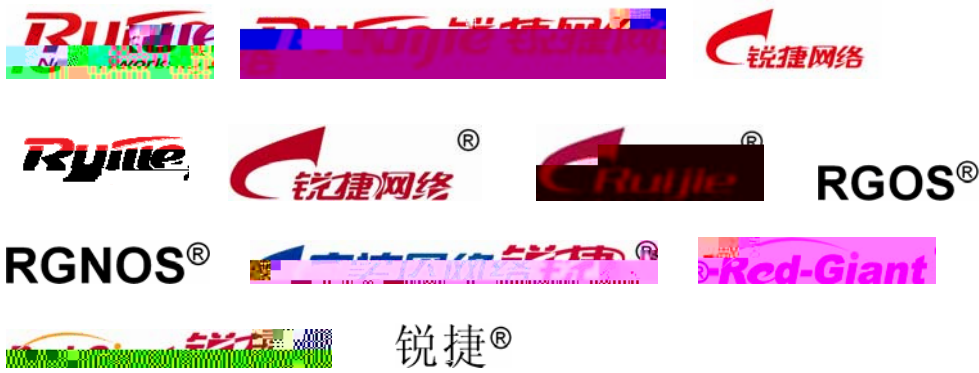




©2000-2013



■ <http://www.ruijie.com.cn/>

■ <http://webchat.ruijie.com.cn>

8:30 6 “ ”

■ <http://www.ruijie.com.cn/service.aspx>

■ 7× 24 4008-111-000

■ <http://support.ruijie.com.cn>

■ [service@ruijie.com.cn](mailto:service@ruijie.com.cn)

## RGOS®10.4 (2b12)

- 
- 
- 

**1.**

```
[]          []  
{ x | y | ... }  
[ x | y | ... ]  
//
```

**2.**

3.

