	Permit ▼	Modify
GE-11	1 •	Permit 🔻	Modify

Operation	Modify:	
	Modify the configuration.	
	2. Click "Modify" button to apply change.	
Field	Description	
Port	Giga Port, GE-1 ~ MAX Number of Port.	
Profile Index	ACL Profile Index, range is 1 ~ MAX SIZE of profile, default is 1.	
Default ACL Rule	ACL Default Rule, could be Permit/Deny, default is Permit.	



2.3.10.4 Mirror Analyzer Port



Operation	Modify:	
	Modify the configuration.	
	2. Click "Modify" button to apply change.	
Field	Description	
Analyzer Mode	Enabled/Disabled, default is Disabled.	
Analyzer Port	Giga Port GE-1 ~ MAX Number of Port, default is GE-1.	



2.3.11 Shaper

2.3.11.1 Port Shaper

Config	Configuration / Port Shaper				
Previous (Command Re	esult: Norma	ıl		
Port	Mode	Rate (Kbps)	Modify		
GE-1	Disabled ▼	1000000	Modify		
GE-2	Disabled 🔻	1000000	Modify		
GE-3	Disabled 🔻	1000000	Modify		
GE-4	Disabled 🔻	1000000	Modify		
GE-5	Disabled 🔻	1000000	Modify		
GE-6	Disabled 🔻	1000000	Modify		
GE-7	Disabled 🔻	1000000	Modify		
GE-8	Disabled 🔻	1000000	Modify		
GE-9	Disabled 🔻	1000000	Modify		
GE-10	Disabled 🔻	1000000	Modify		
GE-11	Disabled 🔻	1000000	Modify		

Operation	Modify:	
	Modify the configuration.	
	2. Click "Modify" button to apply change.	
Field	Description	
Port	Bridge port, range is 1 ~ MAX Number of Port.	
Mode	Enabled/Disabled, default is Disabled.	
Rate (Kbps)	Rate range is 1~1000000 Kbps, default is 1000000 Kbps.	



2.3.11.2 Queue Shaper

Configuration / Queue Shaper

ID	Mode	Queue 0~3 (Rate)					ue 4~7 ate)		Modify	
GE-1	Disabled 🔻	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-2	Disabled 🔻	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-3	Disabled 🔻	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-4	Disabled 🔻	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-5	Disabled 🔻	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-6	Disabled 🔻	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-7	Disabled 🔻	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-8	Disabled 🔻	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-9	Disabled 🔻	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-10	Disabled 🔻	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-11	Disabled 🔻	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-12	Disabled 🔻	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify
GE-13	Disabled 🔻	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	Modify

Operation	Modify:		
	Modify the configuration.		
	2. Click "Modify" button to apply change.		
Field	Description		
ID	Bridge port, range is 1 ~ MAX Number of Port.		
Mode	Option: Enabled/Disabled, default is Disabled.		
Queue 0~3 (Rate)	Queue 0~3, rate range is 1~1000000 Kbps, default is 1000000 Kbps.		
Queue 4~7 (Rate)	Queue 4~7, rate range is 1~1000000 Kbps, default is 1000000 Kbps.		



2.3.12 Queue & Scheduler

2.3.12.1 CoS & Queue Mapping

Configuration / CoS & Queue Mapping Modify			
CoS Number	Queue Number		
CoS 0	Queue 0 ▼		
CoS 1	Queue 1 ▼		
CoS 2	Queue 2 ▼		
CoS 3	Queue 3 ▼		
CoS 4	Queue 4 ▼		
CoS 5	Queue 5 ▼		
CoS 6	Queue 6 ▼		
CoS 7	Queue 7 🔻		

Operation	Modify:			
	Modify the configuration.			
	2. Click "Modify" button to apply change.			
Field	Description			
CoS 0	Queue 0~7, default is Queue 0.			
CoS 1	Queue 0~7, default is Queue 1.			
CoS 2	Queue 0~7, default is Queue 2.			
CoS 3	Queue 0~7, default is Queue 3.			
CoS 4	Queue 0~7, default is Queue 4.			
CoS 5	Queue 0~7, default is Queue 5.			
CoS 6	Queue 0~7, default is Queue 6.			
CoS 7	Queue 0~7, default is Queue 7.			



2.3.12.2 Scheduler Profile

Configuration / Scheduler Profile

Index	Mode	Queue 0~3 Weight			Queue 4~7 Weight			Modify		
1	SP	1	1	1	1	1	1	1	1	NA
2	SP ▼	1	1	1	1	1][1][1	1	Modify
3	SP ▼	1	1	1	1	1	1][1	1	Modify
4	SP ▼	1	1	1	1	1	1][1	1	Modify
5	SP ▼	1	1	1	1	1	1	1	1	Modify
6	SP ▼	1	1	1	1	1	1	1	1	Modify
7	SP ▼	1	1	1	1	1	1	1	1	Modify
8	SP ▼	1	1	1	1	1	1	1	1	Modify

Operation	Modify:	
	Modify the configuration.	
	2. Click "Modify" button to apply change.	
Field	Description	
Index	Value range is 1~8.	
Mode	Option: SP/SPWRR/WRR, default is SP.	
Queue 0~3 weight	Queue 0~3 Weight, range is 1~255, default is 1.	
Queue 4~7 weight	Queue 4~7 Weight, range is 1~255, default is 1.	



2.3.12.3 Binding

Configuration / Scheduler Binding

Port	Profile Index	Modify
GE-1	1 •	Modify
GE-2	1 •	Modify
GE-3	1 •	Modify
GE-4	1 -	Modify
GE-5	1 -	Modify
GE-6	1 -	Modify
GE-7	1 •	Modify
GE-8	1 •	Modify
GE-9	1 •	Modify
GE-10	1 •	Modify
GE-11	1 •	Modify
GE-12	1 •	Modify
GE-13	1 •	Modify

Operation	Modify:		
	Modify the configuration.		
	2. Click "Modify" button to apply change.		
Field	Description		
Port	Siga Port GE-1 ~ MAX Number of Port.		
Profile Index	Range is 1~8, default is 1.		



2.3.13 Storm Control

2.3.13.1 Unknown Unicast Control

	Configuration / Unknown Unicast Control Previous Command Result: Normal				
Port	Mode	Modify			
GE-1	Forward •	Modify			
GE-2	Forward •	Modify			
GE-3	Forward •	Modify			
GE-4	Forward •	Modify			
GE-5	Forward •	Modify			
GE-6	Forward •	Modify			
GE-7	Forward •	Modify			
GE-8	Forward •	Modify			
GE-9	Forward •	Modify			
GE-10	Forward •	Modify			

Operation	Modify:1. Modify the configuration.2. Click "Modify" button to apply change.
Field	Description
Port	Giga Port GE-1 ~ MAX Number of Port.
Mode	Forward -> Forward unknown unicast packet (default) Block -> Block unknown unicast packet Rate limit -> Control rate. Rate range is 1~1000000 Kbps, default is 1000000 Kbps.



2.3.13.2 Unknown Multicast Control

Configuration / Unknown Multicast Control

Port	Mode	Modify
GE-1	Forward •	Modify
GE-2	Forward •	Modify
GE-3	Forward •	Modify
GE-4	Forward •	Modify
GE-5	Forward •	Modify
GE-6	Forward •	Modify
GE-7	Forward •	Modify
GE-8	Forward •	Modify
GE-9	Forward •	Modify
GE-10	Forward •	Modify

Operation	Modify:	
	Modify the configuration.	
	2. Click "Modify" button to apply change.	
Field	Description	
Port	Giga Port GE-1 ~ MAX Number of Port.	
Mode	Forward -> Forward unknown unicast packet (default)	
	Block -> Block unknown unicast packet	
	Rate limit -> Control rate.	
	Rate range is 1~1000000 Kbps, default is 1000000 Kbps.	



2.3.13.3 Broadcast Control

Configuration / Broadcast Control Previous Command Result: Normal			
Port	Mode		Modify
GE-1	Forward •		Modify
GE-2	Forward •		Modify
GE-3	Forward •		Modify
GE-4	Forward •		Modify
GE-5	Forward •		Modify
GE-6	Forward •		Modify
GE-7	Forward •		Modify
GE-8	Forward •		Modify
GE-9	Forward •		Modify
GE-10	Forward •		Modify

Operation	Modify:	
	Modify the configuration.	
	2. Click "Modify" button to apply change.	
Field	Description	
Port	Giga Port GE-1 ~ MAX Number of Port.	
Mode	Forward -> Forward broadcast packet (default)	
	Block -> Block broadcast packet	
	Rate limit -> Control rate.	
	Rate range is 1~1000000 Kbps, default is 1000000 Kbps.	



