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ISCOM2826 EMS User Manual

RC-A083-V30-050829-EN

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Feedback

Comments and questions about how the NView iEMS system software works are welcomed. Please review the FAQ in the related manual, and if your question is not covered, send email by using the following web page:

http://www.raisecom.com/en/xcontactus/contactus.htm.

If you have comments on the NView iEMS specification, instead of the web page above, please send comments to:

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We hope to hear from you!

CONTENTS

Overview

This chapter describes compliance and basic functions of ISCOM2826 EMS, and consists of the following sections:

- ✧ Compliance
- ✧ Function characteristics

Compliance

Support for the following MIB standards:

RFC1213

RFC1271

RFC1493

RFC1724

RFC1757

RFC1850

RFC1907

RFC2233

RFC2571

RFC2572

RFC2573N

RFC2573T

RFC2574

RFC2575

RFC2618

RFC2620

RFC2665

RFC2674P

RFC2674Q

Function Characteristics

ISCOM2826 EMS (Element Management System) provides management of ISCOM2826 Switch through Simple Network Management Protocol (SNMP).

The device view generated by the EMS is identical with appearance of the real device, so it could truly reflect current status of the Switch.

Through prior installation of NView iEMS (or NView NNM) network management platform, ISCOM2826 EMS, together with configuration of relevant parameters like SNMP information

and Trap target address, you can monitor and manage your Switch conveniently.

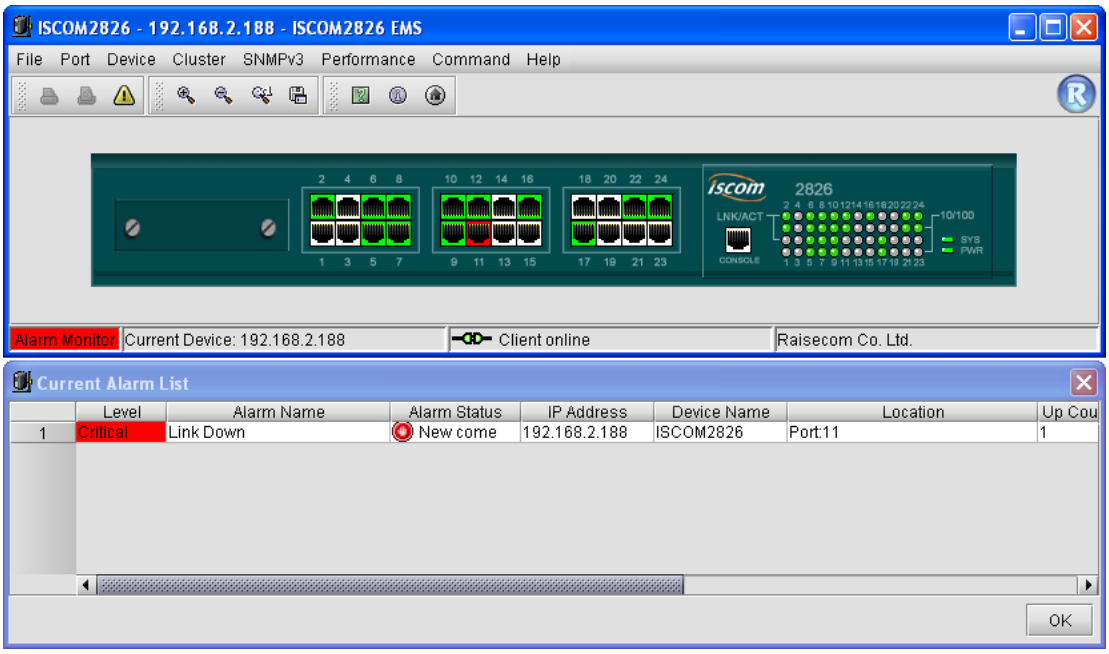


Figure 1-1 The main view for ISCOM2826 EMS (Corresponding to hardware version Rev.A)

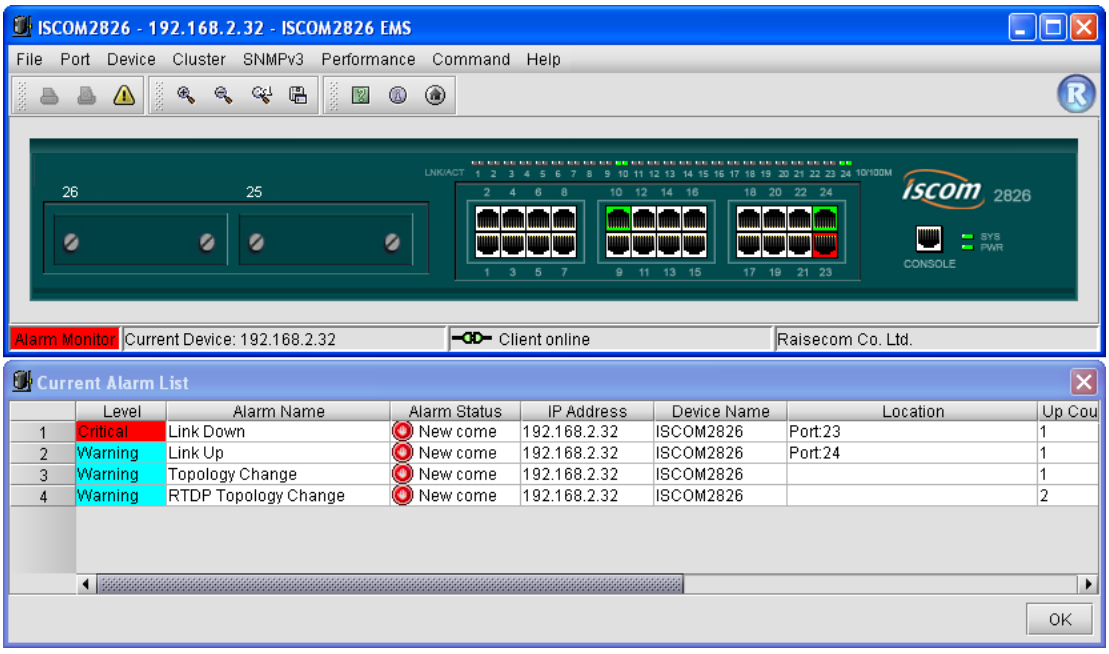


Figure 1-2 The main view for ISCOM2826 EMS (Corresponding to hardware version Rev.B)

ISCOM2826 EMS Function/Protocol Configuration Guide

ISCOM2826 EMS enables user to launch relevant function/protocol configuration dialog box through main menu or popup menu as available. This chapter provides instruction on how to use these function/protocol interfaces. For information on each protocol and function's role, value range and restriction rule, see relevant commands in "RAISECOM Series Switch Command Notebook Version 3.0".

Port Configuration

Click [Port\Port Settings] from the main menu, you'll see a Port Settings dialog box popup. Select a row from the Port table, and click the <Modify> button, then you can make configuration for the selection.

Related commands:

See chapter 3 of "RAISECOM Series Switch Command Notebook Version 3.0" for

"interface port"

"pvid"

command.

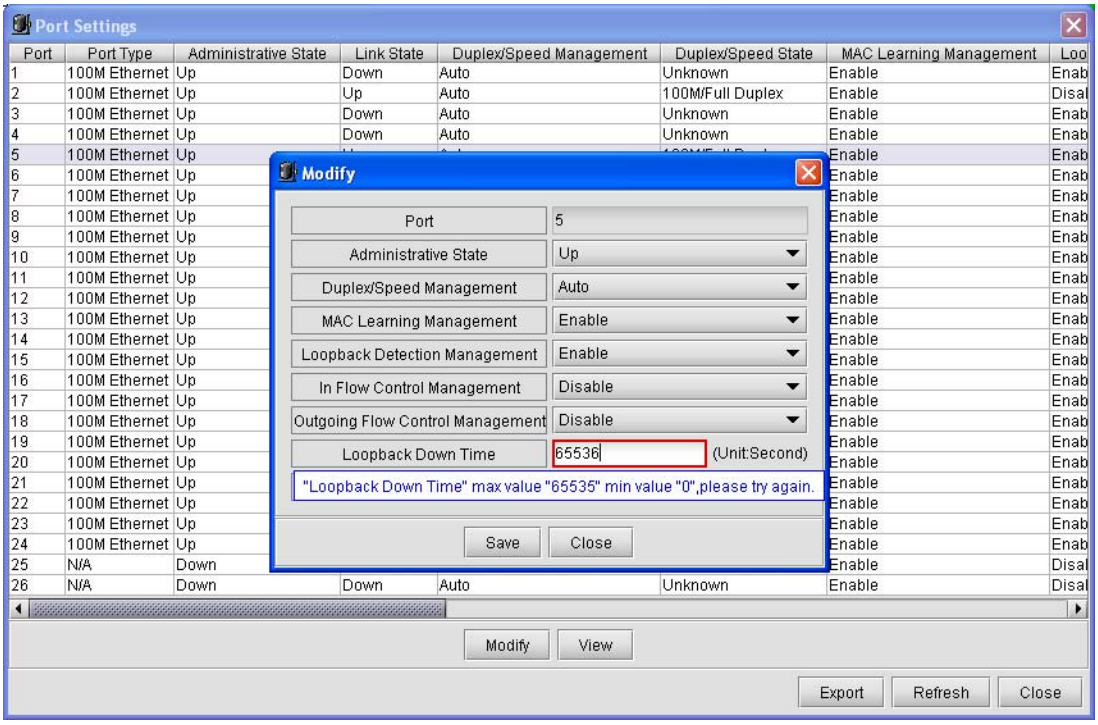


Figure 2-1 The port settings

RFC1213 System Group

Click [Device\RFC1213 System Group] from the main menu, a RFC1213 System Group dialog box similar to figure 2-2 will popup, which is useful for user configuring basic

information.

Related commands:

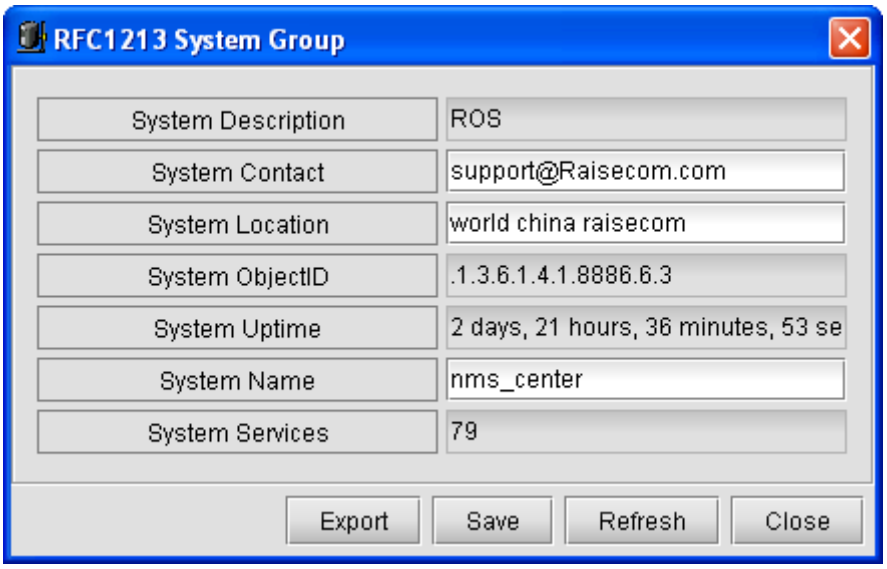


Figure 2-2 C1213 System Group

System Time

Click [Main Menu\Device\System Time] to launch the System Time dialog box. From it, you can view and configure system time for the Switch. See figure 2-3 and 2-4.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

clock set

clock summer-time

clock summer-time recurring

clock timezone

commands.

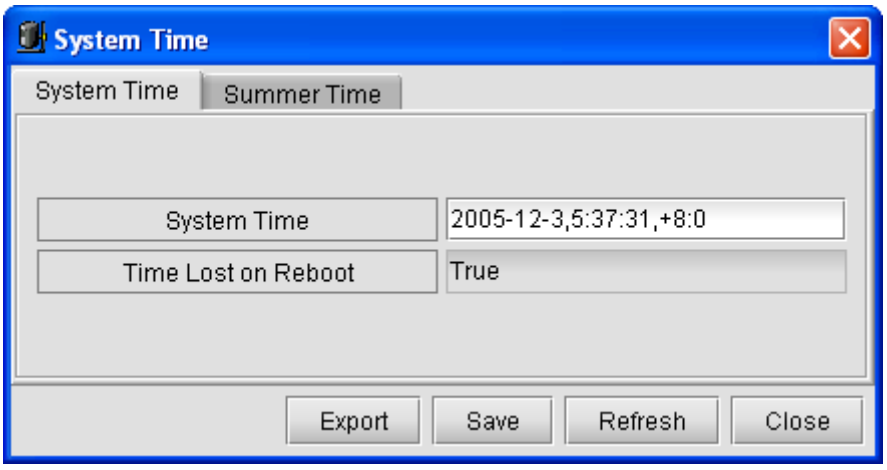


Figure 2-3 The system time

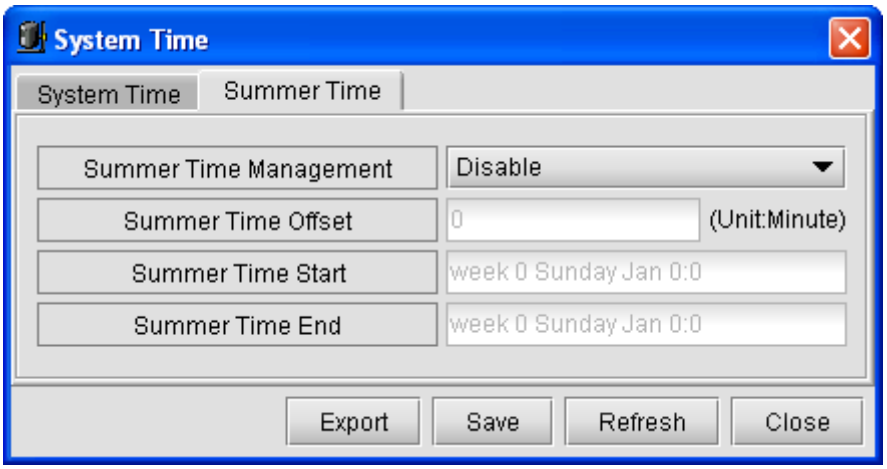


Figure 2-4 The summer time

Switch Information

Click [Main Menu\Device\Switch Info], a Switch Info dialog box presenting the basic information on the Switch will popup.

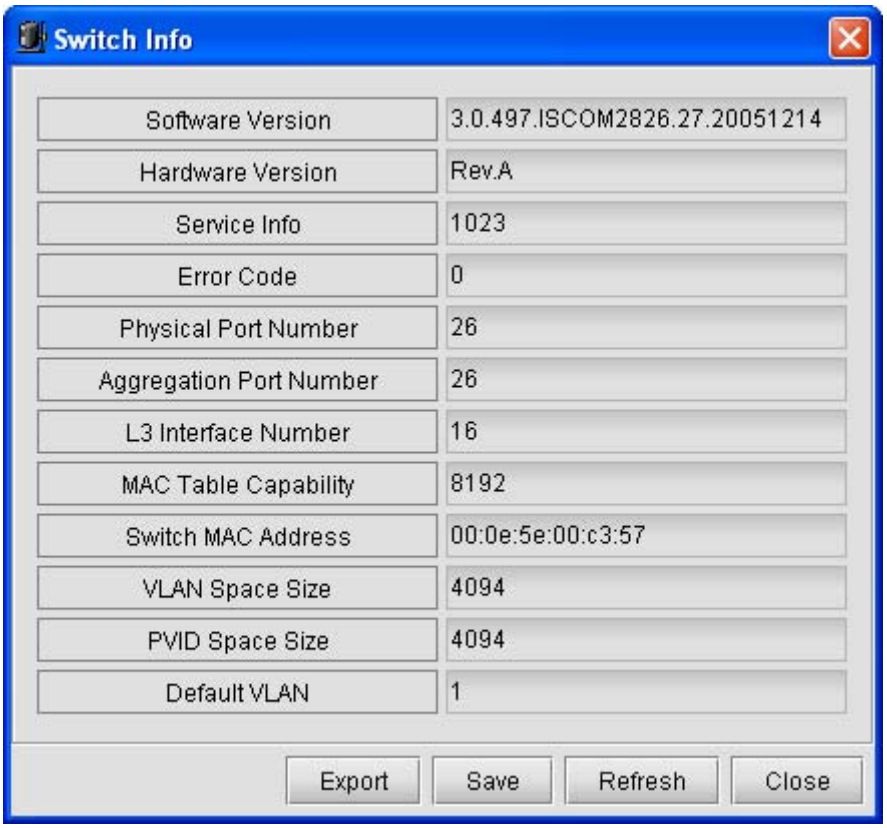


Figure 2-5 The Switch information

Switch Configuration

Click [Main Menu\Device\Device Settings], a Device Setting dialog box will popup for user configuring the global information for the Switch.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

arp aging-time

dlf-forwarding

loopback-detection destination-address

mac-address-table aging-time

relay

svl

system mtu

commands.

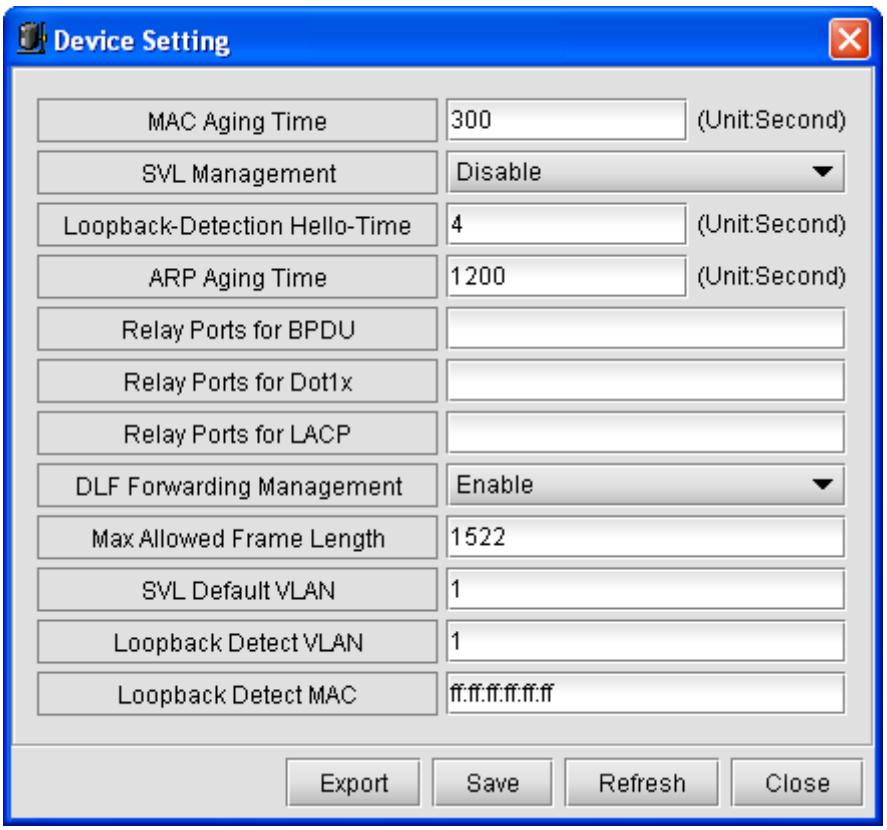


Figure 2-6 The device settings

Flooding Control

Click [Main Menu\Device\Flooding Control], a Flooding Control dialog box similar to figure 2-7 will popup, which is useful for user configuring storm prevention information for specific Switch.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

storm-control

storm-control pps

commands.

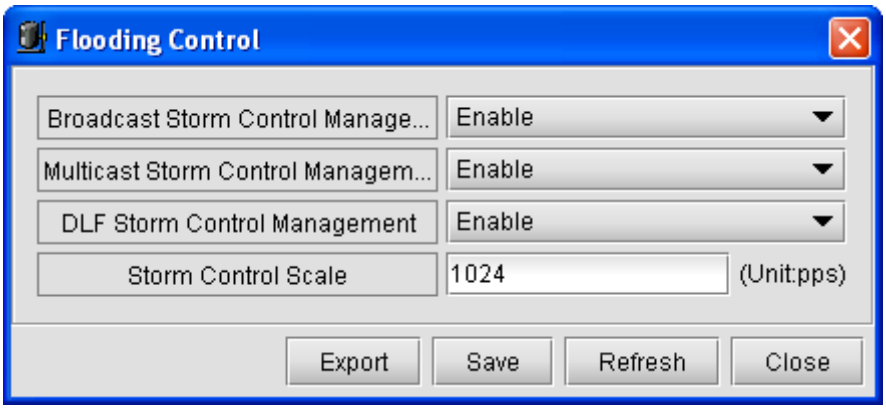


Figure 2-7 Flooding Control Configuration

VLAN Configuration

Click [Main Menu\Device\VLAN], a VLAN dialog box similar to figure 2-8 will popup, which is useful for user configuring vlan information for specific Switch.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

name

state

switchport access vlan

switchport hybrid allowed vlan

switchport hybrid untagged vlan

switchport native vlan

switchport trunk allowed vlan

commands.

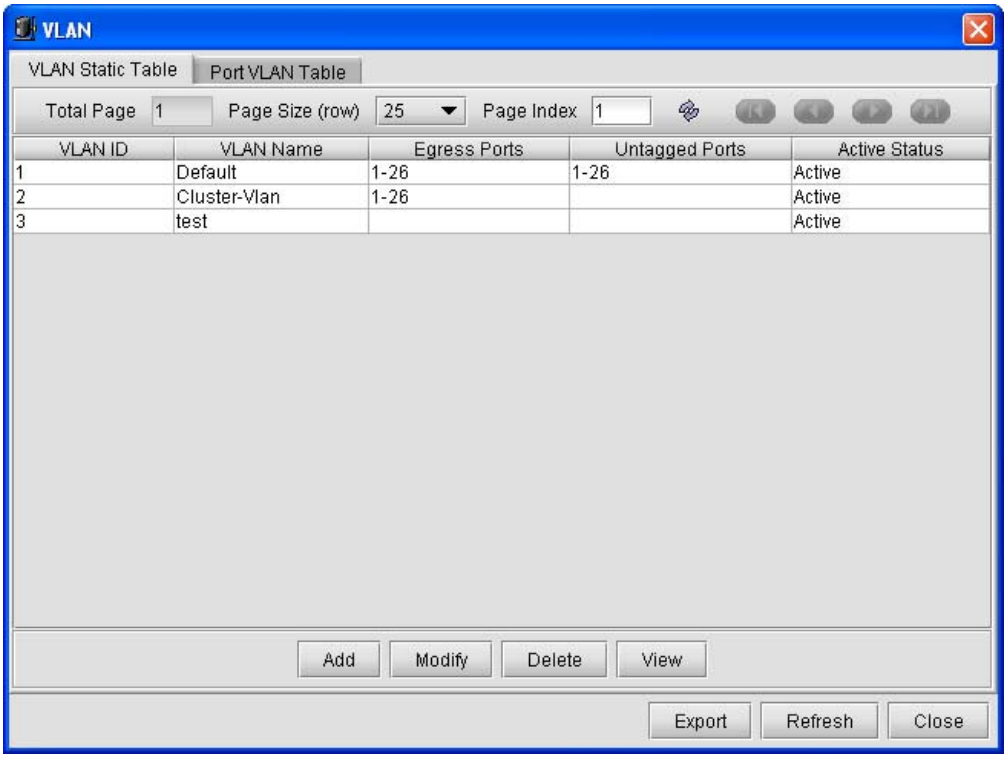


Figure 2-8 Static VLAN Table

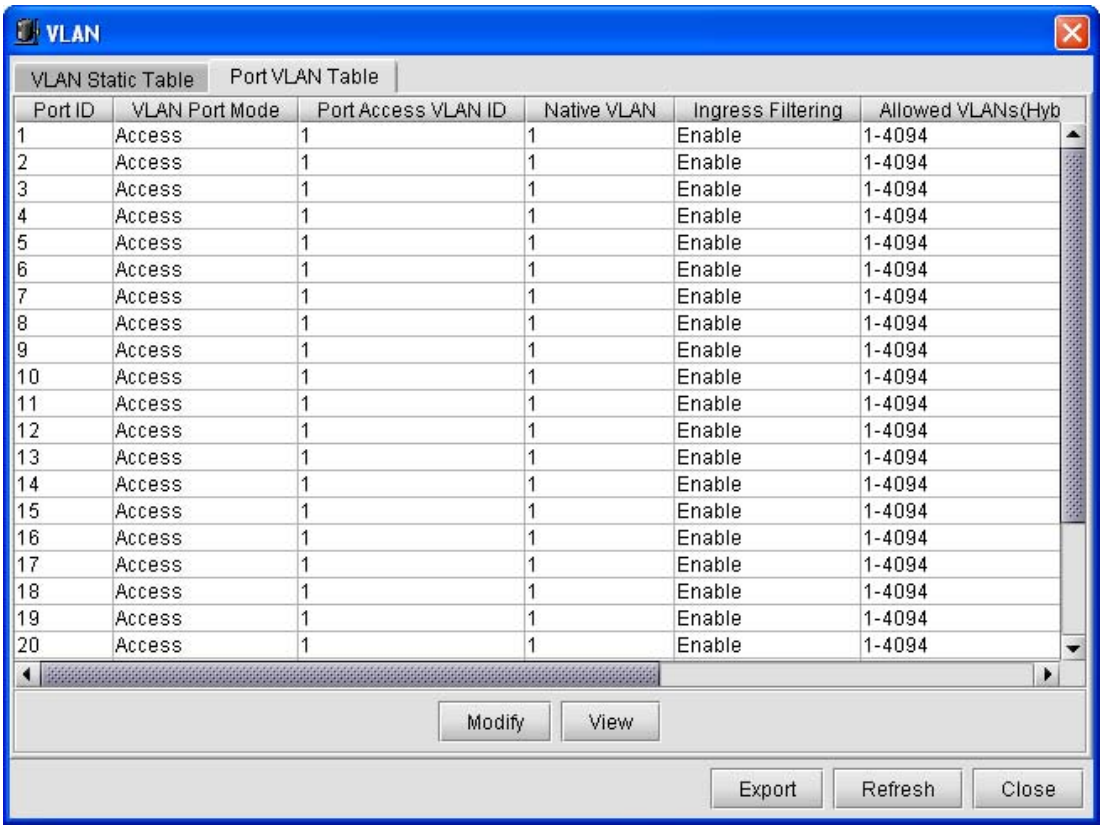


Figure 2-9 The VLAN Table

ARP Configuration

Click [Main Menu\Device\ARP], an ARP dialog box similar to figure 2-10 will popup, which is useful for user configuring arp information for specific Switch.

Related command:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for arp commands.

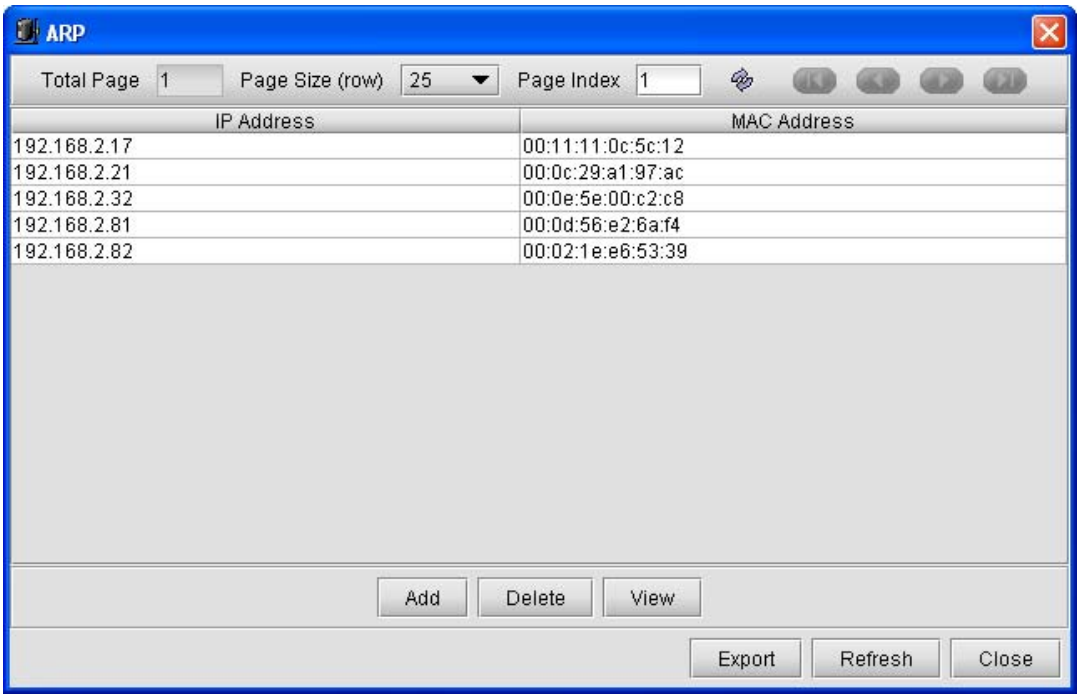


Figure 2-10 The ARP Configuration

IP Subnet Configuration

Click [Main Menu\Device\IP Addresses], an IP Addresses dialog box similar to figure 2-11 will popup, which is useful for user configuring IP subnet information for specific Switch.

Related command:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

ip address

commands.

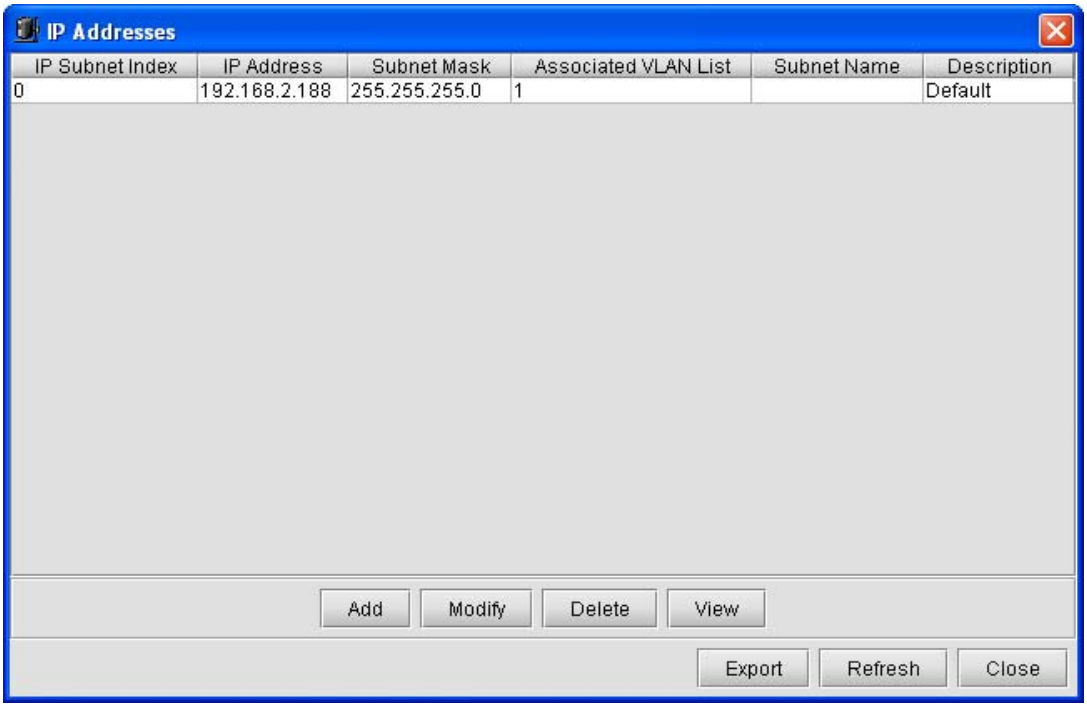


Figure 2-11 The IP Subnet Configuration

Spanning Tree Protocol Configuration

Click [Main Menu\Device\STP], a STP dialog box will popup, which is useful for user viewing and configuring STP information for specific Switch. See figure 2-12 to 2-17 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

spanning-tree

spanning-tree clear statistics

spanning-tree edged-port

spanning-tree forward-delay

spanning-tree hello-time

spanning-tree link-type

spanning-tree max-age

spanning-tree mcheck

spanning-tree mode

spanning-tree path-cost

spanning-tree priority

spanning-tree transit-limit

commands.