■

■

■



WEB

---

WEB

1. WEB

2. WEB

## 1 WEB

WEB

IE

WEB

WEB

WEB

WEB

WEB

WEB

IE

## 2 WEB

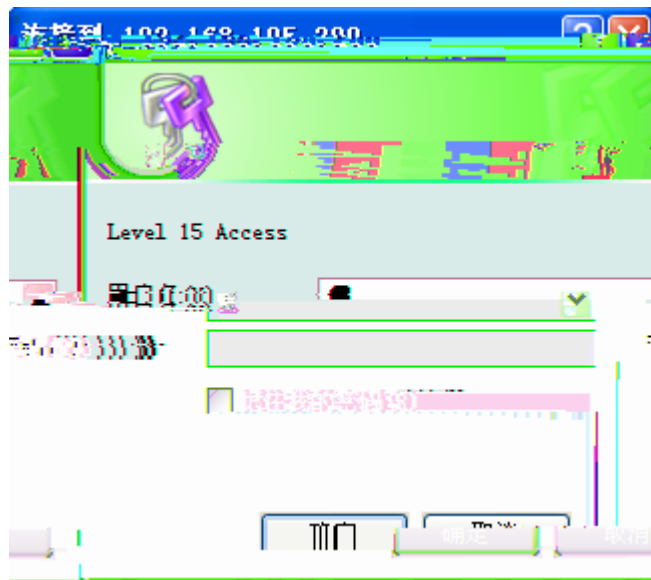
### 2.1

WEB

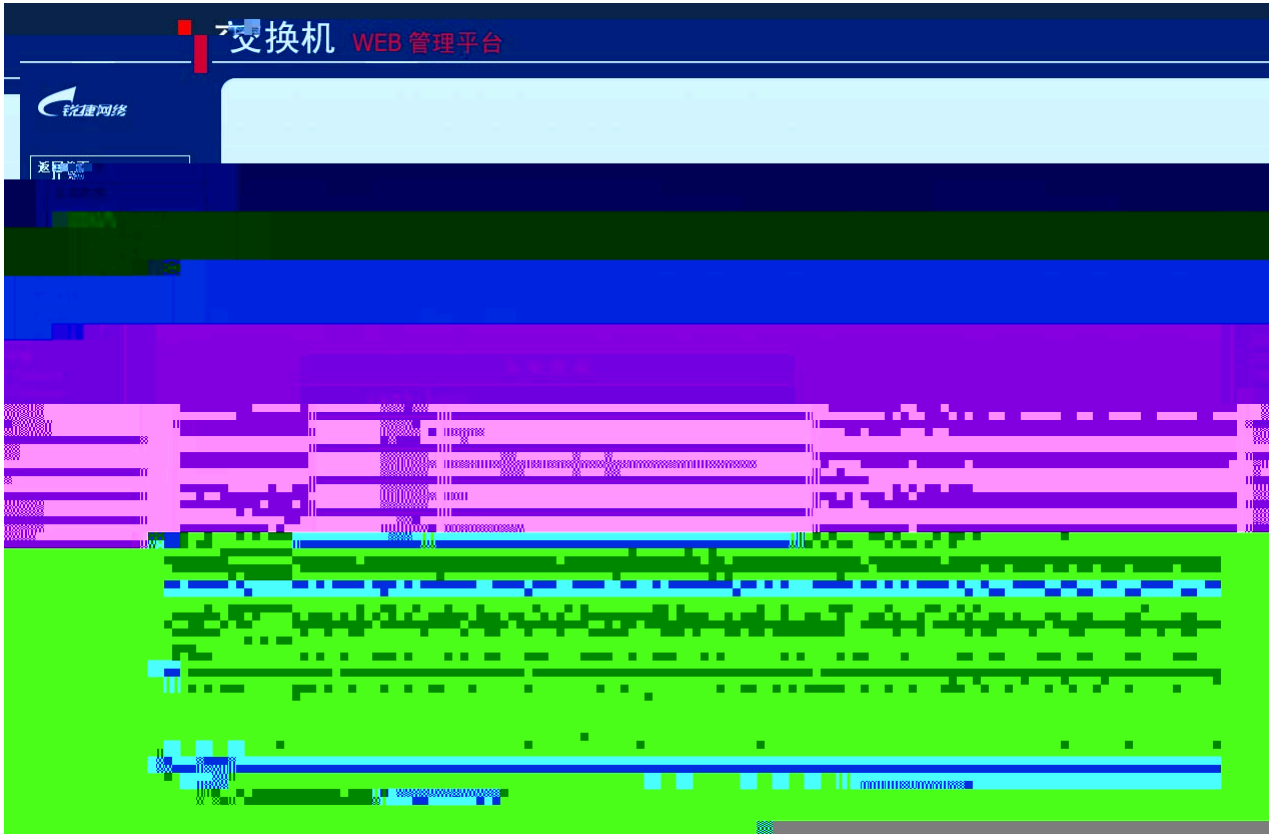




1



2



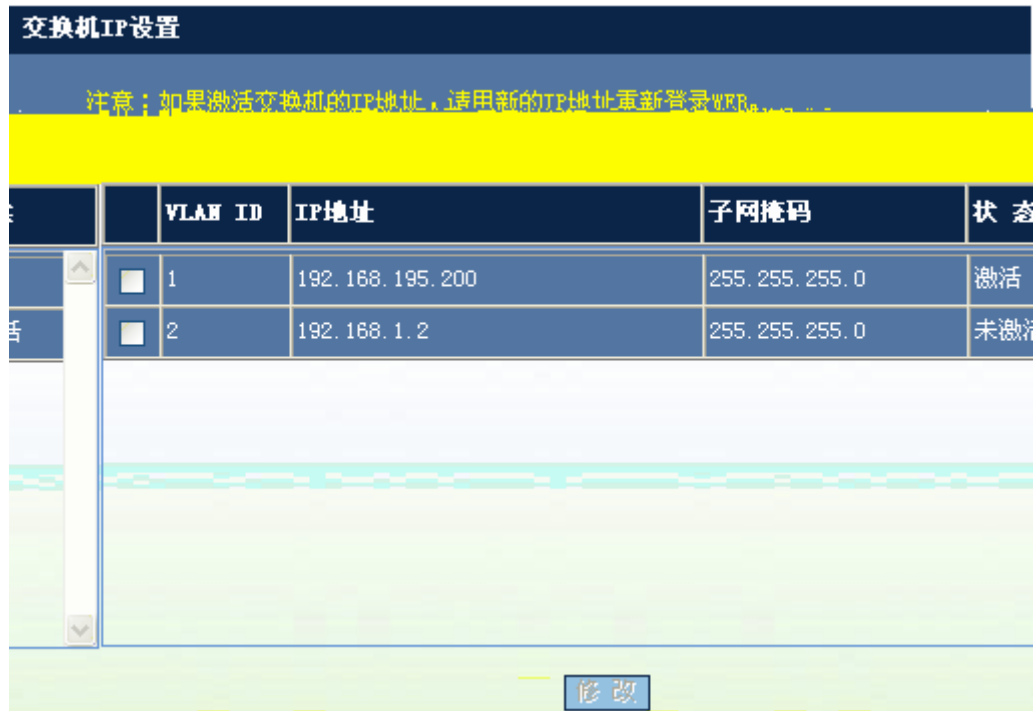
3 WEB

	WEB	Enable
	enable	

## 2.2

### 2.2.1 IP

IP



4 IP

ip



5 IP

IP

## 2.2.2 VLAN

### VLAN

#### 1 VLAN

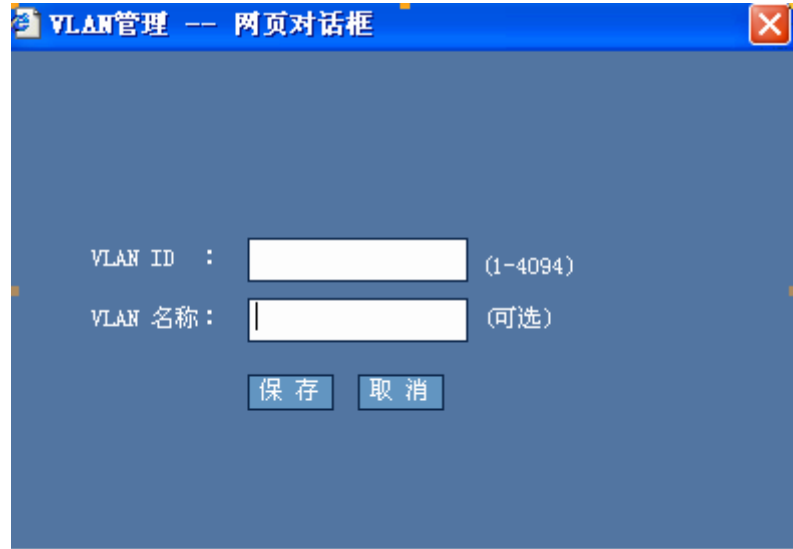


6 VLAN

VLAN

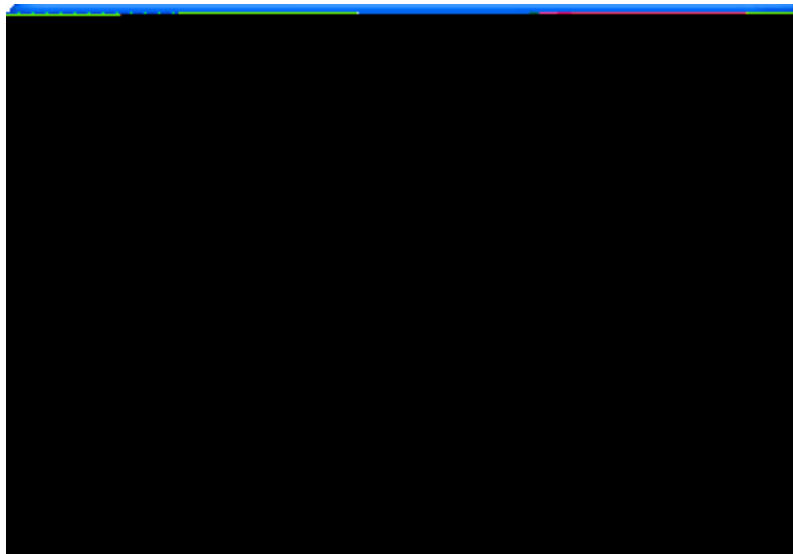
VLAN

VLAN



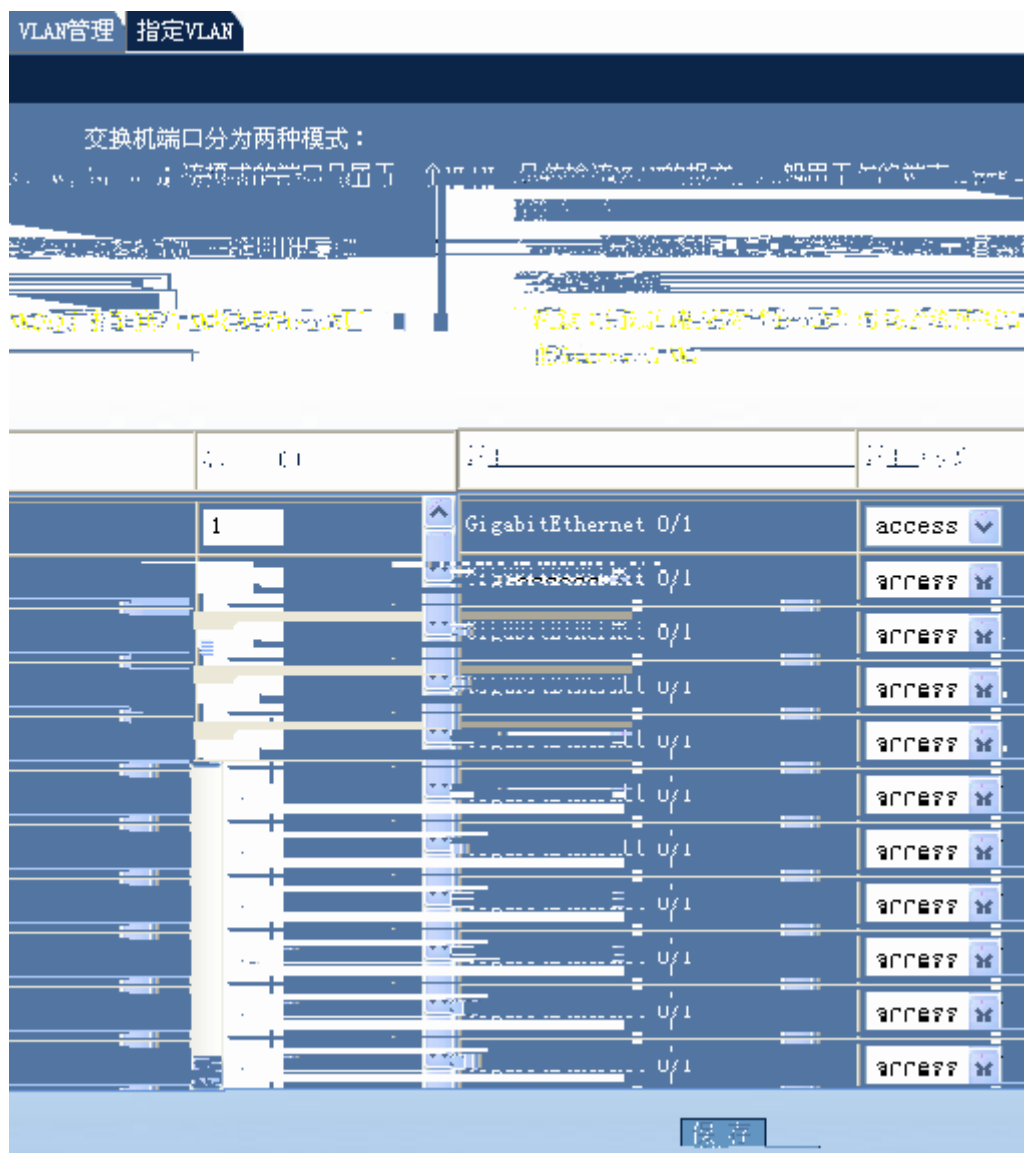
7 VLAN

VLAN ID VLAN  
VLAN VLAN  
VLAN  
VLAN



8 VLAN

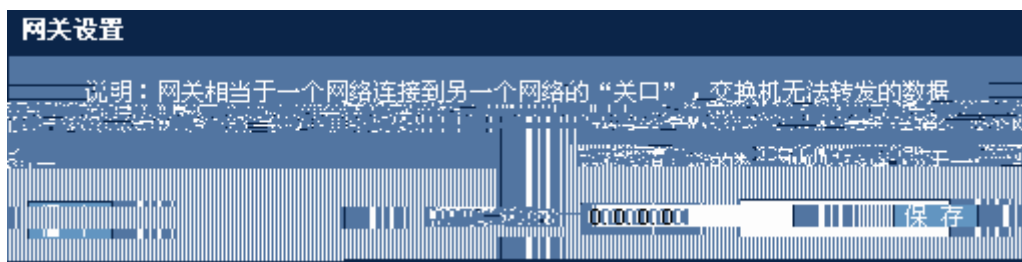
VLAN  
VLAN  
2 VLAN



## 9 VLAN

## VLAN ID

## 2.2.3



10

IP

IP

## 2.2.4



11

## 2.2.5

**端口限速设置**

注意：不限速的端口，保持对应文本框为空（1byte=8bit）。S2900系列设备不支持对端口输入速率限制的设置。

端口	输出速率限制 (312-1000000 KBit/s)	输入速率限制 (312-1000000 KBit/s)
GigabitEthernet 0/1	<input type="text"/>	<input type="text"/>
GigabitEthernet 0/2	<input type="text"/>	<input type="text"/>
GigabitEthernet 0/3	<input type="text"/>	<input type="text"/>
GigabitEthernet 0/4	<input type="text"/>	<input type="text"/>
GigabitEthernet 0/5	<input type="text"/>	<input type="text"/>
GigabitEthernet 0/6	<input type="text"/>	<input type="text"/>
GigabitEthernet 0/7	<input type="text"/>	<input type="text"/>
GigabitEthernet 0/8	<input type="text"/>	<input type="text"/>
GigabitEthernet 0/9	<input type="text"/>	<input type="text"/>
GigabitEthernet 0/10	<input type="text"/>	<input type="text"/>
GigabitEthernet 0/11	<input type="text"/>	<input type="text"/>
GigabitEthernet 0/12	<input type="text"/>	<input type="text"/>
GigabitEthernet 0/13	<input type="text"/>	<input type="text"/>
GigabitEthernet 0/14	<input type="text"/>	<input type="text"/>
GigabitEthernet 0/15	<input type="text"/>	<input type="text"/>