2.3.13.4 Unknown Unicast by VLAN

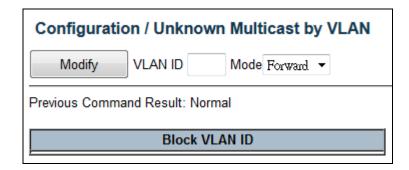
Configuration / Unknown Unicast by VLAN

Modify	VLAN ID	Mode Forward	▼
Previous Command Result: Normal			
Block VLAN ID			

Operation	Modify: 1. Fill VLAN ID
	Change Mode
	3. Click "Modify" button to apply change
Field	Description
VLAN ID	Value range is 1~4094.
Mode	Forward -> Forward unicast packet (default). Block -> Block unicast packet.
Block VLAN ID	All blocked VLAN ID



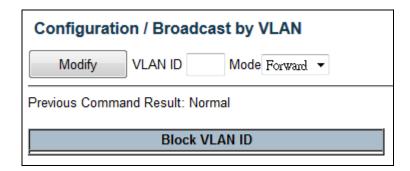
2.3.13.5 Unknown Multicast by VLAN



Operation	Modify:	
	1. Fill VLAN ID	
	2. Change Mode	
	3. Click "Modify" button to apply change	
Field	Description	
VLAN ID	Value range is 1~4094.	
Mode	Forward -> Forward unknown multicast packet (default). Block -> Block unknown multicast packet.	
Block VLAN ID	All blocked VLAN ID	



2.3.13.6 Broadcast by VLAN

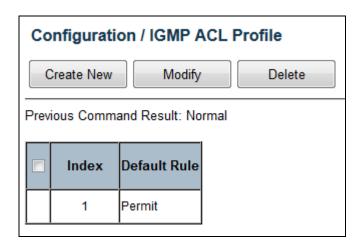


Operation	Modify:
	1. Fill VLAN ID
	2. Change Mode
	3. Click "Modify" button to apply change
Field	Description
VLAN ID	Value range is 1~4094.
Mode	Forward -> Forward broadcast packet (default). Block -> Block broadcast packet.
Block VLAN ID	All blocked VLAN ID



2.3.14 IGMP

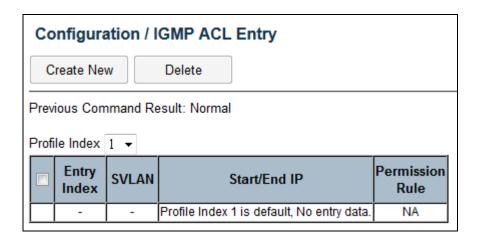
2.3.14.1 ACL Profile



Operation	Create New:	
	Click "Create New" button to create a default profile.	
	2. Click "Modify" button to modify existing profile.	
	Modify (allow multiple selection):	
	Check up Profile Index and select Default Rule for profile.	
	2. Click "Modify" button to modify IGMP ACL Profile.	
	Delete:	
	Click Delete button to delete profile. (also allow multiple delete)	
	If profile is in use, delete action will be failed.	
Field	Description	
Profile Index	IGMP ACL Profile Index: 1~15,	
Profile flidex	but profile 1 is default existing and read-only.	
Default Rule	IGMP ACL Default rule: Permit/Deny.	
Delault Male	Default is permit.	



2.3.14.2 ACL Entry



Operation	<u>Create:</u>	
	Click "Create New" button to open new page for create.	
	2. Fill Entry Index, SVLAN, Start IP, End IP and select Permission Rule.	
	3. Click "Apply" button to create IGMP ACL entry or click "Cancel" to cancel create.	
	Delete:	
	Check up target entry, click Delete button to delete them. (also allow multiple delete)	
	Refresh:	
	1. Select Profile index.	
	Click "Refresh" button to refresh current IGMP ACL profile entry(s).	
Field	Description	
Profile Index	IGMP ACL profile index.	
Frome maex	Index range is 2~15.	
Entry Index	IGMP ACL entry index.	
Lift y index	Range is 1~32.	
SVLAN	IGMP ACL VLAN: VLAN to be Permitted/Denied, 0 is any VLAN.	
	IGMP ACL Start IP address.	
Start IP ~ End IP	Range: 224.0.1.0 - 239.255.255.255	
	Start IP address <= End IP address	
Permission Rule	IGMP ACL entry parameter.	
r eriiiissioii Nuie	Default is Permit.	



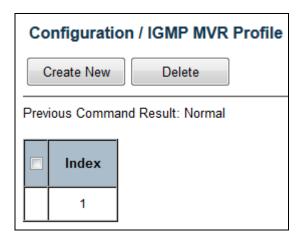
2.3.14.3 ACL Binding

Co	Configuration / IGMP ACL Binding				
	Modify				
Prev	ious Comm	and Result: Norma	al		
	Port	Profile Index	Max Channel		
	GE-1	1 •	512		
	GE-2	1 🔻	512		
	GE-3	1 🔻	512		
	GE-4	1 🔻	512		
	GE-5	1 •	512		
	GE-6	1 •	512		
	GE-7	1 •	512		
	GE-8	1 •	512		
	GE-9	1 •	512		
	GE-10	1 •	512		
	GE-11	1 •	512		
	GE-12	1 •	512		
	GE-13	1 •	512		

Operation	Modify:	
	Check up the rows to be modified, select ACL Profile and set Max channel.	
	2. Click "Modify" button to change IGMP ACL Binding.	
Field	Description	
Port	GE Port: 1 ~ MAX Number of Port.	
Profile Index	IGMP ACL profile index: 1~15. Default is 1.	
Max channel	Port Max channel. Range is 1~512. Default is 512.	



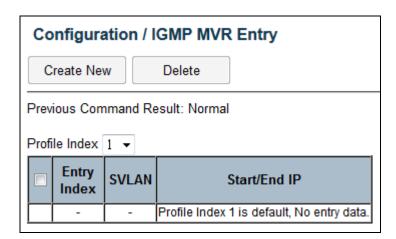
2.3.14.4 MVR Profile



Operation	Create:	
	Click "Create New" button to create a new profile.	
	Modify:	
	1. Check up Profile Index.	
	2. Click the Profile Index hyper link to open page for profile entry modification.	
	[or click "Delete" delete Profile, allow multiple delete. If profile is in use, delete action	
	will be failed.]	
Field	Description	
Profile Index	Profile 1 is default existing and read-only,	
	IGMP MVR Profile 2~15 allow to create.	



2.3.14.5 MVR Entry



Operation	Create New:		
	Click "Create New" button to open new page for create.		
	2. Fill Entry Index, SVLAN, Start IP, End IP.		
	3. Click "Apply" button to create IGMP MVR entry or click "Cancel" to cancel create.		
	Delete:		
	Check up target entry, click Delete button to delete them. (also allow multiple delete)		
	Refresh:		
	Change the Profile Index to refresh the data.		
Field	Description		
Profile Index	IGMP MVR profile index.		
	Index range is 2~15.		
Entry Index	IGMP MVR entry index.		
Lift y index	Range is 1~32.		
SVLAN	IGMP MVR VLAN: VLAN to be Permitted/Denied, 0 is any VLAN		
	IGMP MVR Start IP address.		
Start IP ~ End IP	Range: 224.0.1.0 - 239.255.255.255		
	Start IP address <= End IP address		



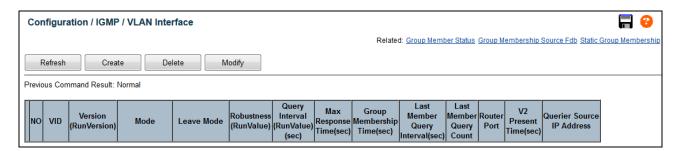
2.3.14.6 MVR Binding

	Configuration / IGMP MVR Binding							
	Modify							
ı	Previous Command Result: Normal							
		Port	Profile Index					
		GE-1	1 🔻					
		GE-2	1 -					
		GE-3	1 -					
		GE-4	1 -					
		GE-5	1 -					
		GE-6	1 -					
		GE-7	1 -					
		GE-8	1					
		GE-9	1 🔻					
		GE-10	1					
		GE-11	1 •					
		GE-12	1 •					
		GE-13	1 •					
		GE-14	1 •					

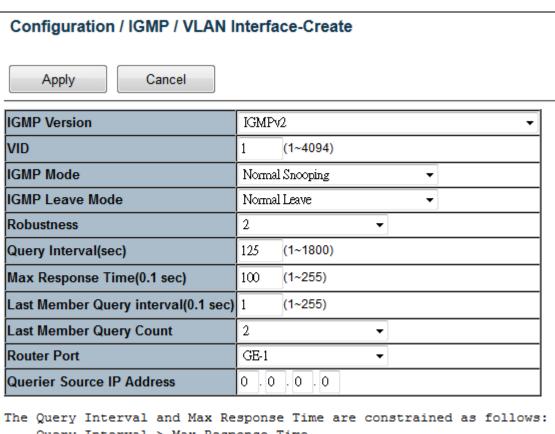
Operation	Modify:	
	Check up the rows to be modified, select MVR Profile.	
	2. Click "Modify" button to change IGMP MVR Binding.	
Field	Description	
Port	GE Port: 1 ~ MAX Number of Port	
Profile Index	IGMP MVR profile index.	
	Value range is 1~15.	
	Default is 1.	



2.3.14.7 VLAN Interface



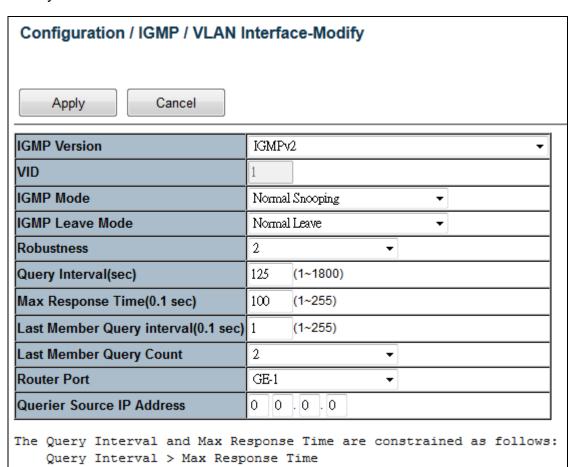
Create



Query Interval > Max Response Time



Modify



Operation	Refresh:
	Refresh to get current data.
	<u>Create</u> :
	Into Create web page.
	2. Setting data
	3. Click "Apply" to setting data or click "Cancel" to cancel setting data.
	Delete:
	Delete current selected row data.
	Modify:
	1. Into Modify web page.
	2. Setting data
	Click "Apply" to setting data or click "Cancel" to cancel setting data.
Field	Description