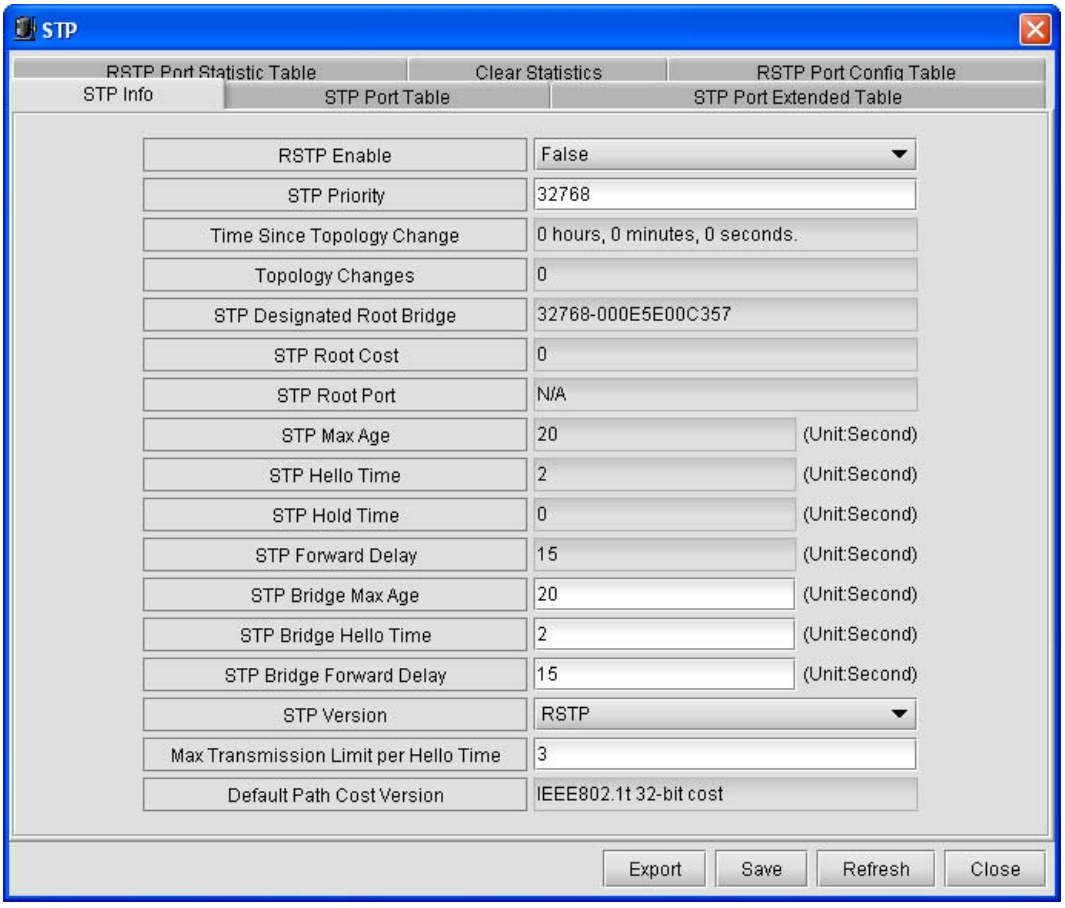
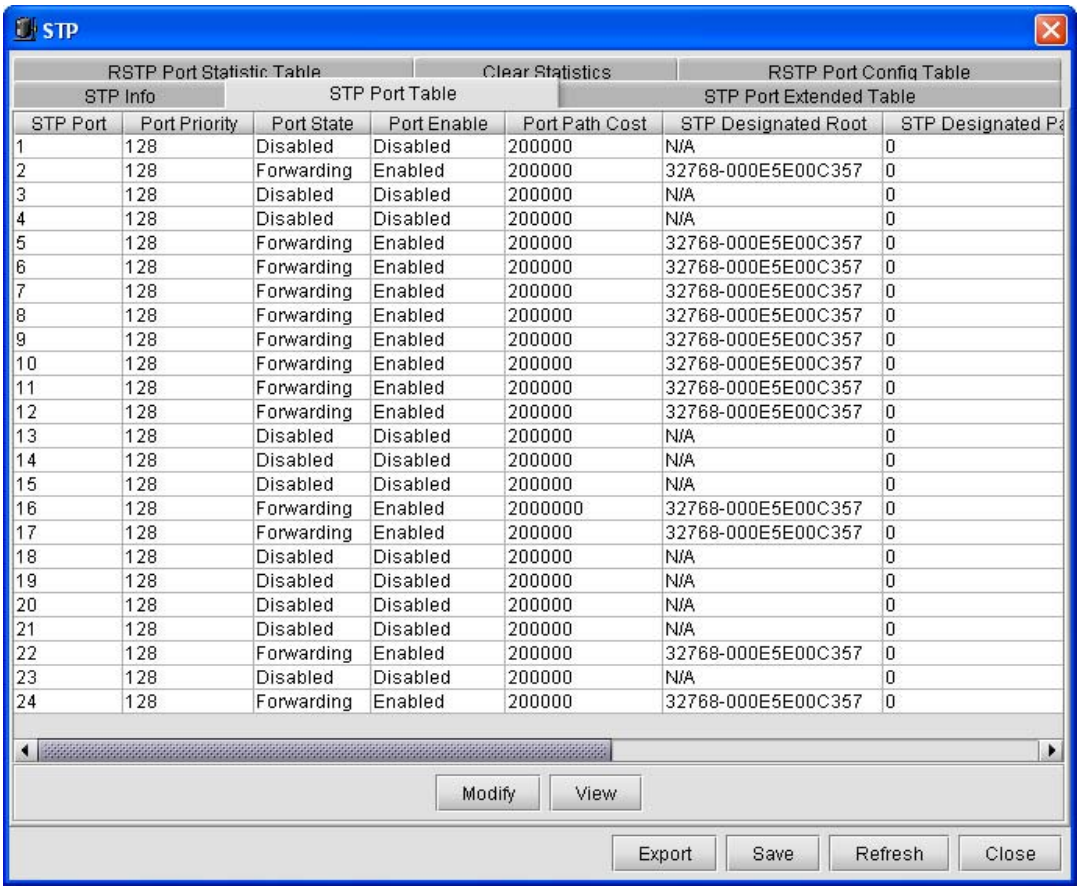
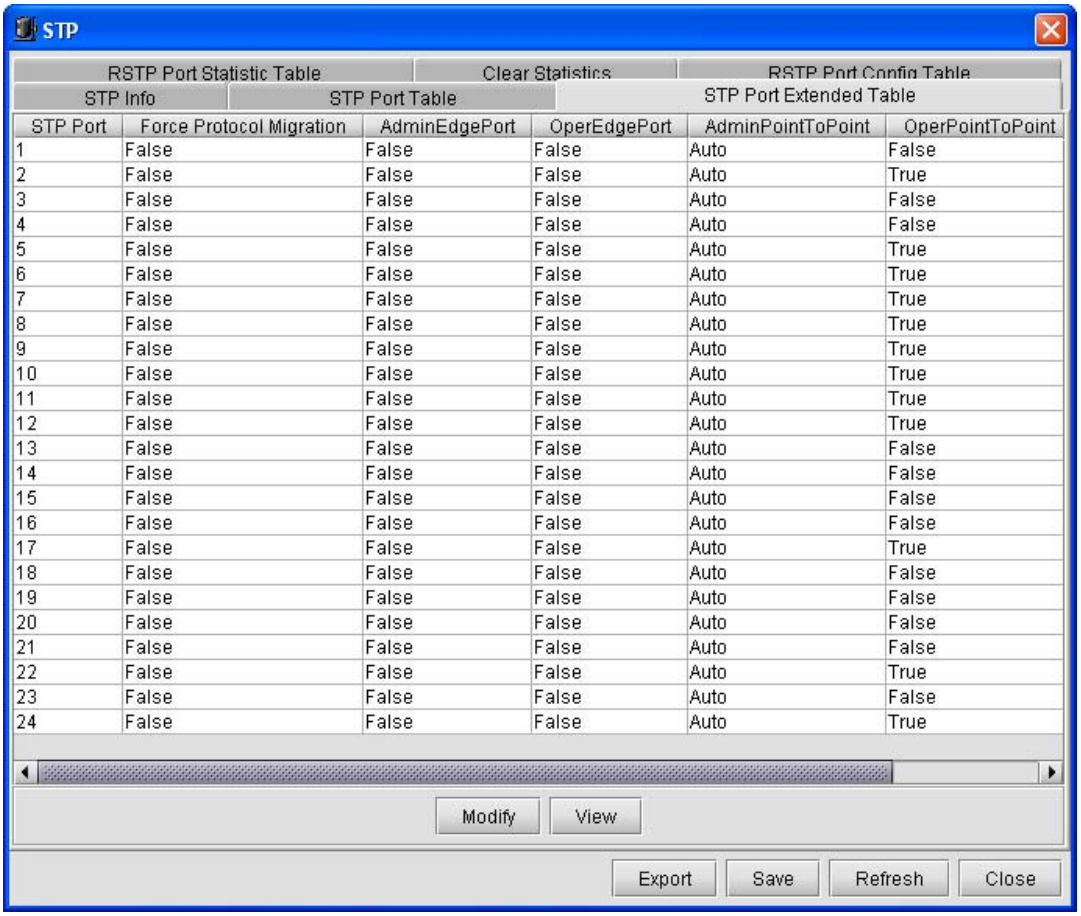


Figure 2-12 The STP information



STP Port	Port Priority	Port State	Port Enable	Port Path Cost	STP Designated Root	STP Designated Pa
1	128	Disabled	Disabled	200000	N/A	0
2	128	Forwarding	Enabled	200000	32768-000E5E00C357	0
3	128	Disabled	Disabled	200000	N/A	0
4	128	Disabled	Disabled	200000	N/A	0
5	128	Forwarding	Enabled	200000	32768-000E5E00C357	0
6	128	Forwarding	Enabled	200000	32768-000E5E00C357	0
7	128	Forwarding	Enabled	200000	32768-000E5E00C357	0
8	128	Forwarding	Enabled	200000	32768-000E5E00C357	0
9	128	Forwarding	Enabled	200000	32768-000E5E00C357	0
10	128	Forwarding	Enabled	200000	32768-000E5E00C357	0
11	128	Forwarding	Enabled	200000	32768-000E5E00C357	0
12	128	Forwarding	Enabled	200000	32768-000E5E00C357	0
13	128	Disabled	Disabled	200000	N/A	0
14	128	Disabled	Disabled	200000	N/A	0
15	128	Disabled	Disabled	200000	N/A	0
16	128	Forwarding	Enabled	2000000	32768-000E5E00C357	0
17	128	Forwarding	Enabled	200000	32768-000E5E00C357	0
18	128	Disabled	Disabled	200000	N/A	0
19	128	Disabled	Disabled	200000	N/A	0
20	128	Disabled	Disabled	200000	N/A	0
21	128	Disabled	Disabled	200000	N/A	0
22	128	Forwarding	Enabled	200000	32768-000E5E00C357	0
23	128	Disabled	Disabled	200000	N/A	0
24	128	Forwarding	Enabled	200000	32768-000E5E00C357	0

Figure 2-13 The STP information



STP Port	Force Protocol Migration	AdminEdgePort	OperEdgePort	AdminPointToPoint	OperPointToPoint
1	False	False	False	Auto	False
2	False	False	False	Auto	True
3	False	False	False	Auto	False
4	False	False	False	Auto	False
5	False	False	False	Auto	True
6	False	False	False	Auto	True
7	False	False	False	Auto	True
8	False	False	False	Auto	True
9	False	False	False	Auto	True
10	False	False	False	Auto	True
11	False	False	False	Auto	True
12	False	False	False	Auto	True
13	False	False	False	Auto	False
14	False	False	False	Auto	False
15	False	False	False	Auto	False
16	False	False	False	Auto	False
17	False	False	False	Auto	True
18	False	False	False	Auto	False
19	False	False	False	Auto	False
20	False	False	False	Auto	False
21	False	False	False	Auto	False
22	False	False	False	Auto	True
23	False	False	False	Auto	False
24	False	False	False	Auto	True

Figure 2-14 The STP information

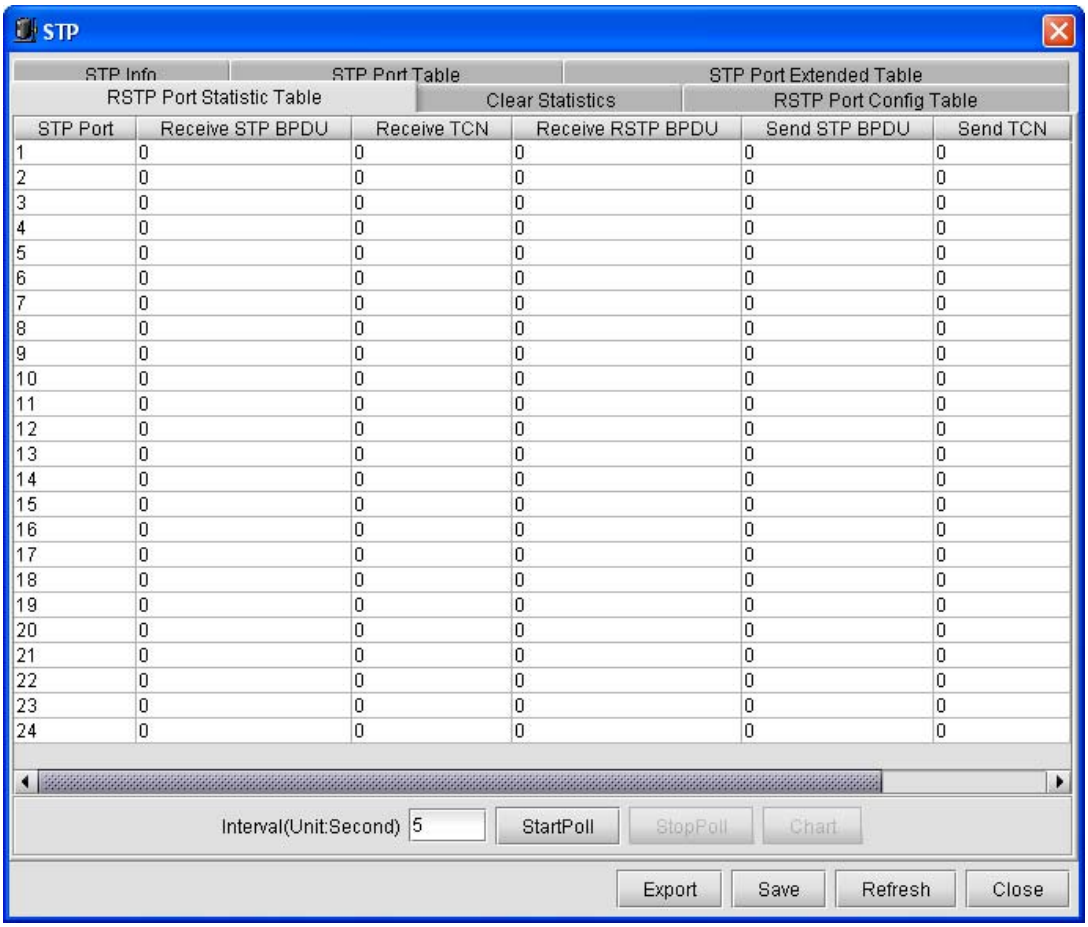


Figure 2-15 The STP information

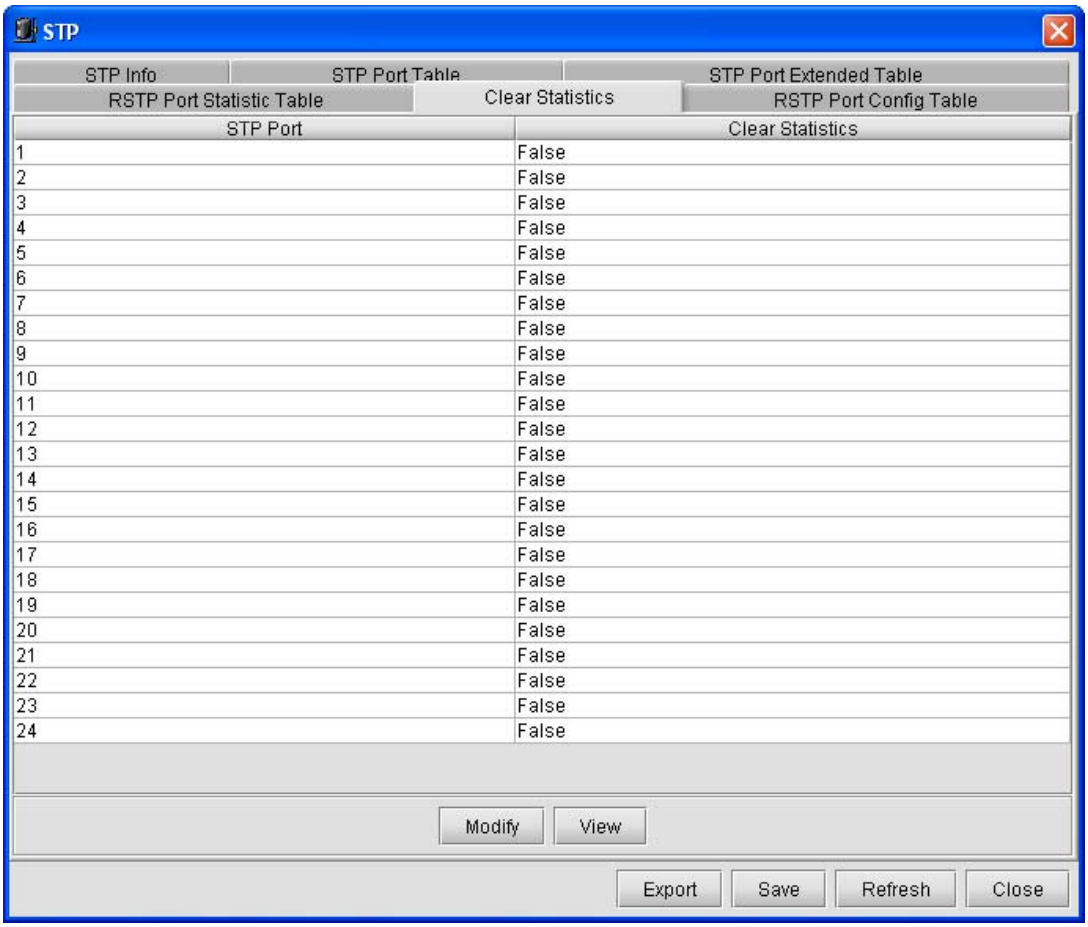


Figure 2-16 The STP information

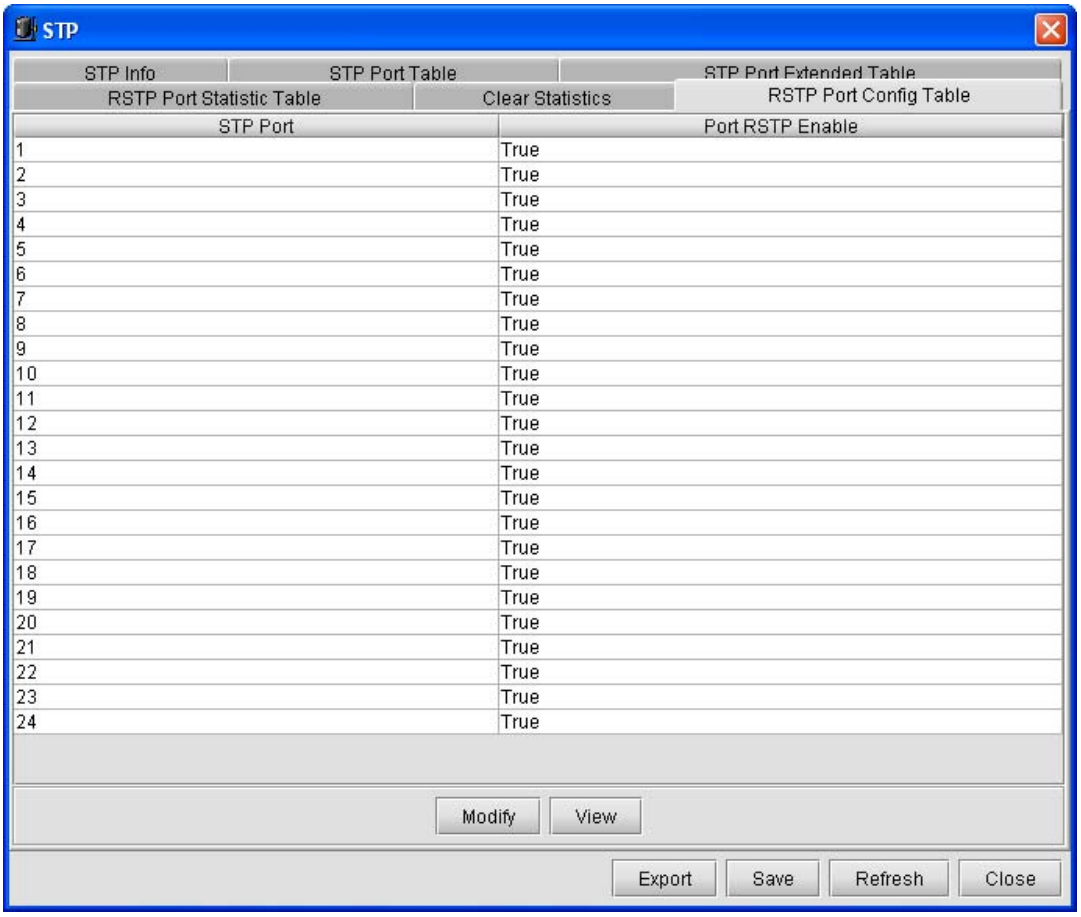


Figure 2-17 The STP information

DHCP Configuration

Click [Main Menu\Device\DHCP], a DHCP Server dialog box will popup, which is useful for user viewing and configuring DHCP Server information. See figure 2-18 to 2-21 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

dhcp-server active

dhcp-server default-lease

dhcp-server enable

dhcp-server ip-pool

dhcp-server max-lease

dhcp-server min-lease

dhcp-server relay-ip

commands.

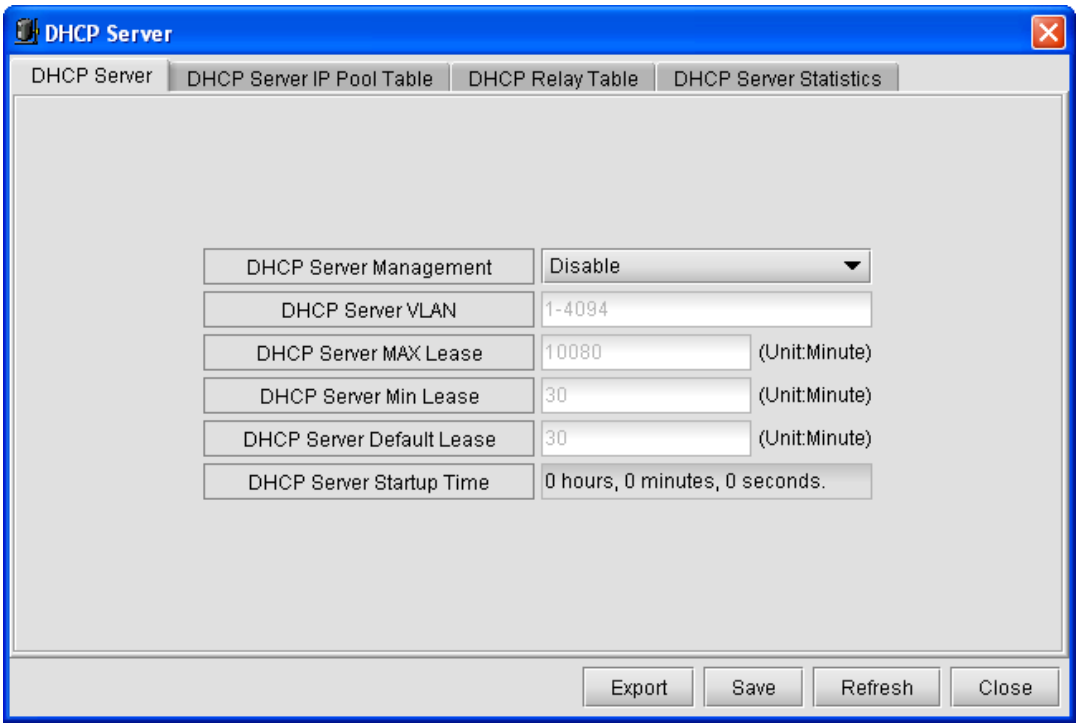


Figure 2-18 DHCP Server Information

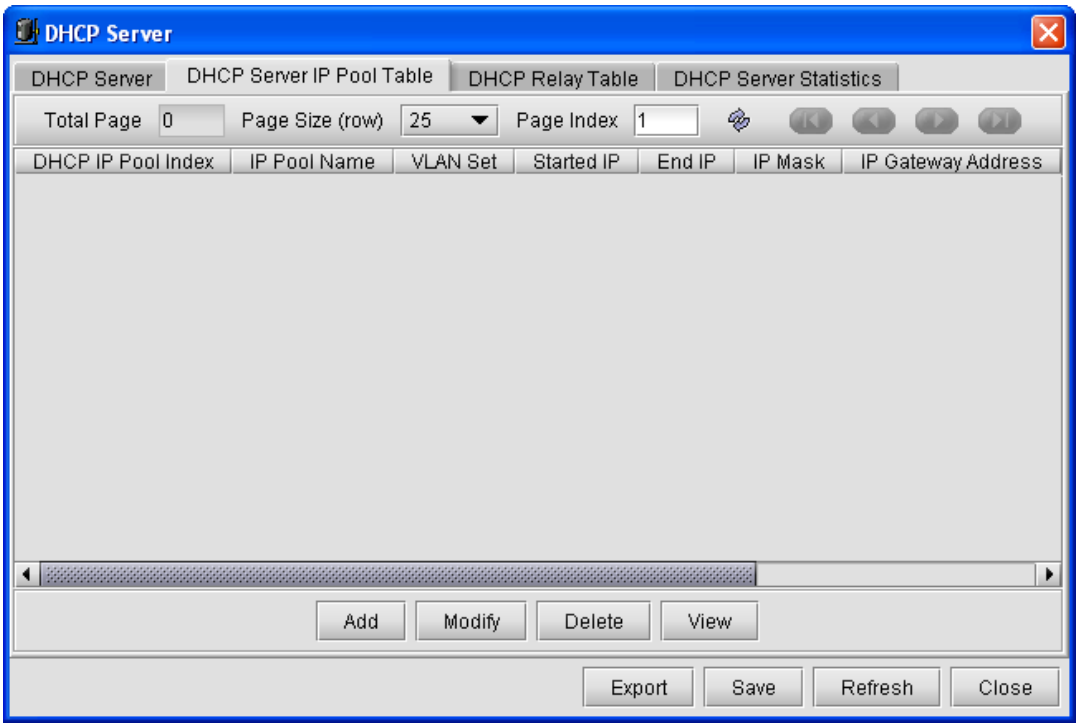


Figure 2-19 DHCP Server Information

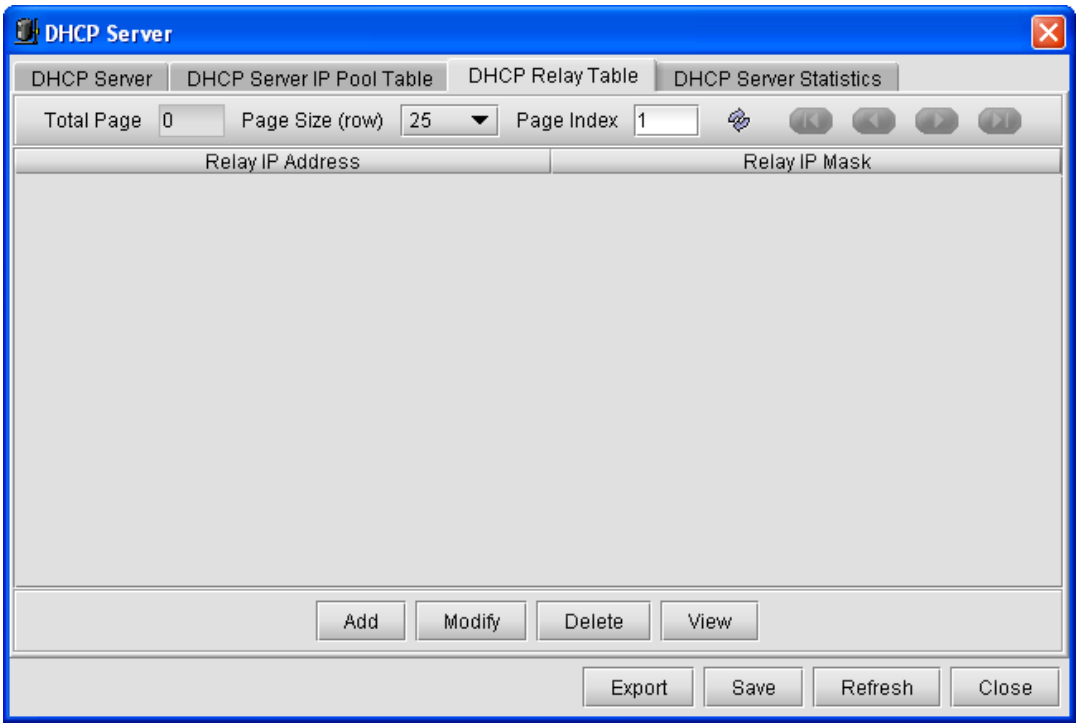


Figure 2-20 DHCP Server Information

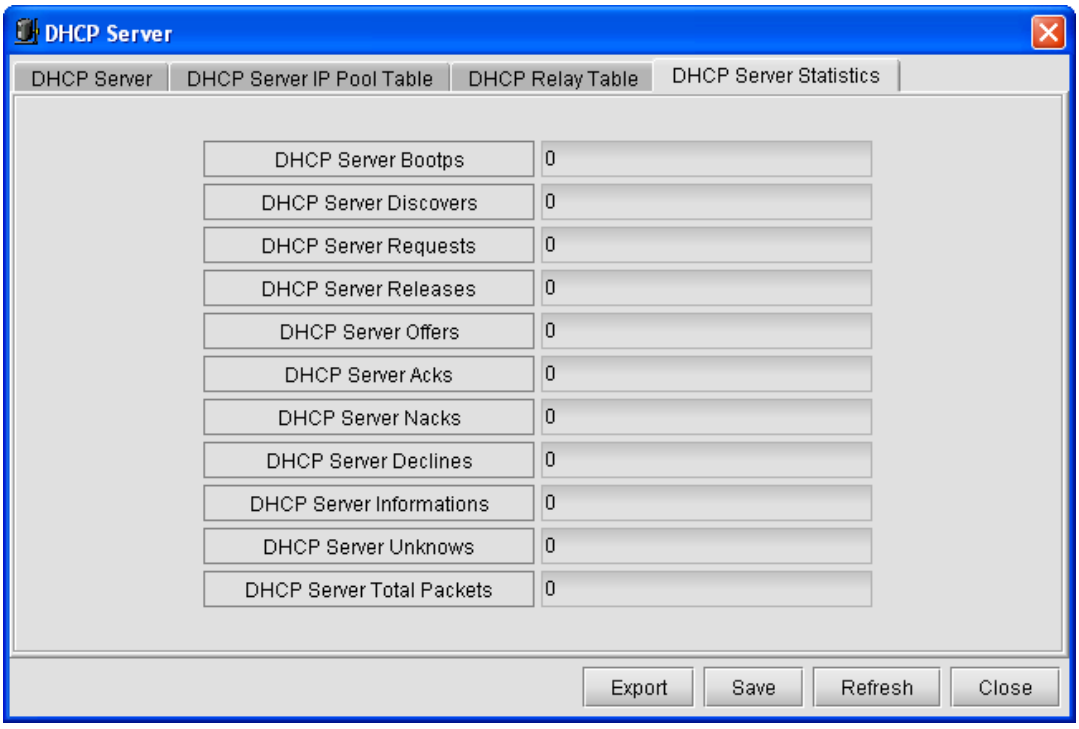


Figure 2-21 DHCP Server Information

RMON Configuration

Click [Main Menu\Device\RMON], a RMON dialog box similar to figure 2-22 will popup, which is useful for user viewing and configuring RMON protocol information. See figure 2-22 to 2-24 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for rmon alarm

rmon event

rmon history

rmon statistic

commands.