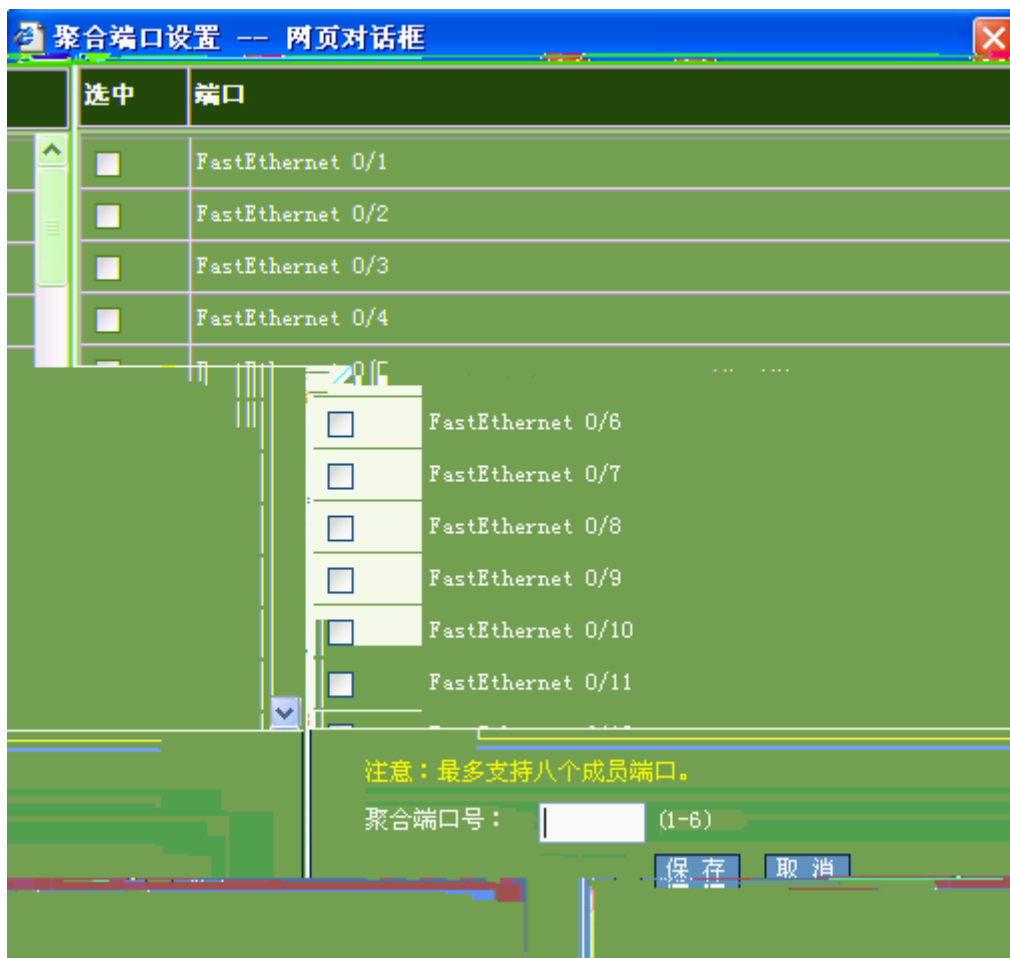
### 2.2.6



13

1

2



## 2.2.7

— Y

### 端口设置

注意：若选择的参数该端口不支持，对应的参数设置将不生效！

端口：

状态： 双工： 速率： 流控：

描述：

端口	状态	双工	速率	流控	描述
Gi0/1	Down	Half	10	On	-
Gi0/2	Down	Half	10	On	-
Gi0/3	Down	Full	1000	Off	-
Gi0/4	Down	Auto	Auto	Off	-
Gi0/5	Down	Full	100	Off	-
Gi0/6	Down	Auto	Auto	Off	-
Gi0/7	Up	Full	100	Off	-
Gi0/8	Down	Auto	Auto	Off	-
Gi0/9	Down	Full	100	Off	-
Gi0/10	Down	Auto	Auto	Off	-
Gi0/11	Down	Auto	Auto	Off	-
Gi0/12	Down	Auto	Auto	Off	-

### DHCP 中继设置

说明：DHCP中继可以实现不同子网之间的IP分配，相当于一个中转站，它将收到的客户端请求报文转发给指定的DHCP服务器，并将收到的服务器响应报文转发给DHCP客户端。

开启DHCP中继  
 关闭DHCP中继

保存

### DHCP服务器设置

DHCP服务器：  保存

### DHCP服务器

IP地址	MAC地址	操作
[Table content is blurred]		