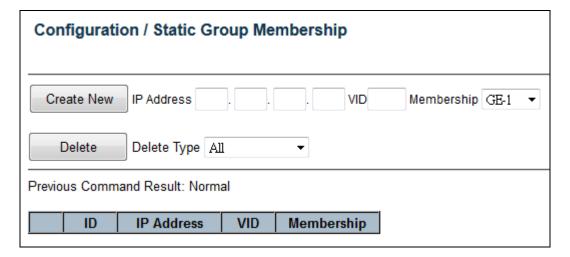


NO	Entry Index, max 64.
VID	VLAN ID (1~4094)
Version	IGMP Version: IGMPv2 or IGMPv3.
Run Version	Current running IGMP version.
Mode	IGMP Access Mode: Normal Snooping (default) or Proxy.
Leave Mode	IGMP Leave Mode: Normal Leave (default) or Fast Leave.
Robustness	IGMP VLAN robustness variable. (1~3)
Robustness Run Value	Display QRV value or configured value: To support QRV and QQIC in IGMPv3 mode. Industrial Ethernet Switch support 2 parameters to represent the running Robustness Variable and running Query Interval. These 2 parameters is support for each IGMP VLAN interface. When IGMPv3 proxy mode, these 2 value will apply the value which get from IGMPv3 Query packet. In other mode, the value is applied the configured value.
Query Interval (sec)	IGMP VLAN query interval.(unit: sec) Default: 125 seconds Limitation: Query Interval>Max Response Time
Query Interval Run Value (sec)	Display QQIC value or configured value: To support QRV and QQIC in IGMPv3 mode. Industrial Ethernet Switch support 2 parameters to represent the running Robustness Variable and running Query Interval. These 2 parameters is support for each IGMP VLAN interface. When IGMPv3 proxy mode, these 2 value will apply the value which get from IGMPv3 Query packet. In other mode, the value is applied the configured value
Max Response Time	IGMP VLAN max response time. Default: 10.0 seconds. (Display in second, configure it with 0.1 second) The Query Interval and Max Response Time are constrained as follows: Query Interval > Max Response Time
Group Membership Time	IGMP Group Membership Time (Unit: sec) Read-only
Last Member Query Interval	IGMP VLAN last member query interval. (Display in second, configure it with 0.1 second) Default: 0.1 second
Last Member Query Count	IGMP VLAN last member query count, range 1~3. Default: 2



Router Port	IGMP VLAN interface:
	Bridge port:GE-1 ~ Port MAX Number.
	Default value is 1
V2 Present Time(sec)	Read-only, it can be tuned by (last RunQueryInterval *10*robustness + maxRespTime)
Querier Source IP	Querier Source IP Address. Default: 0.0.0.0
Address	

2.3.14.8 Static Group Membership

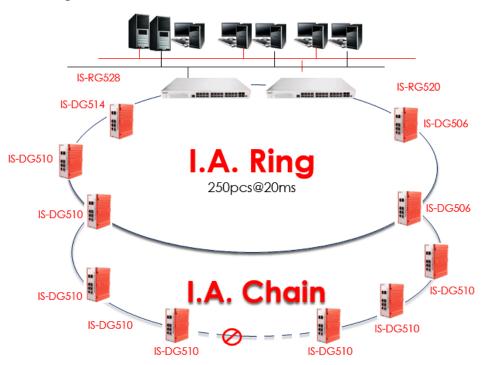


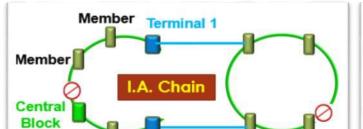


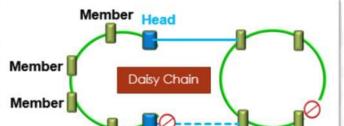
Operation	Create New:
	Fill IP Address, VID and select Membership.
	2. Click "Create New" button to create new data.
	Delete:
	Select Delete Type "All/ Membership/ VID/ Selected"
	2. If delete type is "Port", then select a port
	3. If delete type is "VID", then fill a VID
	4. If delete type is "Selected", then select one row
	5. Click "Delete" button to delete data.
Field	Description
ID	Entry Index, value range is 1~128.
IP Address	Group Membership IP Address, range is 224.0.0.0~239.255.255.255
VID	VLAN ID, range is 1 ~ 4094.
Membership	Giga Port, GE-1 ~ MAX Number of Port.

2.3.15 IA.Ring/Chain

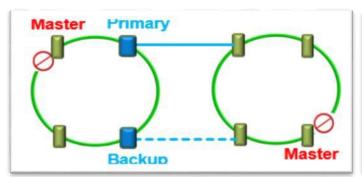
I.A Ring & Chain Configuration

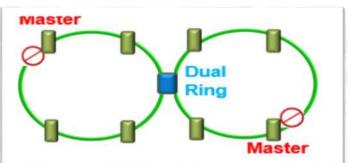


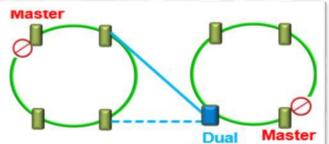




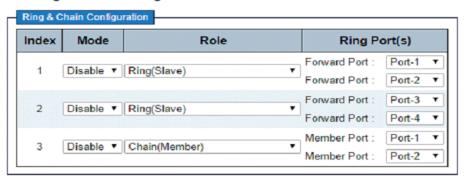








I.A. Ring & Chain Configuration



Save Reset

Object	Description
Index	The group index. This parameter is used for easy identifying the ring when user configure it.
	Group 1 (Index 1) - It supports configuration of ring.
	Group 2 (Index 2) - It supports configuration of ring, coupling and dual-homing.
	Group 3 (Index 3) - It supports configuration of chain and balancing-chain.
Mode	Enable Ring on the specific group.
	When Group 1 or 2 is enabled, all configuration of Group 3 will be reset to default. Group 3 all



	configuration options will be locked.
	To configure Group 3, both Group1 and 2 should be disabled first. When Group 3 is enabled,
	all configuration of Group1 and 2 will be reset to default. Group 1 and 2 all configuration
	options will be locked.
Role	Configure the Ring group on this switch as specific role.
	Group 1 - support option of ring-master and ring-slave.
	# Ring - it could be master or slave.
	Group 2 - support configuration of the ring, coupling and dual-homing.
	# Ring - it could be master or slave.
	# Coupling - it could be primary and backup.
	# Dual-Homing
	Group 3 - support configuration of the chain and balancing-chain.
	# Chain - it could be head, tail or member.
	# Balancing Chain - it could be central-block, terminal-1/2 or member.
	Note 1 - Group 1 must be enabled before enable Group 2 to coupling.
	Note 2 - When Group 1 or 2 is enabled, the configuration of Group 3 will be disabled.
	Note 3 - When Group 3 is enabled, the configuration of Group 1 and 2 will be
	disabled.
Ring	Selecting ring port(s).
Port(s)	Each ring port must be unique, CANNOT be configured in different groups; 2 ring ports
	between ring/chain CANNOT be the same.
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
	# When role is ring/master, one ring port is forward port and another is block port . The
	block port is redundant port; it is blocking port in normal state.
	# When role is ring/slave, both ring ports are forward port .
	# When role is coupling/primary, only need one ring port named primary port.
	# When role is coupling/backup, only need one ring port named backup port. This backup
	port is redundant port; it is blocking port in normal state.
	# When role is dual-homing, one ring port is primary port and another is backup port . This
	backup port is redundant port; it is blocking port in normal state.



When role is chain/head, one ring port is **member port**and another is **head port**. Both ring ports are forwarding port in normal state.

When role is chain/tail, one ring port is **member port** and another is **tail port**. The tail port is redundant port; it is blocking port in normal state.

When role is chain/member, both ring ports are **member port**. Both ring ports are forwarding port in normal state.

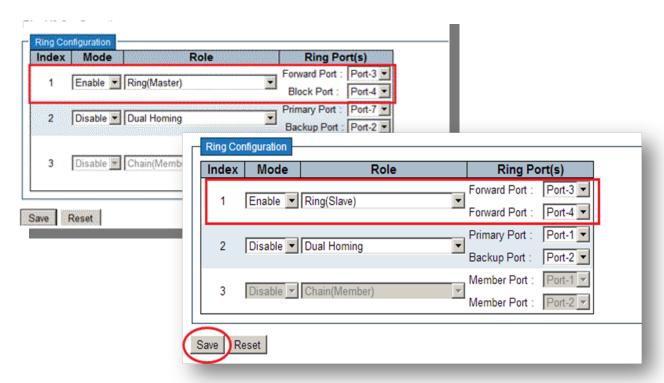
When role is balancing-chain/central-block, one ring port is **member port** and another is **block port**. The block port is redundant port; it is blocking port in normal state.

When role is balancing-chain/terminal-1/2, one ring port is **member port** and another is **terminal port**. Both ring ports are forwarding port in normal state.

When role is balancing-chain/member, both ring ports are **member port**. Both ring ports are forwarding port in normal state.

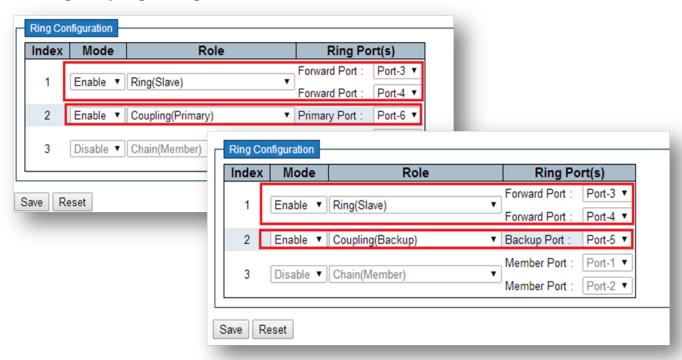
Buttons	
Save	Click to save changes.
Reset	Click to undo any changes made locally and revert to previously saved values.