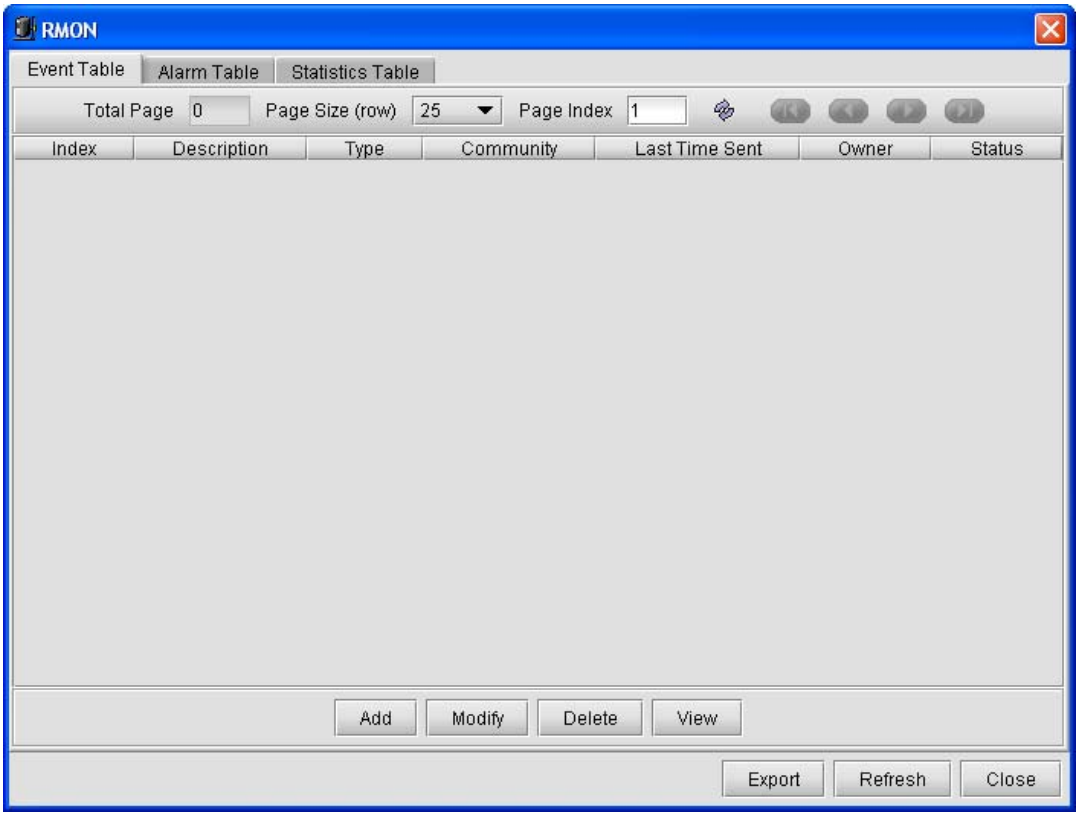


Figure 2-22 The Event Table

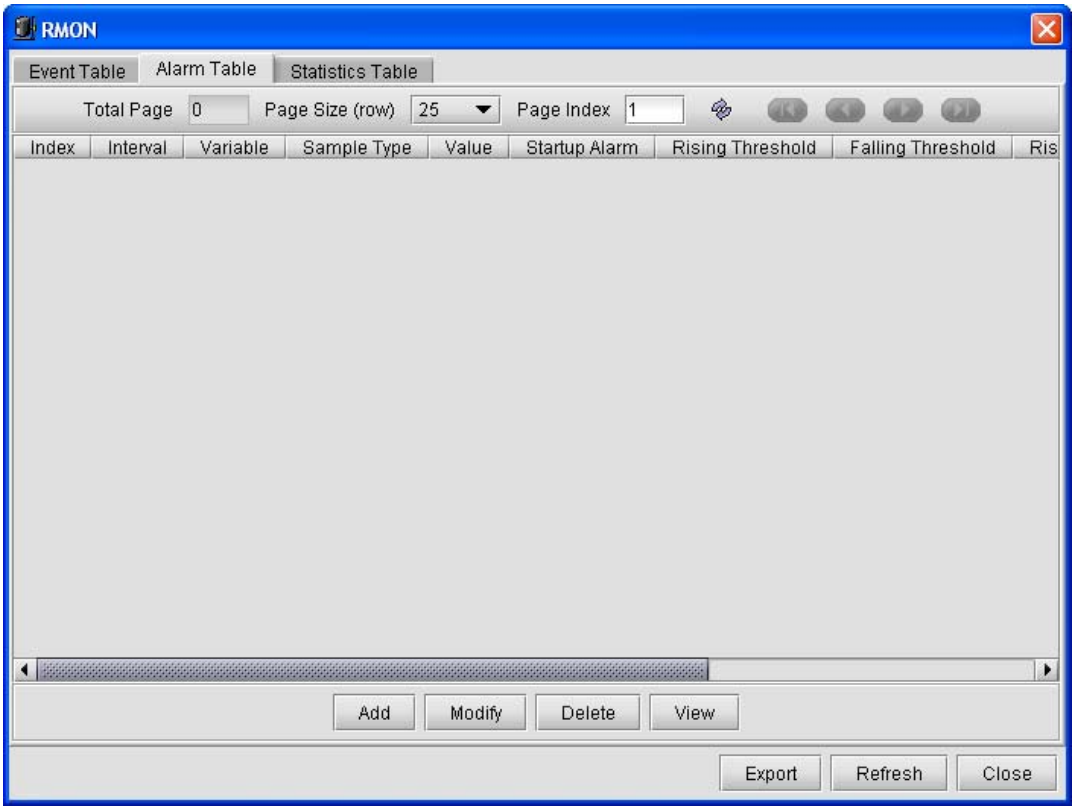
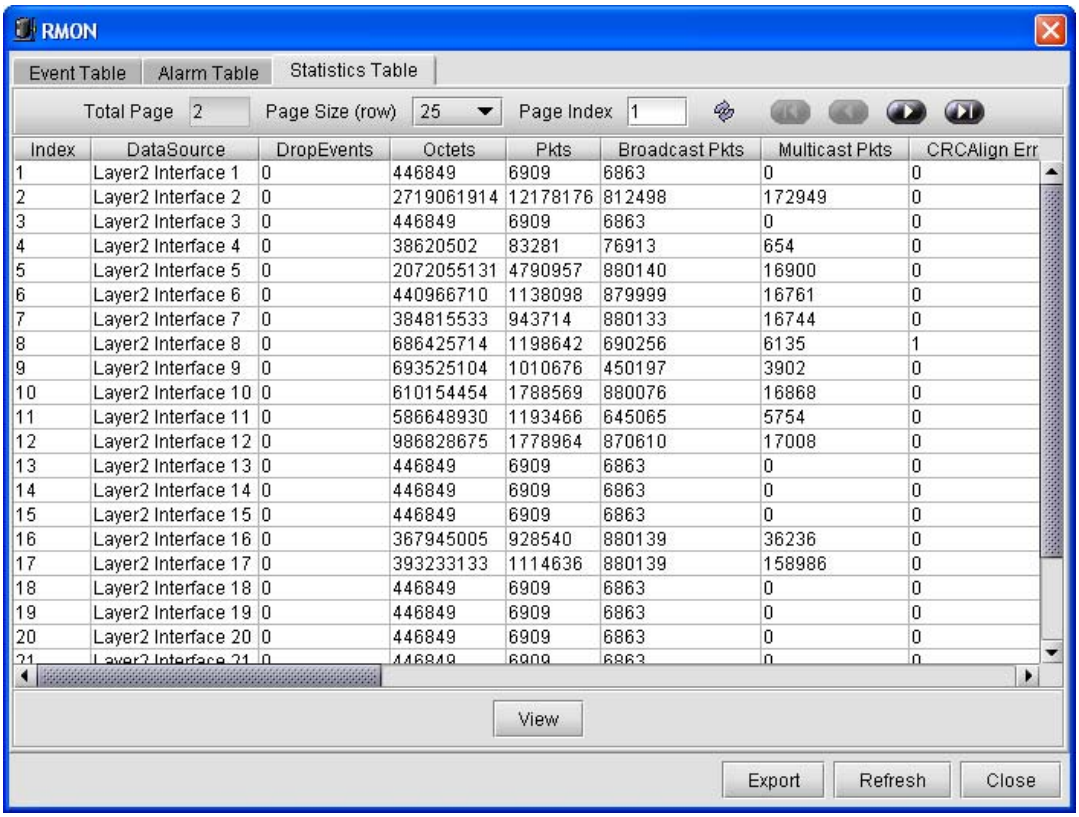


Figure 2-23 The Alarm Table



Index	DataSource	DropEvents	Octets	Pkts	Broadcast Pkts	Multicast Pkts	CRCAlign Err
1	Layer2 Interface 1	0	446849	6909	6863	0	0
2	Layer2 Interface 2	0	2719061914	12178176	812498	172949	0
3	Layer2 Interface 3	0	446849	6909	6863	0	0
4	Layer2 Interface 4	0	38620502	83281	76913	654	0
5	Layer2 Interface 5	0	2072055131	4790957	880140	16900	0
6	Layer2 Interface 6	0	440966710	1138098	879999	16761	0
7	Layer2 Interface 7	0	384815533	943714	880133	16744	0
8	Layer2 Interface 8	0	686425714	1198642	690256	6135	1
9	Layer2 Interface 9	0	693525104	1010676	450197	3902	0
10	Layer2 Interface 10	0	610154454	1788569	880076	16868	0
11	Layer2 Interface 11	0	586648930	1193466	645065	5754	0
12	Layer2 Interface 12	0	986828675	1778964	870610	17008	0
13	Layer2 Interface 13	0	446849	6909	6863	0	0
14	Layer2 Interface 14	0	446849	6909	6863	0	0
15	Layer2 Interface 15	0	446849	6909	6863	0	0
16	Layer2 Interface 16	0	367945005	928540	880139	36236	0
17	Layer2 Interface 17	0	393233133	1114636	880139	158986	0
18	Layer2 Interface 18	0	446849	6909	6863	0	0
19	Layer2 Interface 19	0	446849	6909	6863	0	0
20	Layer2 Interface 20	0	446849	6909	6863	0	0
21	Layer2 Interface 21	0	446849	6909	6863	0	0

Figure 2-24 The Statistics Table

Trunk Configuration

Click [Main Menu\Device\Trunk], a Trunk dialog box will popup, which is useful for user viewing and configuring Trunk information. See figure 2-25 to 2-26 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

trunk

trunk group

trunk loading-sharing mode

commands.

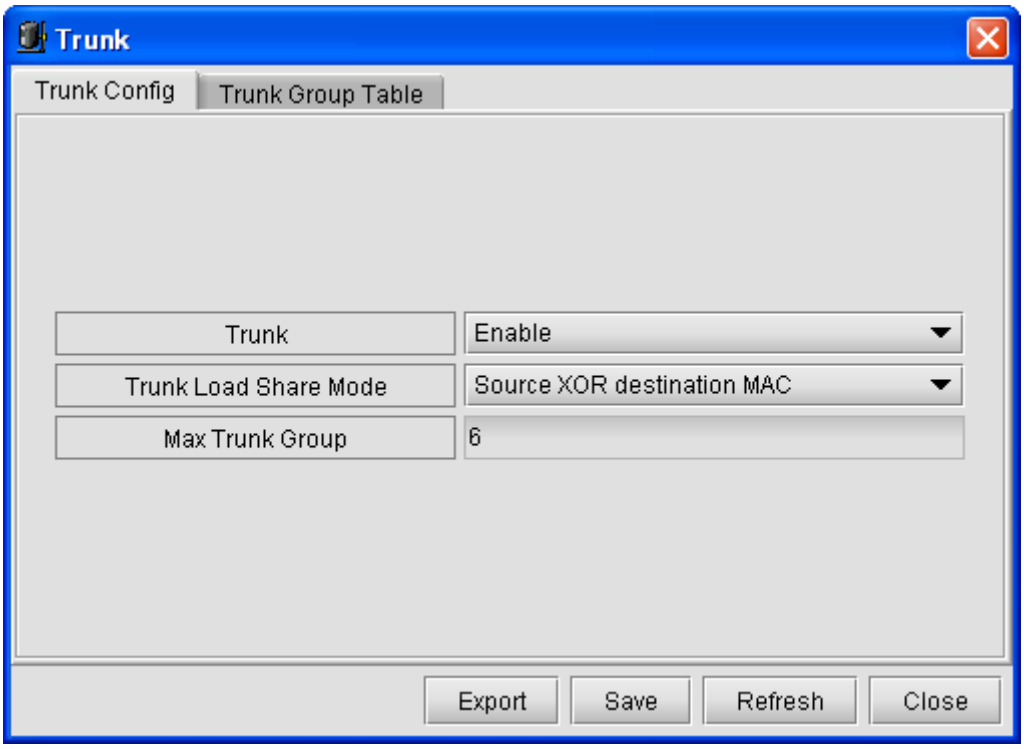


Figure 2-25 Trunk Configuration

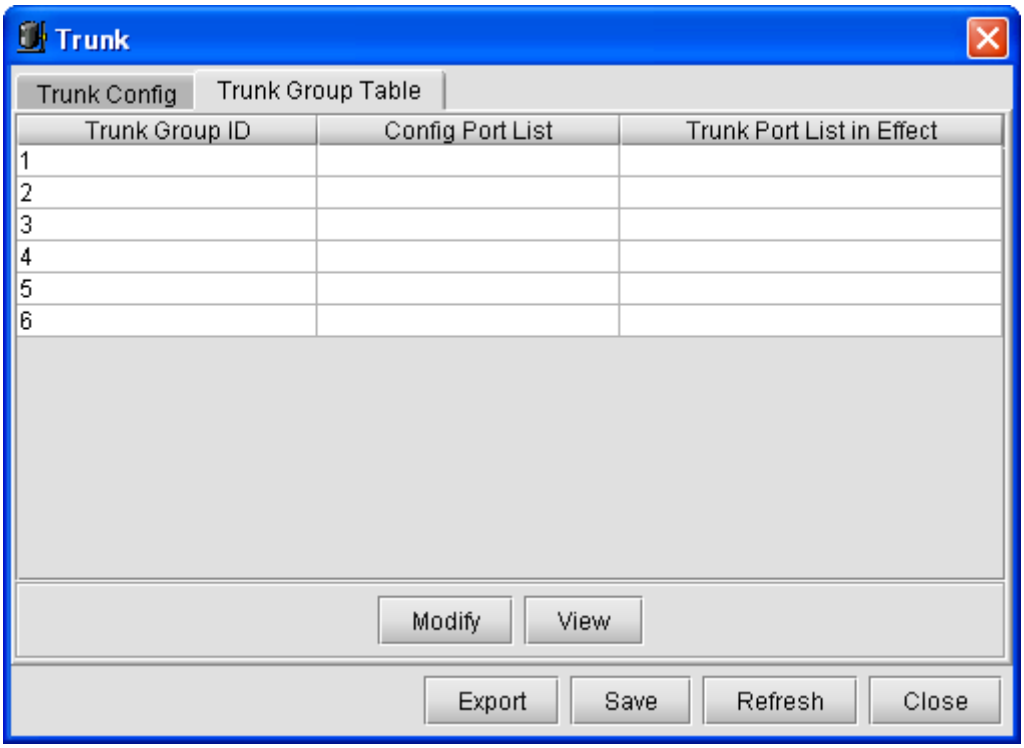


Figure 2-26 The Trunk Group Table

Bandwidth Configuration

Click [Main Menu\Device\Rate Limit], a Rate Limit dialog box similar to figure 2-27 will popup, which is useful for user viewing and configuring bandwidth information for specific Switch.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

rate-limit port-list

commands.

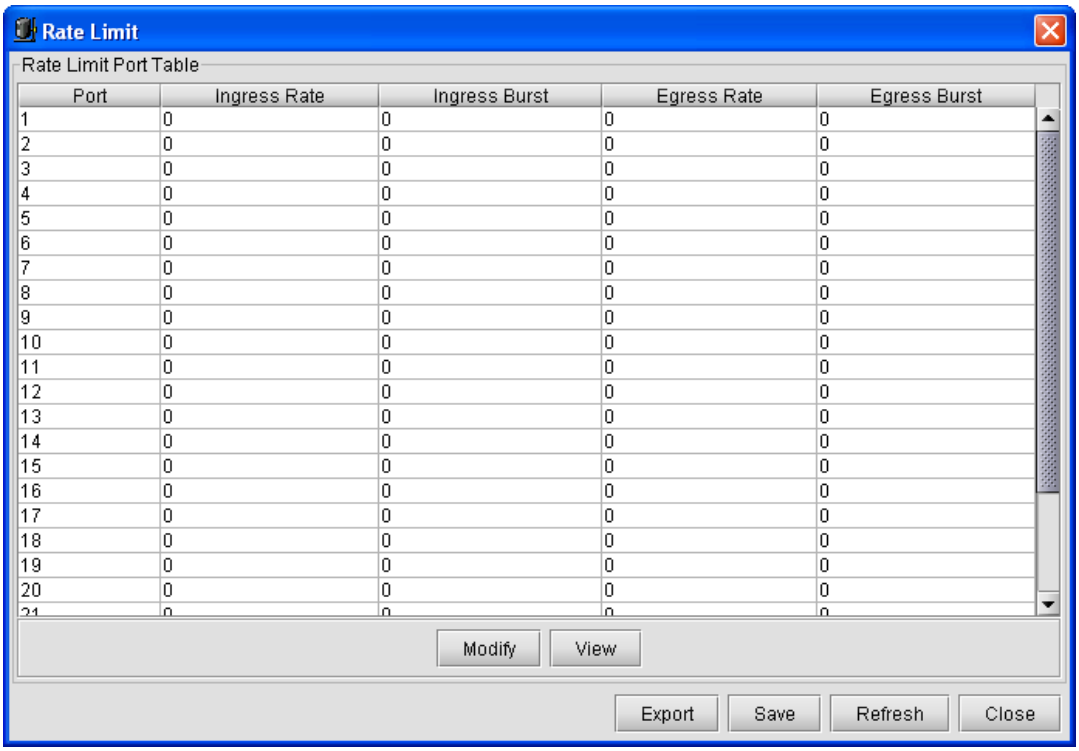


Figure 2-27 The Rate Limit dialog box

Access Control List

IP Access Control List

Click [Main Menu\Device\Access Control List\IP ACL Rule Table], an IP ACL Rule Table dialog box similar to figure 2-28 will popup, which is useful for user viewing and configuring the IP ACL information for specific Switch.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

ip-access-list

commands.

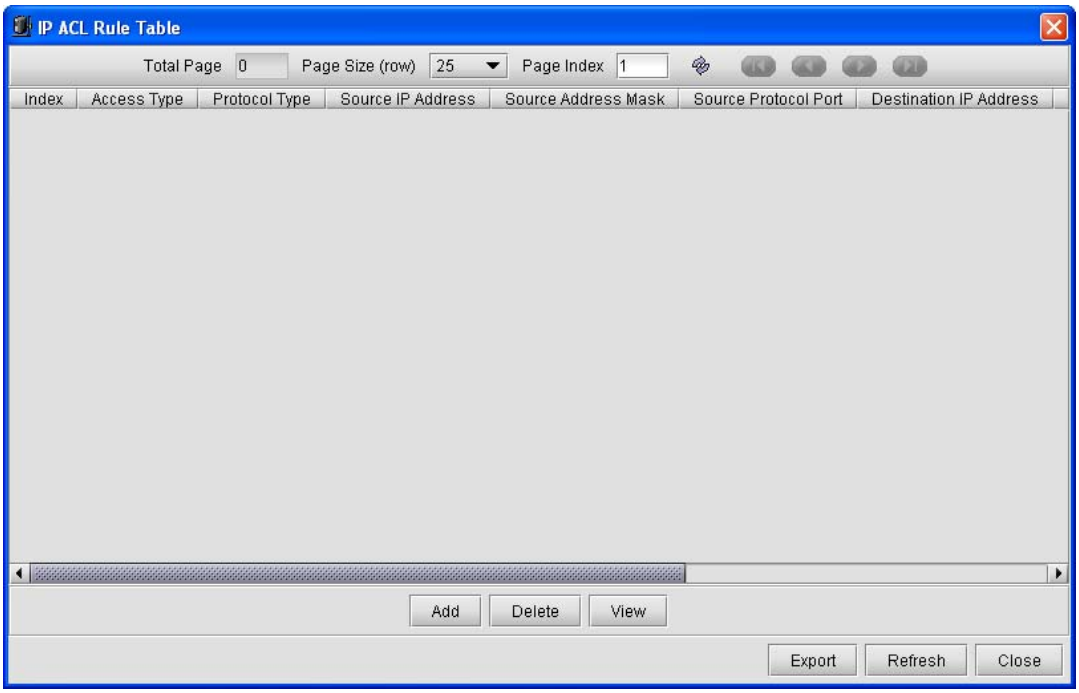


Figure 2-28 The IP ACL Rule Table

MAC Access Control List

Click [Main Menu\Device\Access Control List \MAC ACL Rule Table], a MAC ACL Rule Table dialog box similar to figure 2-29 will popup, which is useful for user viewing and configuring the MAC ACL information for specific Switch.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

mac-access-list

commands.

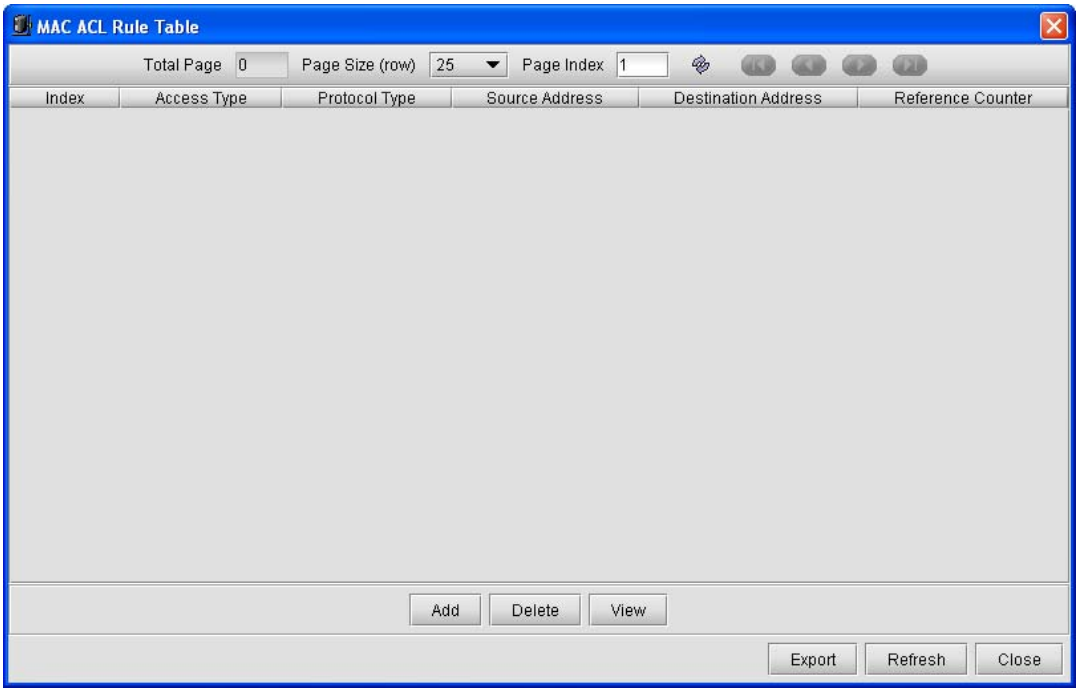


Figure 2-29 The MAC ACL Rule Table

User ACL Rule Table

Click [Main Menu\Device\Access Control List \User ACL Rule Table], a User ACL Rule Table dialog box similar to figure 2-30 will popup, which is useful for user viewing and configuring the User ACL information for specific Switch.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

user-access-list

commands.

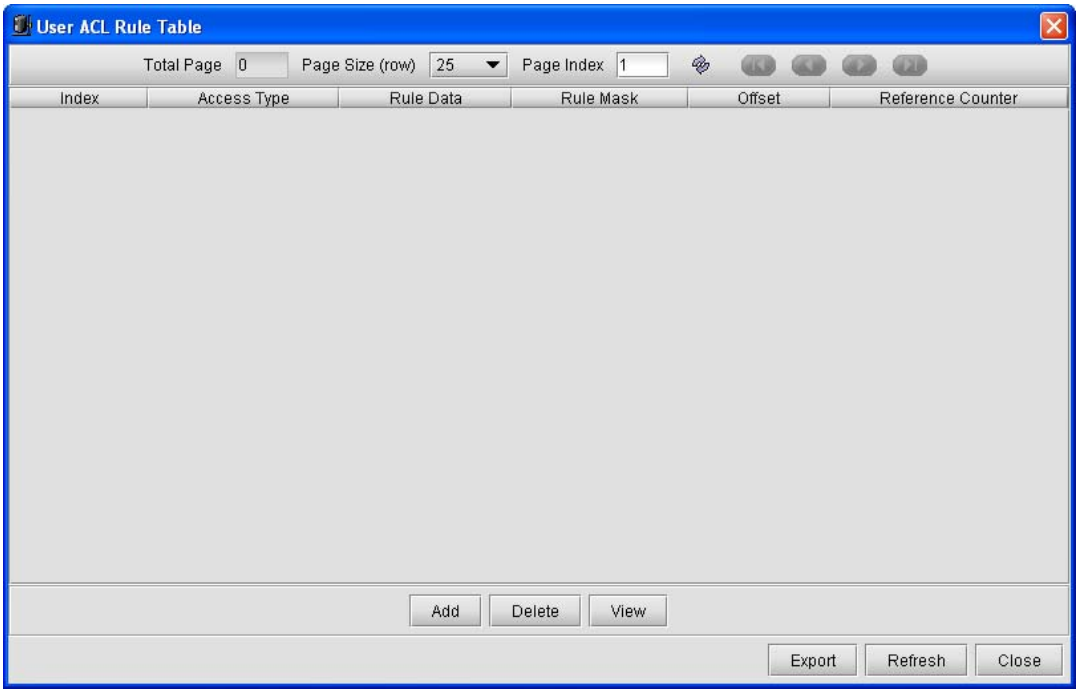


Figure 2-30 The User ACL Rule Table

Filter Rule Table

Click [Main Menu\Device\Access Control List \Filter Rule Table], a Filter Rule Table dialog box similar to figure 2-31 will popup, which is useful for user viewing and configuring the filter information within ACL for specific Switch. See figure 2-31 to 2-33 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

filter

filter enable|disable

commands.

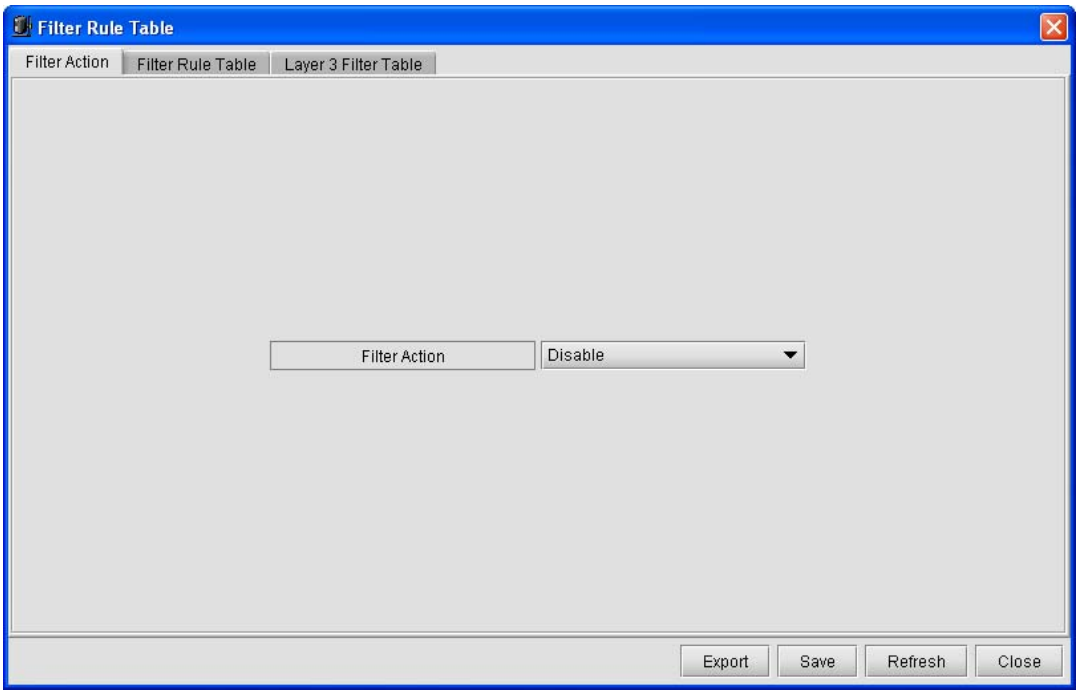


Figure 2-31 The Filter Action Tab

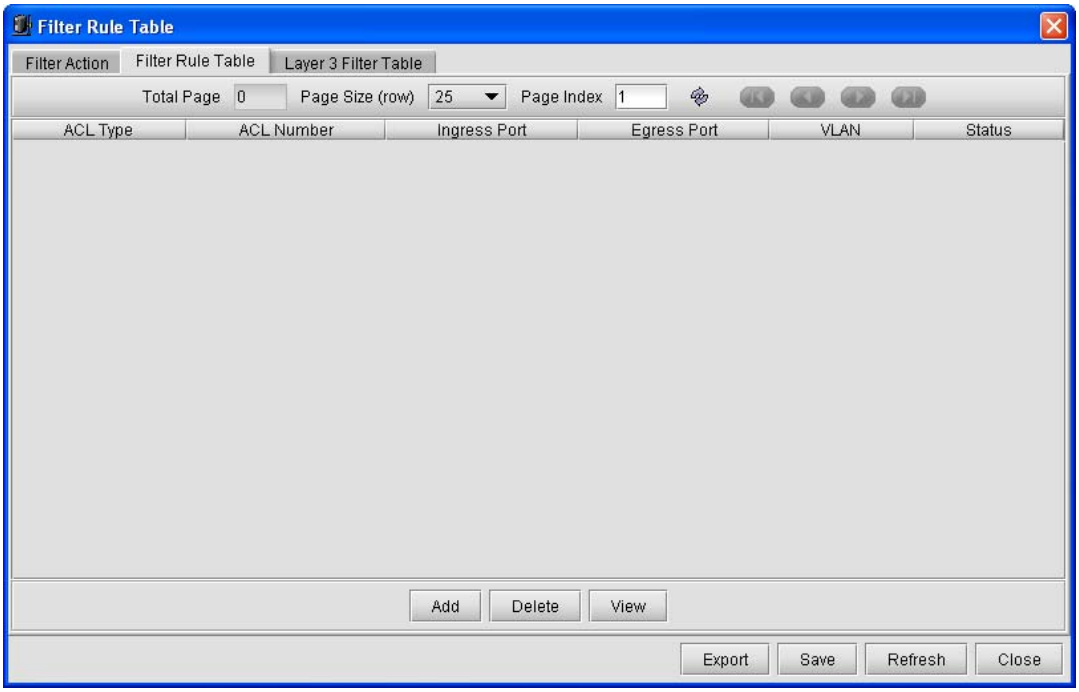


Figure 2-32 The Filter Rule Table Tab

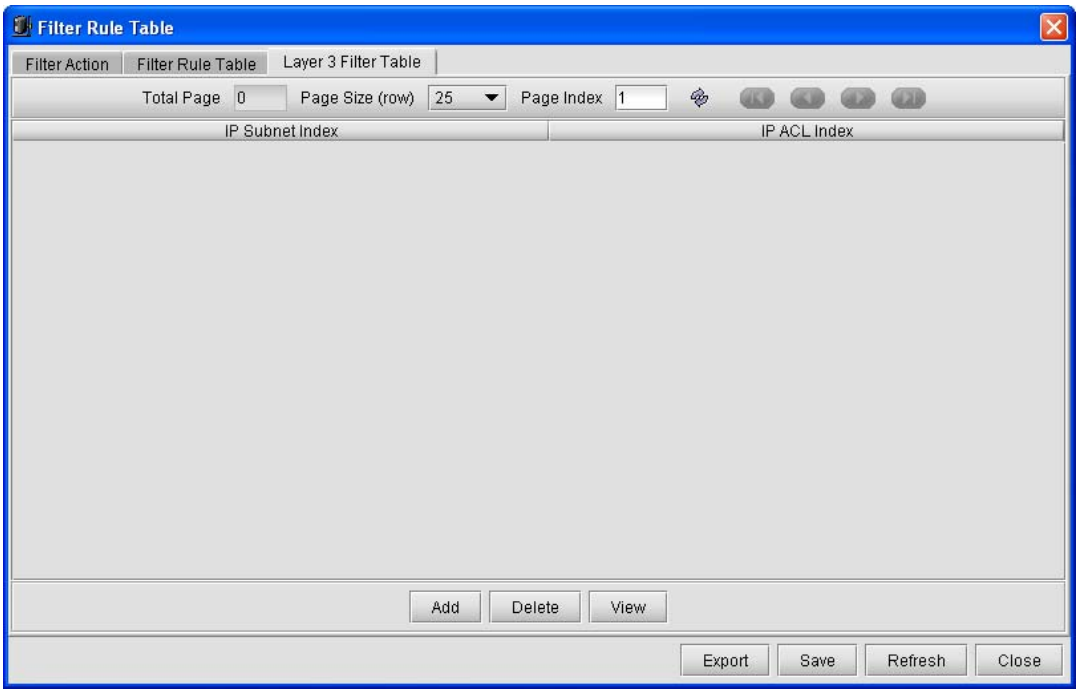


Figure 2-33 The Layer-3 Filter Table Tab

Static MAC Address Configuration

Click [Main Menu\Device\Static MAC], a Static MAC dialog box similar to figure 2-34 will popup, which is useful for user viewing and configuring static MAC address information.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

mac-address-table static unicast

commands.