全选 删除

16 DHCP

1) / DHCP

/ DHCP

2)DHCP

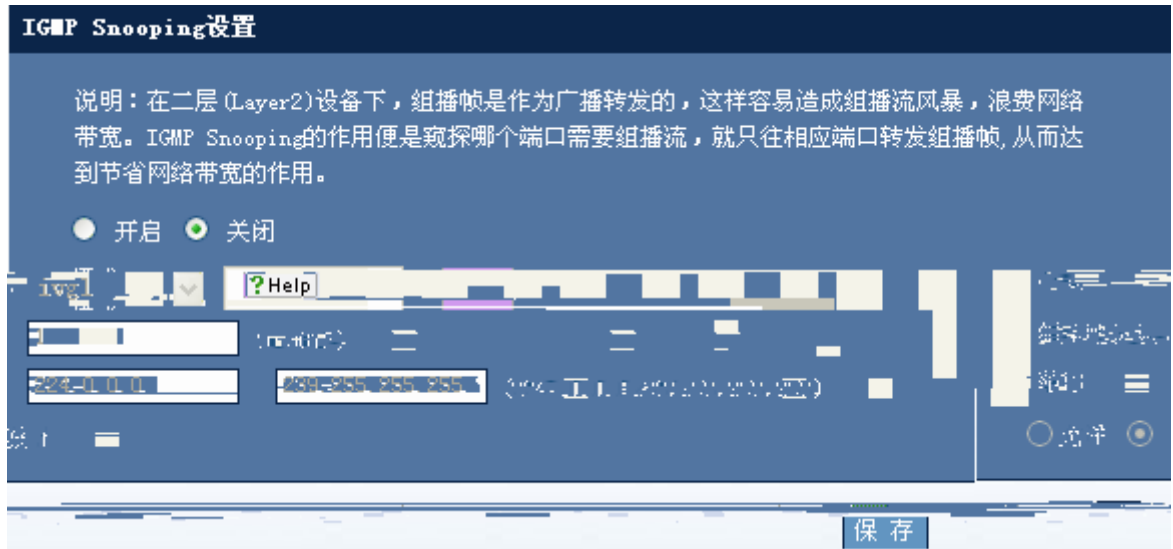
DHCP

DHCP

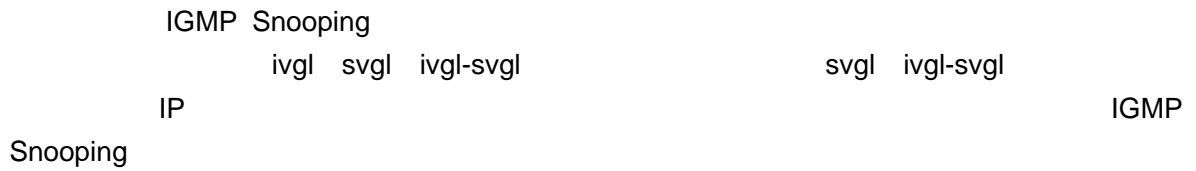
## 2.2.9 IGMP Snooping

IGMP Snooping

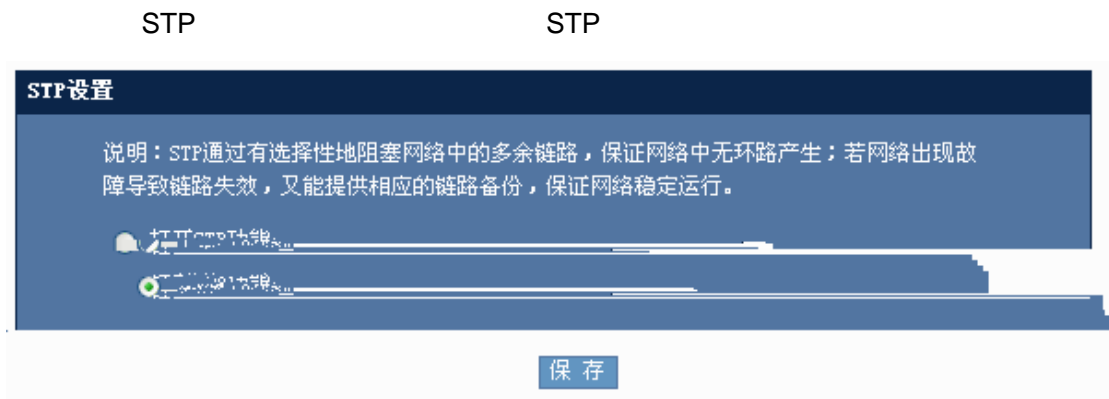
IGMP Snooping



17 IGMP Snooping



2.2.10 STP



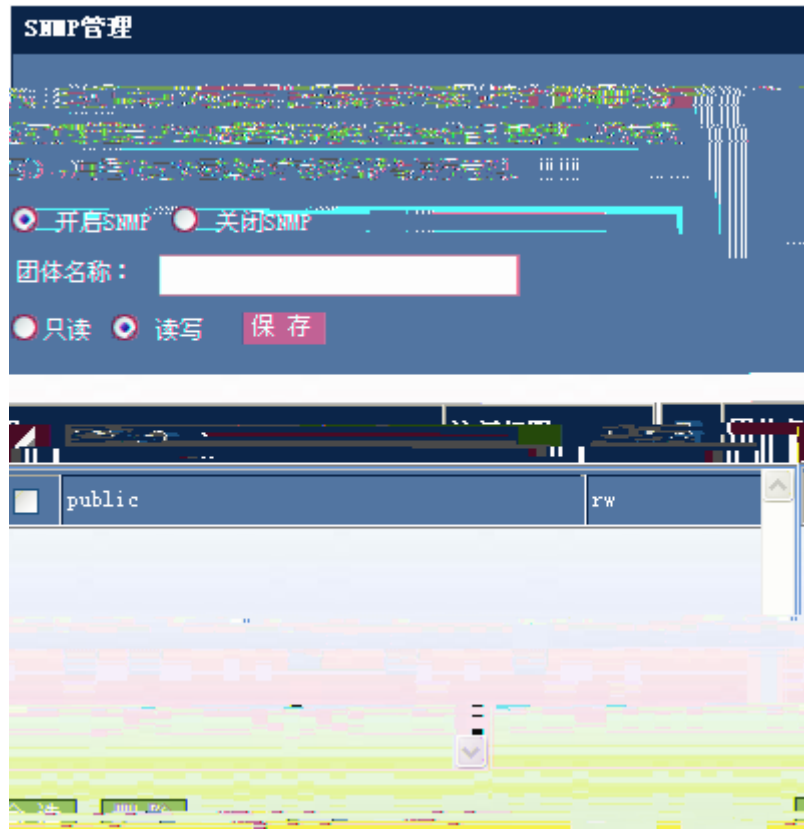
18 STP



2.2.11 SNMP



## SNMP



19 SNMP

SNMP

SNMP

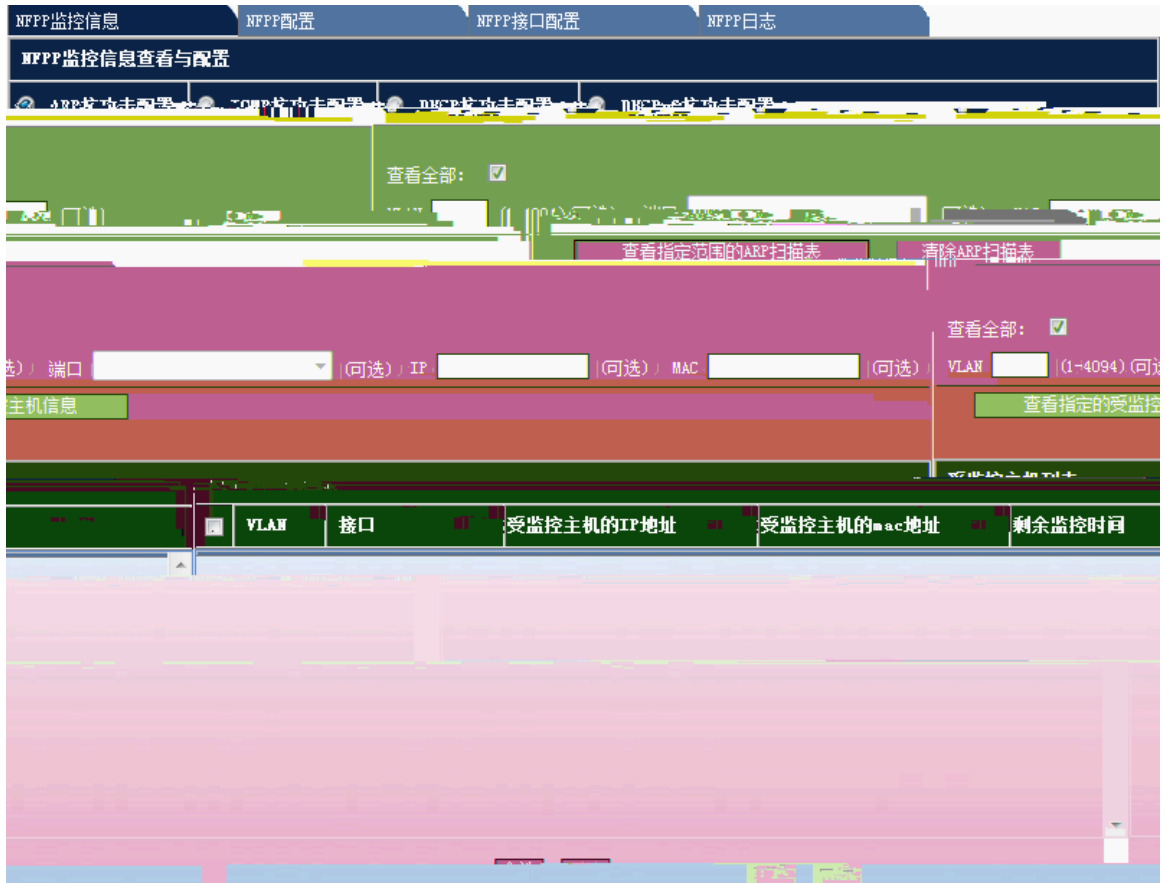
SNMP

SNMP

## 2.2.12 NFPP

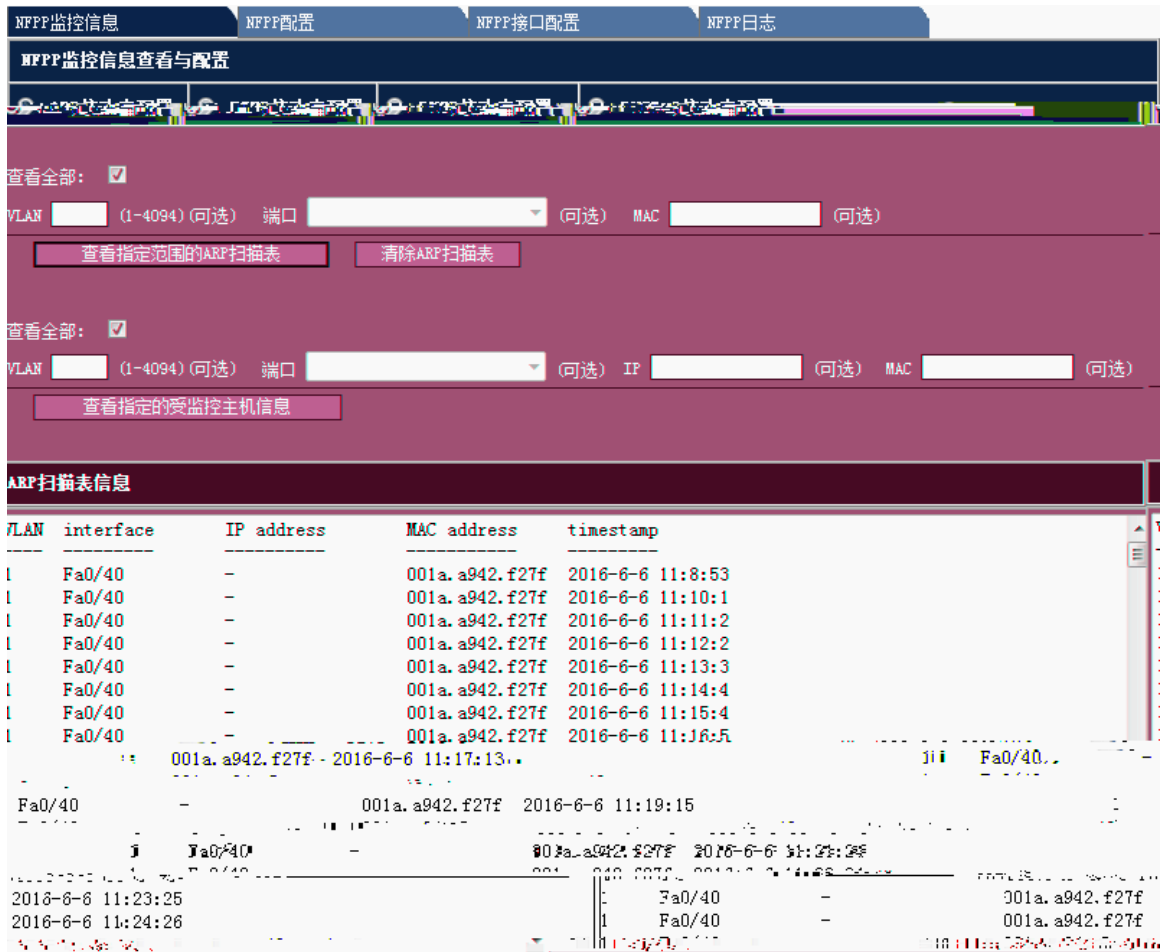
NFPP

1 NFPP



## 20 NFPP

- ARP



21 ARP

ARP

ARP

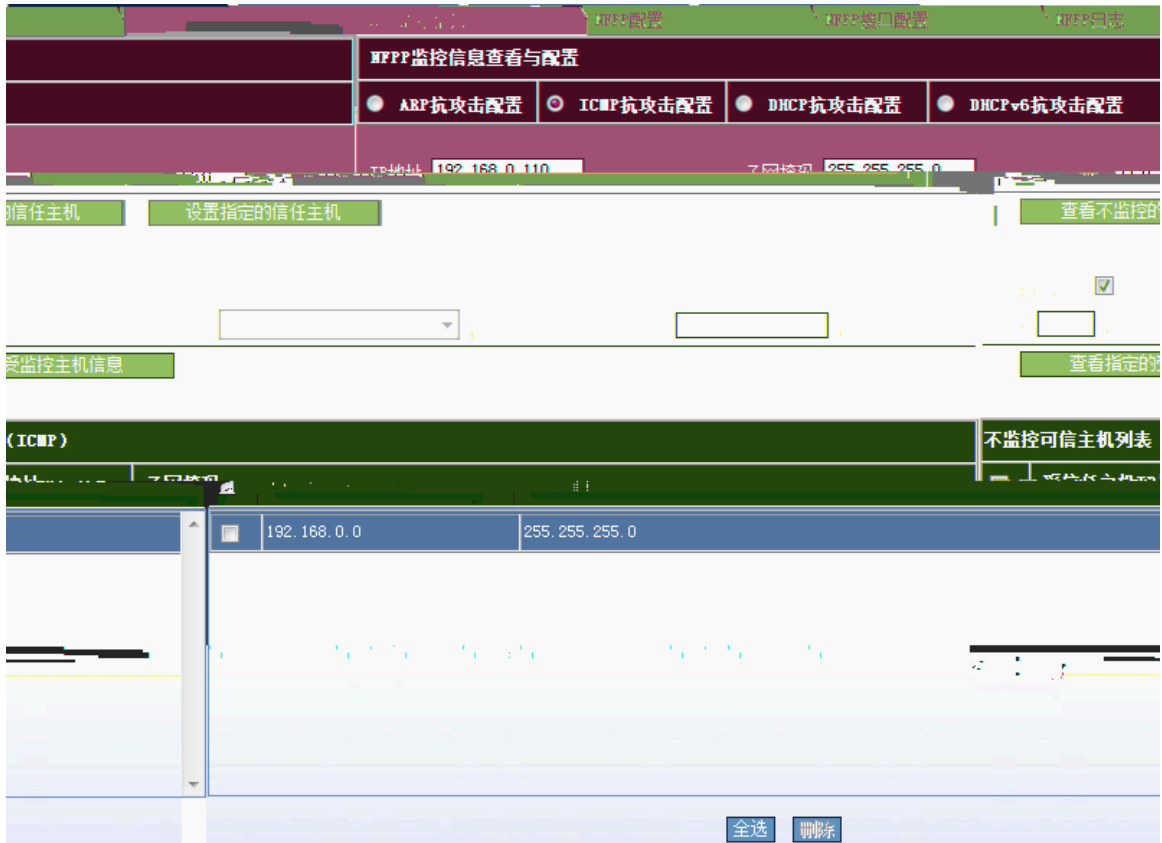
ARP

ARP

ARP

ARP

- ICMP

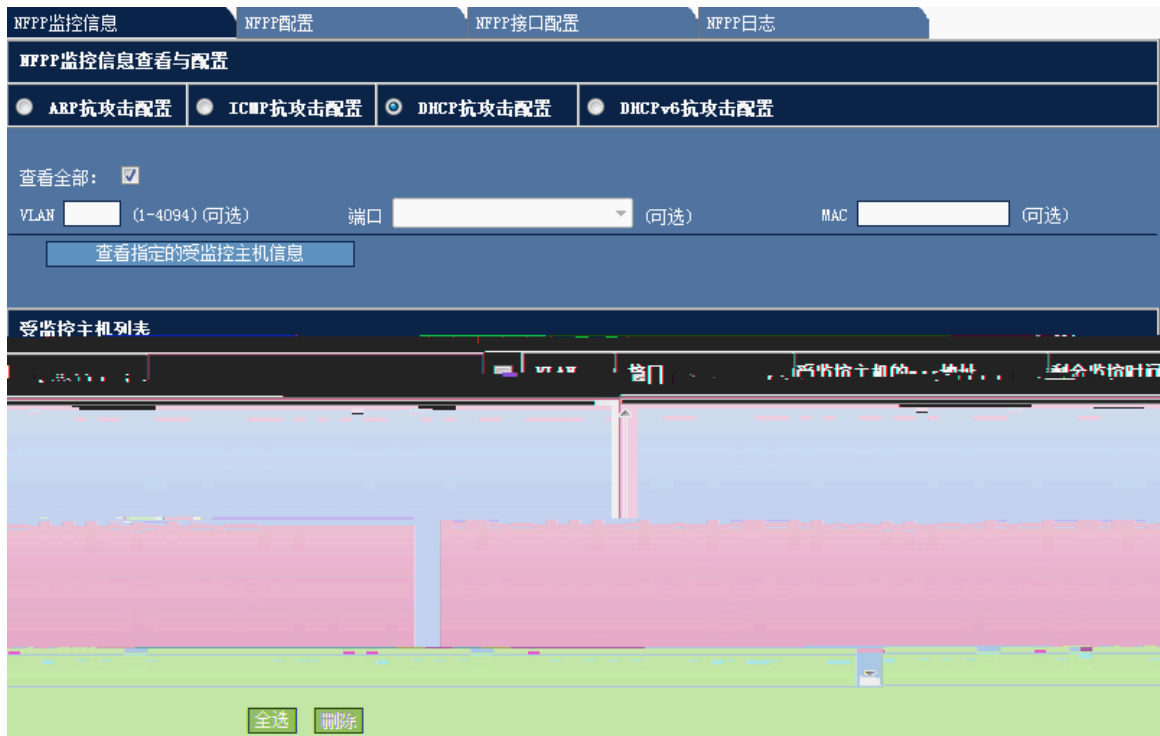


22 NFPF --ICMP

ICMP

IP

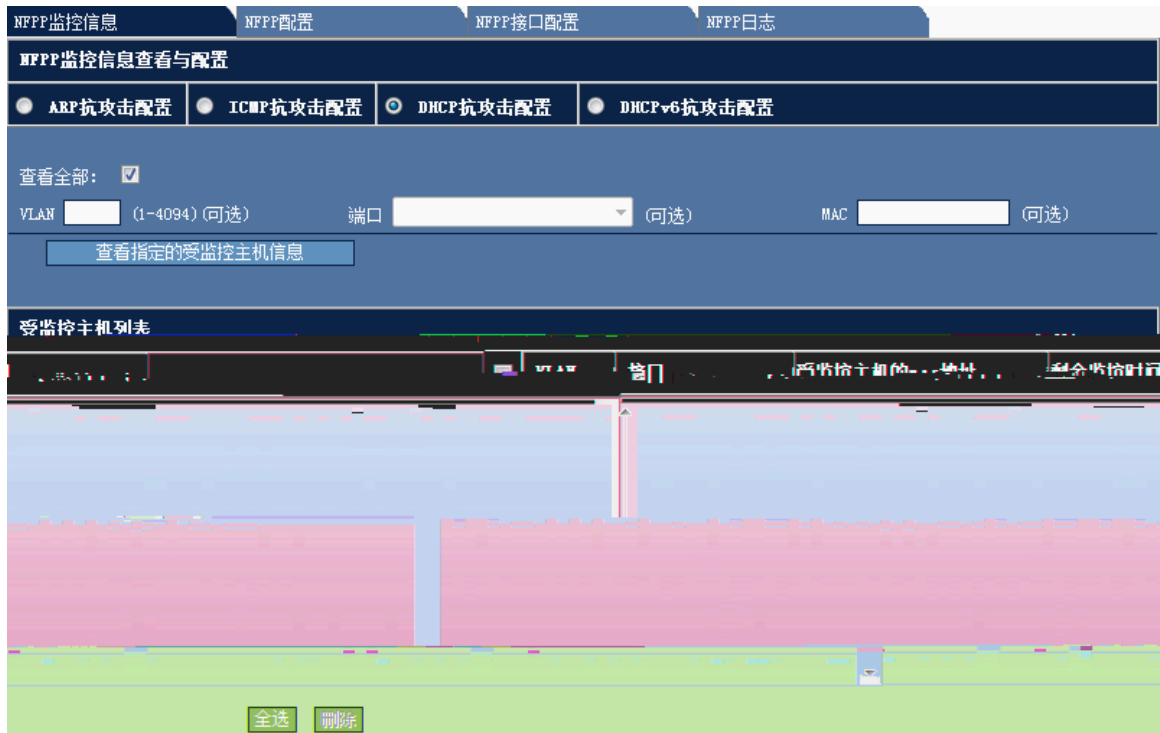
- DHCP



23 NFPP —DHCP