I.A.Ring Configuration

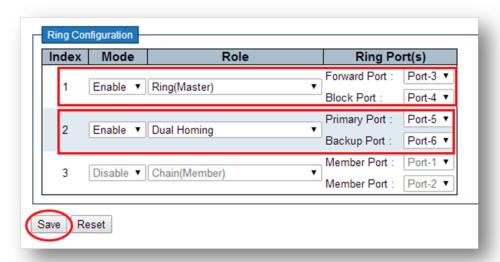




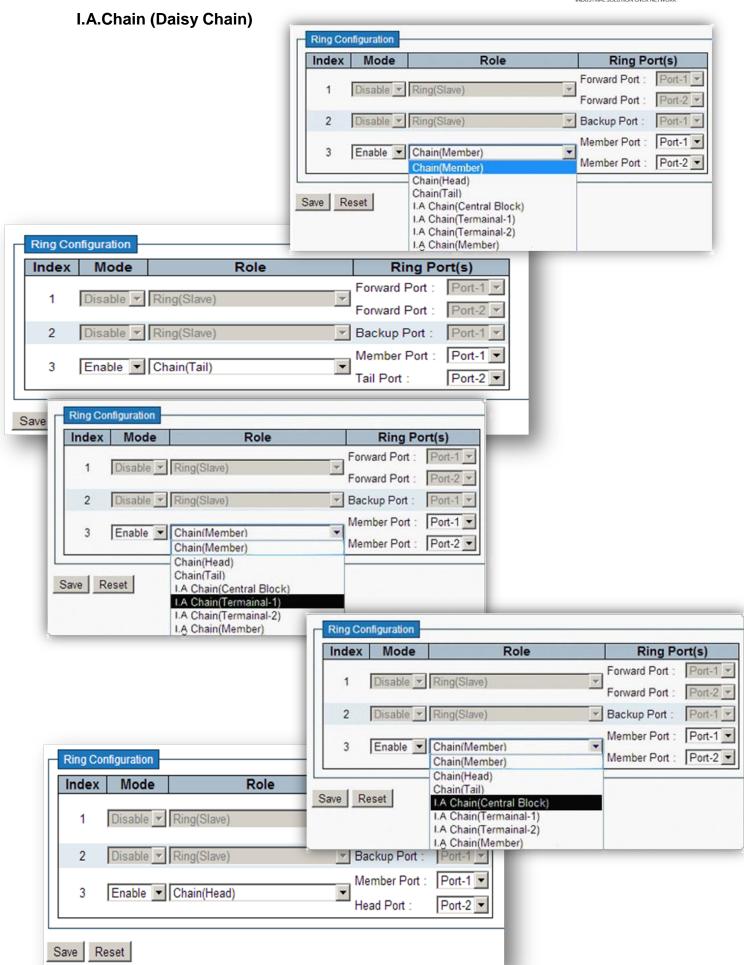
Ring Coupling Configuration

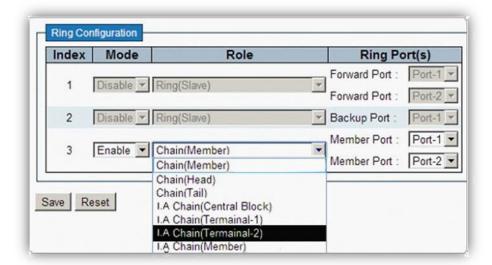


Dual Homing Configuration







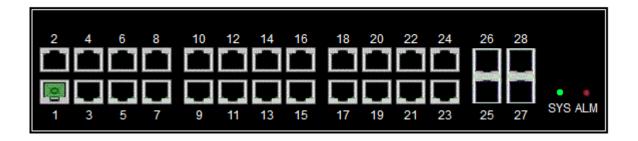




2.4.1 Front Panel

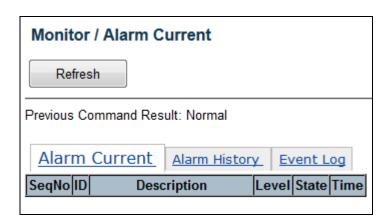
This page still can't display the real status of system's panel.

Monitor / Front Panel



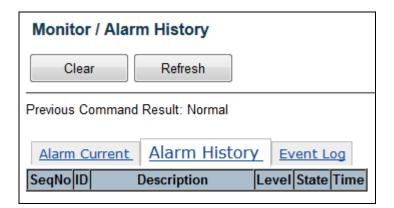
2.4.2 Alarm/Event

Alarm Current

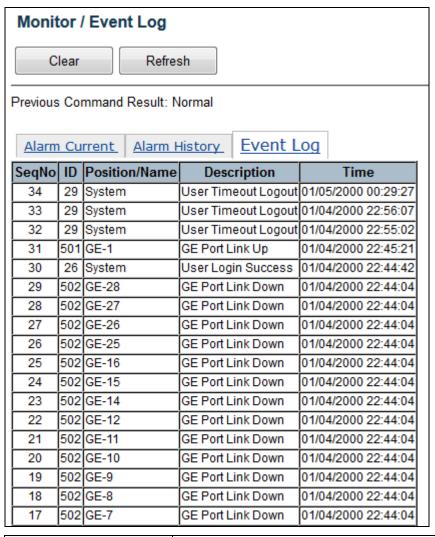


Alarm History





Event Log

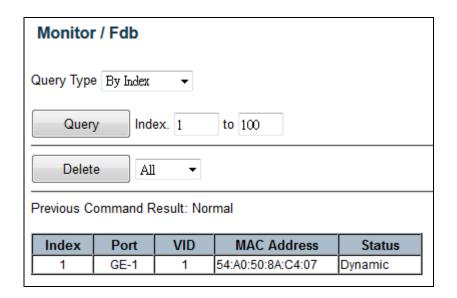


Operation	Refresh:
	Click "Refresh" button to refresh data.



	Clear:
	1. Click "Clear" to clear data.
Field	Description
SeqNo	Alarm/Event Sequential Number.
ID	Alarm/Event Type ID.
Description	Alarm/Event Type Description.
Position/Name	Event Position/Name.
Level	No matter alarm is major/minor, Alarm LED color always be red.
State	Alarm State. Value is Set/Cleared.
Time	Time.

2.4.3 Fdb

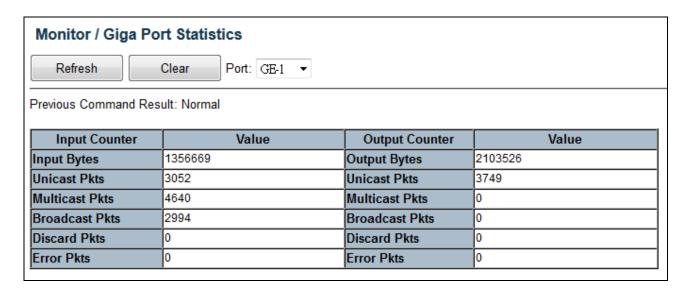


Operation	Query:
	Select a Query Type
	2. Fill query condition
	3. Modify query record range
	4. Click "Query" button to query
	Delete:
	Select delete type (All/ By VID/By Port)



	2. Fill delete condition
	3. Click "Delete" to delete data.
Field	Description
Port	GE-1 ~ MAX Number of Port or Trunk Group.
VID	VLAN ID: 1~4094
MAC Address	Format xx:xx:xx:xx:xx
Status	Data type: Dynamic/ Static

2.4.4 Giga Port Statistics



Operation	Refresh:
	Fill query condition (Port)
	Refresh current data.
	Clear:
	Select clear port.
	2. Click "Clear" to clear setting port data.
Field	Description
Port	Range: GE-1 ~Maximum Number of Port.
Input Bytes	The total number of octets received on the interface, including framing characters.

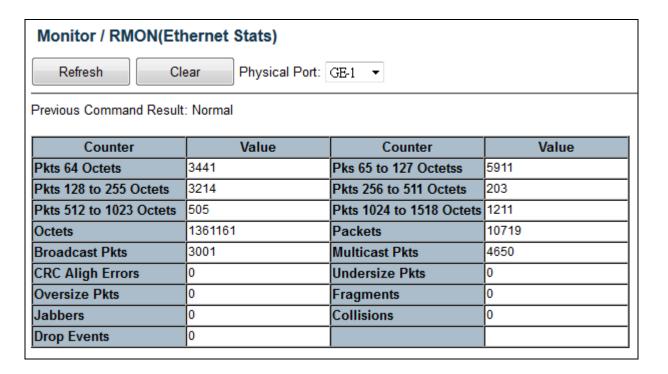


Input Unicast Pkts	The number of packets, delivered by this sub-layer to a higher (sub-) layer, which were
input officust i kis	not addressed to a multicast or broadcast address at this sub-layer.
	,
Input Multicast Pkts	The number of packets, delivered by this sub-layer to a higher (sub-) layer, which were
	addressed to a multicast address at this sub-layer. For a MAC layer protocol, this
	includes both Group and Functional address.
Input Broadcast Pkts	The number of packets, delivered by this sub-layer to a higher (sub-) layer, which were
	addressed to a broadcast address at this sub-layer.
Input Discard Pkts	The number of inbound packets which were chosen to be discarded even though no
	errors had been detected to prevent their being deliverable to a higher-layer protocol.
	One possible reason for discarding such a packet could be to free up buffer space.
Input Error Pkts	For packet-oriented interfaces, the number of inbound packets that contained errors
	preventing them from being deliverable to a higher-layer protocol. For character-oriented
	or fixed-length interfaces, the number of inbound transmission units that contained
	errors preventing them from being deliverable to a higher-layer protocol.
Output Buton	The total number of estate transmitted out of the interfere including framing sharesters
Output Bytes	The total number of octets transmitted out of the interface, including framing characters.
Output Unicast Pkts	The total number of packets that higher-level protocols requested be transmitted, and
	which were not addressed to a multicast or broadcast address at this sub-layer,
	including those that were discarded or not sent.
Output Multicast Pkts	The total number of packets that higher-level protocols requested be transmitted, and
	which were addressed to a multicast address at this sub-layer, including those that were
	discarded or not sent. For a MAC layer protocol, this includes both Group and Functional
	address.
Output Broadcast Pkts	The total number of packets that higher-level protocol requested be transmitted, and
	which were addressed to a broadcast address at this sub-layer, including those that
	were discarded or not sent.
Output Discard Pkts	The number of outbound packets which were chosen to be discarded even though no
	errors had been detected to prevent their being transmitted. One possible reason for
	discarding such a packet could be to free up buffer space.
Output Error Pkts	For packet-oriented interfaces, the number of outbound packets that could not be
	transmitted because of errors. For character-oriented or fixed-length interfaces, the
	number of outbound transmission units that could not be transmitted because of errors.