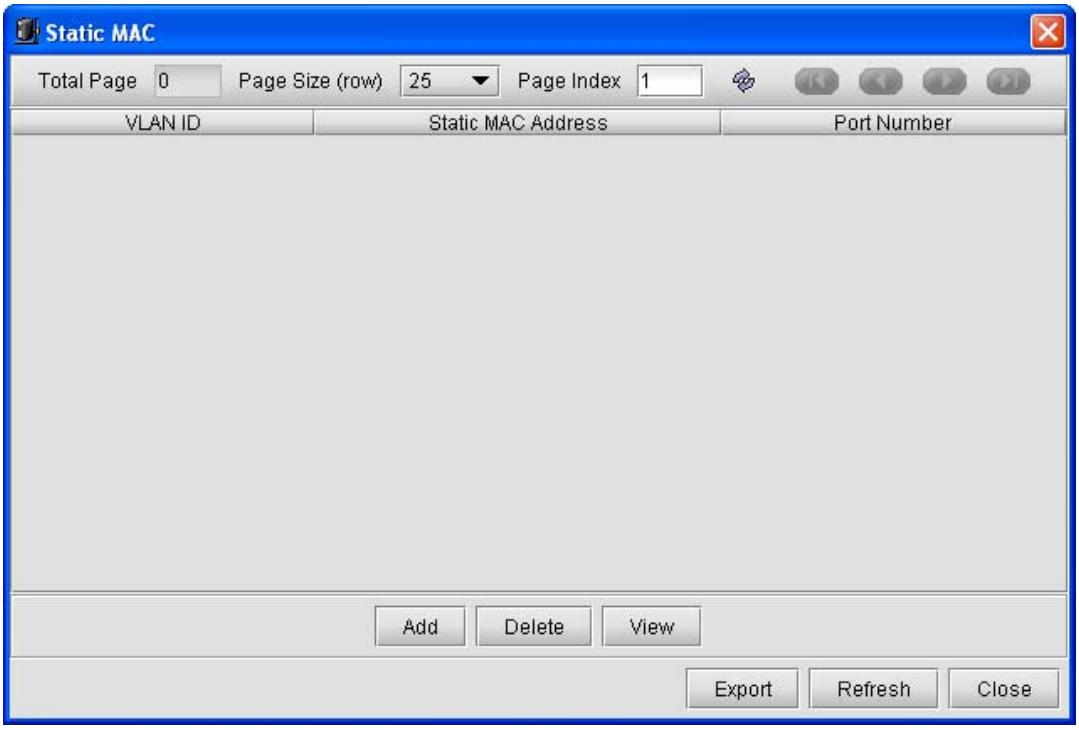


Figure 2-34 The Static MAC Address configuration

Port Mirroring Configuration

Click [Main Menu\Device\Port Mirroring], a port mirroring configuration dialog box similar to figure 2-35 will popup, which is useful for user viewing and configuring port mirroring information for specific Switch.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

mirror

mirror monitor-port

mirror source-port-list

commands.

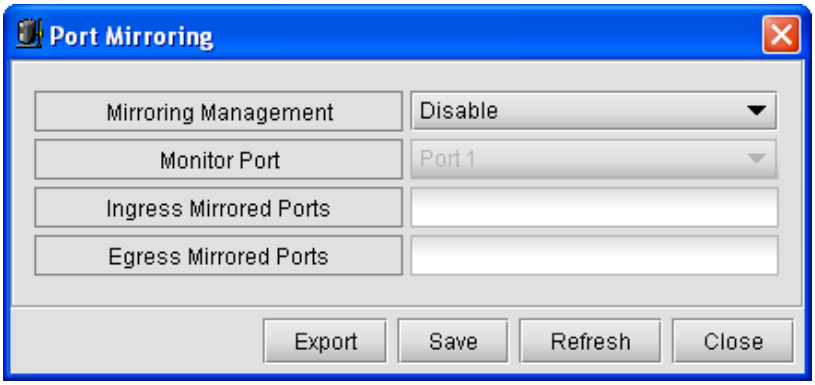


Figure 2-35 The Port Mirroring configuration

IGMP SNOOPING Configuration

Click [Main Menu\Device\IGMP Snooping], an IGMP Snooping dialog box similar to figure 2-36 will popup, which is useful for user viewing and configuring IGMP Snooping information for specific Switch.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

ip igmp snooping

ip igmp snooping immediate-leave

ip igmp snooping mrouter

ip igmp snooping vlan

ip igmp snooping vlan vlanlist immediate-leave

ip igmp snooping timeout

commands.

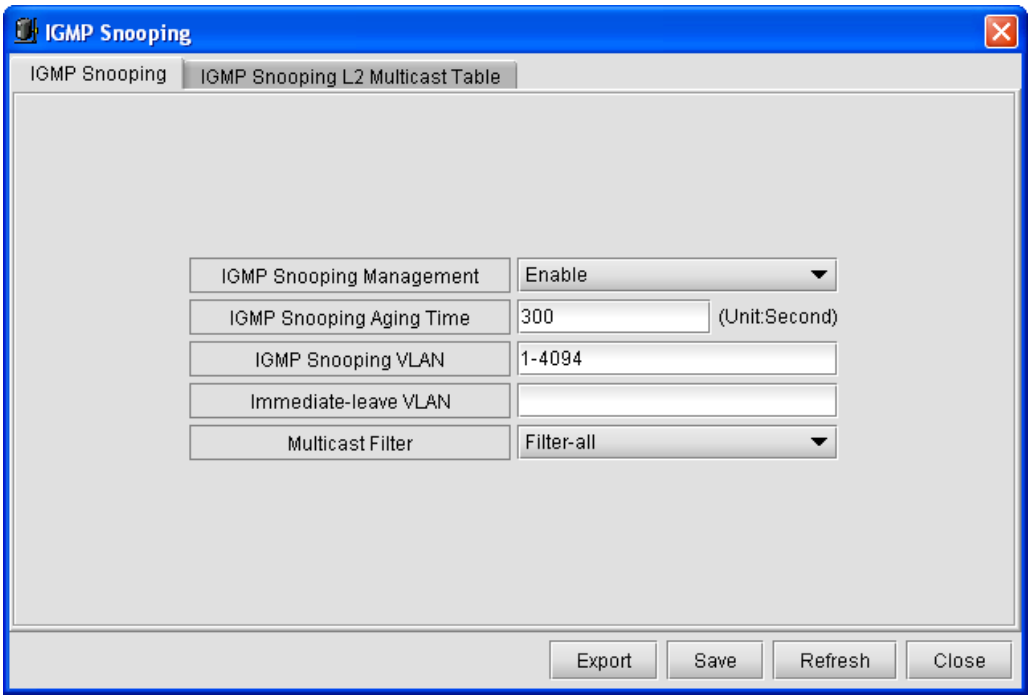


Figure 2-36 The IGMP SNOOPING configuration

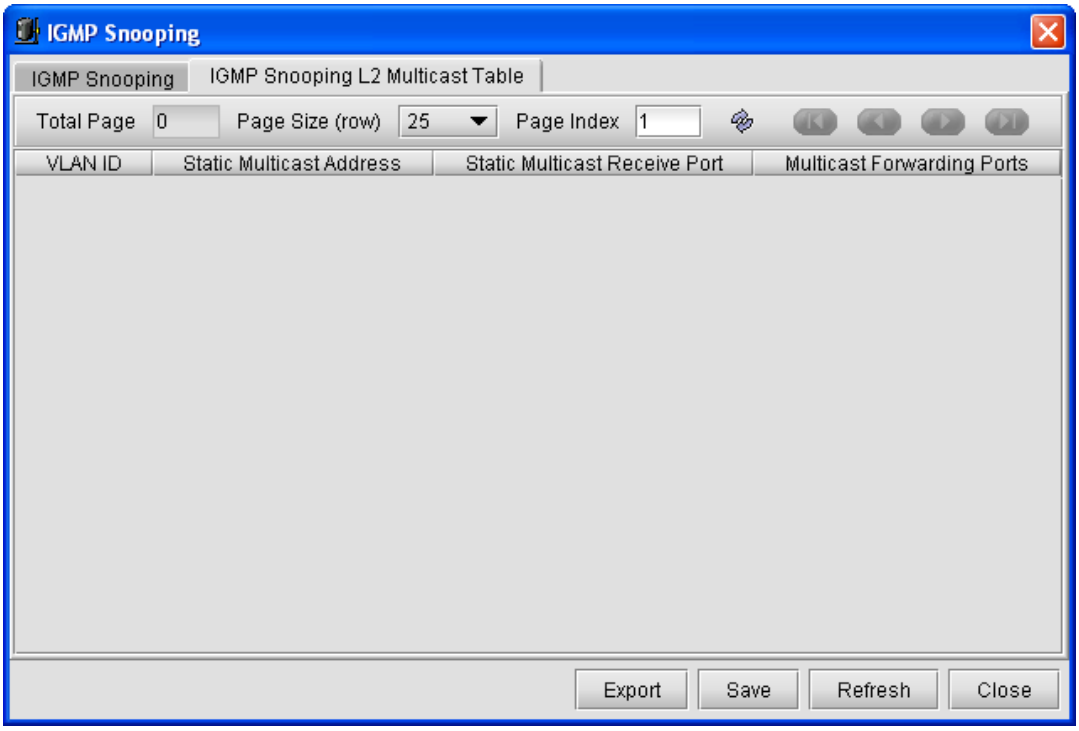


Figure 2-37 The Lay-2 Multicast Table

MVR Configuration

Click [Main Menu\Device\MVR Configuration], an MVR Configuration dialog box will popup, which is useful for user viewing and configuring MVR information for specific Switch. See figure 2-38 to 2-41 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

mvr disable

mvr enable

mvr group

mvr mode

mvr timeout

mvr vlan

commands.

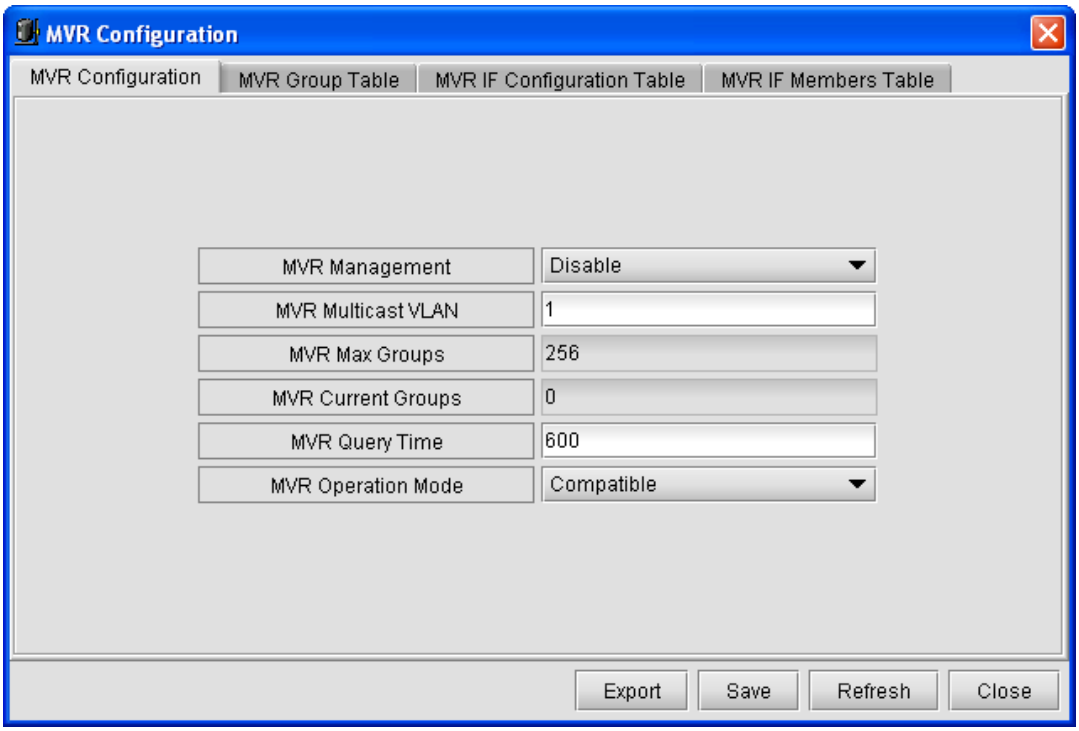


Figure 2-38 The MVR Configuration

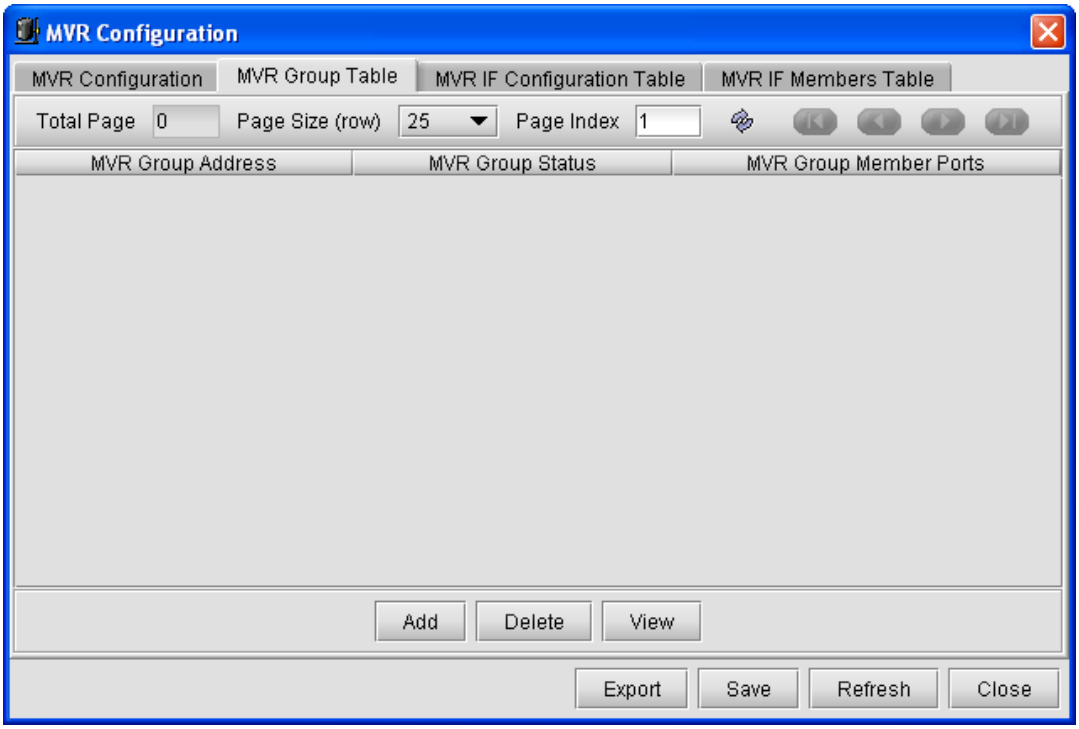


Figure 2-39 The MVR Multicast Group Table

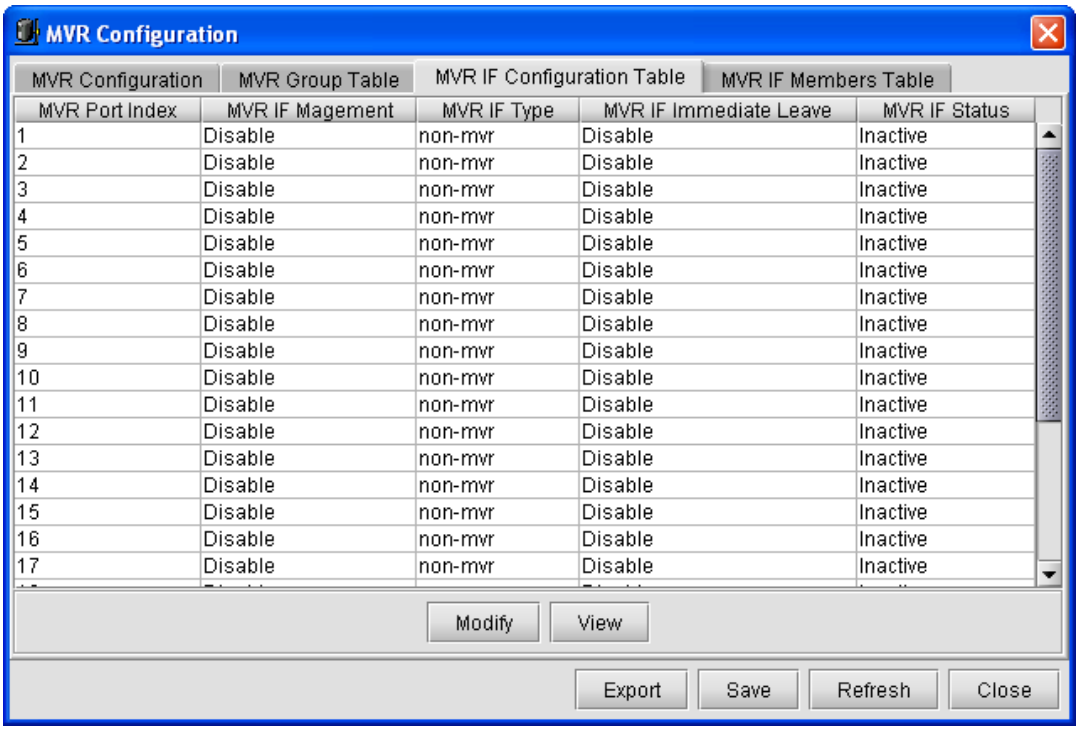


Figure 2-40 The MVR IF Configuration Table

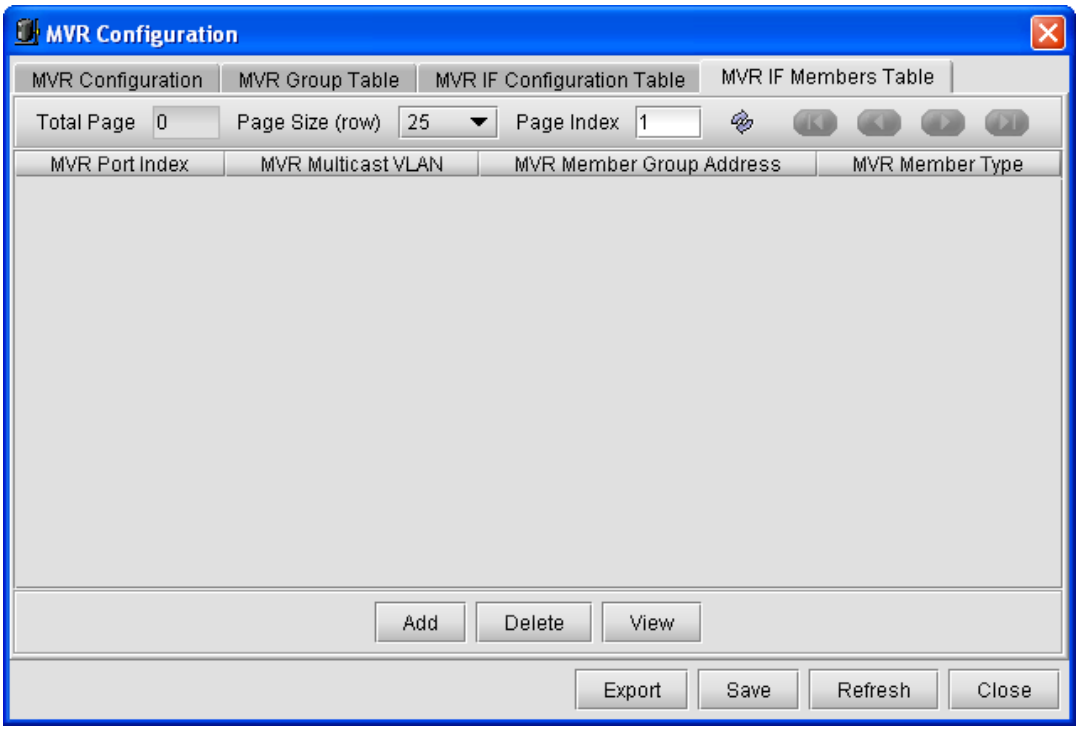


Figure 2-41 The MVR IF Members Table

IGMP Filter Configuration

Click [Main Menu\Device\IGMP Filter Configuration], an IGMP Filter Configuration dialog box will popup, which is useful for user viewing and configuring IGMP Filter information for specific Switch. See figure 2-42 to 2-44 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

ip igmp filter

ip igmp profile

commands.

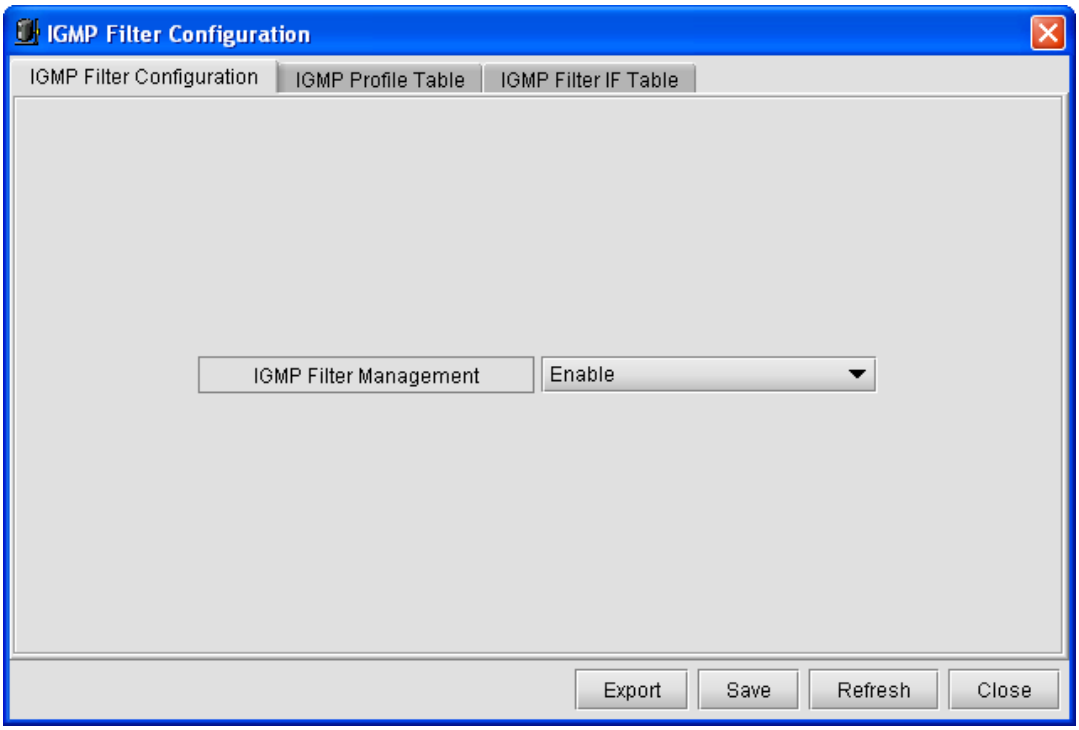


Figure 2-42 The IGMP Filter configuration

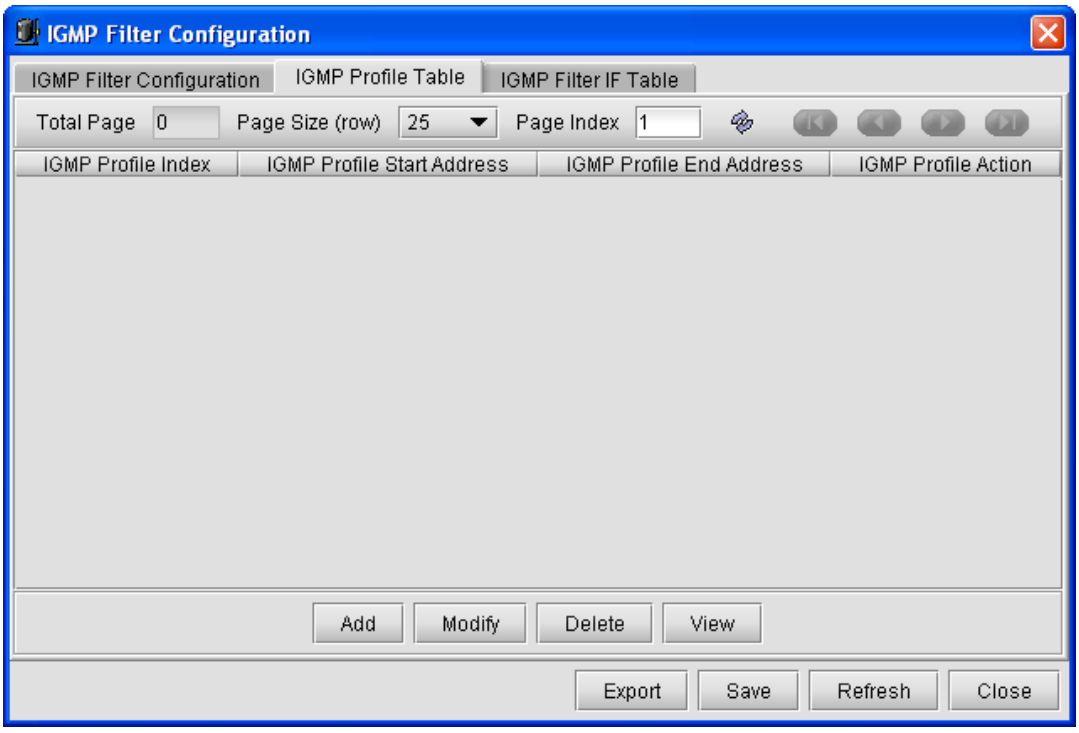


Figure 2-43 The IGMP Profile Table

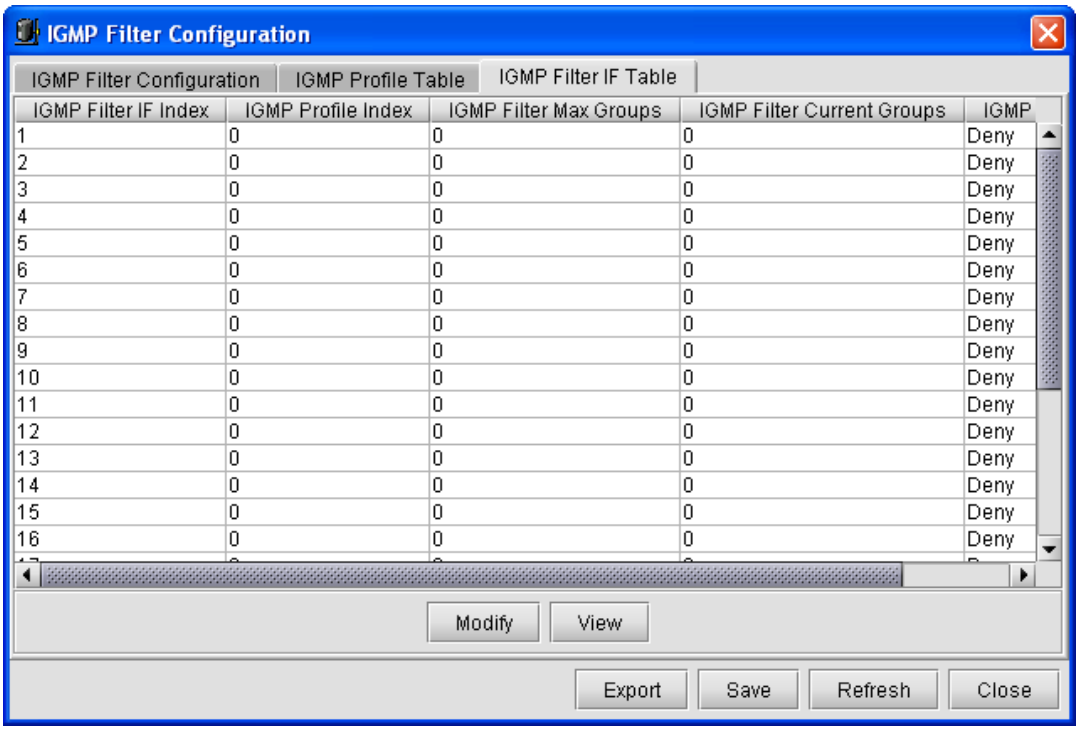


Figure 2-44 The IGMP Filter IF Table

QoS Configuration

QoS Configuration

Click [Main Menu\Device\QoS\QoS Configuration], an QoS Configuration dialog box will popup, which is useful for user viewing and configuring information regarding global QoS and QoS port for specific Switch. See figure 2-45 and 2-46 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

mls qos

mls qos default-cos

mls qos default-dscp

mls qos dscp-mutation

commands.

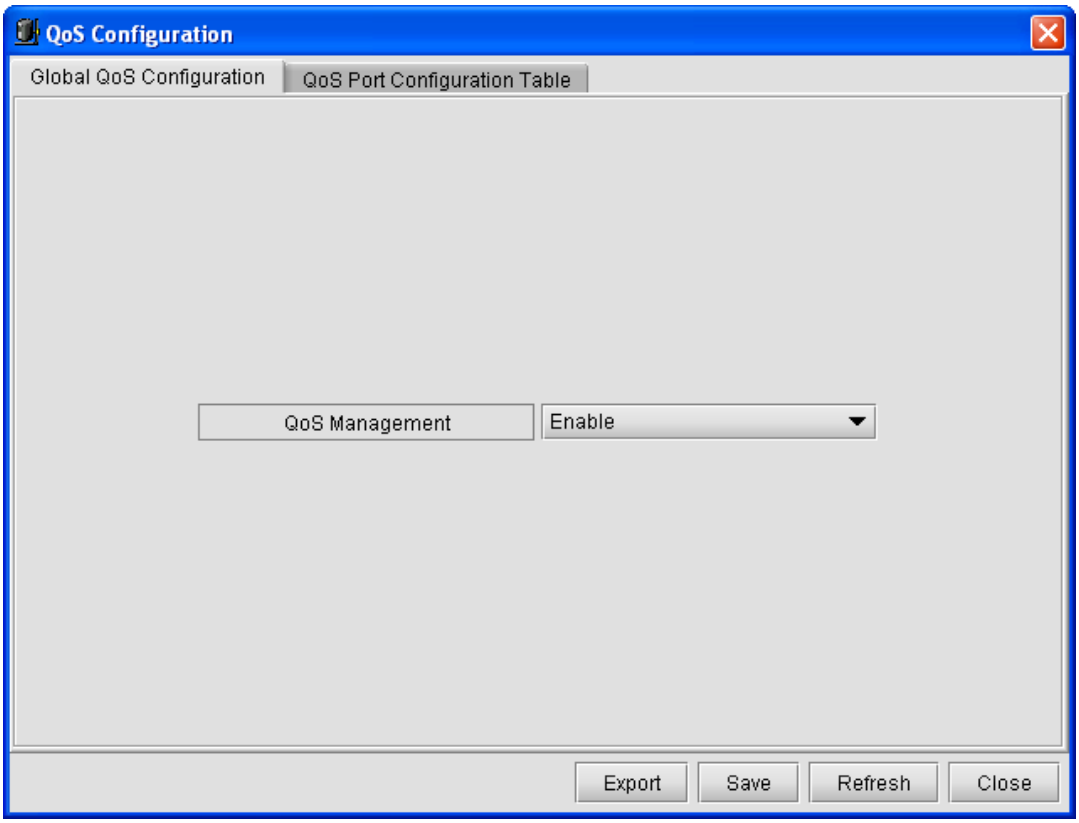


Figure 2-45 The global QoS configuration

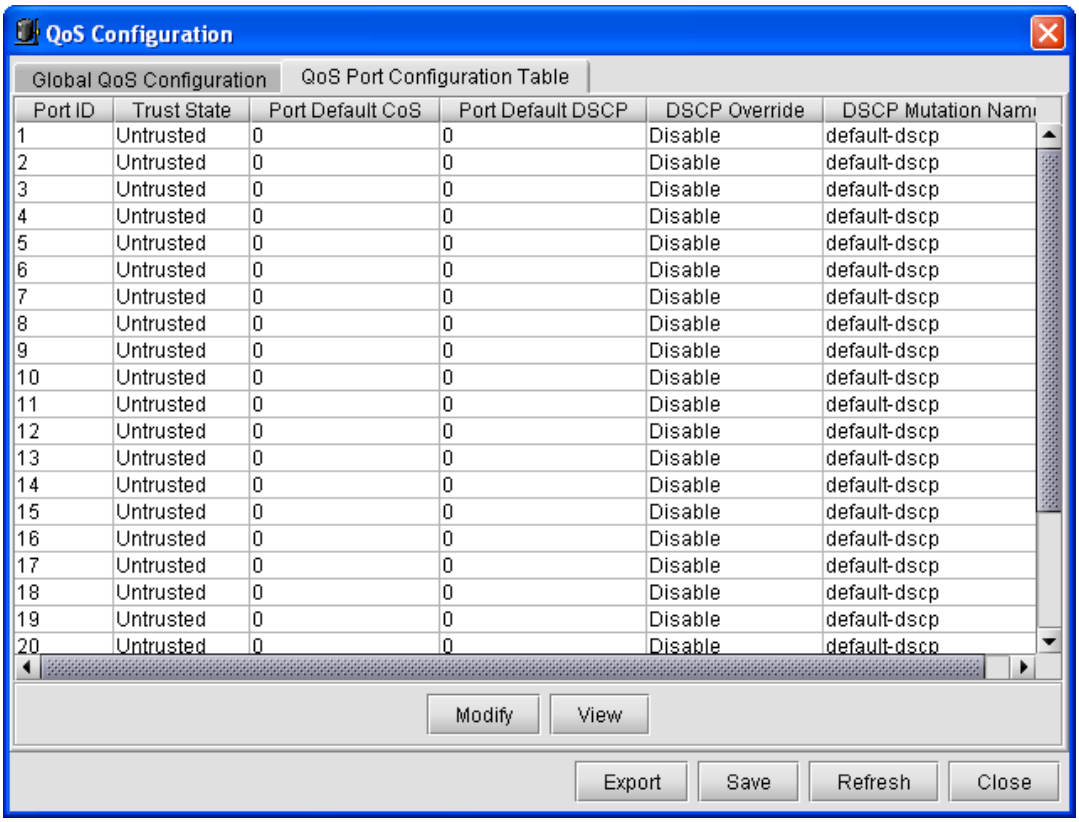


Figure 2-46 The QoS port configuration

QoS Traffic Class

Click [Main Menu\Device\QoS\QoS Traffic Class], a QoS Traffic Class dialog box will popup, which is useful for user viewing and configuring information regarding QoS port,

Policy Map, Match Statement, Policer and Action. See figure 2-47 and 2-52 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

class-map

description(class-map)

description(policy-map)

match

mls qos {aggregate-policer |class-policer | single-policer }

police

policy-map

commands.