DHCP

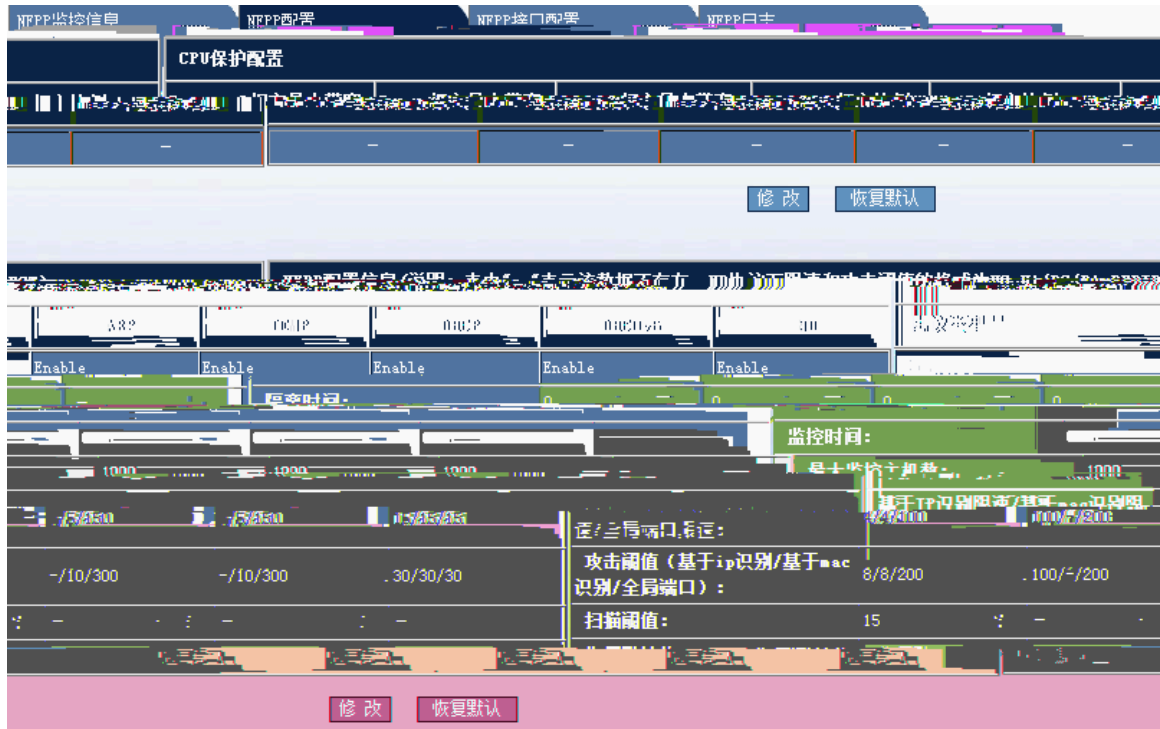
● DHCPv6



24 NFPP —DHCPv6

## DHCPv6

### 2 NFPP



WEB

---

CPU

NFPP监控信息    NFPP配置    **NFPP接口配置**    NFPP日志

**NFPP接口信息配置**

● ICMP攻击配置    ● DHCP攻击配置    ● DHCPv6攻击配置    ● DD攻击配置    ● **ARP攻击配置**

0/1     开启ARP攻击     关闭ARP攻击     默认    接口: FastEthernet

(可选): 限速值: 123 (1-9999)    攻击阈值: 123 (1-9999)    基于ip/vid/端口识别主机

(可选): 限速值: 789 (1-9999)    攻击阈值: 789 (1-9999)    基于mac/vid/端口识别主机

(可选): 限速值: 123 (1-9999)    攻击阈值: 456 (1-9999)    基于port端口识别主机(可

0/30-86400) (可选)     永久隔离    扫描阈值: 123 (1-9999) (可选)    隔离时间: 123

保存

攻击状态	隔离时间	限速值(基于IP/MAC/PORT)	攻击阈值(基于IP/MAC/PORT)	扫描阈值	<input type="checkbox"/>	接口	ARP攻击
	123	123/789/123	123/789/456	123	<input type="checkbox"/>	Fa0/1	Enable