2.4.5 **RMON**



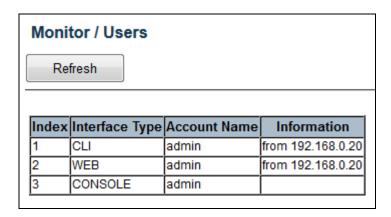
Operation	Refresh:
	Click "Refresh" button to refresh current data.
	Clear:
	1. Select clear port.
	2. Click "Clear" to clear setting physical port data.
Field	Description
Pkts 64 Octets	Total number of packets (including bad packets) received that were 64 octets in length.
Pkts 65 to 127 Octets	Total number of packets (including bad packets) received that were between 65 and 127 octets in length.
Pkts 128 to 255 Octets	Total number of packets (including bad packets) received that were between 128 and 255 octets in length.
Pkts 256 to 511 Octets	Total number of packets (including bad packets) received that were between 256 and 511 octets in length.



Pkts 512 to 1023 Octets	Total number of packets (including bad packets) received that were between 512 and 1023 octets in length.
Pkts 1024 to 1518 Octets	Total number of packets (including bad packets) received that were between 1024 and 1518 octets in length.
Octets	The total number of octets of data (including those in bad packets) received on the network (excluding framing bits but including FCS octets).
Packets	The total number of packets (including bad packets, broadcast packets, and multicast packets)received
Broadcast Pkts	The total number of good packets received that were directed to the broadcast address. Note that this does not include multicast packets
Multicast Pkts	The total number of good packets received that were directed to a multicast address. Note that this number does not include packets directed to the broadcast address.
CRC Align Errors	The total number of packets received that had a length (excluding framing bits, but including FCS octets) of between 64 and 1518 octets, inclusive, but had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).
Undersize Pkts	The total number of packets received that were less than 64 octets long (excluding framing bits, but including FCS octets) and were otherwise well formed.
Oversize Pkts	The total number of packets received that were longer than 1518 octets (excluding framing bits, but including FCS octets) and were otherwise well formed.
Fragments	The total number of packets received that were less than 64 octets in length (excluding framing bits but including FCS octets) and had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).
Jabbers	The total number of packets received that were longer than 1518 octets (excluding framing bits, but including FCS octets), and had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).
Collisions	The best estimate of the total number of collisions on this Ethernet segment.
Drop Events	The total number of events in which packets were dropped by the probe due to lack of resources. Note that this number is not necessarily the number of packets dropped; it is just the number of times this condition has been detected.



2.4.6 Users



Operation	Refresh:	
	Click "Refresh" button to refresh current data.	
Field	Description	
Index	Show the index of login user list.	
Interface Type	Show the mode of access. Possible values Console, CLI, Web.	
Account Name	Show the account name of the user.	
Information	Show more information about the user, including IP address of the management host.	



2.4.7 I.A. Ring & Chain Status

Monitor / I.A. Ring & Chain Status

Refresh

Previous Command Result: Normal

I.A. Ring & Chain Status

Group index	Mode	State	Role	Ring Port(s)
1	Disabled		Ring(Slave)	
2	Disabled		Ring(Slave)	
3	Disabled		Chain(Member)	

Operation	Refresh:	
	Click "Refresh" button to refresh current data.	
Field	Description	
Group Index	The group Index. This parameter is used for easy to identify the ring when use to configure it.	
Mode	It indicates whether the ring is enabled.	
Role	It indicates that the ring is configured to what role.	
State	When ring is completeness, it will show "Normal".	
	When ring is not completeness, at least one link is down, it will show "Fail".	
Ring Port(s)	Describes current status of ring port(s).	



2.4.8 802.1x

2.4.8.1 PAE Port Status

Monitor/ 802.1x / PAE Port Status

Refresh

Previous Command Result: Normal

Protocol Version: 2, Capability: Authenticator

Port	PAE State	Backend State	Port Status	Initiating	Re-Initialize	Re-Authenticate
1	Disconnected	Idle	Authorized	Disabled	Enable	Enable
2	Disconnected	Idle	Authorized	Disabled	Enable	Enable
3	Disconnected	Idle	Authorized	Disabled	Enable	Enable
4	Disconnected	Idle	Authorized	Disabled	Enable	Enable
5	Disconnected	Idle	Authorized	Disabled	Enable	Enable
6	Disconnected	Idle	Authorized	Disabled	Enable	Enable
7	Disconnected	Idle	Authorized	Disabled	Enable	Enable
8	Disconnected	Idle	Authorized	Disabled	Enable	Enable
9	Disconnected	Idle	Authorized	Disabled	Enable	Enable

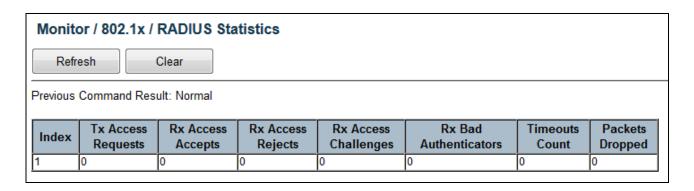
Operation	Refresh:	
	Click "Refresh" button to refresh current data.	
Field	Description	
Port	The index of PAE Port: Value Range 1 ~ MAX Number of Port.	
PAE State	The authenticator status of PAE port: Possible state: Initialize Disconnected	



	INDUSTRIAL SOLUTION OVER NETWORK
	Authenticating
	Authenticated
	Aborting
	Held
	Force Auth
	Force Unauth
Backend State	The number of RADIUS Access-Accept received from RADIUS server.
	Range: 0~65535.
Rejects	The backend authenticator status of PAE port.
	Possible state:
	Initialize
	Idle
	Request
	Response
	Success
	Fail
	Timeout
	Ignore
Port Status	The authentication status of PAE port.
	Possible state:
	Authorized/Unauthorized
Initiating	Enable for force PAE port re-initialize.
Re-Initialize	Set Enable to force PAE port re-initialize.
Re-Authenticate	Set Enable to force PAE port re-authenticate.



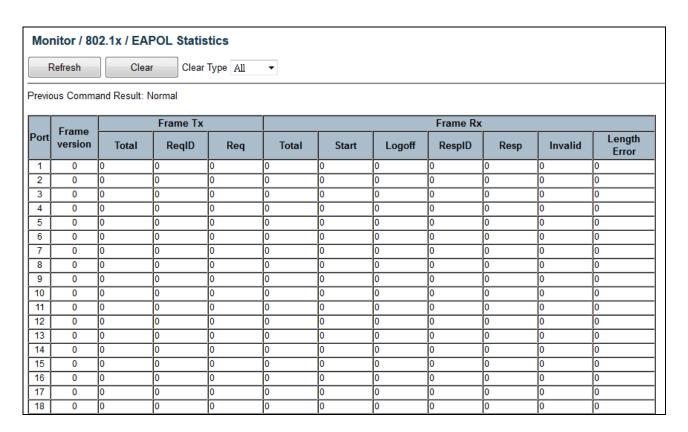
2.4.8.2 RADIUS Statistics



Operation	Refresh:
	Click "Refresh" button to refresh current data.
	<u>Clear:</u>
	Click "Clear" button to reset the counters.
Field	Description
Index	The index of RADIUS Server: Current only support 1 RADIUS server
Requests	The number of RADIUS Access-Request sent to RADIUS server Range 0~65535.
Accepts	The number of RADIUS Access-Accept received from RADIUS server: Range 0~65535.
Rejects	The number of RADIUS Access-Reject received from RADIUS server: Range 0~65535.
Challenges	The number of RADIUS Access-Challenge received from RADIUS server: Range 0~65535.
Bad Authenticators	The number of invalid RADIUS response packet received from RADIUS server: Range 0~65535.
Timeout	The number of server Timeout happens on Backend Authentication state machine: Range 0~65535
Packets Dropped	The number of packet from RADIUS server to be silent drop by Authenticator Range 0~65535



2.4.8.3 EAPOL Statistics



Operation	Clear:	
	1. Select "Clear Type".	
	2. If clear type is "Port", then select port number to be cleared.	
	3. Click "Clear" button.	
Field	Description	
Port	The index of PAE port: Value range 1 ~ MAX Number of port.	
Protocol Version	The protocol version number carried in the most recently received EAPOL frame. Range 0~65535.	
Frame Tx	The number of EAPOL frames of any type that has been transmitted. Range 0~65535.	
Req Id Frame Tx	The number of EAP Req/ld frames that have been transmitted. Range 0~65535.	