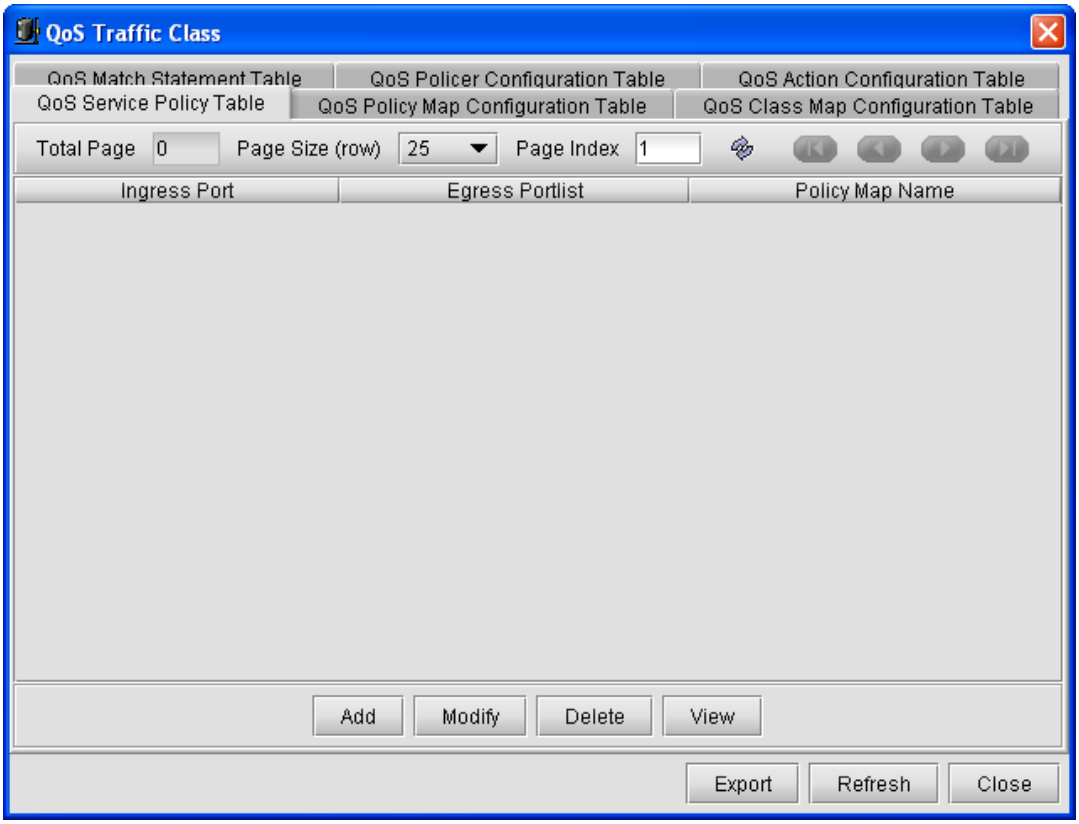


Figure 2-47 The QoS Service Policy Table

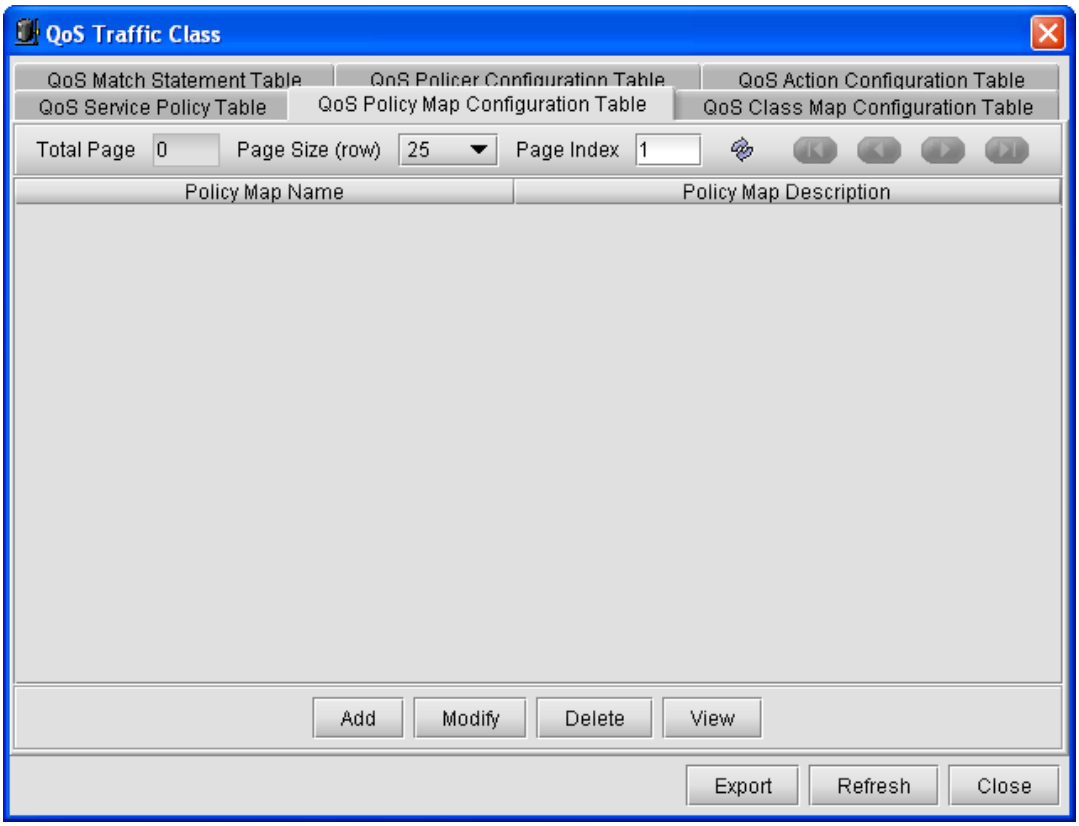


Figure 2-48 The QoS Policy Map information

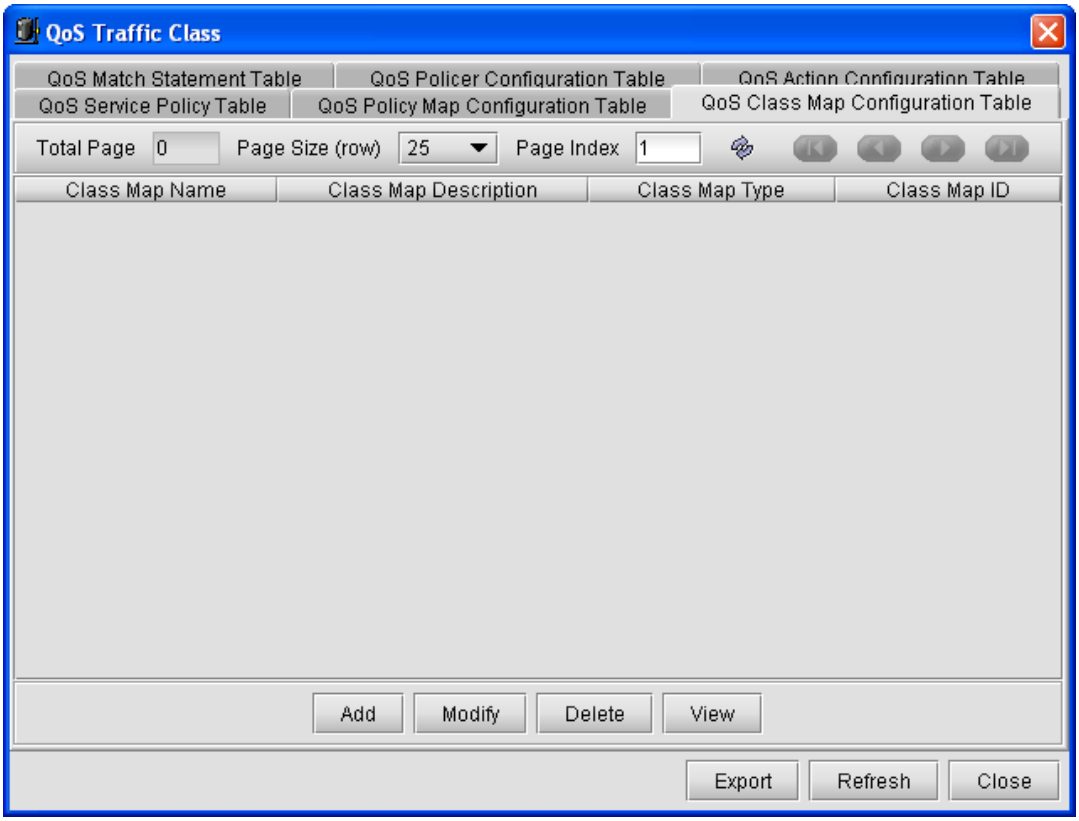


Figure 2-49 The QoS Class Map information

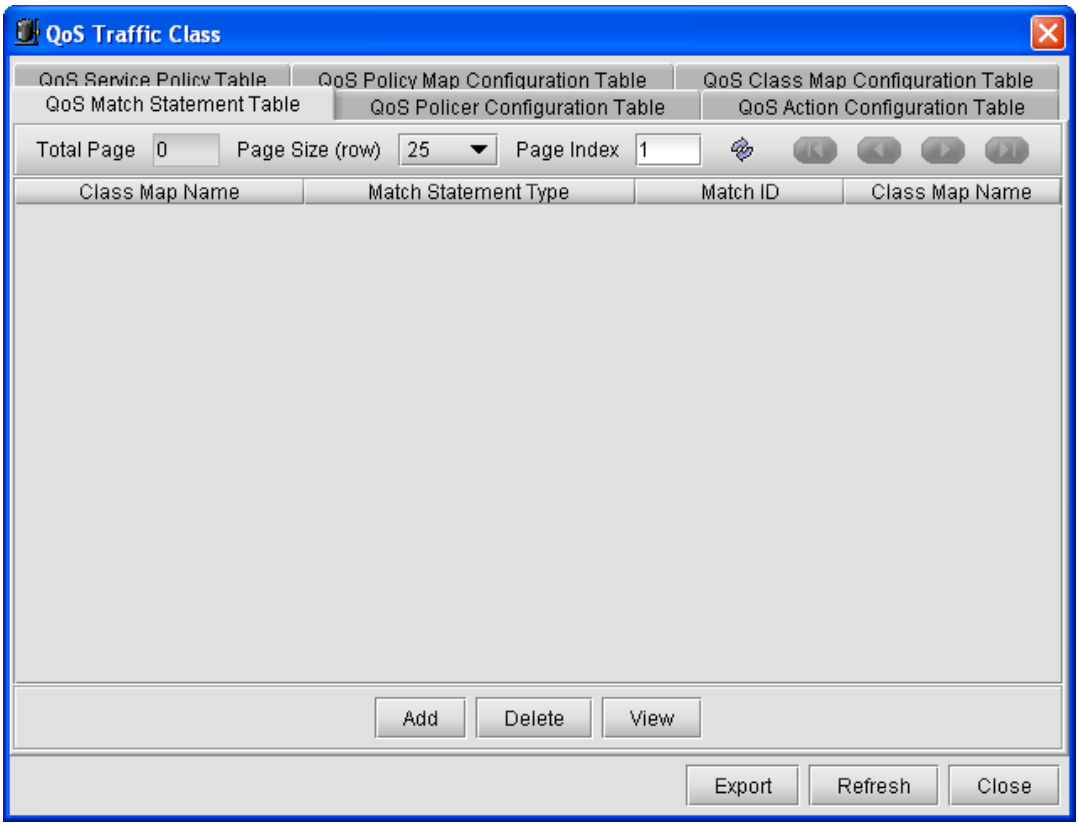


Figure 2-50 The QoS Match Statement information

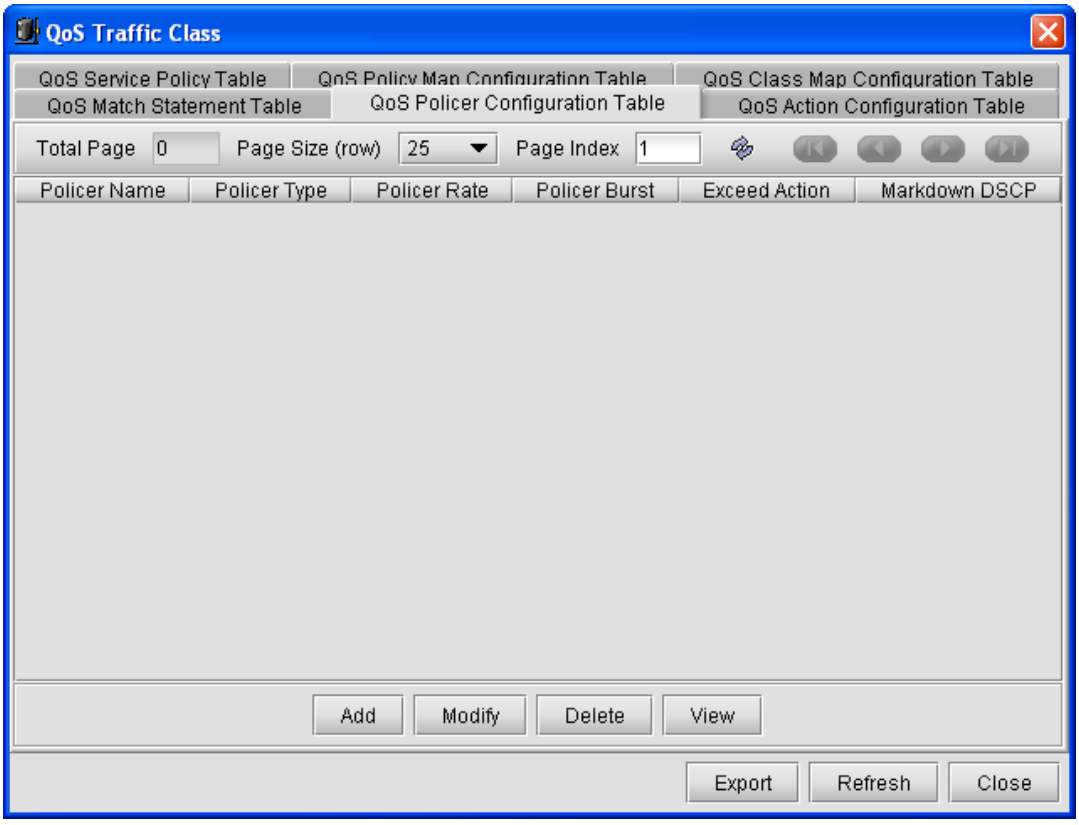


Figure 2-51 The QoS Policer information

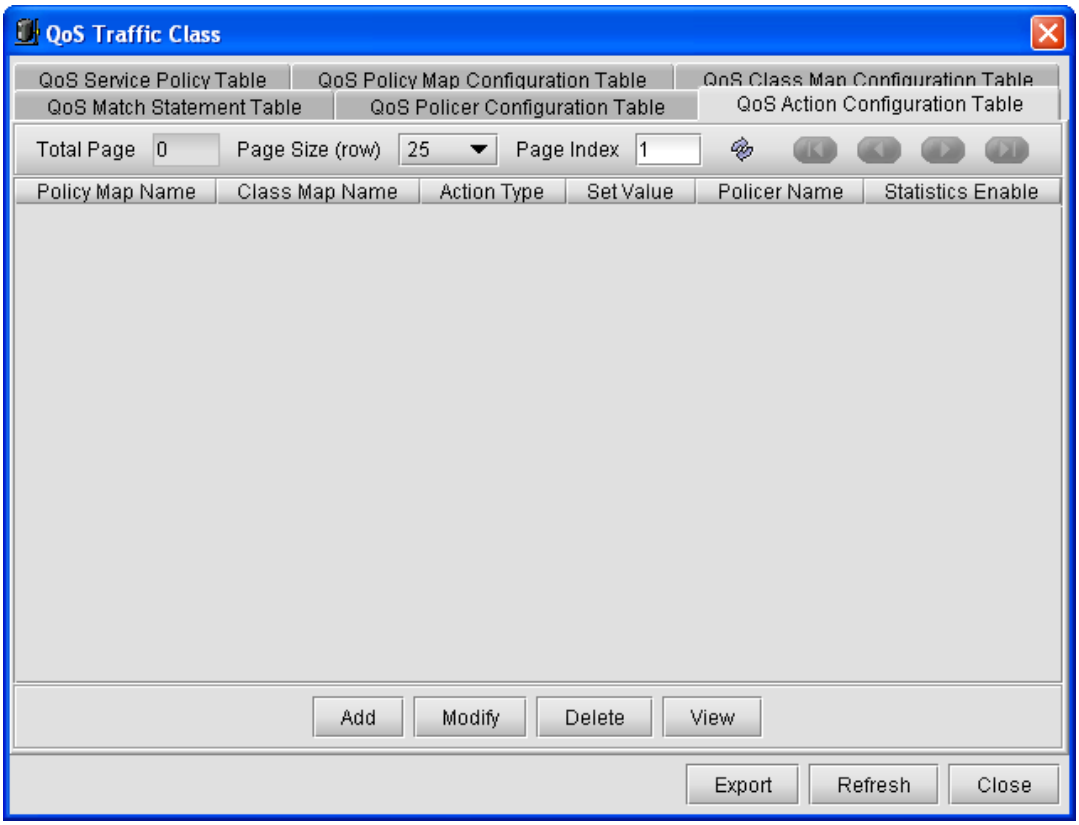


Figure 2-52 The QoS Action information

QoS Mapping

Click [Main Menu\Device\QoS\QoS Mapping], a QoS Mapping dialog box will popup, which is useful for user viewing and configuring information regarding: DSCP Mutation, Mapping from CoS to DSCP, Mapping from ToS to DSCP, and Mapping from DSCP to CoS . See figure 2-53 and 2-56 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

mls qos map cos-dscp

mls qos map dscp-cos

mls qos map dscp-mutation

mls qos map ip-prec-dscp

commands.

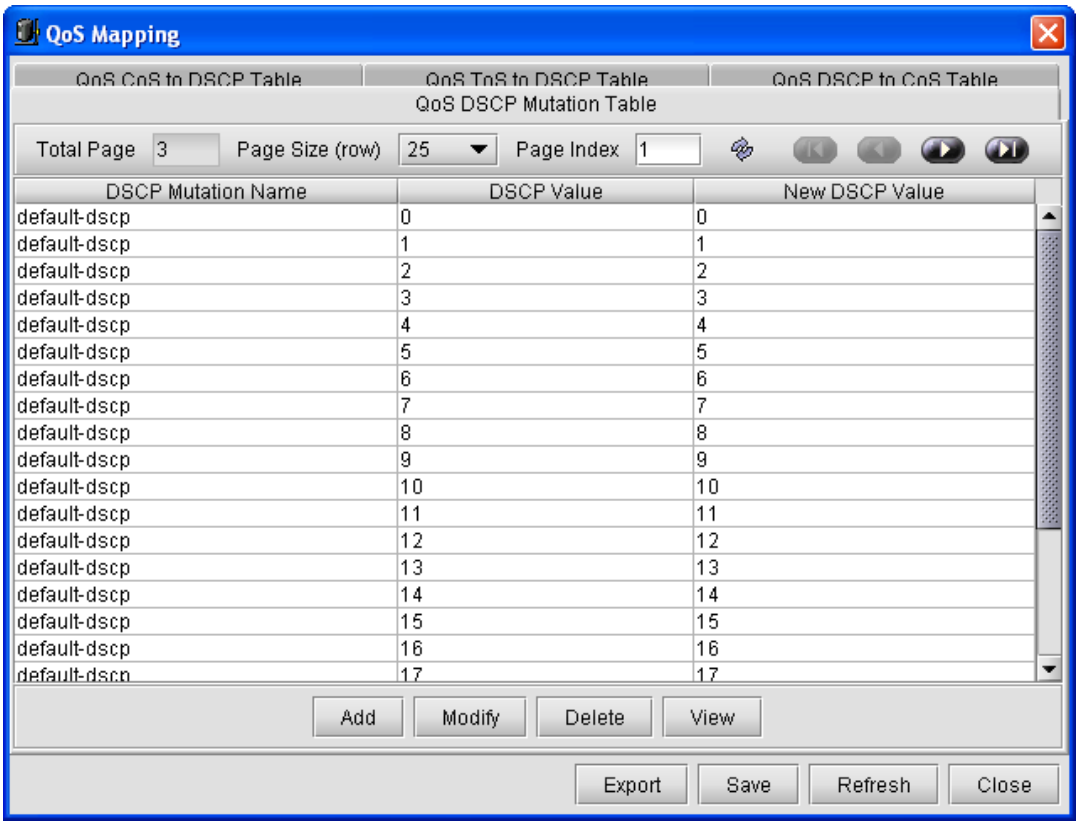


Figure 2-53 DSCP Mutation Configuration

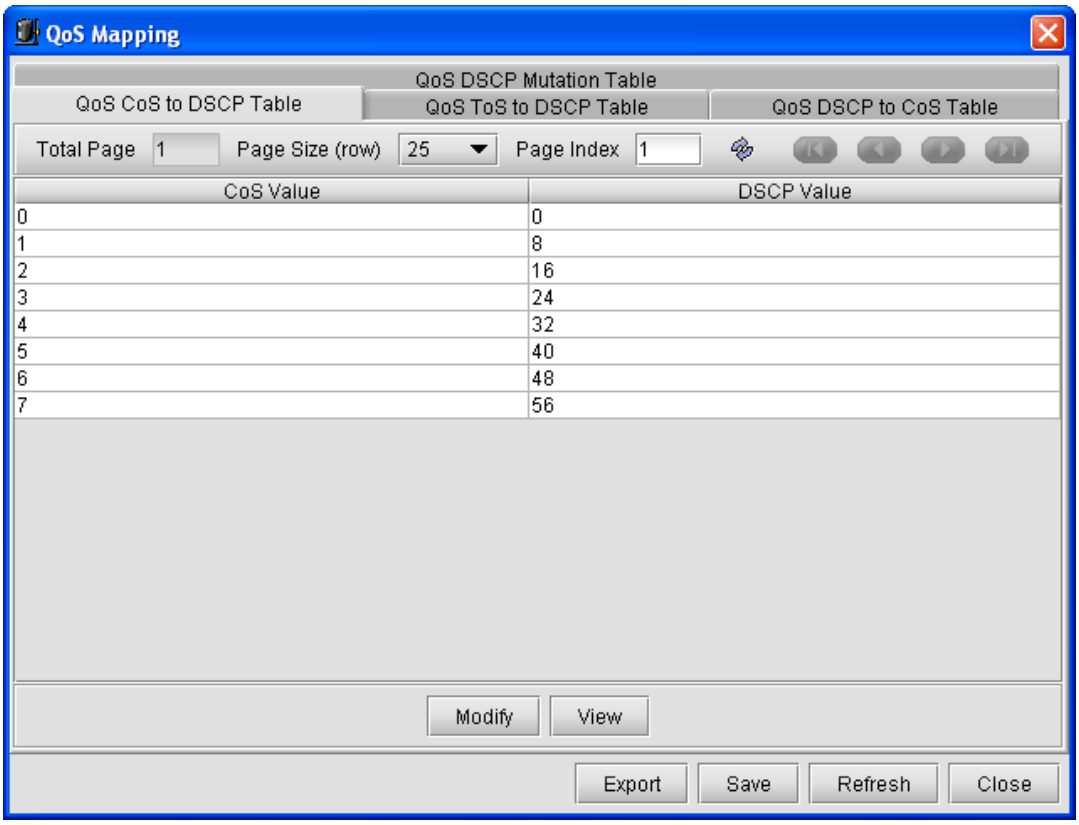


Figure 2-54 Mapping from CoS to DSCP

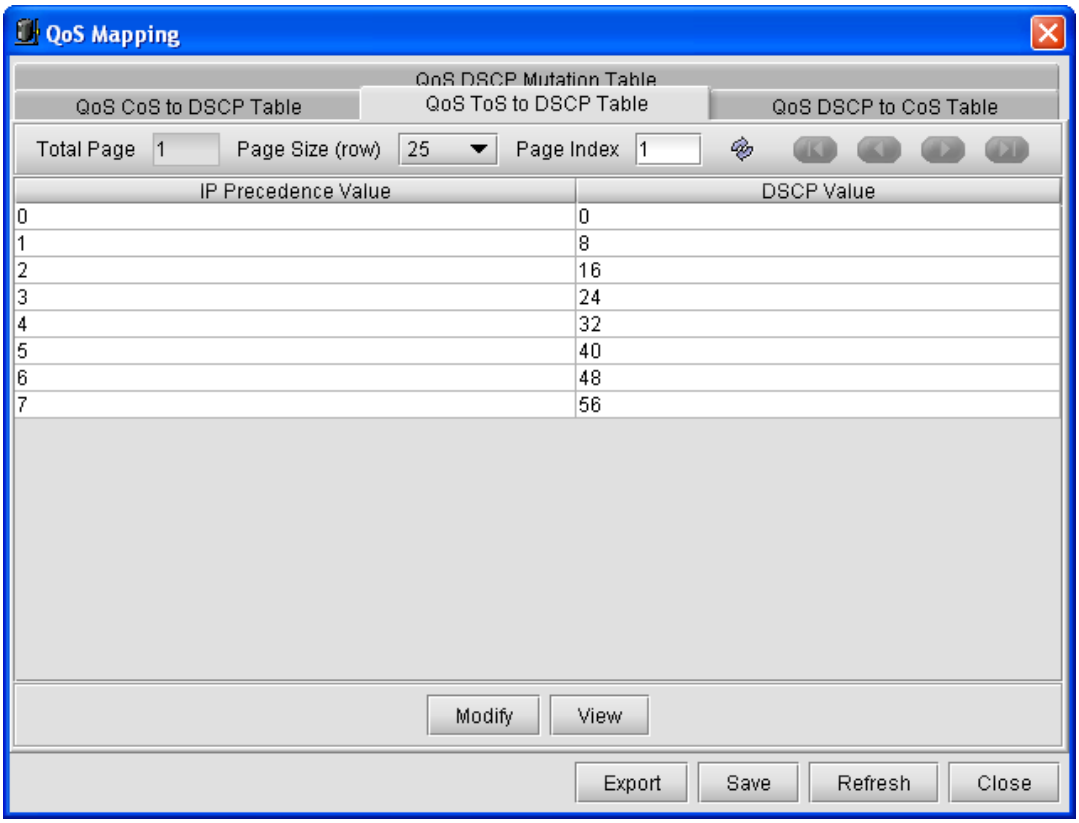


Figure 2-55 Mapping from ToS to DSCP

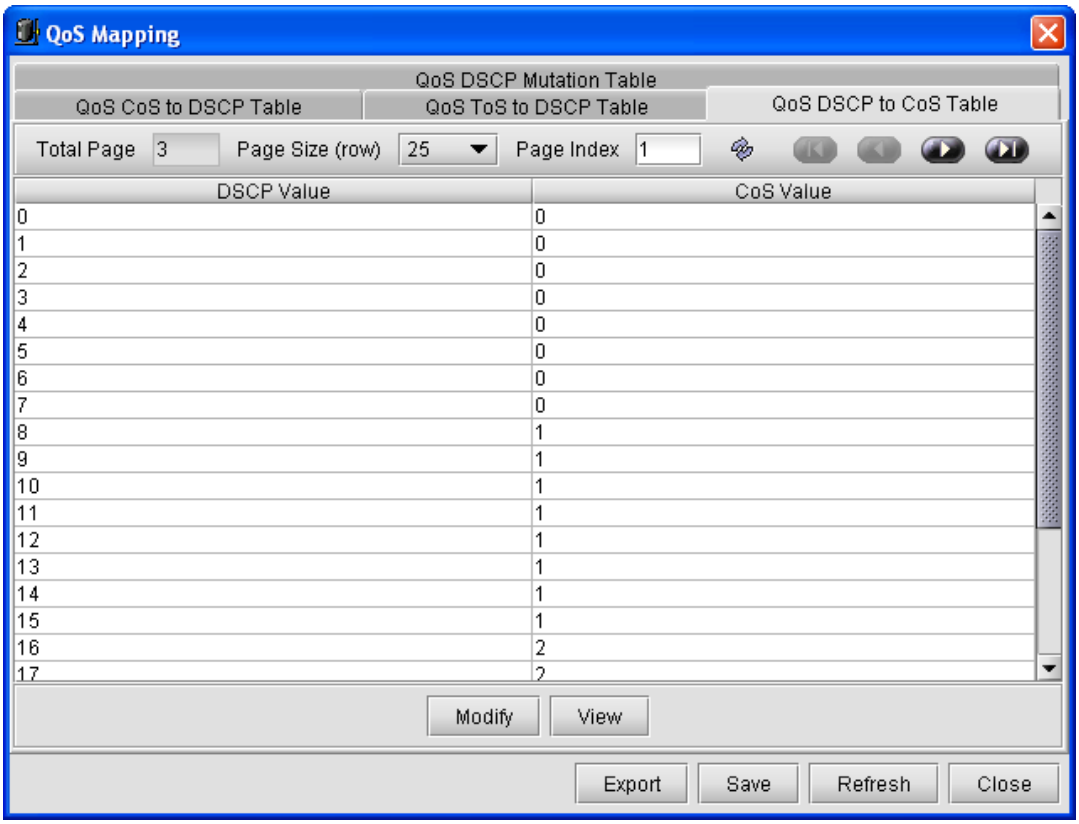


Figure 2-56 Mapping from DSCP to CoS

QoS Queue

Click [Main Menu\Device\QoS\QoS Queue], a QoS Queue dialog box will popup, which is

useful for user viewing and configuring information regarding QoS queue. See figure 2-57 and 2-59 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

queue bounded-delay

queue cos-map

queue strict-priority

queue wrr-weight

commands.