全选    删除

28 NFPP    —NFPP    ARP

ARP    NFPP

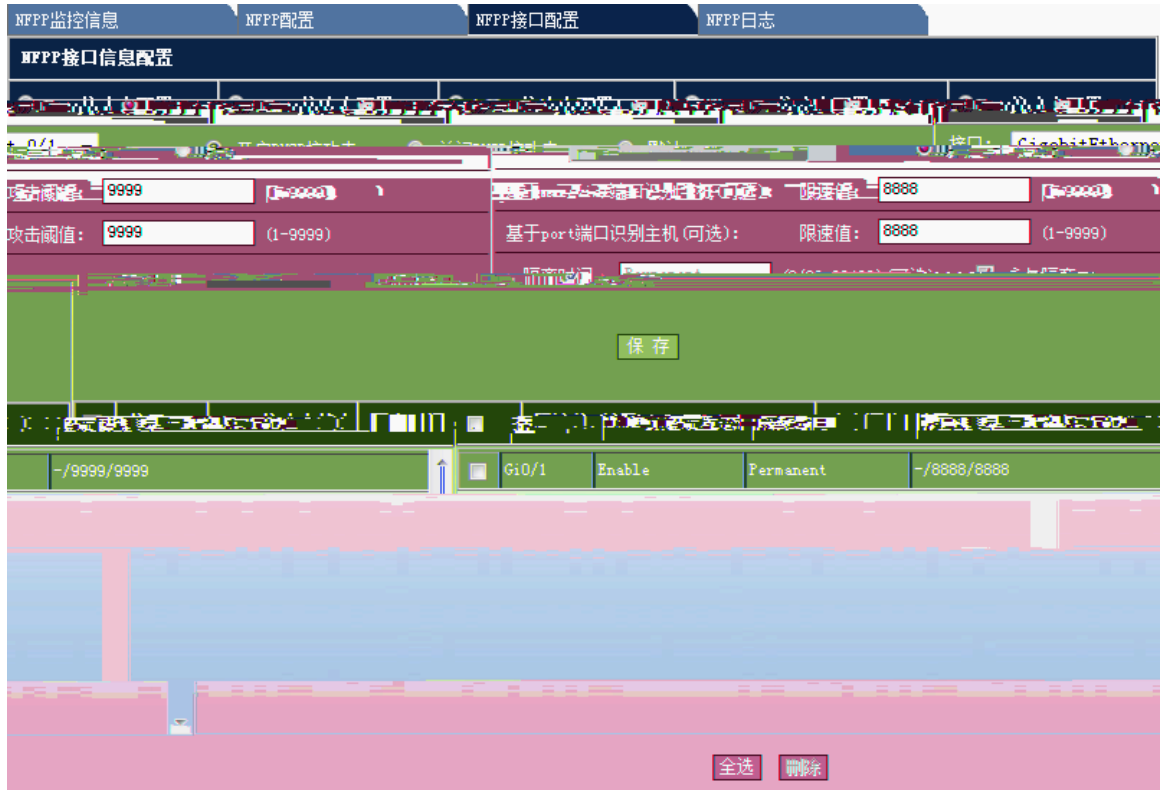
- ICMP



29 NFPF —NFPF ICMP

ICMP NFPF

- DHCP



30 NFPP —NFPP DHCP

DHCP NFPP

- DHCPv6

NFPP监控信息    NFPP配置    **NFPP接口配置**    NFPP日志

**NFPP接口信息配置**

● ARP攻击配置    ● ICMP攻击配置    ● DHCP攻击配置    ● **DHCPv6攻击配置**

接口: GigabitEthernet 0/1     开启DHCPv6攻击     关闭DHCPv6攻击

基于mac/vid/端口识别主机(可选): 限速值: 8888 (1-9999)    攻击阈值: 9999 (1-9999)

基于port端口识别主机(可选): 限速值: 8888 (1-9999)    攻击阈值: 9999 (1-9999)

隔离时间: Permanent (0/30-86400)(可选)     永久隔离

MAC/PORT	接口	DHCPv6攻击状态	隔离时间	限速值(基于IP/MAC/PORT)	攻击阈值(基于IP/MAC/PORT)
	<input type="checkbox"/> Gi0/1	Enable	Permanent	-/8888/8888	-/9999/9999

31 NFPP    —NFPP    DHCPv6

DHCPv6    NFPP

- ND



32 NFPP —NFPP ND

ND NFPP

#### 4 NFPP

NFPP监控信息    NFPP配置    NFPP接口配置    NFPP日志

### NFPP日志信息配置

日志缓冲区大小:  (0-1024) (可选)    生成系统消息速率:    消息数:  (0-1024) (可选)    时间长度:  (0-86400) (可选)

指定需要记录日志的VlanID (用“-”隔开, 相连的区间可用“-”连接):  (1-4094) (可选)

指定需要记录日志的端口 (可选):

- gigabitEthernet 0/2    删除
- gigabitEthernet 0/3    删除

记录日志的VLAN	需要记录日志的端口	缓冲区大小	生成系统消息速率 (默认单位为每秒)	需要
Gi0/1, Gi0/2, Gi0/3,		1000	1024/86400	1-4094

**MFPP日志信息配置**

日志缓冲区大小:  (0-1024) (可选)    生成系统消息速率:    消息数:  (0-1024) (可选)    时间长度:  (0-86400) (可选)

指定需要记录日志的VLAN ID (用“|”隔开, 指定的VLAN可用“\*”连接)  (0-1004) (可选)

**日志缓冲区:**

Timestamp	Protocol	VLAN	Interface	IP address	MAC address	Reason
-----	-----	-----	-----	-----	-----	-----

34

## 2.3

### 2.3.1 ARP

ARP

ARP



35 ARP

### 2.3.2 ARP

ARP

ARP



36 ARP

1) /MAC/IP

/MAC/IP

IP MAC

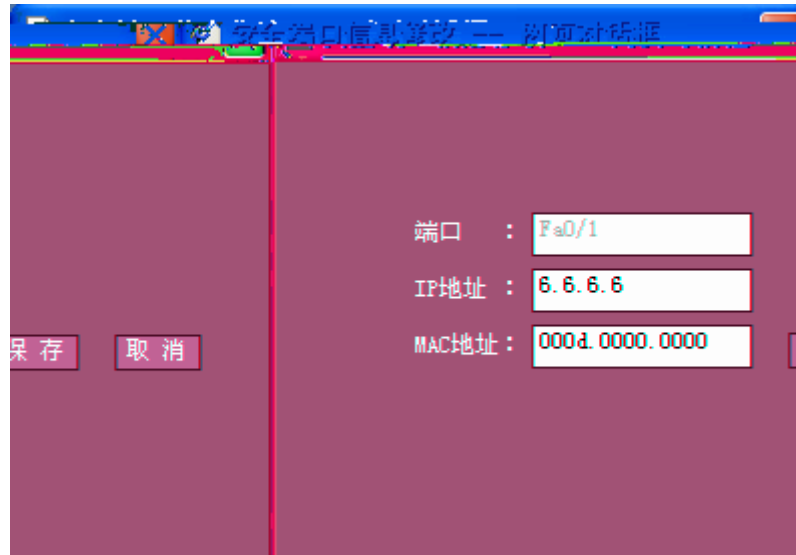
MAC

GigabitEthernet 0/15

MAC

2

3)