Req Frame Tx	The number of EAP Request frames (other than Req/ld frames) that have been transmitted. Range 0~65535.
Frame Rx	The number of valid EAPOL frames of any type that has been received. Range 0~65535.
Start Frame Rx	The number of EAPOL Start frames that have been received. Range 0~65535.
Logoff Frame Rx	The number of EAPOL Logoff frames that have been received. Range 0~65535.
Resp ld Frame Rx	The number of EAP Resp/ld frames that have been received. Range 0~65535.
Resp Frame Rx	The number of valid EAP Response frames(other than Resp/ld frames) that have been received. Range 0~65535.
Invalid Frame Rx	The number of EAPOL frames that have been received by this Authenticator in which the frame type is not recognized. Range 0~65535.
Length Error Frame Rx	The number of EAPOL frames that have been received by this Authenticator in which the Packet Body Length field is invalid. Range 0~65535.



2.4.9 IGMP

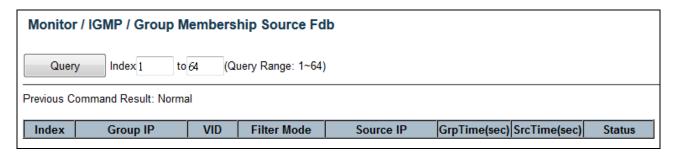
2.4.9.1 Group Membership

Monitor	Monitor / IGMP / Group Membership					
Query Type	By All & Index	•				
Query	Index 1	to 100	(Query Range: 1~	512)		
Delete	All	•				
Previous Co	mmand Result: No	ormal				
Index	IP Address	VID	Filter Mode	Membership	Time (sec)	Status

Operation	Query:	
	 Select Query Type Fill query condition Modify query record range (Index range) Click "Query" button to query data. Delete:	
	 Select Delete Type Fill VLAN ID when delete type is "By VID" Select one membership when delete type is "By Membership" Click "Delete" button to delete data.	
Field	Description	
Index	Index, value range 1~512	
IP Address	Group IP Address.	
VID	VLAN ID, range 1~4094	
Filter Mode	Multicast FDB entry Filter Mode.	
Membership	Bridge Port ID, range GE-1 ~ MAX Number of Port.	
Time (sec)	Remain Time, unit is second	
Status	Group Membership status, Dynamic or Static.	



2.4.9.1 Group Membership Source Fdb

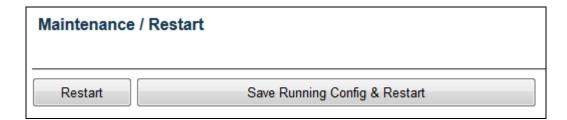


Operation	Query:		
	Select Query Type		
	2. Fill query condition (Index 1~64)		
	3. Click "Query" button to query data.		
Field	Description		
Index	Multicast Source FDB table. Max entry size: 64		
Group IP	Multicast Source FDB group IP address.		
VID	Multicast Source FDB VLAN ID, range 1~4094		
	Multicast Source FDB Filter Mode: Include/Exclude		
Filter Mode	In INCLUDE mode, the GroupRemainTime has no timeout.		
	In EXCLUDE mode, the block list's source has no timeout.		
Source IP	Source IP Address		
CrnTime(coo)	Group Remain Time:		
GrpTime(sec)	if it show "", represents time is 0.		
Constitution (constitution)	Source Remain Time:		
SrcTime(sec)	if it show "", represents time is 0.		
Status	Multicast Source FDB entry type:		
Status	Allow/Block		



2.5 System

2.5.1 Restart



Operation	Restart:
	Click "Restart" button will restart the system
	Save Running Config & Restart:
	Click "Save Running Config & Restart" button will redirect page to "Save & Restore"



2.5.2 Save & Restore

Maintenance / Save & Restore				
Database Control Action: [Select]	▼ Submit			
FTP Server IP				
FTP Account				
FTP Password				
Filename				
Inband DB				
General DB				
Boot inband DB	1 01/12/2000 03:19:50			
Boot general DB	1 01/01/2000 03:37:33			
Set active inband DB	1 01/12/2000 03:19:50			
Set active general DB	1 01/01/2000 03:37:33			
Current Database Status	MEMORY READ SUCCESS			

Operation	Submit:	
	Select Control Action.	
	2. Fill necessary data for action.	
	3. Click "Submit" button to start the instruction.	
Field	Description	
Database Control action	Select Database control.	
	(A)Save Inband configuration and runtime configuration as the active restoration	
	database for next power-on restoration.	
	(B)Restore Inband configuration and control plane configuration by setting another	
	restoration database active.	
	(C)Restore Inband configuration and control plane configuration by setting another	
	restoration database active and system restart.	
	(D)Clear Inband configuration and control plane configuration in the active restoration	
	database.(Warn: runtime configuration is also cleared and Inband configuration is	
	lost)	
	(E)Clear Inband configuration and control plane configuration in the active restoration	
	database and system restart.(Warn: runtime configuration is also cleared and	



INDUSTRIAL SOLUTION OVER NETWORK
Inband configuration. is lost)
(F)Clear control plane configuration in the active restoration database. (runtime
configuration. is also changed.)
(G)Clear control plane configuration in the active restoration database and restart.
(runtime configuration is also changed.)
(H)Export runtime configuration in CLI command format to ftp server.
(I)Export runtime configuration in binary format to ftp server.
(J)Import database in CLI command format from ftp server and set it to the active restoration database.
(K)Import database in CLI command format from ftp server and set it to the active restoration database and system restart.
(L)Import database in binary format from ftp server and set it to the active restoration database.
(M)Import database in binary format from ftp server and set it to the active restoration
database and system restart.
(P)Save running configure to flash replacing the specified backup.
Input FTP Server IP Address
Input FTP Name
Input FTP Password
Input File Name
Inband Backup Name (1 ~ 31 characters)
General Backup Name (1 ~ 31 characters)
Show runningcfg backup



2.5.3 Firmware

	ETD	Information		
mote Server IP		. : 21		
rver User Name				
rver Password				
e Name				
hedule Time 🔲 Enabled			(Format: MM/DD/YYYY HH:MM:SS)	
P Write Flash	FTP Get and	FTP Get and Write Flash Reboot After Remote Download		
	Partiti	on Information		
rtition Location	Current Boot	Next Boot	Description	
rtition:0	YES	YES	00.04.021	
rtition:1			00.04.021	
ange Partition	Partition 0 ▼	Submit		
Note:Upgrading firmware may disconnect this page.				

Operation	FTP Get and Write Flash:			
	Select Schedule time checkbox to setting schedule			
	2. Fill schedule time			
	3. Click "FTP Get and Write Flash" button will load firmware from remote server IP, If the "Reboot After Remote Download" was selected it will restart system when the firmware was changed.			
	Submit:			
	Click "Submit" button will change the partition. The system will use this partition number when the system is restart.			
Field	Description			
Remote Server IP	Type in the IP address of the FTP server where the firmware is stored.			



Server User Name	Type in a user name accepted by the FTP server.
Server Password Type in a password accepted by the FTP server.	
File Name	Type in the name of the firmware file (string length 1 ~ 64).
Schedule Time	Select Enable checkbox and type in the schedule time to update of the firmware file. The time format: MM/DD/YYYY HH:MM:SS
FTP Get and Write Flash	After you have entered the FTP server, user name, password and firmware file name, click on this button to start the firmware update process.
Reboot After Remote Download	Select the checkbox if you want the system reboot automatically once the firmware update is finished.

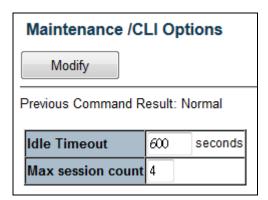
2.5.4 Alarm Profile

Ma	Maintenance / Alarm Profile				
	Modify				
Prev	ious	Command Result: Normal			
	ID	Description	Level	Mask	
	101	GE-1 Port Link Down	Minor ▼	Mask 🔻	
	102	GE-2 Port Link Down	Minor ▼	Mask ▼	
	103	GE-3 Port Link Down	Minor ▼	Mask ▼	
	104	GE-4 Port Link Down	Minor ▼	Mask ▼	
	105	GE-5 Port Link Down	Minor ▼	Mask ▼	
	106	GE-6 Port Link Down	Minor ▼	Mask ▼	
	107	GE-7 Port Link Down	Minor ▼	Mask ▼	
	108	GE-8 Port Link Down	Minor ▼	Mask ▼	
	109	GE-9 Port Link Down	Minor ▼	Mask ▼	
	110	GE-10 Port Link Down	Minor ▼	Mask ▼	
	111	GE-11 Port Link Down	Minor ▼	Mask ▼	
	112	GE-12 Port Link Down	Minor ▼	Mask ▼	
	113	GE-13 Port Link Down	Minor ▼	Mask ▼	
	114	GE-14 Port Link Down	Minor ▼	Mask 🔻	
	115	GE-15 Port Link Down	Minor ▼	Mask ▼	



Operation	Modify:	
	Select Row data checkbox.	
	2. Modify Level and Mask.	
	Note: When any alarm exists, the Alarm LED will be lit, and Alarm Output Relay will	
	also be enabled.	
	Click "Modify" button to modify data.	
Field	Description	
ID	Alarm Type ID.	
Description	Alarm Type Description.	
Level	No matter alarm is major/minor, Alarm LED color always be red.	
Mask	If alarm is masked, then alarm item will not be captured in alarm history/current; SNMP	
	trap either. If specific alarm item is masked, then it will not trigger the Alarm LED on or	
	off.	

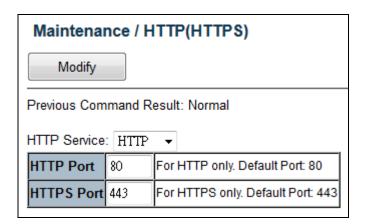
2.5.5 CLI Options



Operation	Modify:
	Modify the configuration.
	2. Click "Modify" button to apply change.
Field	Description
Idle Timeout	Specify the timeout seconds for the operational interface. The session will be closed once the idle time exceeds this timeout value. Value range is 60 ~ 65535. 0 means disable timeout.
Max session count	Specify the maximum allowed sessions for the CLI (command line interface): 1 ~ 10.