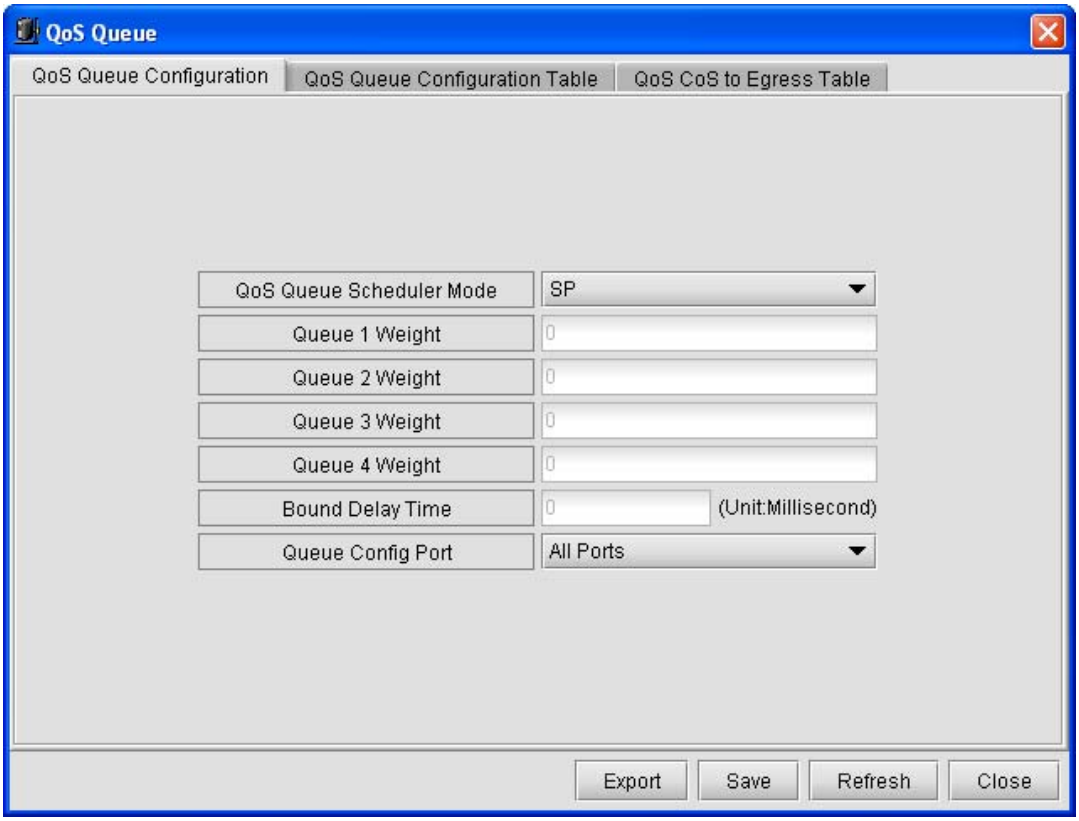


Figure 2-57 Configure the QoS Queue

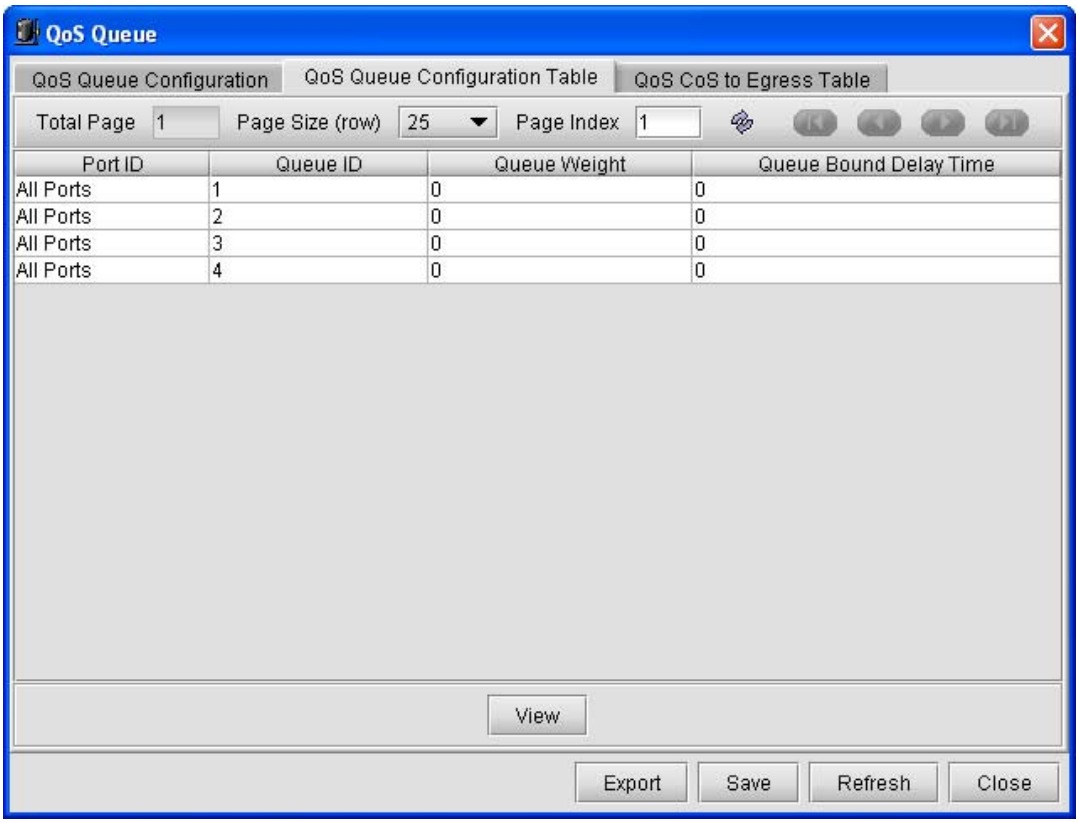


Figure 2-58 The QoS Queue Information

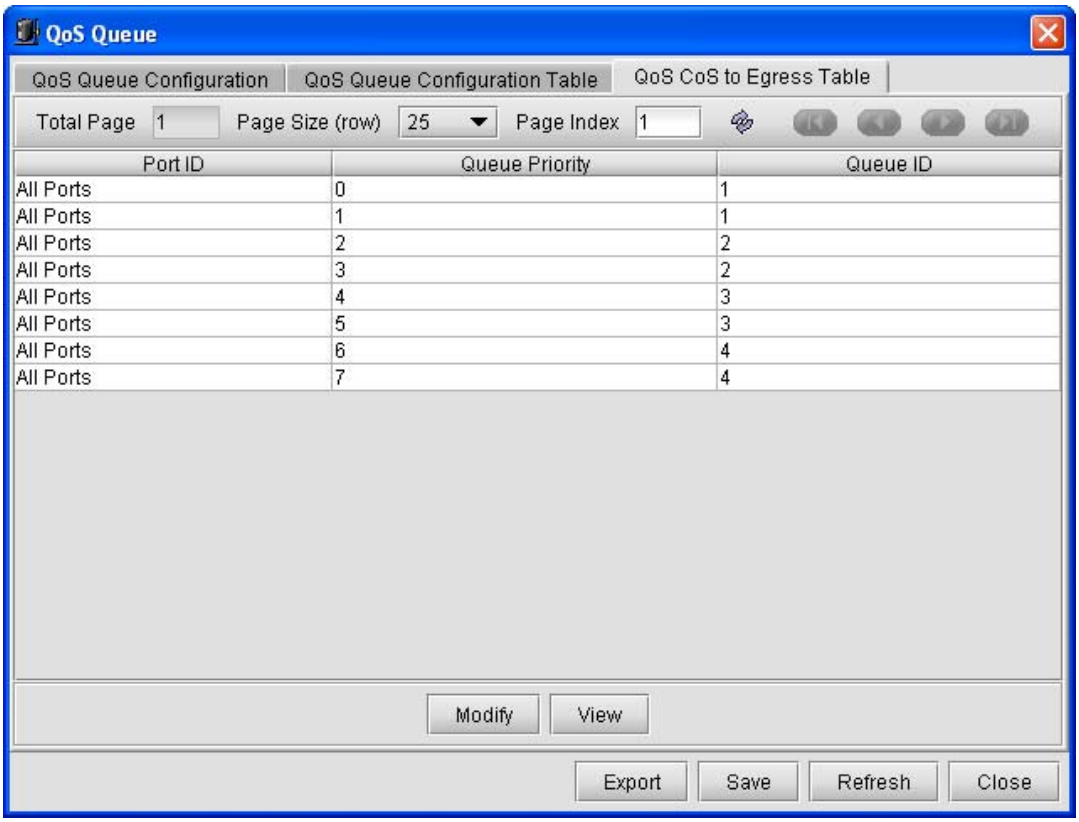


Figure 2-59 The CoS to Egress table

SNTP Client Configuration

Click [Main Menu\Device\SNTP Client], a SNTP Client dialog box similar to figure 2-60 will popup, which is useful for user viewing and configuring SNTP (Simple Network Time

Protocol) Client information.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

sntp server

commands.

NOTE: After you have set address of SNTP Client, click the <Save> button. The Switch will synchronize the time immediately from the configured address.

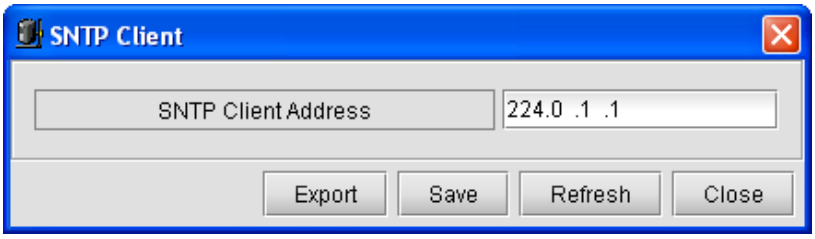


Figure 2-60 The SNTP Client Configuration

SysLog Configuration

Click [Main Menu\Device\Syslog], a Syslog dialog box will popup, which is useful for user viewing and configuring SYSLOG information for specific Switch. See figure 2-61 to 2-63 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

debug

logging console

logging file

logging host

logging monitor

logging on

logging rate

logging time-stamp

commands.

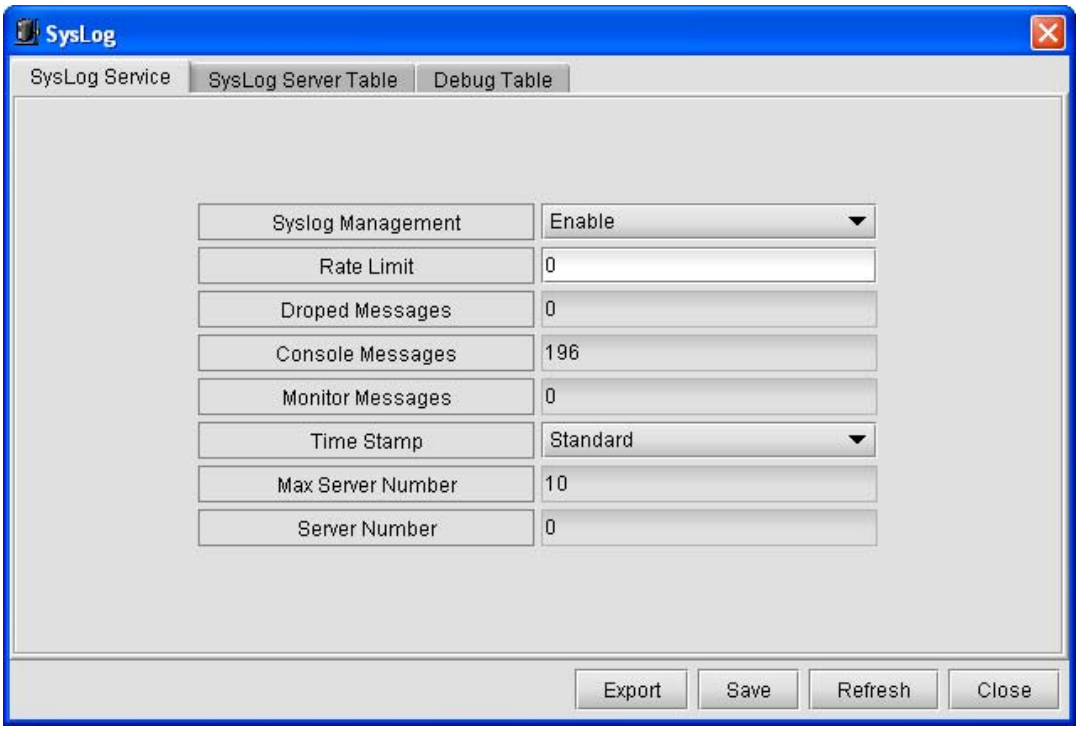


Figure 2-61 The SysLog Server Information

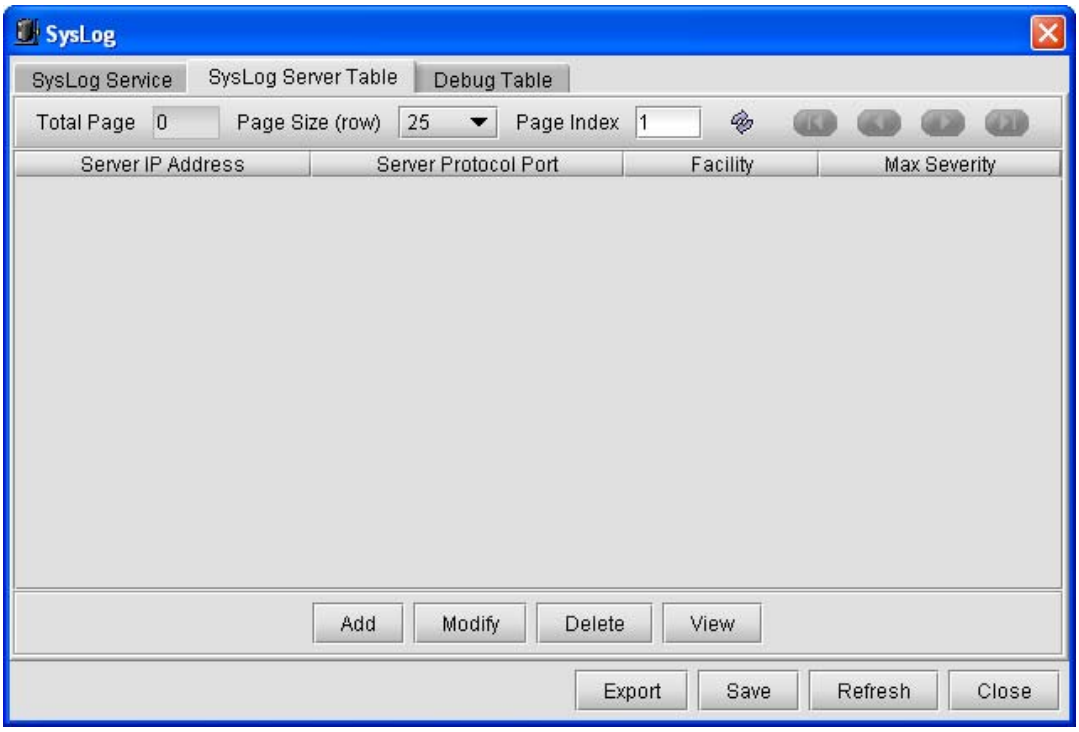


Figure 2-62 The SysLog Server Table

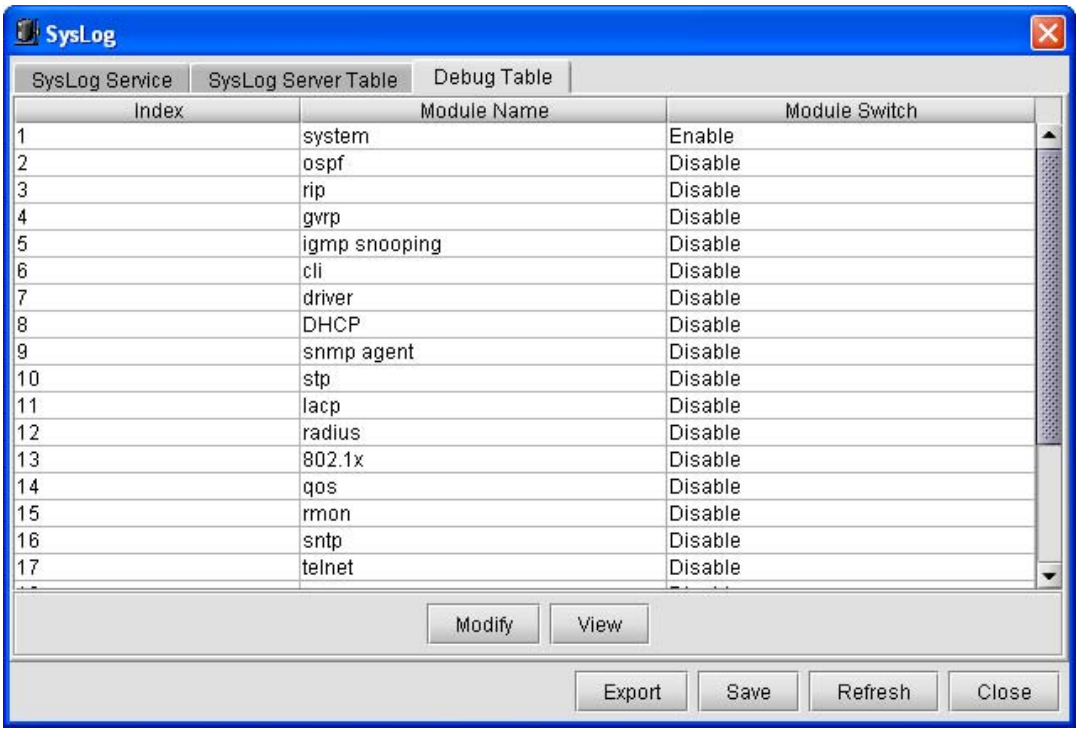


Figure 2-63 The Debug Table

SNMP Community Table

Click [Main Menu\Device\SNMP Community], a SNMP Community Table dialog box will popup, which is useful for user viewing and configuring information related to SNMP Community. See figure 2-64 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for snmp-server community

commands.

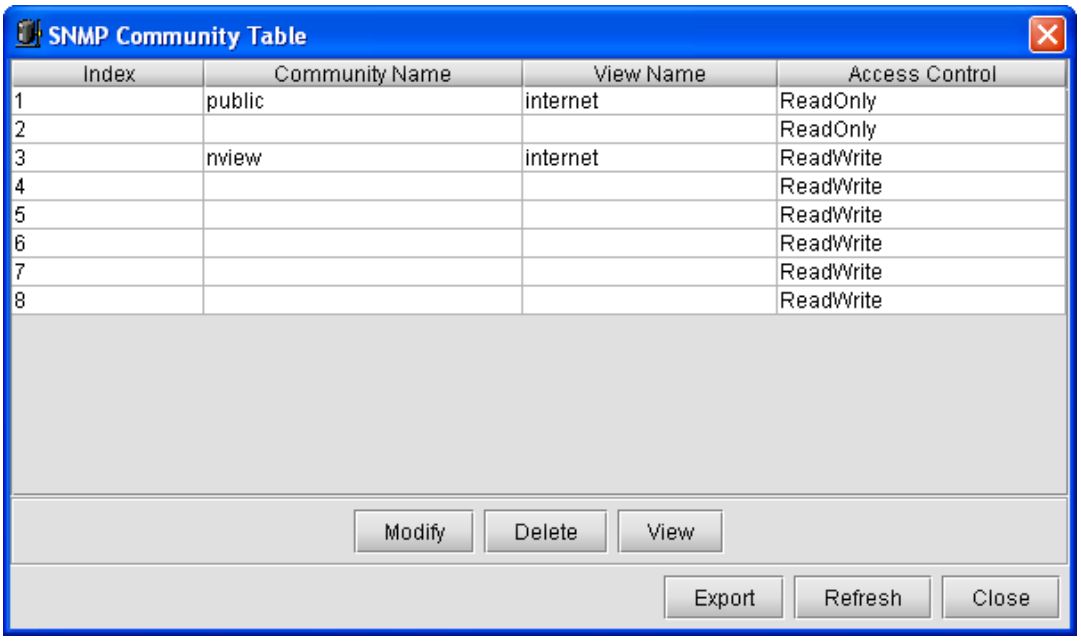


Figure 2-64 The SNMP Community Table

User Authentication And Management

Click [Main Menu\Device\User Config], a user configuration dialog box will popup, which is useful for user accessing and configuring the account information. See figure 2-65 and 2-66 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

radius

radius-key

user

user login

user name privilege

commands.

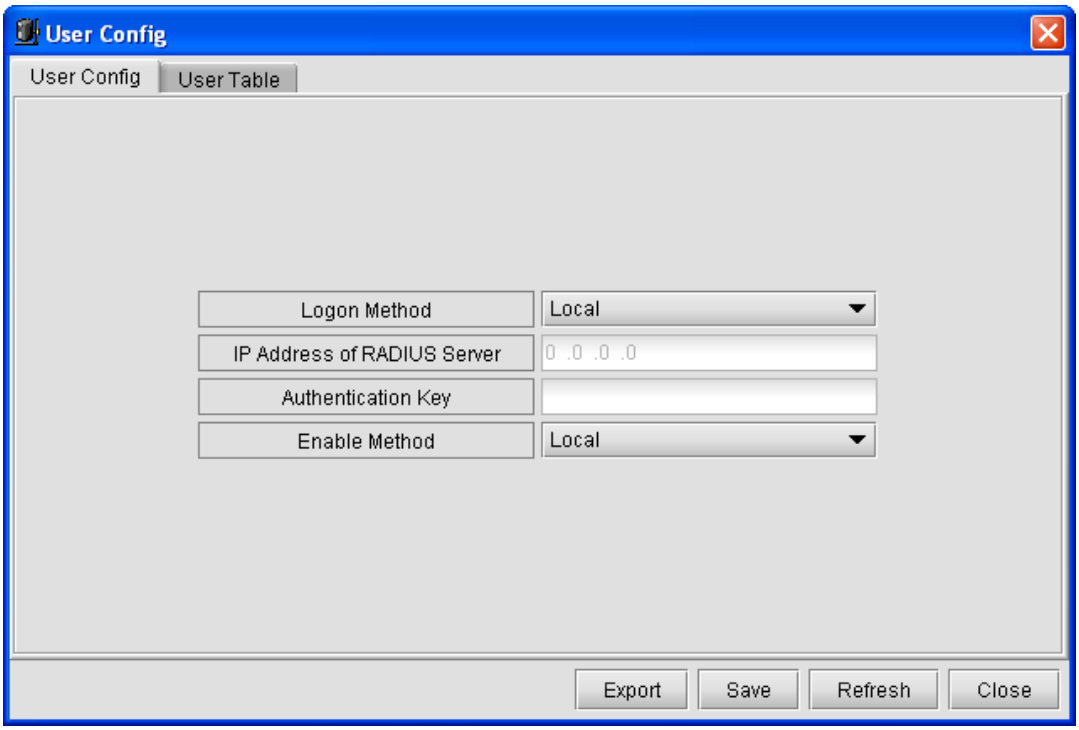


Figure 2-65 The User Configuration

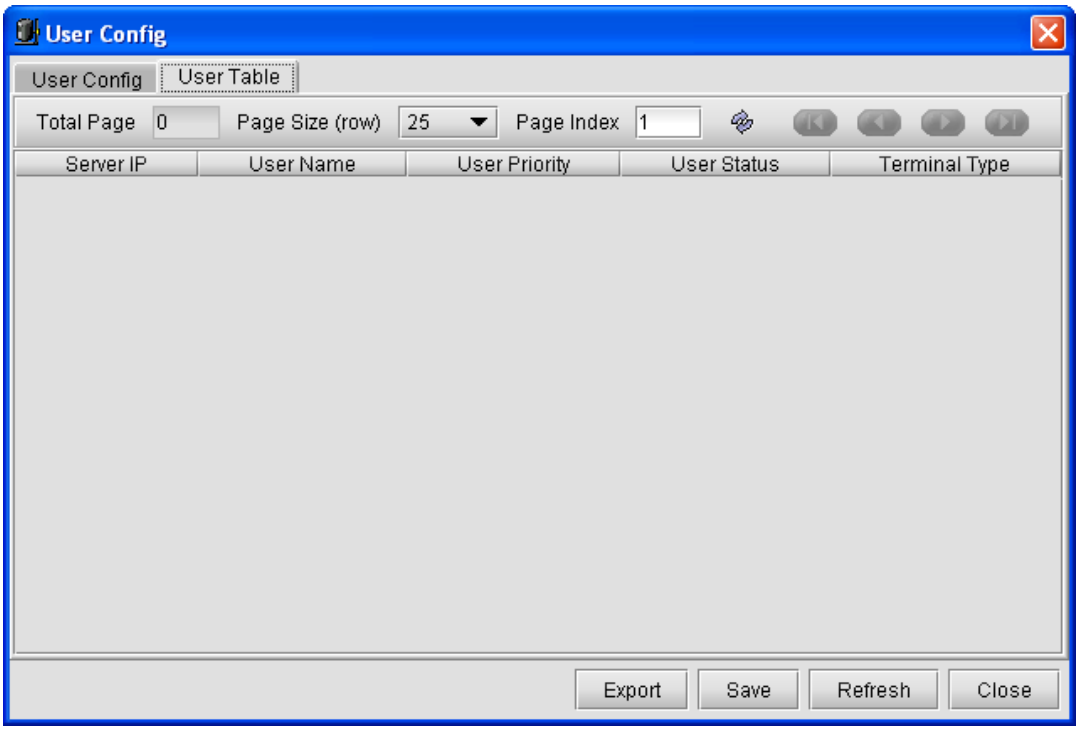


Figure 2-66 The User Information

Cluster Management Protocol

Click [Cluster\RCMP] from the main menu, a RCMP dialog box will popup, which is useful for user viewing and configuring information related to cluster management protocol. See figure 2-67 and 2-68 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

cluster

cluster-autoactive

cluster-autoactive commander-mac

commands.

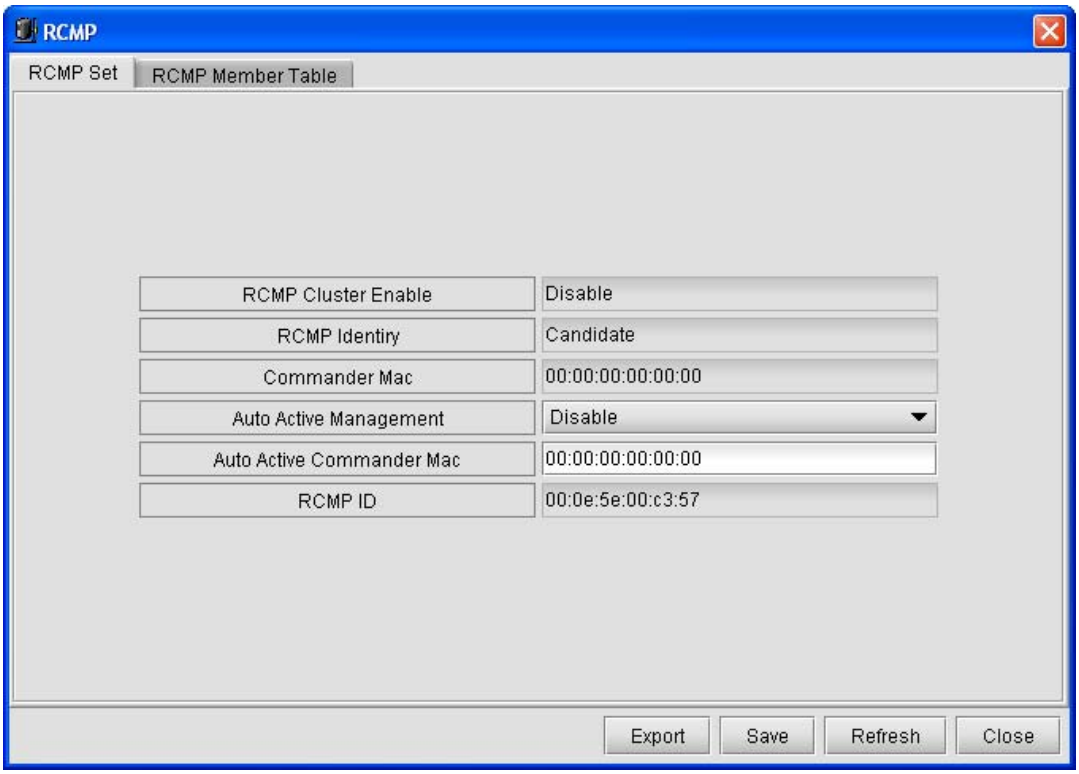


Figure 2-67 The RCMP Set

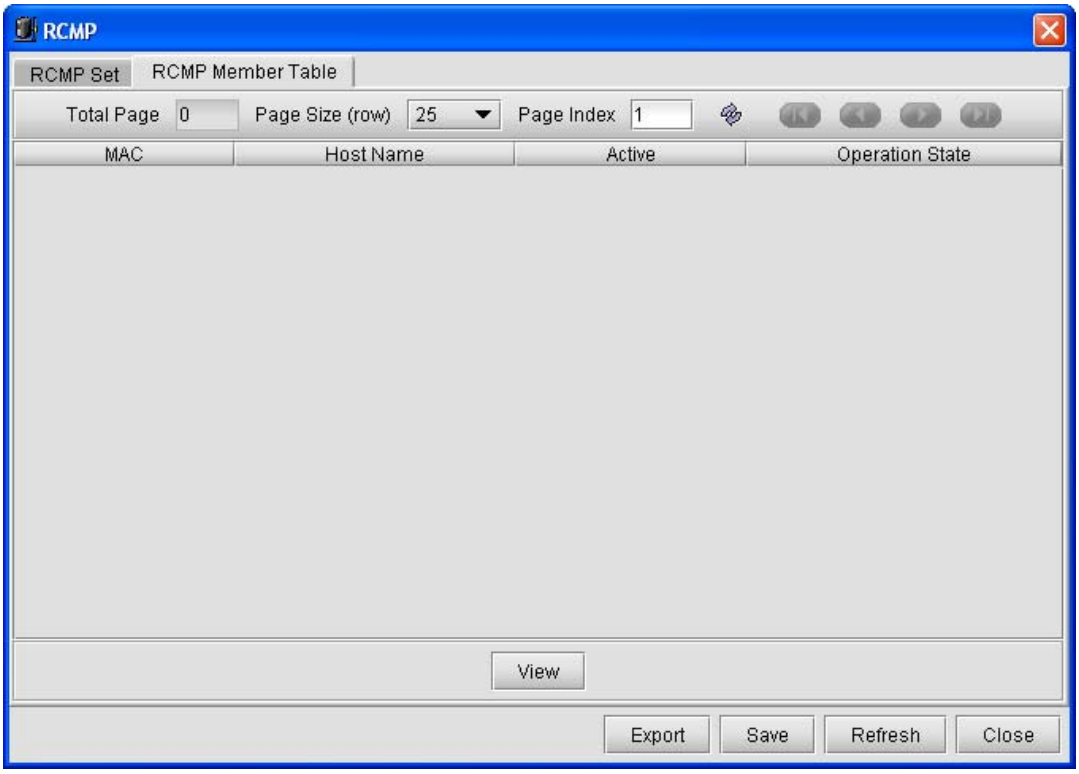


Figure 2-68 The RCMP Member Table

Neighbor Discovery Protocol

Click [Cluster\RNDP] from the main menu, a RNDP dialog box will popup, which is useful for user viewing and configuring information related to RNDP (Raisecom Neighbor Discovery Protocol). See figure 2-69 and 2-71 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for rndp
commands.

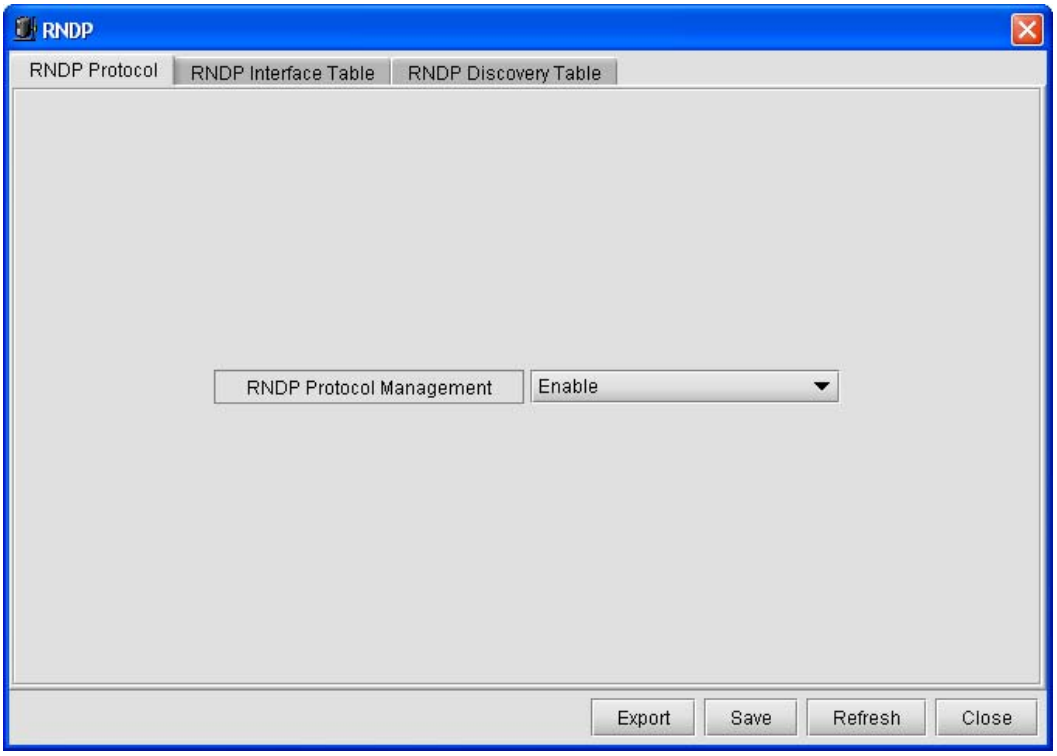


Figure 2-69 The RNDP Protocol

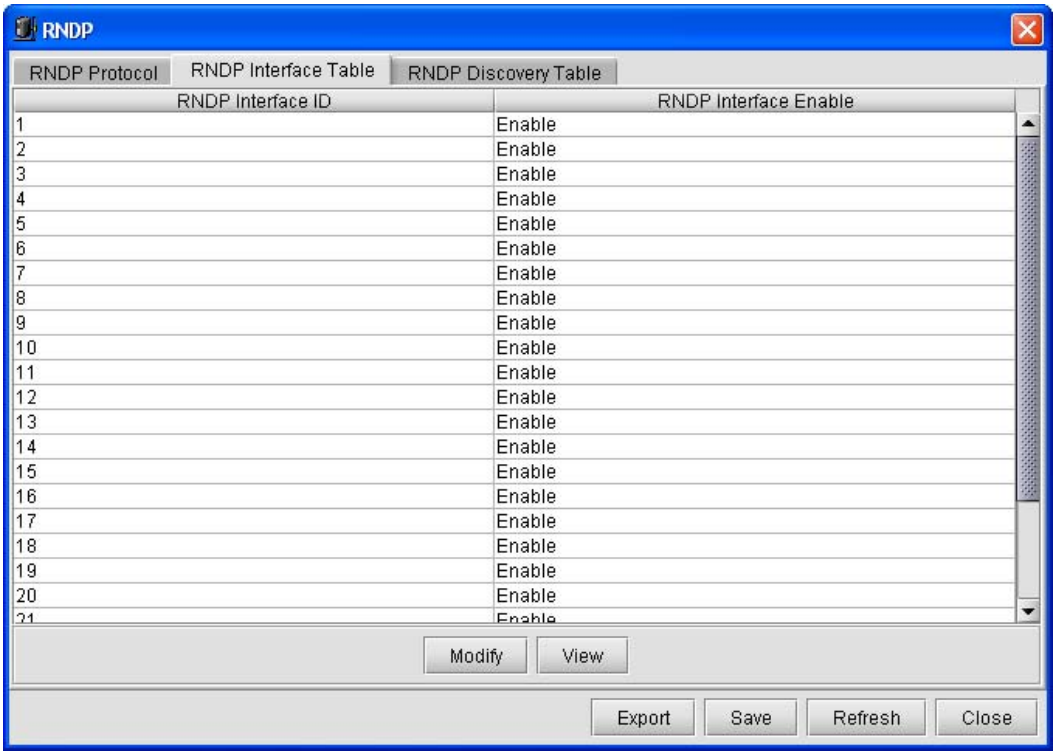


Figure 2-70 The RNDP Interface Table

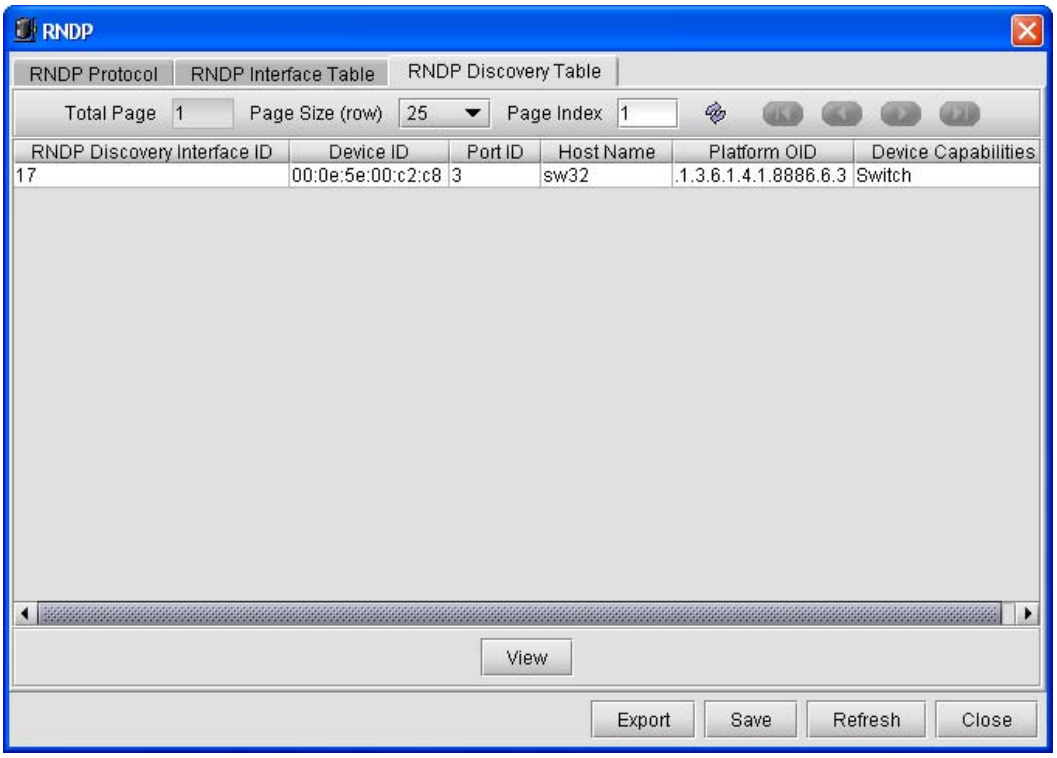


Figure 2-71 The RNDP Discovery Table

Topology Discovery Protocol

Click [Cluster\RTDP] from the main menu, a RTDP dialog box will popup, which is useful for user viewing and configuring information related to RTDP (Raisecom Topology Discovery Protocol). See figure 2-72 and 2-74 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

rtdp

rtdp max-hop

commands.