37

### 2.3.3 APR

ARP

ARP



38 ARP

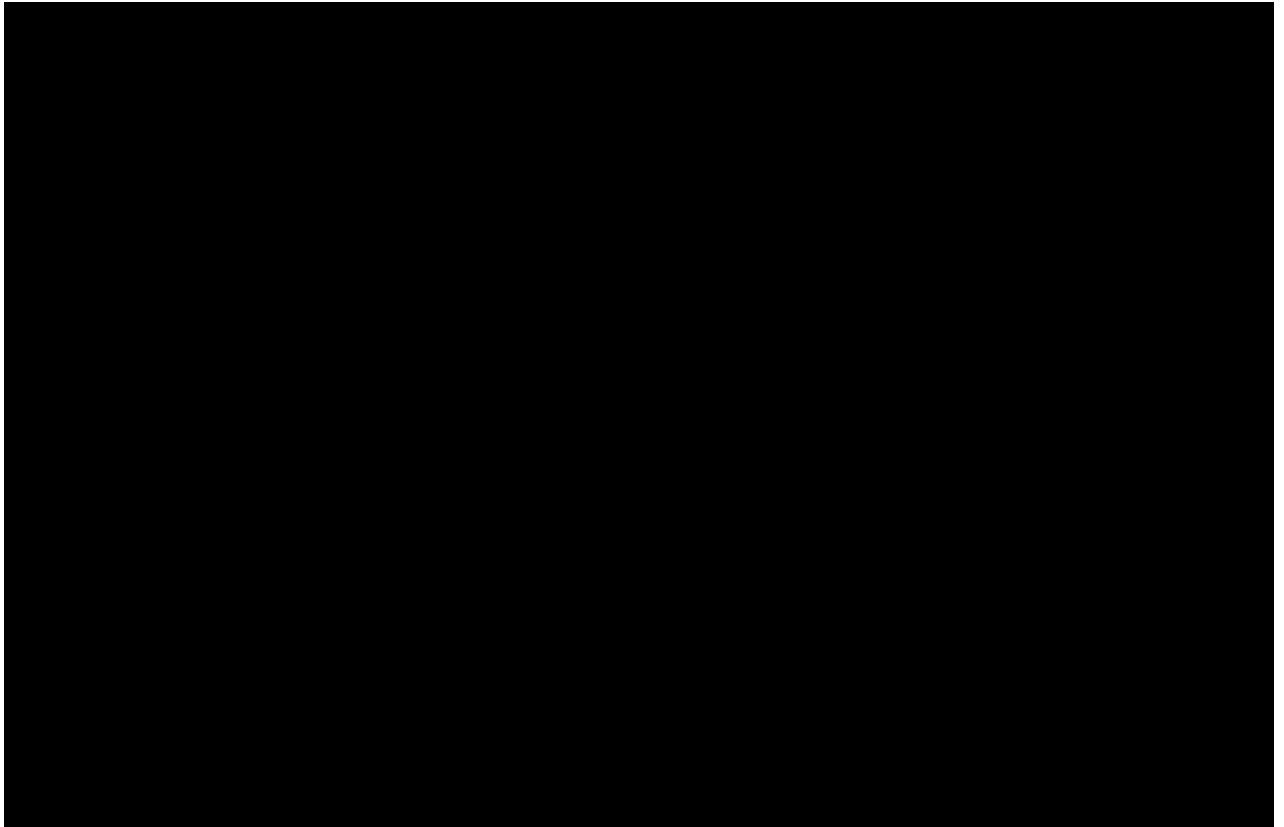
ARP

ARP

### 2.3.4 ACL

ACL

ACL



39 ACL

1 ACL

ACL  
ACL

ACL

ACL  
ACE  
ACL

ACL  
ACE

ACE

2 ACL

IP

IP

IP

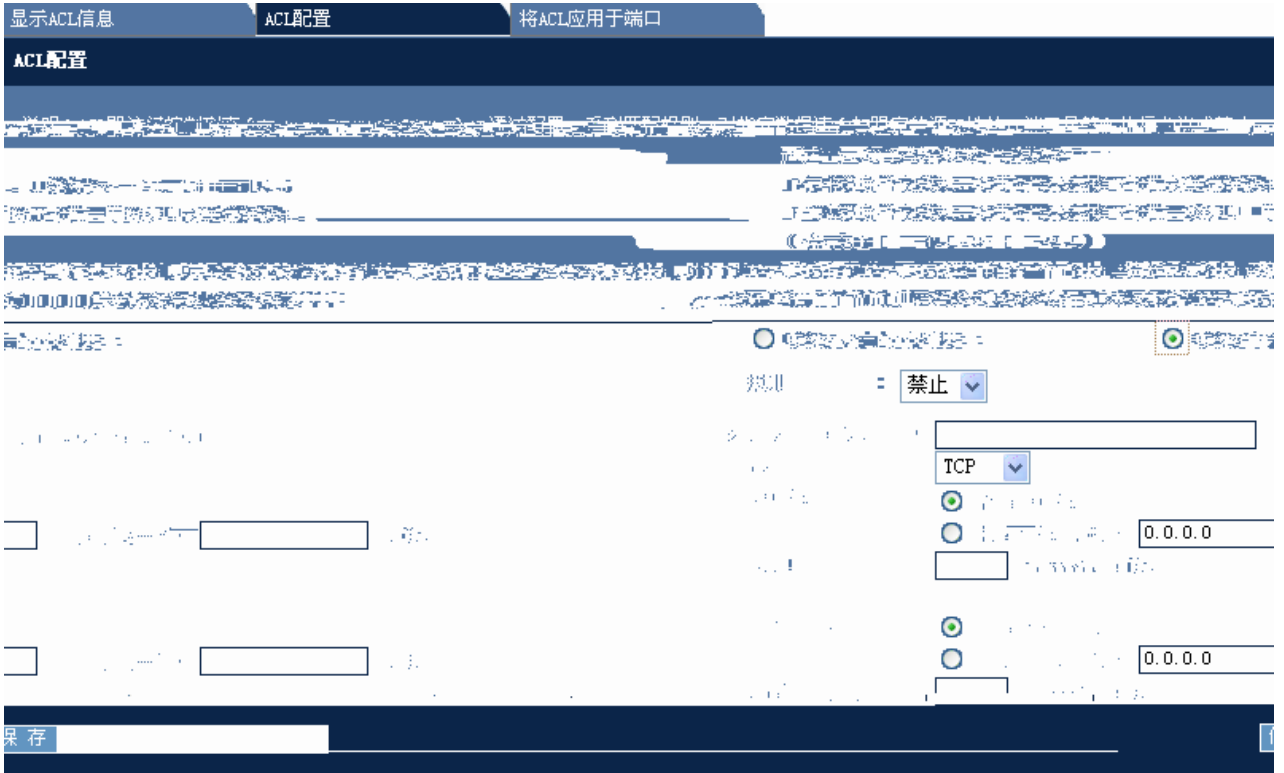


40 IP

ID

IP IP , IP

IP IP IP





42 ACL

ACL

ACL



### 2.3.5 IP Source Guard

IP Source Guard:

IP Source Guard	IP	[VLAN	MAC
IP	PORT]		
IP Source Guard	DHCP Snooping	DHCP Snooping	
IP	IP Source Guard		DHCP
IP		IP	

IP Source Guard  
DHCP Snooping

DHCP Snooping

IP Source Guard

IP Source Guard



43 IP Source Guard

1

IP Source Guard

IP+MAC

IP+MAC

( )