2.5.6 HTTP (HTTPS)



Operation	Modify:
	Select HTTP or HTTPS.
	2. Change the port number if necessary.
	3. Click "Modify" button to apply the change.
Field	Description
HTTPS Service	HTTPS / HTTP. Default is HTTP (HTTPS disabled).
HTTPS Port	HTTPS service port. Range: 1~65535, Default Port: 443.
HTTP Port	HTTP service port. Range: 1~65535, Default Port: 80.



2.5.7 SLL

Maintenance / SSL

Upload New

Use Default Certificate

Previous Command Result: Normal

Encrypted Decrypted

SSL Certificate

----BEGIN PRIVATE KEY----

MIICdgIBADANBgkqhkiG9w0BAQEFAASCAmAwggJcAgEAAoGBALuZIvnQQpeyGfuI
MqBTgKX0wOvVUleMMu74nA9sYsC+80rHffhzALuvLYn5AwUNK1NcVRekApHEOJ/g
nPxRUlYtG3aca8wbPxfm3dvrmYFxS2nWbNlBdCGdMxDp4zhf2RlrQ3kihYQ8Tvhx
ZLh7zwWwj+jScI+aVAwNqQdZX7J9AgMBAAECgYEAgiMGX1P4jjEP0yy1KgEjMnzq
Q+9U0sTAJIS0BgMDMoCEV7CyE2L79DbemWLz1FKAtR1NMjwlSCddvJLddC+ZtFvx
XMm8dJ/s8cHMw6iDsVoPjHfxFZyw5dnVP+b9ndX41xRDzK9HzCRAyWD6oDiA8cFF
ep/n8yc+a7UsYw58CUECQQDleRv6urNLPQazsM7L1IRSoTF5dwJldhEKthWnYBSK
FCENRvhicdEjmeUgDQ17qrnwLCnTuAXXBfuuG6IypXktAkEA0UjOdyMmW8Pela/C
jrVi2ZcwsOXWsRII4FAjWF/USfRmP7tet2Qsv1D8wu+FuoIsdvjSDEhXUGnTJ+PL
j+hQkQJAVGfJvN3zmRcnYe0FA8B1s5cLBayauwtElXYIXPpgU7G3vpR+RGetD7VJ
rBJhBT31CryT3gZwT3kp7A7KCGsJ0QJAUKyfIh/DlpYfhFYXSomzTCtS0q4Wn3VT
RJy/sz5liAiVLbYdodYUxb8DYGWSiD3LxCTQW3m7Zr0Ub4kJHDUycQJAXo/qljsm
K+GI1aEiggJ3UtpMAZu/GzUtfkyDEOEymfERhE1+306xPTs8+aXMkwpFy3RAzx/e
1V/RE4+tGbpnuA==

----END PRIVATE KEY----

MIICEzCCAXygAwIBAgIJANvce6aJoJG0MA0GCSqGSIb3DQEBBQUAMEAxCzAJBgNV
BAYTA1BMMRMwEQYDVQQIEwpTb211LVN0YXR1MRwwGgYDVQQKExNNaW5pIFd1YnN1
cnZpY2UgTHRkMB4XDTEyMTIyNjA2MzgxOFoXDTEzMTIyNjA2MzgxOFowQDELMAkG
A1UEBhMCUEwxEzARBgNVBAgTC1NvbWUtU3RhdGUxHDAaBgNVBAoTE01pbmkgV2Vi
c2VydmljZSBMdGQwgZ8wDQYJKoZIhvcNAQEBBQADgY0AMIGJAoGBALuZIvnQQpey
GfuIMqBTgKX0wOvVUleMMu74nA9sYsC+80rHffhzALuvLYn5AwUNK1NcVRekApHE

Operation

Use Default Certificate:

- 1. Click "Use Default Certificate" button.
- 2. System will delete uploaded certificate, if it's exist.
- 3. After delete success, it will show default SSL certificate.

Upload New:

- 1. Click "Upload New" button.
- 2. Copy and Paste both Private Key (privatekey) and Self-Signed SSL Certificate (cert) in the input area.
- 3. The certificate must be in PEM format as the following, otherwise upload would be failed:

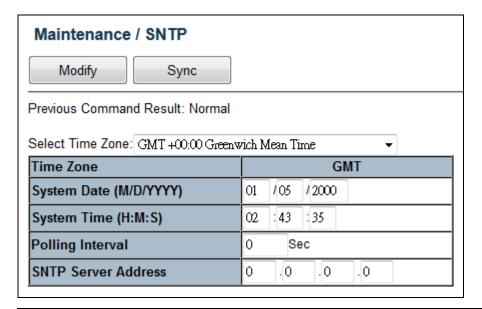
----BEGIN RSA PRIVATE KEY-----

••••



END RSA PRIVATE KEYBEGIN CERTIFICATE
END CERTIFICATE

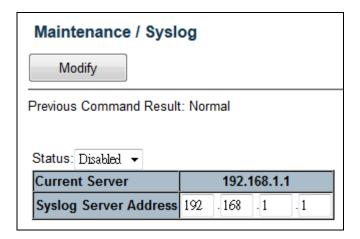
2.5.8 SNTP



Operation	Modify:
	Modify the configuration.
	2. Click "Modify" button to modify data.
	Sync:
	Click "Sync" button to manual synchronize system time from SNTP server.
Field	Description
Select Time zone	Sets the local time zone with Time Zone list. Sixty-six of the world's time zones are
	presented (including those using standard time and summer/daylight savings time).
System Date	Sets system date (mm/dd/yyyy).
System Time	Sets system time (hh:mm:ss).
Polling Interval	Sets polling interval (seconds) that SNTP client will sync with designated SNTP server.
SNTP Server address	Sets SNTP server IP address for your system.



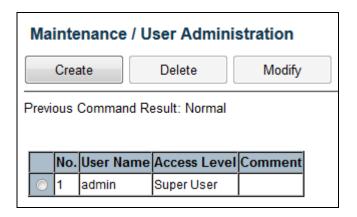
2.5.9 Syslog

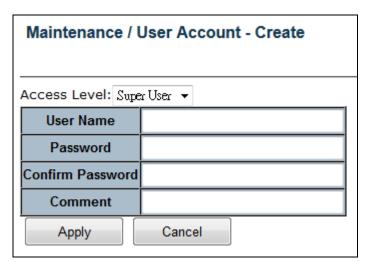


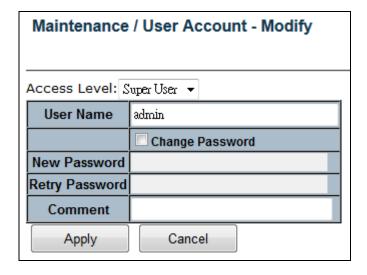
Operation	Modify:	
	Select Enabled/Disabled option and click Modify button to enable Syslog function.	
	2. Modify the configuration.	
	3. Click "Modify" button to modify data.	
Field	Description	
Status	Value is Enabled/Disabled, default is Disables.	
	It will control the system log work or not.	
Current Server	Current Syslog server IP address.	
Syslog Server Address	New Syslog server IP address. The server must be a remote host.	



2.5.10 User Administration







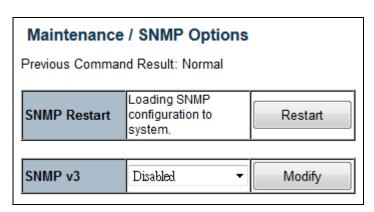


Onenation	Overtex	
Operation	<u>Create</u> :	
	Click "Create" button to create page.	
	2. Fill user name, access level, password, confirm password and comment fields.	
	3. Click "Apply" to create setting data or click "Cancel" to cancel it.	
	Delete:	
	Select one row data for delete.	
	Click "Delete" to delete selected data.	
	Modify:	
	Click "Modify" button to modify page.	
	Select "Change Password" checkbox if you want to change password.	
	3. Fill user name, access level, New Password, Retry Password and comment	
	fields.	
	4. Click "Apply" to apply change or click "Cancel" to cancel it.	
Field	Description	
User Name	Shows the user name (up to 32 characters).	
Access Level	Show the access level of the user:	
	Super User - The user can access to all functions.	
	Engineer - The user can access to all functions except user account management.	
	Guest - The user can access to basic display functions.	
Password	Enter a login password of 1-31 characters.	
Confirm Password	Enter the login password of previous field again.	
New Password	Input new password when user want to change the password.	
Retry Password	Input retry password as new password when user want to change the password.	
Comment	Description of the user account (up to 31 characters).	



2.5.11 SNMP

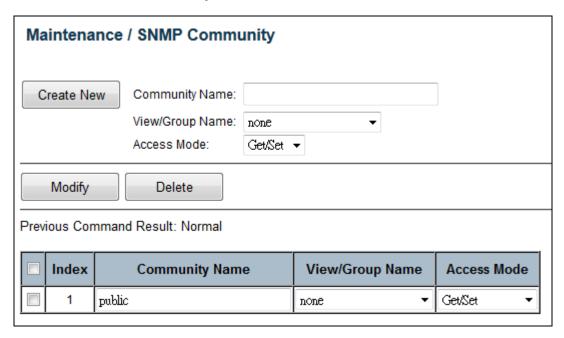
2.5.11.1 SNMP Options



After any SNMP setting changed, only configuration is changed, but not apply to the system yet. All SNMP changed configuration could work after restart SNMP. It will not reboot system, but may take several seconds to load SNMP setting. Modify SNMP Version: This button is used to set whether snmp v3 is enable or not. If snmpV3 switch is set to disable, the system would use snmp v2c only. If snmpV3 switch is set to enable, the system would use snmp v3 setting. Changing this will restart SNMP automatically. The snmp v3 parameters would be valid only if snmp v3 is enabled.