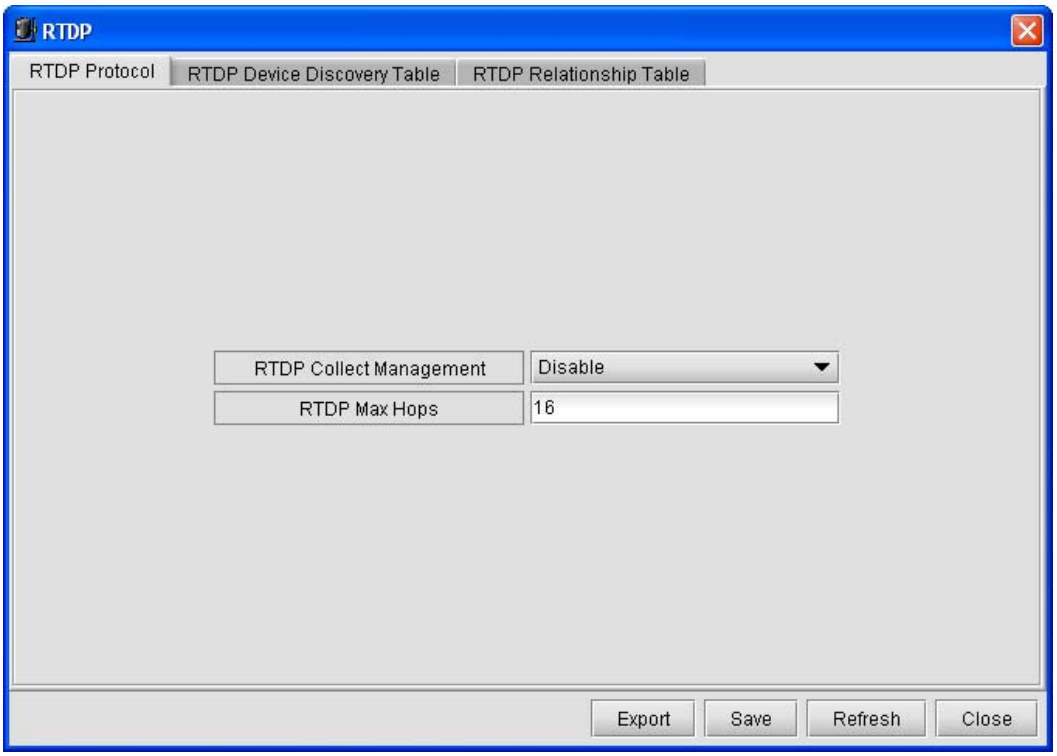


Figure 2-72 The RTDP Protocol

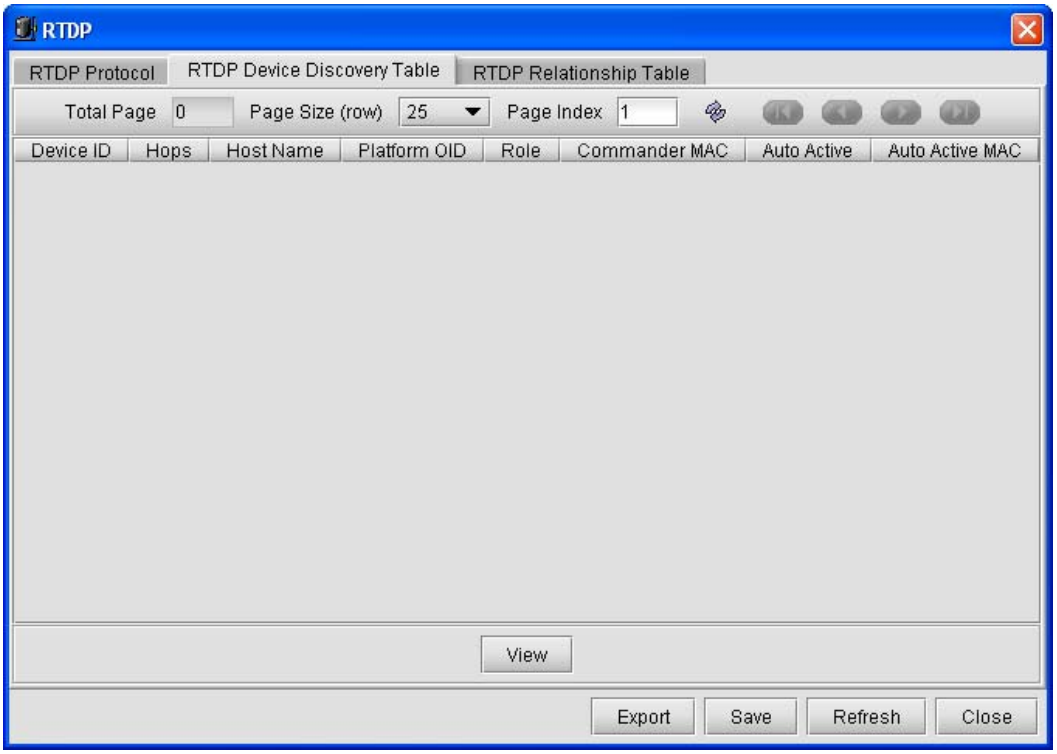


Figure 2-73 The RTDP Device Discovery Table

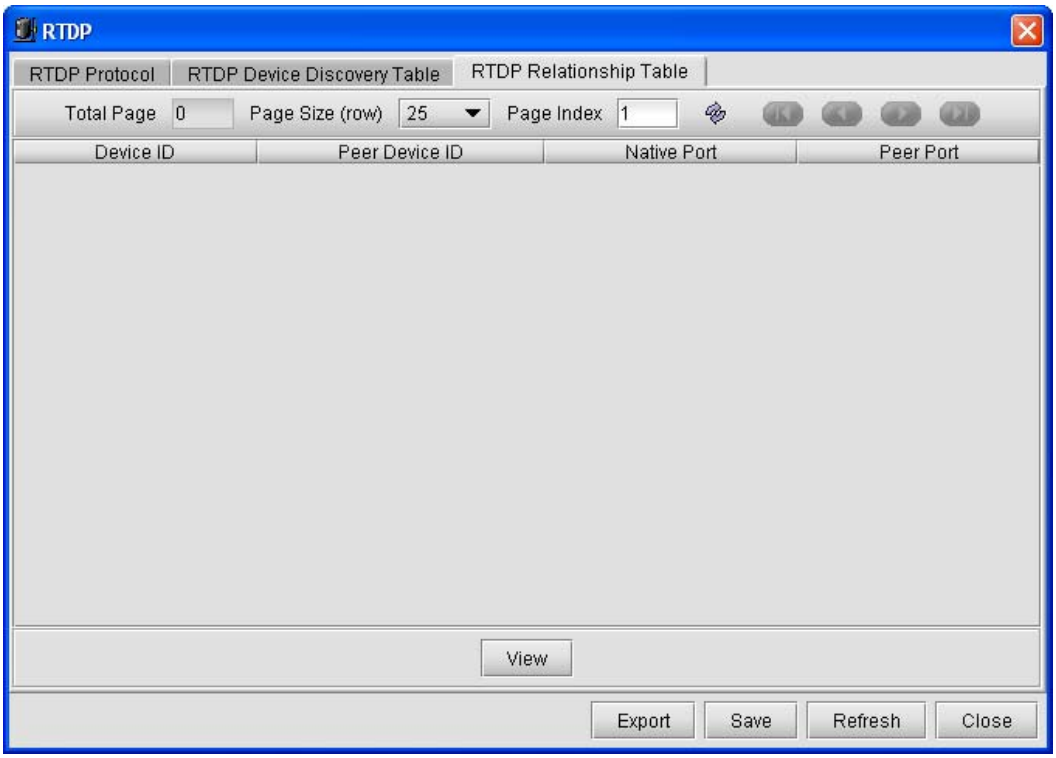


Figure 2-74 The RTDP Relationship Table

SNMP Engine ID

Click [SNMPv3\SNMP Engine ID] from the main menu, a SNMP Engine ID dialog box will popup, which is useful for user viewing the information on SNMP Engine ID. See figure 2-75 for reference.

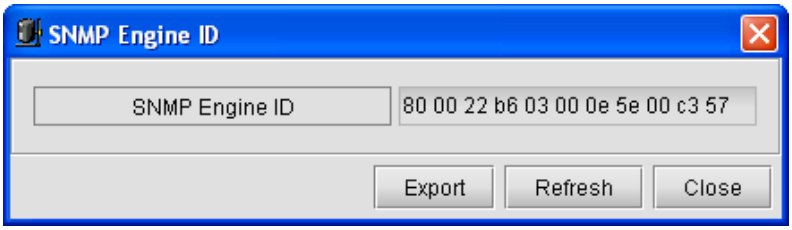


Figure 2-75 The SNMP Engine ID

USM Statistical Information

Click [SNMPv3\USM Statistics] from the main menu, a USM Statistics dialog box will popup, which is useful for user viewing the results on USM statistic. See figure 2-76 for reference.

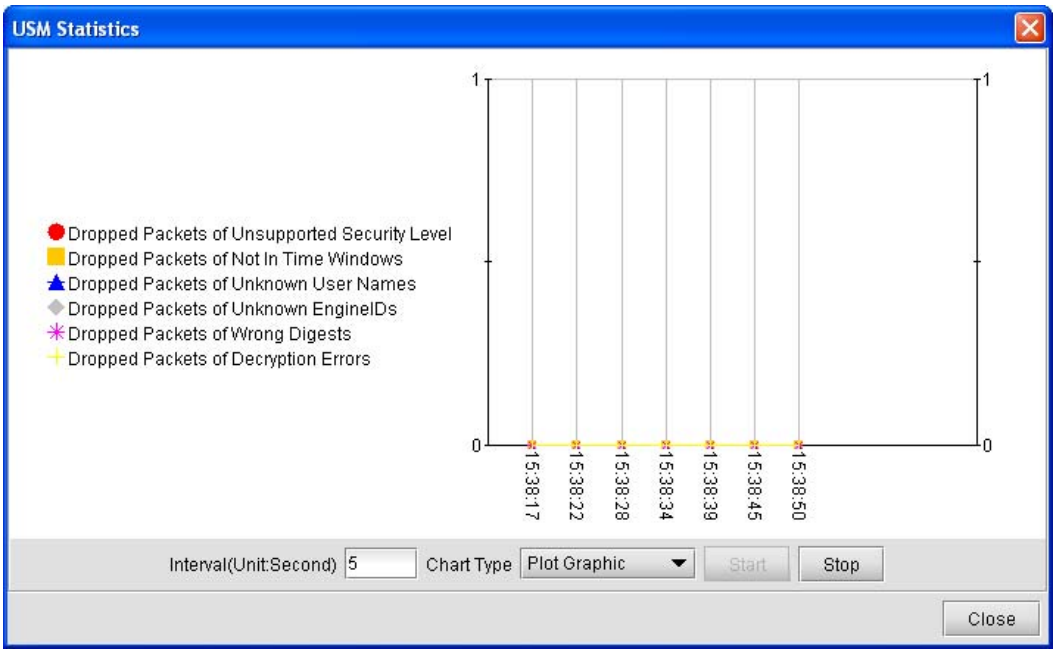


Figure 2-76 The USM Statistics

USM Table

Click [SNMPv3\USM User Table] from the main menu, a USM User Table dialog box will popup, which is useful for user viewing and configuring the information on USM user.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for snmp-server user commands.

Note:

Add: Input appropriate information in the **User Name** and **User Clone From** fields, where the “User Clone From” information refers to the user of “Active” state existing in USM User Table. You can input these information by clicking the [Select] button. If “User Clone From” points to a user whose “Authentication Protocol” setting is configured as “No Authentication”, then the add operation finishes successfully, and state of the newly added user is “active”; otherwise the state of this user is configured as “NotReady”. To put this user’s state in “active”, you have to change his/her Authentication Key or alter “Authentication Protocol” to “No Authentication”. See figure 2-77 and 2-78.

Modify: You can modify Authentication Key or “Authentication Protocol” for a user, where “Authentication Protocol” can only be changed to “No Authentication”. When this modification made for a user with “NotReady” state successes, the user’s state will change to “active”.

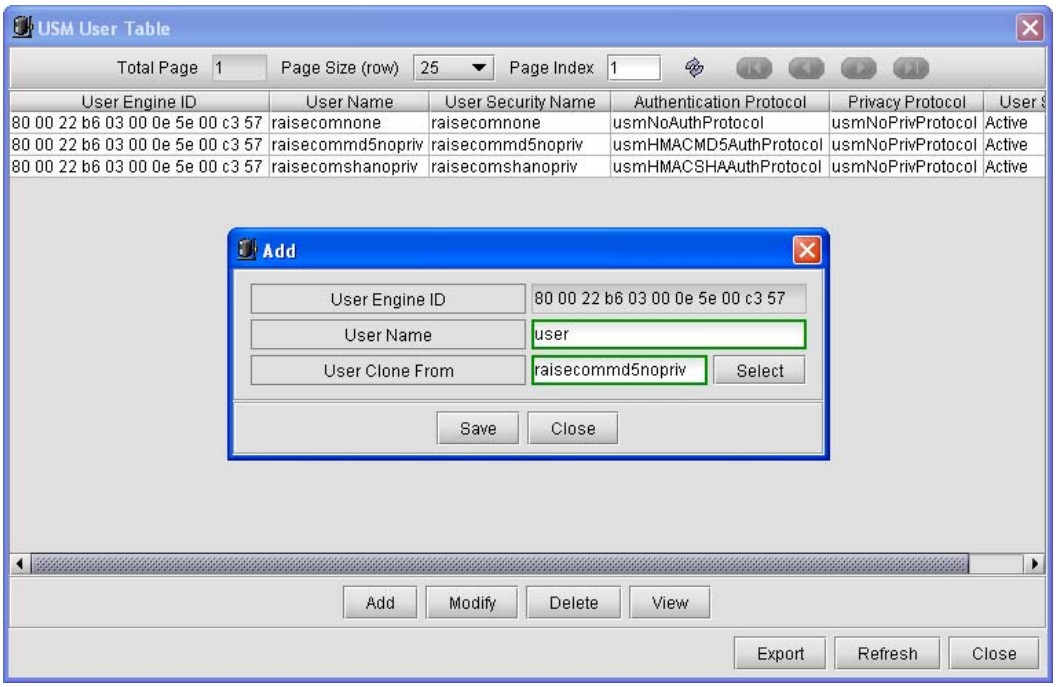


Figure 2-77 Add USM user

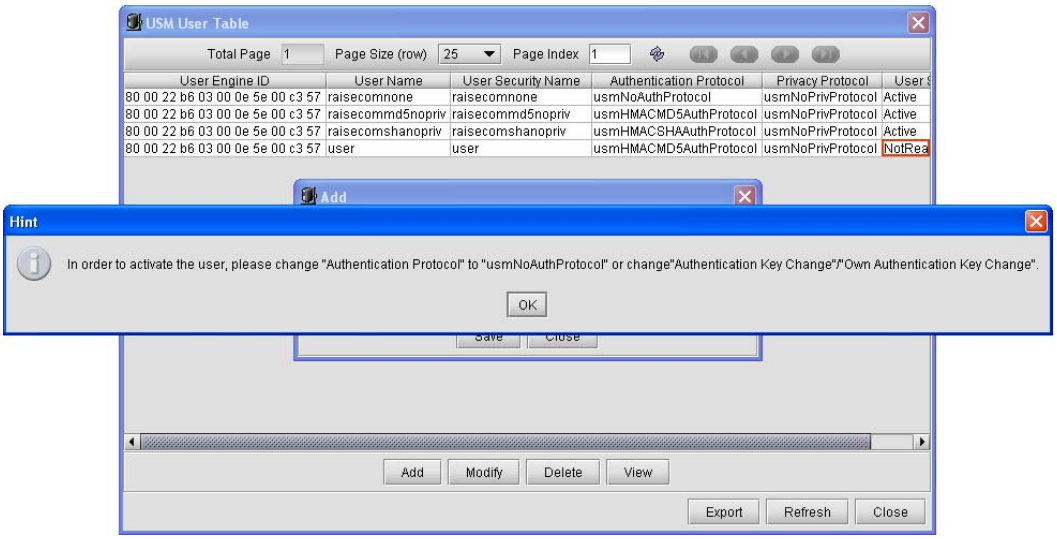


Figure 2-78 The Prompt message when creating USM user

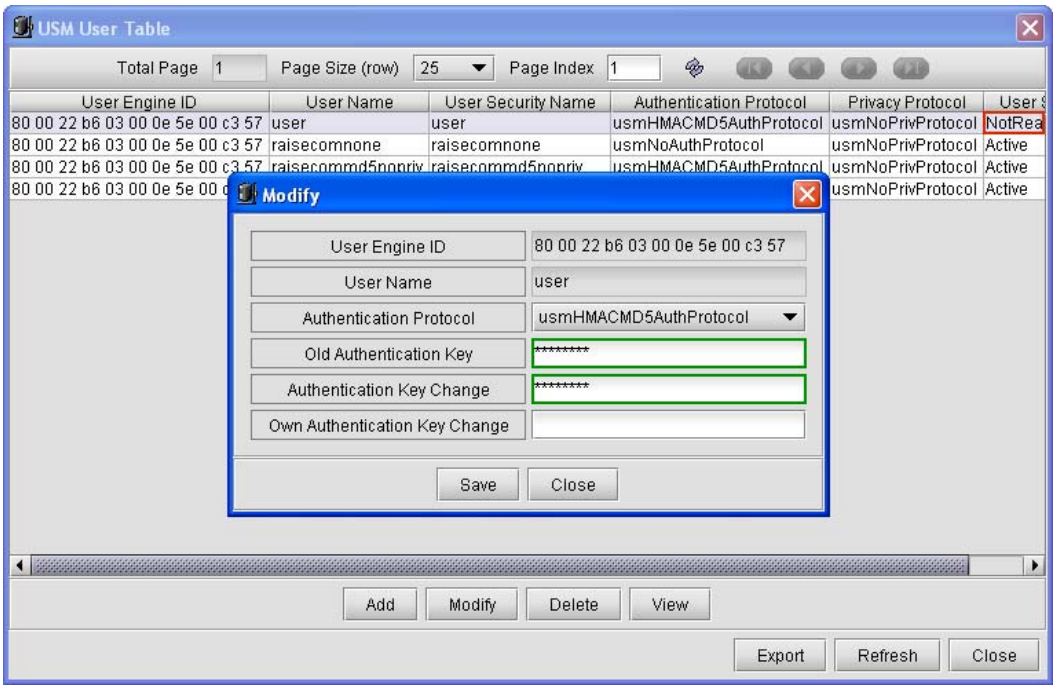


Figure 2-79 Modify User Information

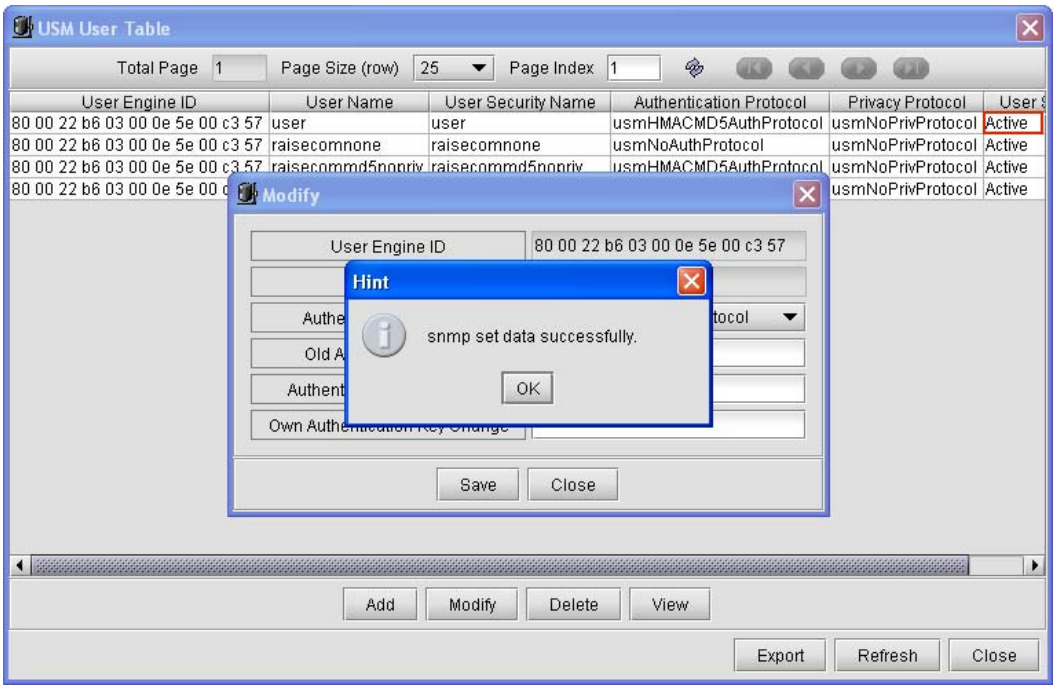


Figure 2-80 The prompt message for successful modification

VACM Security To Group Table

Click [SNMPv3\VACM Security To Group Table] from the main menu, a VACM Security To Group Table dialog box will popup, which is useful for user viewing and configuring the information regarding mapping relationship from user to access group. See figure 2-81 for reference.

Related commands:

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

snmp-server group

commands.

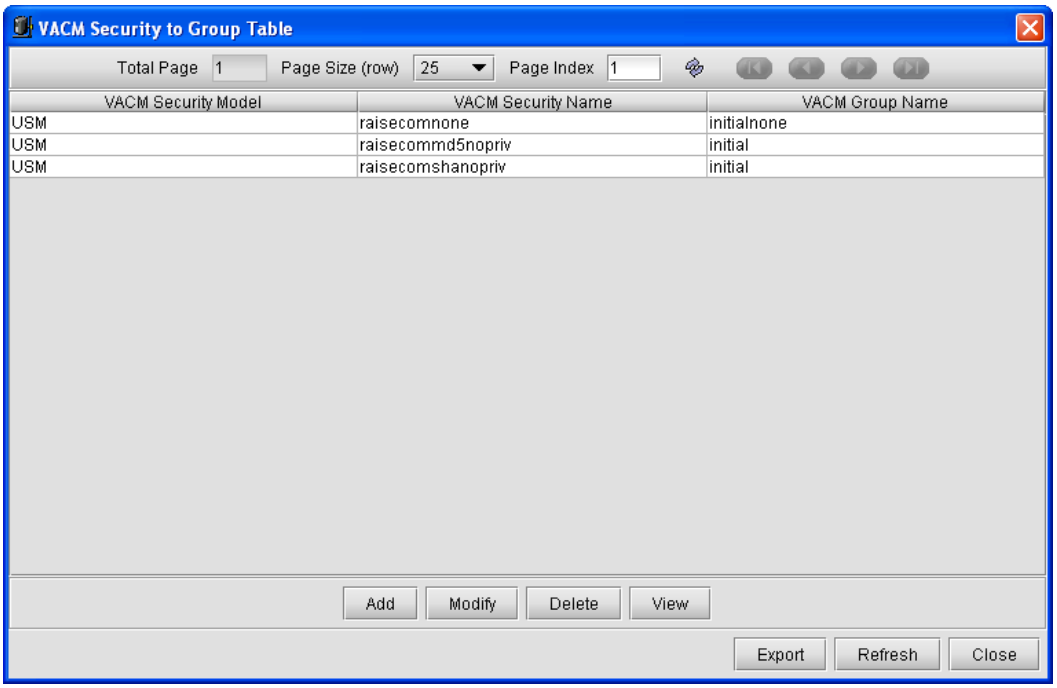


Figure 2-81 VACM Security To Group Table

VACM Access Control Table

Click [SNMPv3\VACM Access Table] from the main menu, a VACM Access Table dialog box will popup, which is useful for user viewing and configuring the information within VACM Access Control Table. See figure 2-82 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for snmp-server access

command.

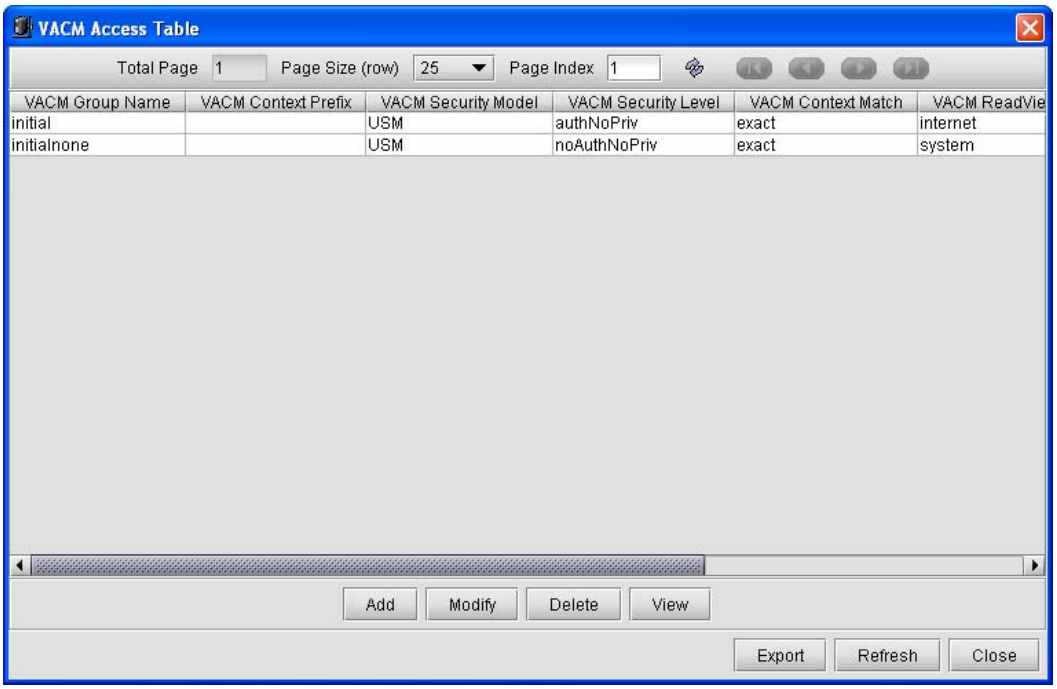


Figure 2-82 The VACM Access Table

VACM View Tree Set

Click [SNMPv3\VACM View Tree Family] from the main menu, a VACM View Tree Family dialog box will popup, which is useful for user viewing and configuring the information on VACM View Tree. See figure 2-83 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

snmp-server view

command.

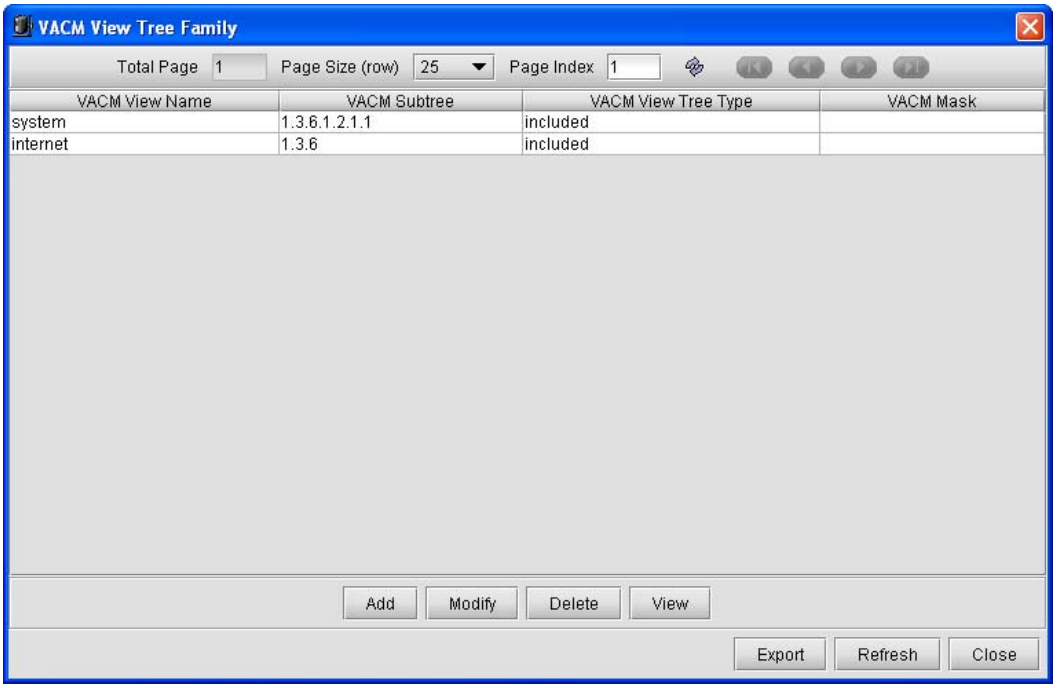


Figure 2-83 The VACM View Tree Set

SNMP Target Address Table

Click [SNMPv3\SNMP Target Address Table] from the main menu, a SNMP Target Address Table dialog box will popup, which is useful for user viewing and configuring the information on address of SNMP target. See figure 2-84 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

snmp-server host

commands.

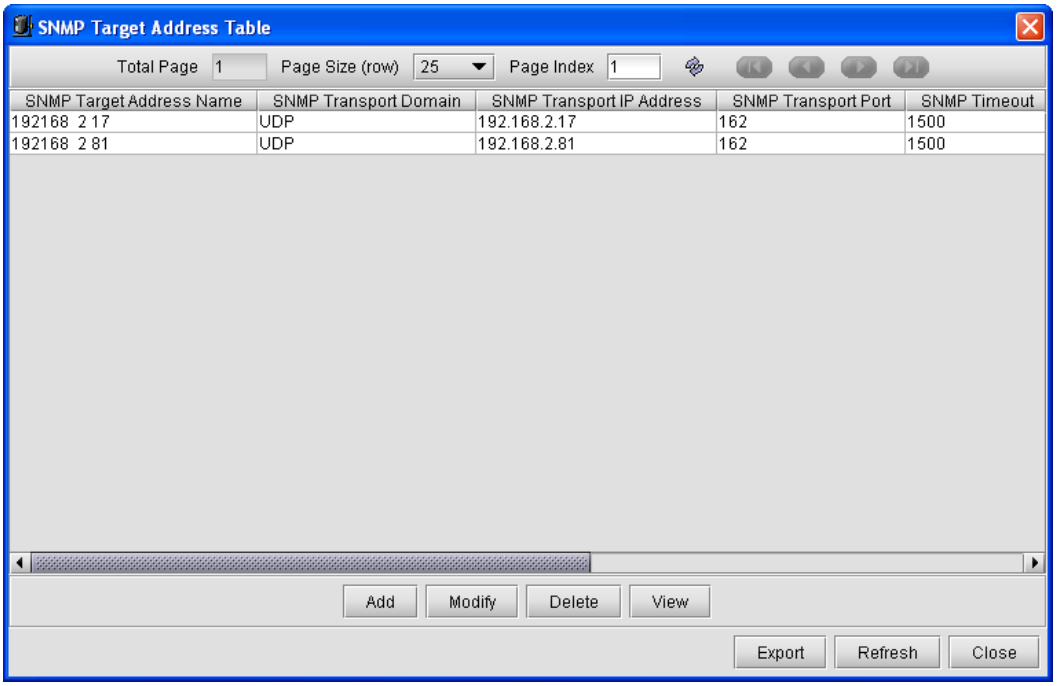


Figure 2-84 The SNMP Target Address Table

SNMP Target Parameters Table

Click [SNMPv3\SNMP Target Parameters Table] from the main menu, a SNMP Target Parameters Table dialog box will popup, which is useful for user viewing and configuring the parameters of SNMP target. See figure 2-85 for reference.

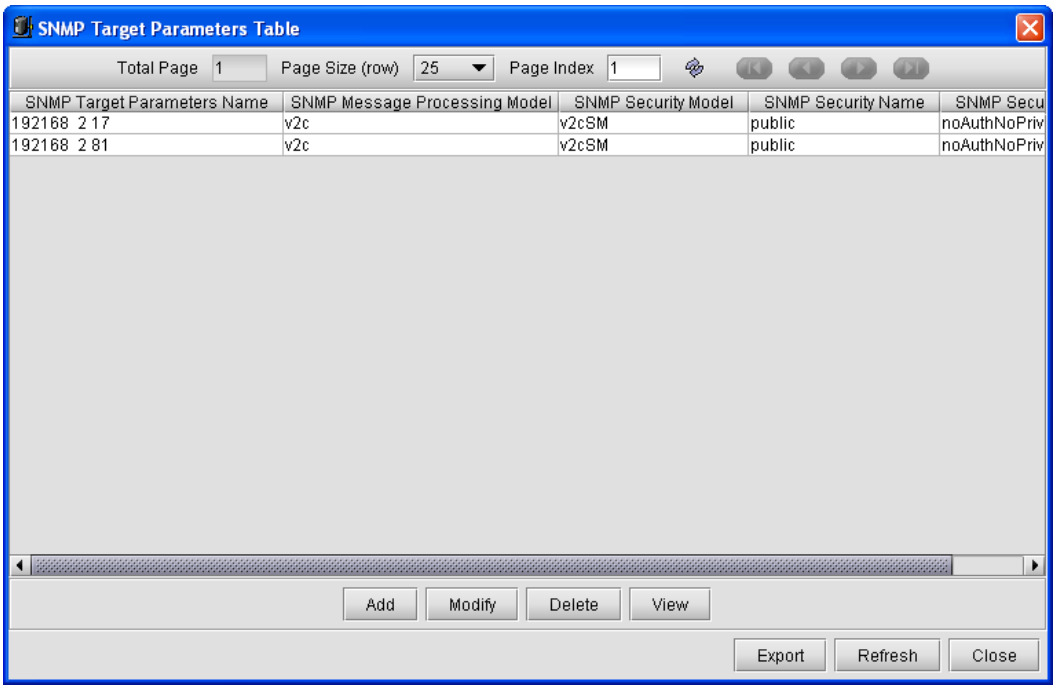


Figure 2-85 The SNMP Target Parameters Table

CPU Utilization

CPU Utilization In One Second

Click [Performance\CPU Utilization\CPU Utilization In One Second] from the main menu, a CPU Utilization In One Second dialog box will popup, which is useful for user viewing the condition of CPU utilization in one second. See figure 2-86 for reference.

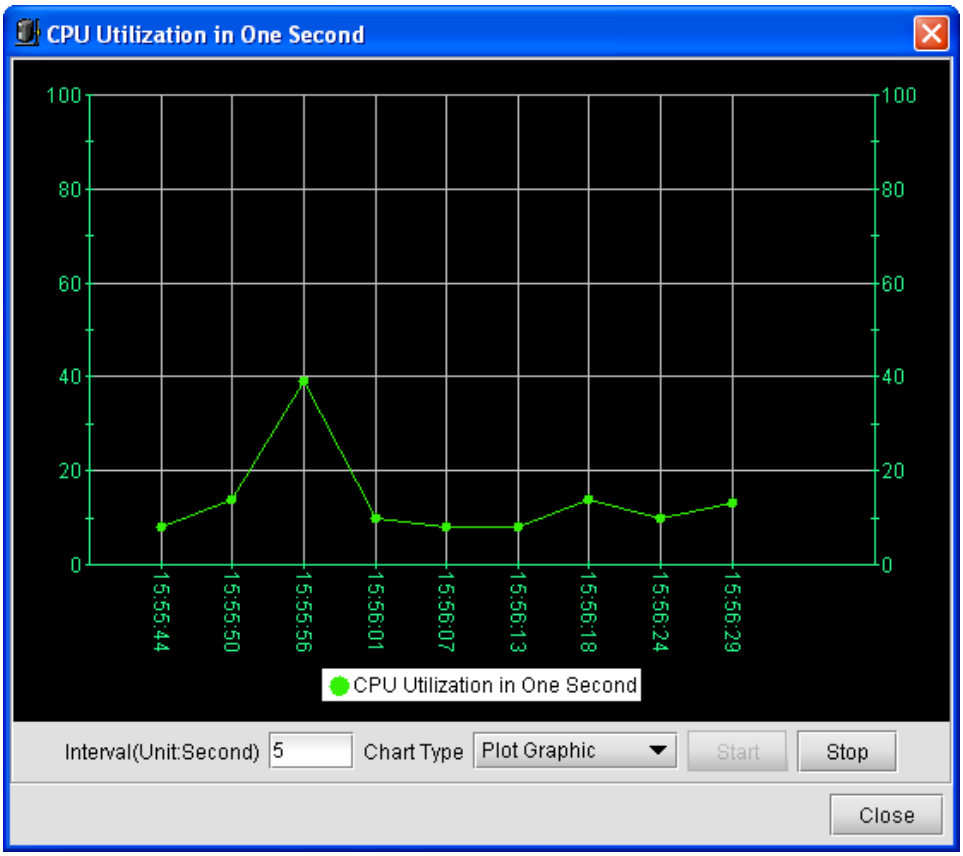


Figure 2-86 CPU Utilization In One Second

CPU Utilization In One Minute

Click [Performance\CPU Utilization\CPU Utilization In One Minute] from the main menu, a CPU Utilization In One Minute dialog box will popup, which is useful for user viewing the utilization condition of CPU in one minute. See figure 2-87 for reference.

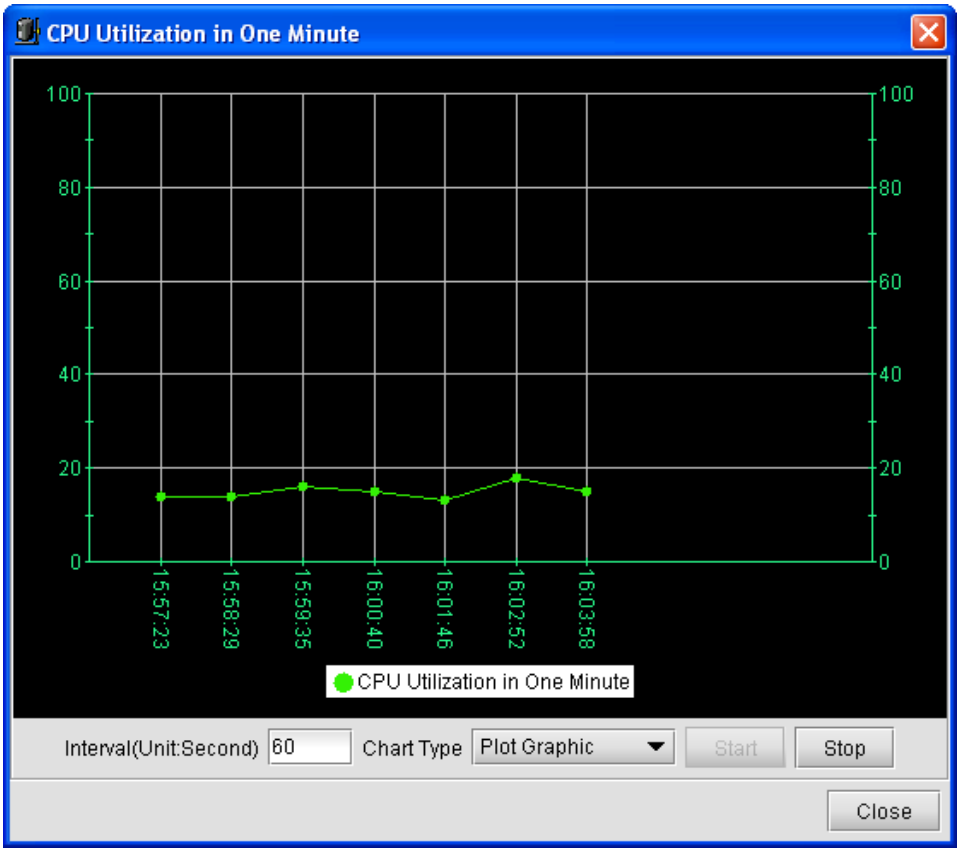


Figure 2-87 CPU Utilization In One Minute

Operation Notification

Click [Command\Operating Notification] from the main menu, to set whether to send notification when save or erase the configuration. See figure 2-88 for reference.

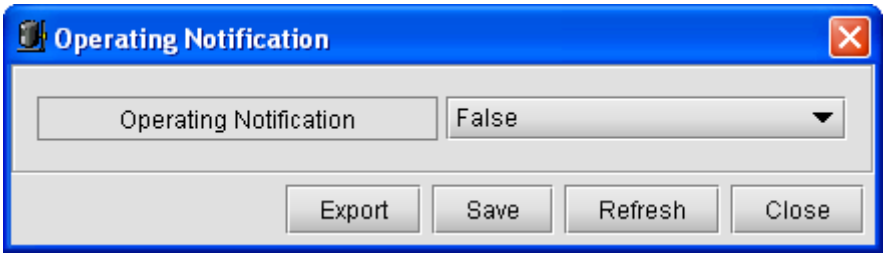


Figure 2-88 The Operating Notification

Rebooting The Device

Click [Command\Reboot] from the main menu, to trigger the command to reboot the Switch. See figure 2-89 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for reboot
commands.

Figure 2-89 The confirm dialog box for rebooting device

Saving Current Configuration

Click [Command\Write] from the main menu, to save current configuration. See figure 2-90 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for write
commands.

Figure 2-90 The Confirm dialog box for saving configuration

Deleting Current Configuration

Click [Command\Erase] from the main menu, to delete current configuration. See figure 2-91 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for erase
commands.

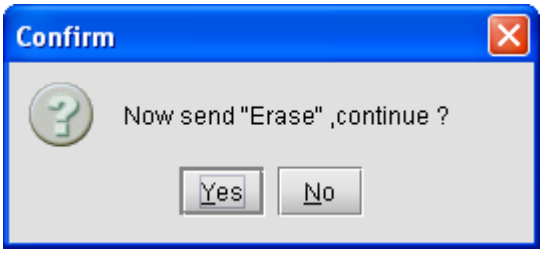


Figure 2-91 The Confirm dialog box for deleting configuration

Schedule List

Click [Command\Schedule List] from the main menu, a Schedule List dialog box will popup. From it, you can view the information regarding Schedule list. See figure 2-92 and 2-93 for reference.

Related commands:

See chapter 3 of “RAISECOM Series Switch Command Notebook Version 3.0” for

show schedule-list

commands.

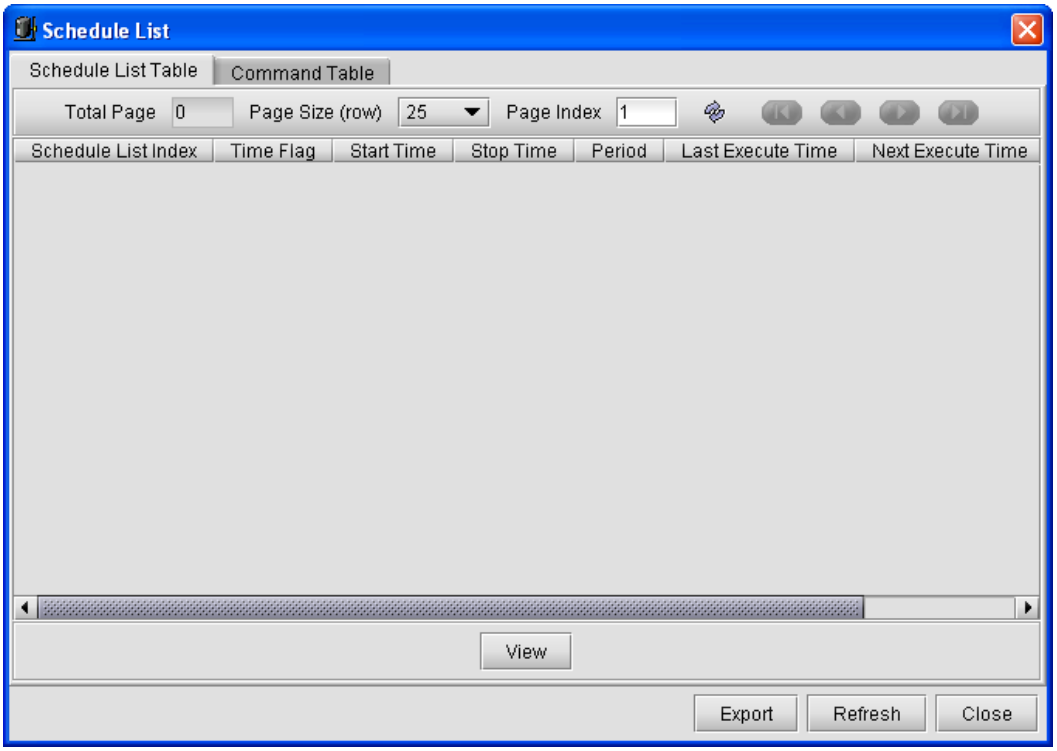


Figure 2-92 The Schedule List

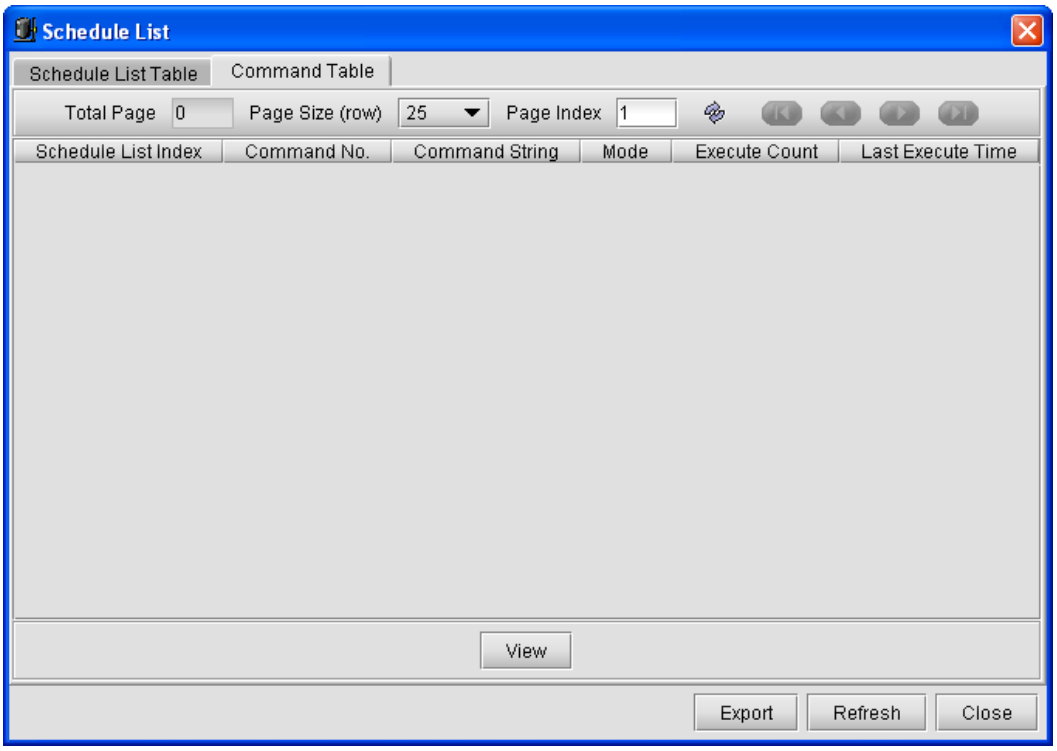


Figure 2-93 The Schedule List

Online Upgrade/Backup

Click [Command\Online Upgrade/Backup] from the main menu, an Online Upgrade/ Backup Table dialog box will popup. From it, you can upgrade or backup the documents of "System_boot" and "Startup_config". See figure 2-94 for reference.

Related commands:

See chapter 3 of "RAISECOM Series Switch Command Notebook Version 3.0" for

download

upload

commands.

NOTE: After you have upgraded the "*System_boot*" and "*Startup_config*" documents, reboot the Switch, then the configuration will take effective.

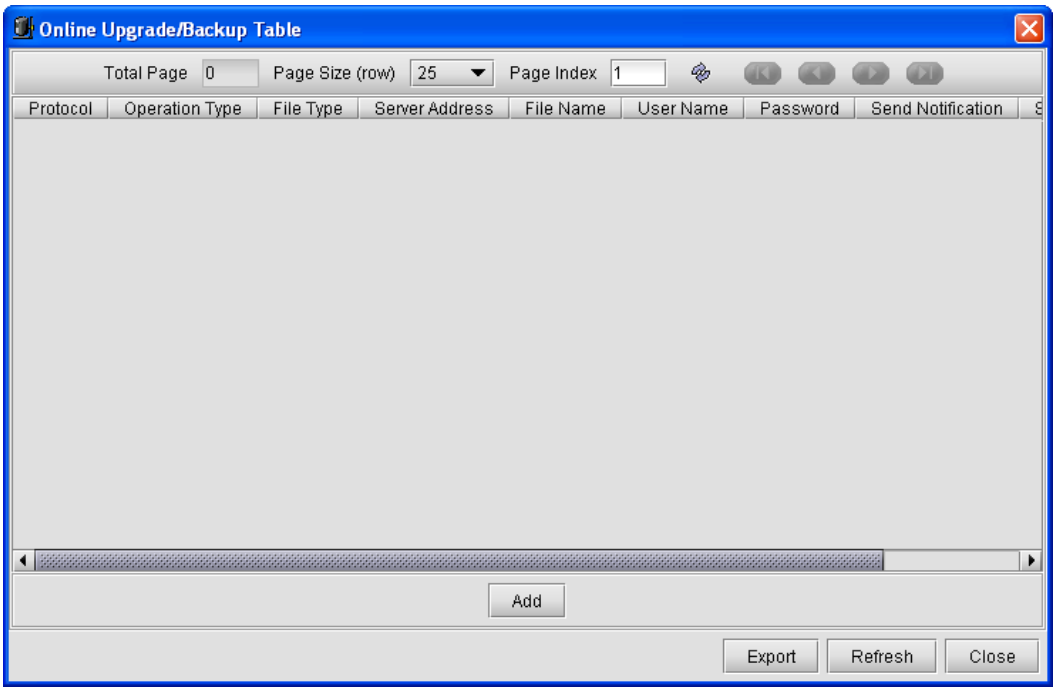


Figure 2-94 The Online Upgrade/Backup Table

Alarm And Event Management

This chapter introduces how to view and maintain the current and historical alarm, and consists of the following sections:

- ✧ View Current Alarm
- ✧ View Historical Alarm

Viewing Current Alarm

➢ Open the Current Alarms Management window

Double click the NView Platform Function Tree, and select [Current Alarms Management].

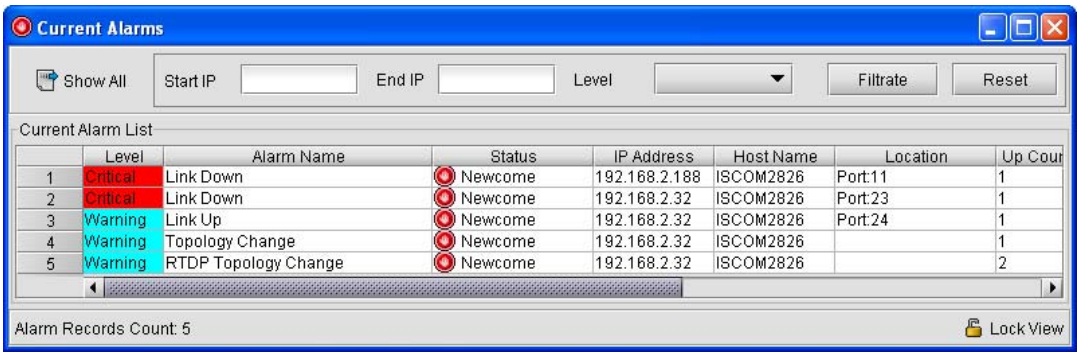


Figure 3-1 The Current Alarms window

➢ Acknowledge alarm record(s)

Select a record with state of "Newcome" presenting in the "Status" column, and select [Acknowledge] from the right click menu.

➢ Delete current alarm record(s)

Select one or more records in the Alarm List, and select [Delete] from the right click menu.

➢ Export current alarm record(s)

Select [Export] from the right click menu to export record(s) into a Text or Excel file.

➢ Filter current alarms

Input filtration conditions - IP address range and severity level, then click [Filter].

NOTE: The IP Address Range field supports asterisk wildcard "*". For example, "192.168.1.*", the address range of asterisk wildcard here can be set as "Start IP Address".

➢ View Alarm Details

Click a record in the Alarm List, and select [Property] from the right click menu. A Property dialog box will popup as the figure 5-2 shows.

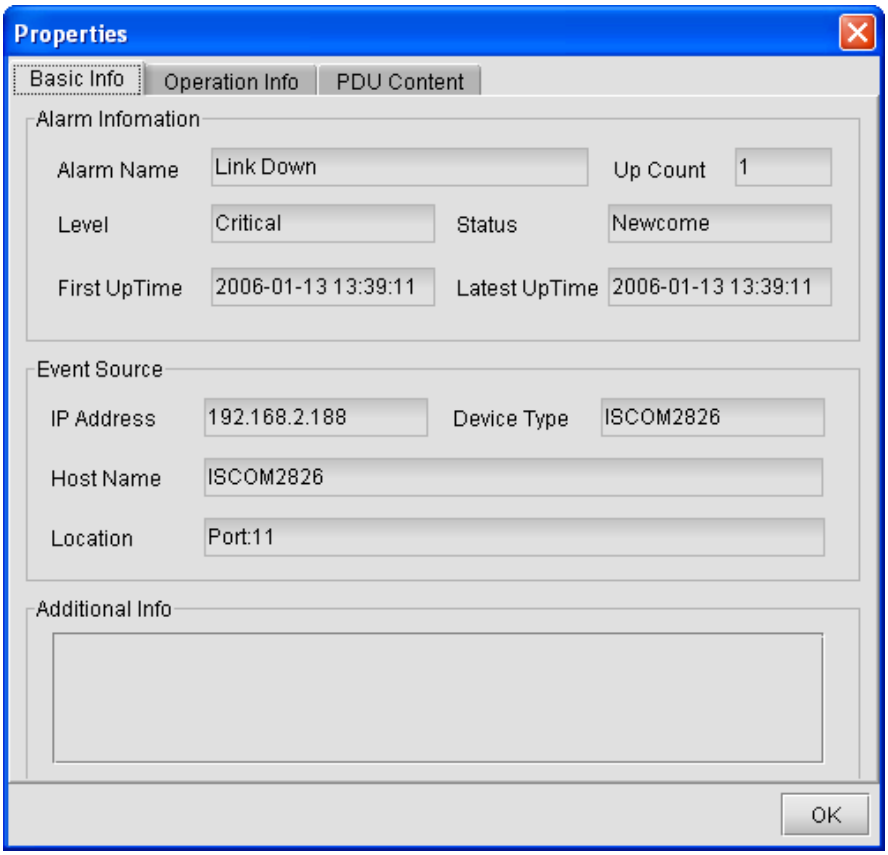


Figure 3-2 The Property dialog box

Viewing Historical Alarms

- Open the History Alarms Management window

Double click the Nview Platform function tree, and select [**History Alarms Management**].

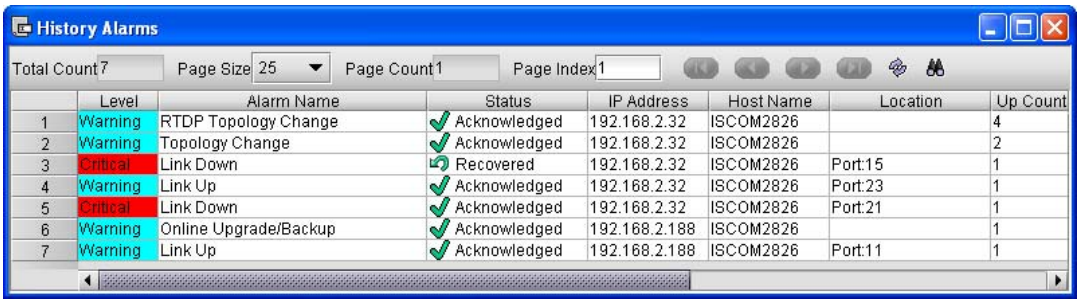


Figure 3-3 The History Alarms window

- Delete history alarm record(s)

Select one or more records in Alarm List, and select [**Delete**] from the right click menu.

- Export history alarm record(s)

Select [**Export**] from the right click menu to export the record(s) into a Text or Excel file.

- View alarm details

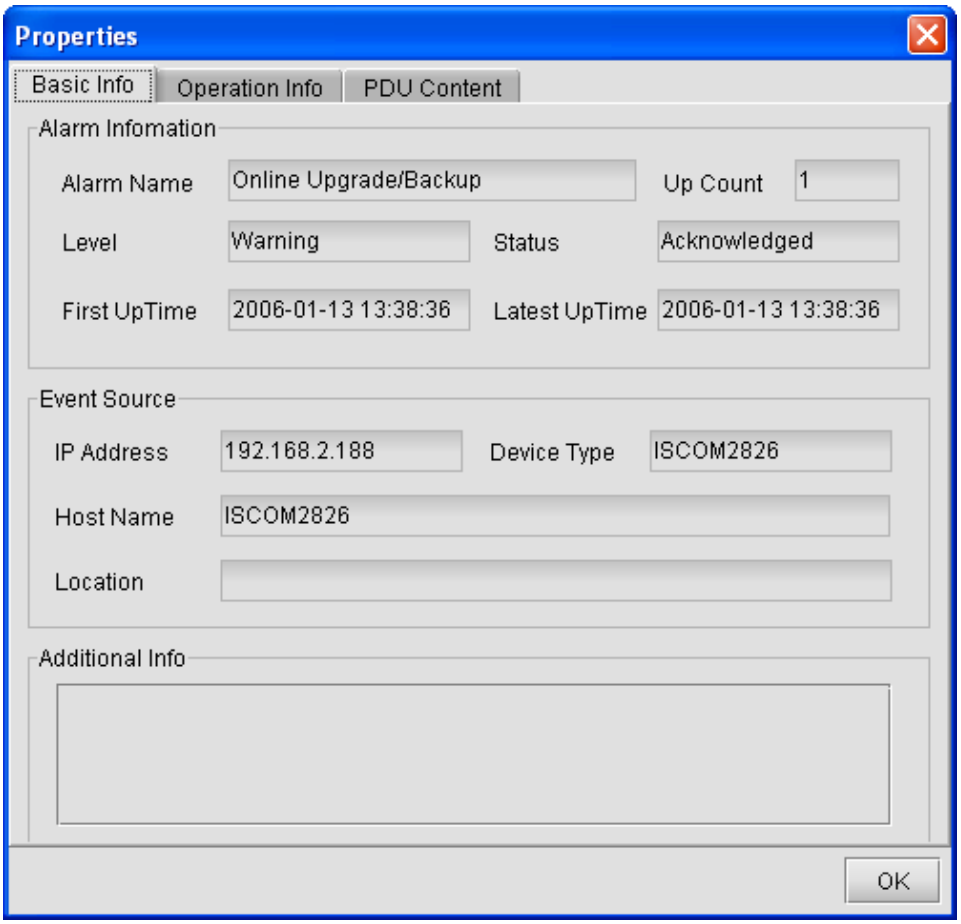


Figure 3-4 The Property dialog box

- Query history alarms

Select [**Query**] from the right click menu, the Query Condition panel will appear. It enables query on history alarms by condition(s) like device node, time range, alarm type and alarm level.

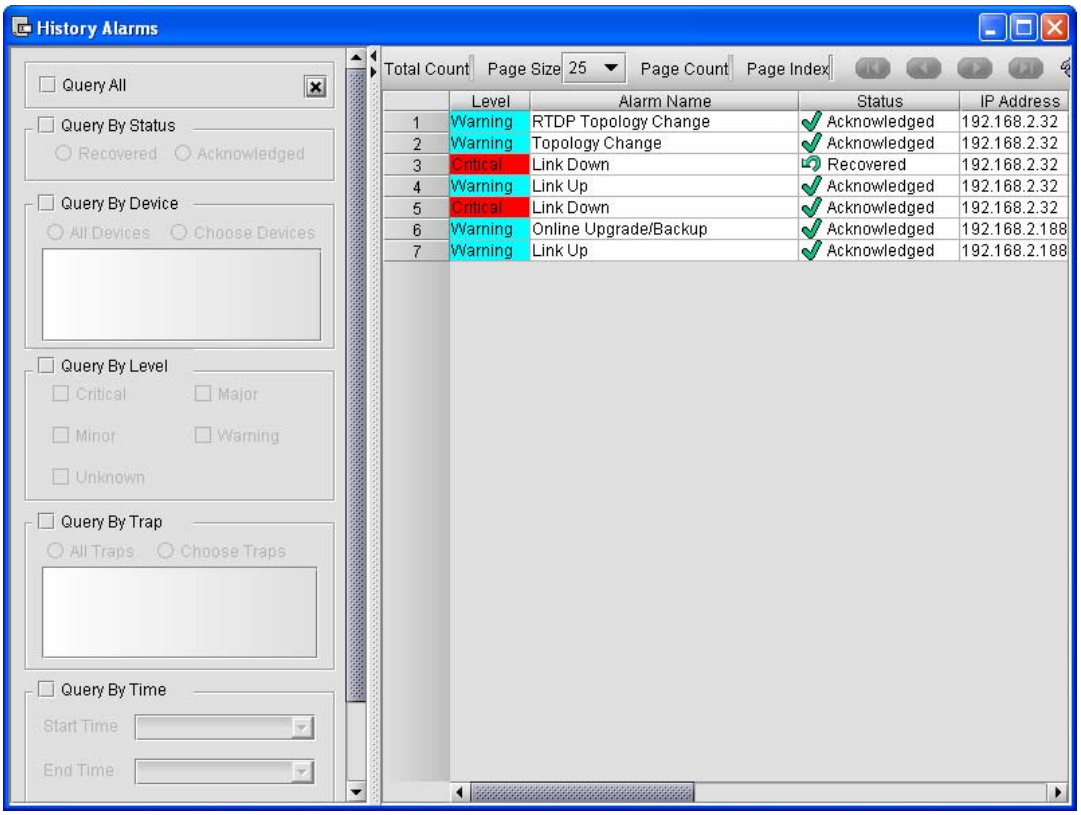


Figure 3-5 The History Alarms Management dialog box

Appendix A Alarm Type

No.	Alarm
1	Cold Start
2	Warm Start
3	Link Up
4	Link Down
5	Authentication Failure
6	Config Operation
7	Online Upgrade/Backup
8	RTDP Topology Change
9	STP New Root
10	Topology Change
11	RMON Falling
12	RMON Rising

Appendix B Expansion Card Type

Illustration	Model	Description	Hardware Version
	SC200-FE-S1	Single-Optical Interface 100M Expansion Module	Rev.B
	SC200-GE-X	Single-Optical Interface 1000M Expansion Module	Rev.B
	SC200-GE-T	Single-Electronic Interface 1000M Expansion Module	Rev.B

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