2.5.11.2 SNMP Community



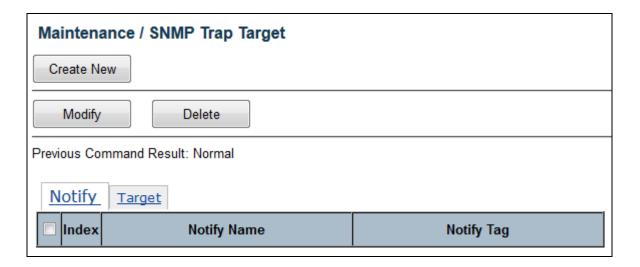
Operation	<u>Create:</u>			
	Fill the Community name.			
	2. Click "Create New" button to create new Community.			
	Modify community entry:			
	Select entry by check up the check box			
	2. Modify field data:			
	3. Click "Modify" button to apply the change			
	Delete community entry:			
	Select entry by check box, then click "Delete".			
	Note: This page supports multi-selection, click one or more row items to delete. User			
	also could click "select all" to delete all target items.			
Field	Description			
Index	SNMP Community index, The system supports up to 32 Community data.			
	SNMP Community name, for SNMP v1/v2c.			
Community Name	Only if community name match, the SNMP request would be received.			
	Community Name max size is 31 characters.			



View/Group Name	View and Group are used for SNMP v3 only. A community is allowed to bind one of the view or group name. If it does not take any group or view, it will be a v1/v2c community. If it takes a view or a group name, the community will be treated as a v3 community. The v2c and v3 communities could exit in the community table concurrently. It will display "unknown(name) when view/group name doesn't exist in view/group table.
Access Mode	Choice access right. Allow Get operation only, or allow both Get and Set.

2.5.11.3 Trap Target

SNMP Notify:



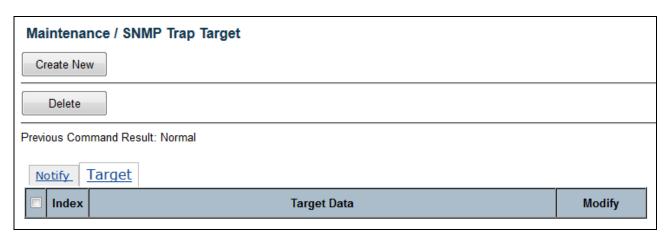
Operation	<u>Create:</u>		
	Click "Create New" button to create new notify tag.		
	2. Fill the notify name and notify tag.		
	Click "Apply" to create, "Cancel" to abort.		
	<u>lodify:</u>		
	1. Select entry by check box		
	2. Modify field data		
	3. Click "Modify" button to apply change.		
	Delete:		



	1. Select entry by check box			
	2. Click "Delete" button to delete Notify Tag item.			
Field	Description			
Index	SNMP notify tag index, The system supports up to 32 notify tags.			
Notify Name	Name of Notify entry. Notify Name max size is 31 characters.			
Notify Tag	Notify Tag string. If tag of Target entry matches any tag from tags of Notify Table, then SNMP trap function would work. Notify Tag max size is 31 characters.			



SNMP Target:



Operation	Create:			
	Click "Create New" button to create new target data			
	2. Fill the target IP address, name, port number, and trap version. Give a new tag na			
	or select a existing notify tag name as target name			
	3. Click "Apply" to create, "Cancel" to abort.			
	Modify:			
	Click row item "modify" button to modify existence target data.			
	Delete:			
	Select entry by check box, then click "Delete".			
	Note: This page supports multi-selection, click one or more row items to delete. User			
	also could click "select all" to delete all target items.			
Field	Description			
Index	SNMP target index, The system supports up to 32 target entries.			
Target Address	Target IP address, the host IP address of trap receiver.			
raiget Address	Value range 0.0.0.0 ~ 255.255.255			
Address Port	Target Address port number. TCP Port number of Trap receiver.			
Address Fort	Range: 0 ~ 65535, Default is 162			
Target Name	Name of target. Target Name max size is 31 characters.			
Target Tag	Add a target tag, or pick up existing notify tag from Notify Table.			
Trap Version	Select SNMP trap version. Supports v1/v2c			



2.5.11.4 User

Maintenance / SNMP User							
Create New User Name:			User Type: Auth Protocol: Priv Protocol:	MD5 ▼	Priv		•
Modify Delete							
Previous Command Result: Normal							
No. User Name Security Level	User Type	Group Name	Auth Protocol	Auth Password	Priv Protocol	Priv Password	

Operation	Create new:				
	Fill "User Name" and select "User Type", "Auth Protocol" and "Priv Protocol".				
	Click "Create New" button to create new user.				
	Delete:				
	Select a row data in user account table (also support multi-select).				
	2. Click "Delete" button to delete user account.				
Field	Description				
Heer Name	User name, length 1~31.				
User Name	Accept any characters except space, quote mark and "?".				
	SNMPv3 user type.				
	Options:				
	1. Read Only				
User Type	2. Read Write				
Oser Type	3. v3 User				
	If "User type" is "v3 User", the "Group Name" should be provided.				
	No matter which User Type is selected, the authentication and Privacy options are				
	allowed.				
	Access Group name, length 1~15.				
Group Name	Accept any characters except space, quote mark and "?".				
	If user type is "Read Only" or "Read Write", then this field is not needed.				



	User authentication protocol. Works only if SNMPv3 is enabled.
	Options:
	1. None
Auth Protocol	2. MD5
	3. SHA
	If "Auth Protocol" is "None", "Priv Protocol" always is "None". If "Auth Protocol" is MD5
	or SHA, "Auth Password" should be input.
	Authentication password, length 8~15. Works only if SNMPv3 is enabled.
A d Book and	Accept any characters except space, quote mark and "?".
Auth Password	
	If Authentication Protocol is "None", then Privacy options are not needed.
	User Privacy protocol. Works only if SNMPv3 is enabled.
	If "Priv Protocol" is not "None", "Priv Password" should be input.
Priv Protocol	Options:
	1. None
	2. DES
	Privacy password, length 8~15. Works only if SNMPv3 is enabled.
Priv Password	Accept any characters except space, quote mark and "?".
riiv rasswoiu	
	If "Priv Protocol" is "None" the field not needed.



2.5.11.5 Group

Maintenance / SNMP Group		
Create New Group Name:	Sec. Model: v3usm ▼ Read View: ▼	Sec. Level: NoAuth, NoPriv ▼ Write View: ▼
Delete		
Previous Command Result: Normal		
No. Group Name Security Model Security Level Re	ad View Write View	

Operation	Create new:			
	1. Fill "Group Name" and select "Sec. Model", "Sec. Level".			
	2. Click "Create New" button to create new group.			
	Note: max group entry: 32			
	Delete:			
	Select a row data in VACM group table (also support multi-select).			
	2. Click "Delete" button to delete user account.			
Field	Description			
Group Name	Group name, length 1~15.			
Group Name	Accept any characters except space, quote mark and "?".			
	SNMP security model.			
	Options:			
	- v1			
	supports read/write view.			
Security Model	- v2c			
	supports read/write view.			
	Supported I Suday Millio VIOTI.			
	- v3usm			
	supports read/write view & security level.			



Security Level	User security level. If "Security Model" is "v1" or "v2c", the field is not used, it will be show as "". States as below: - NoAuth, NoPriv (No authentication and no Privacy) - Auth, NoPriv (Authentication and no Privacy) - Auth, Priv (Authentication and Privacy)
Read View	Access View for Read (snmp-get) Select from the view list. If list is empty, create access view with page "SNMP View" first. It will display "unknown(xxxx) when the name of xxxx doesn't exist in view name.
Write View	Access View for Write (snmp-set) Select from the view list. If list is empty, create access view with page "SNMP View" first. It will display "unknown(xxxx) when the name of xxxx doesn't exist in view name.



2.5.11.6 SNMP View



Operation	Create new:
	1. Fill "View Name", "Sub Tree" and select "View Type".
	2. Click "Create New" button to create new view.
	Note: max group entry: 32
	Delete:
	Select a row data in VACM view table (also support multi-select).
	2. Click "Delete" button to delete user account.
	VACM View can be delete by Name or by Index. Note that if delete by name, all entries
	with the same name would be deleted together.
Field	Description
View Name	View name, length 1~15.
	Accept any characters except space, quote mark and "?".



	INDUSTRIAL SOLUTION OVER NETWORK
View Type	Accessible/Not accessible of object (SNMP OID).
	Select down list box:
	1. Include, allow access the subtree/oid;
	2. Exclude, doesn't allow access the subtree/oid.
	Note: the oid is a prefix, no need to match it exactly.
	For example: 1.3.6.1.2.1 (include), it means 1.3.6.1.2.1.* are accessible.
	For example: 1.3.6.1.2.1 (exclude), it means 1.3.6.1.2.1.* are NOT accessible.
	An example of wildcard(*):
	1.3.6.1.*.1 (include), it means that
	1.3.6.1.4.1.* are accessible and
	1.3.6.1.2.1.* are accessible.
Sub Tree	SNMP OID or Object Name of MIB
	Input format is OID, char length 1~31.
	Accept MIB object name "iswitch", or wildcard (*).
	iswitch represents 1.3.6.1.4.1.5833.2012
	For example:
	1.3.6.1.2.1
	1.3.6.1.4.1.5833.2012
	iswitch.1
	iswitch.2.6.1.1.*.4
	(iswitch.2.6.1.1 is EthernetPort Entry, it means this view include/exclude the 4th port of
	the table.)