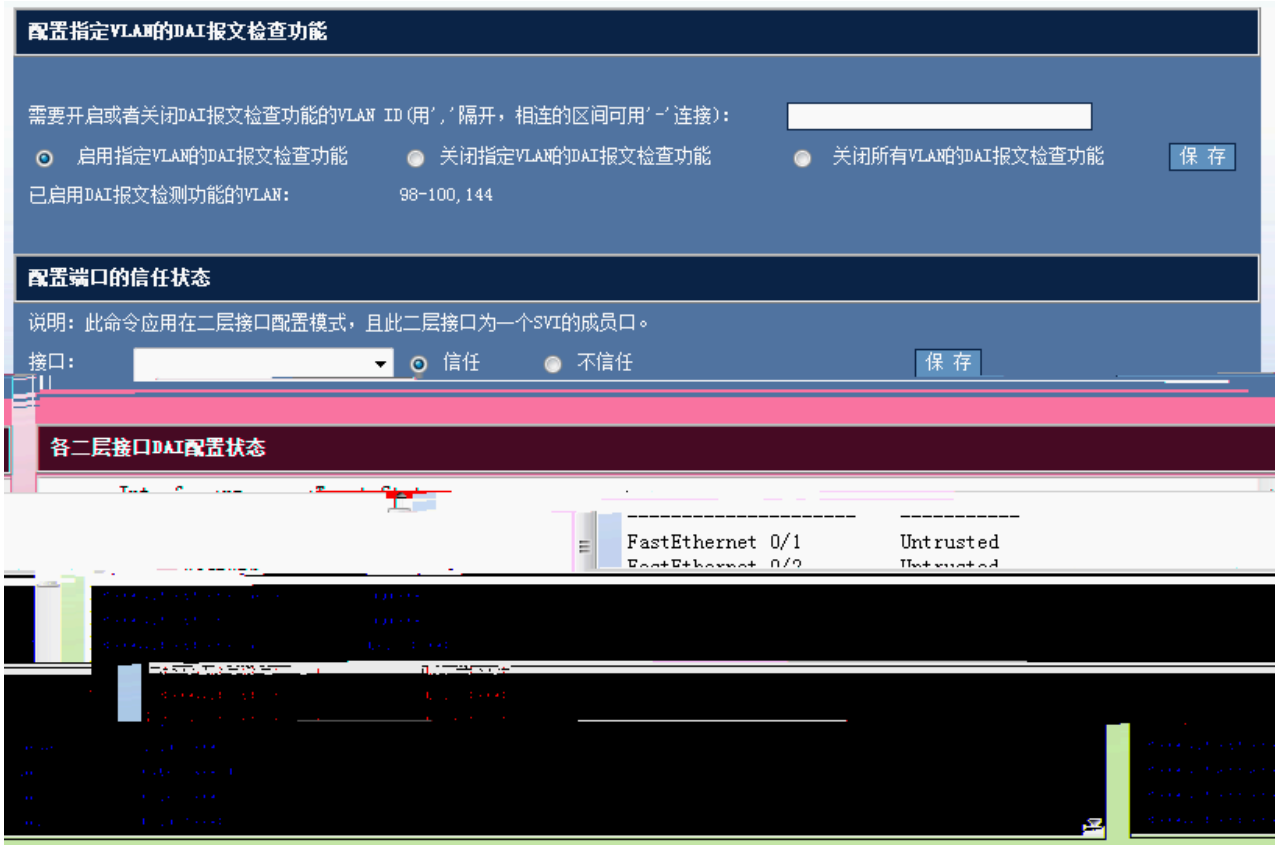
2

IP

MAC

MAC





45 DAI

1 VLAN DAI

VLAN DAI

VLAN 100 DAI vlan-id 100 ARP DAI

DAI VLAN ID VLAN  
VLAN DAI VLAN DAI

DAI VLAN

2

ARP

DAI

ARP

ARP

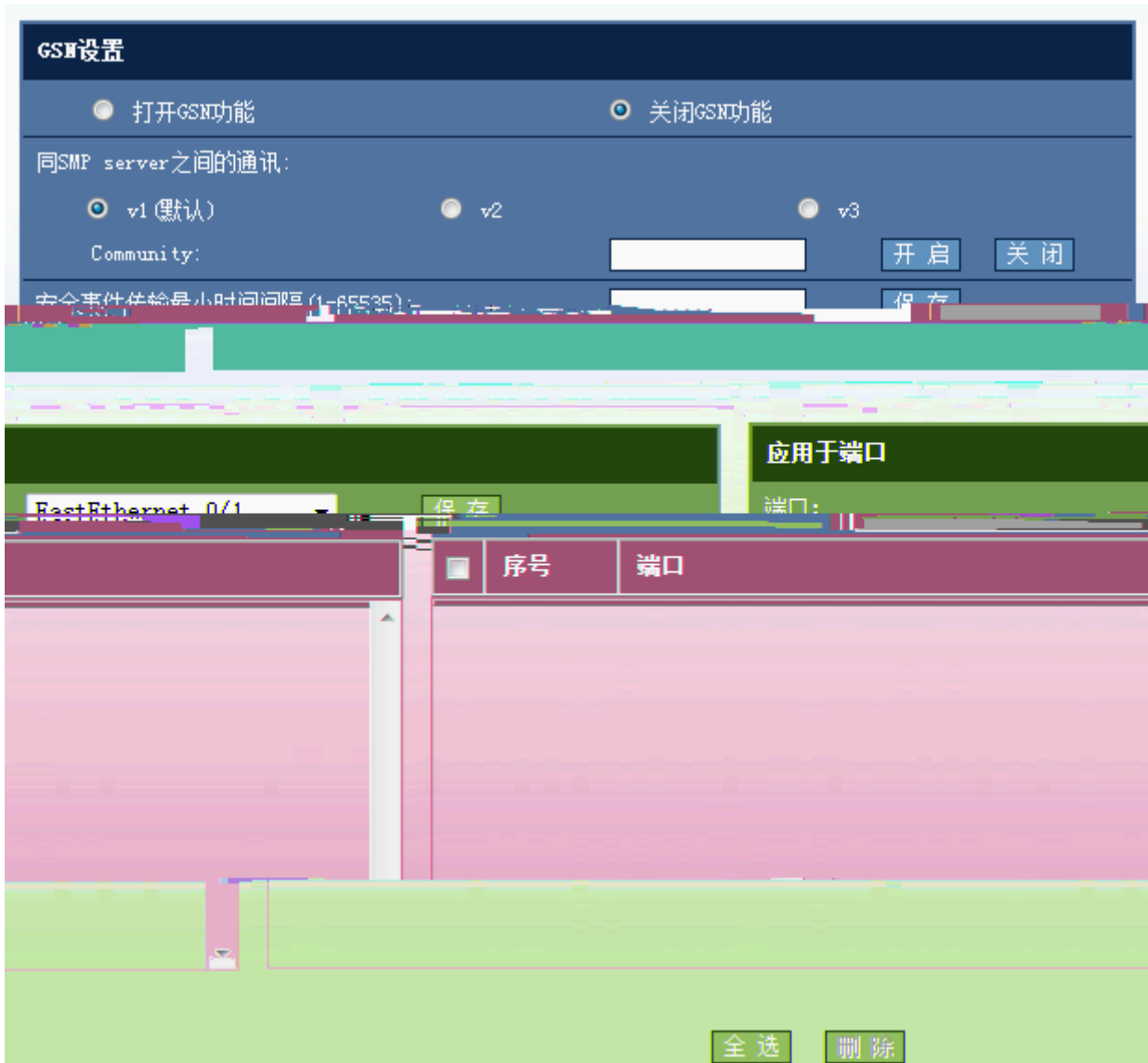
DAI

DAI

### 2.3.7 GSN

GSN

GSN

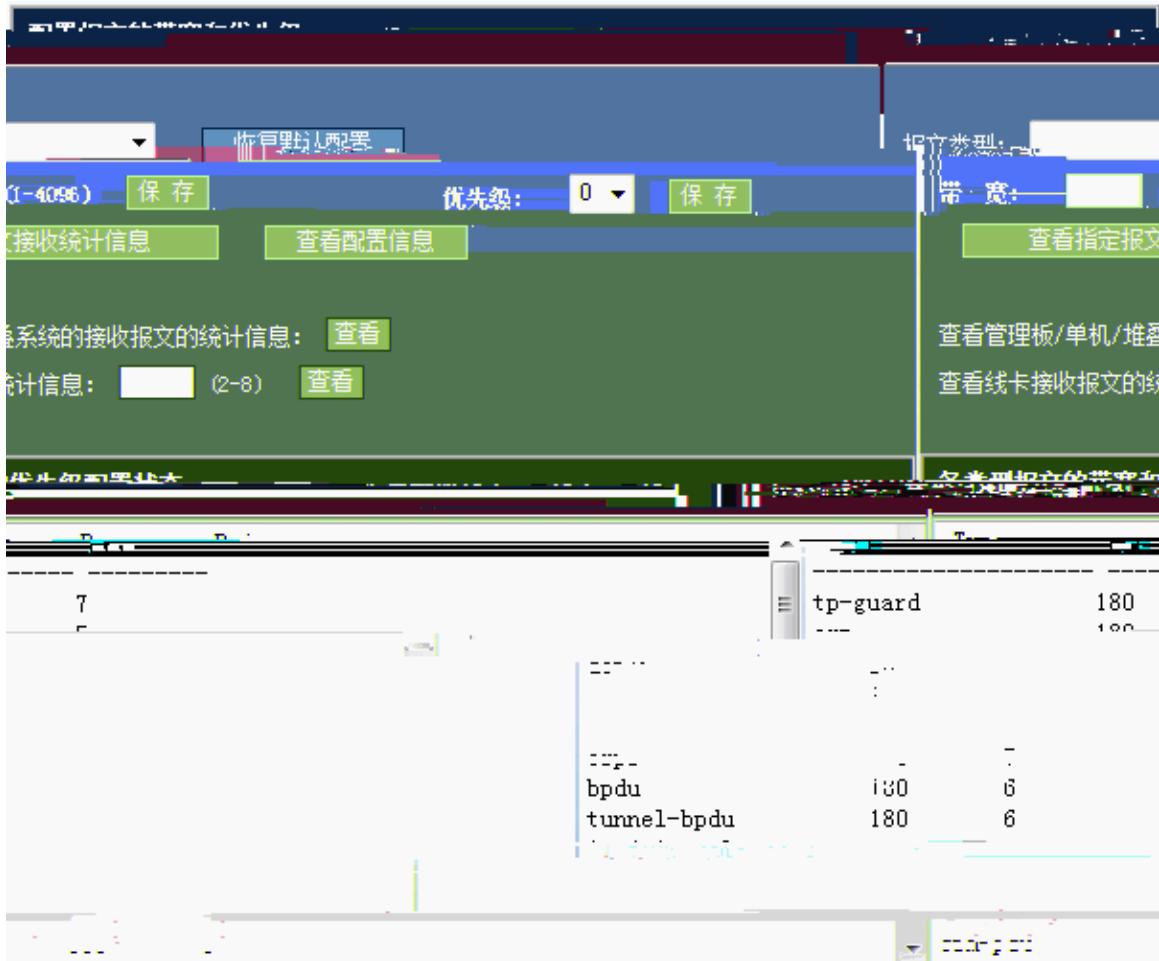


46 GSN

- 1)            GSN  
              GSN                    GSN                    GSN                    GSN
- 2)    SMP server  
       SMP server                    v1                    v2 v3                    Community    User
- 3)

### 2.3.8 CPP

#### CPP



47 CPP

arp报文接收统计信息				
Slot	Type	Pps	Total	Drop
MainBoard	arp	10	324430	0

48

各类型报文的带宽和优先级配置状态				
Type	Pos	Pri		
arp-guard	180	7		
dot1x	2000	4		
lldp	180	7		
tunnel-bpdu	180	6		
ipv4-icmp-local	1600	6		
lldp_cdp	180	5		
cfm-pdu	180	3		

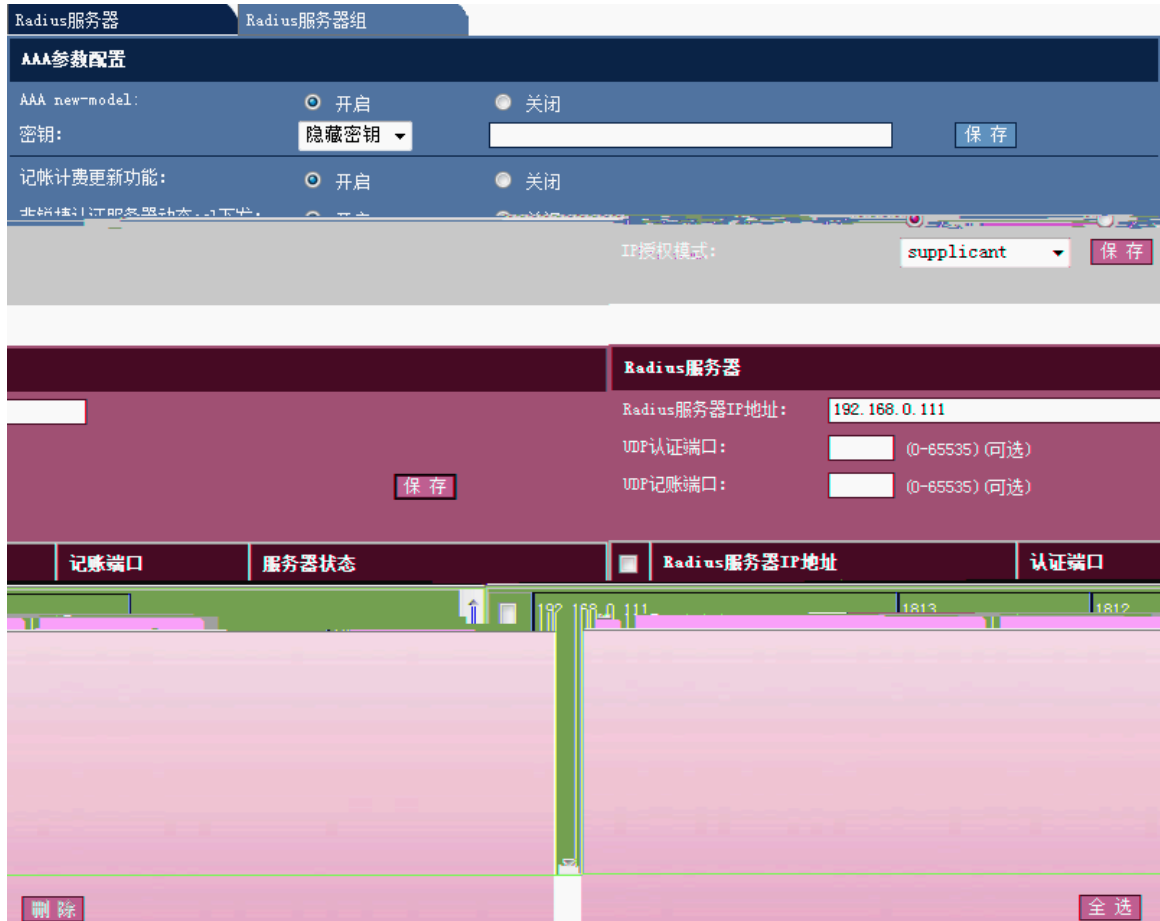
49

管理板/单机/堆叠系统的接收报文的统计信息				
Type	Pps	Total	Drop	
arp	10	324430	0	
arp-guard	180	180	0	
dot1x	2000	2000	0	
lldp	180	180	0	
tunnel-bpdu	180	180	0	
ipv4-icmp-local	1600	1600	0	
lldp_cdp	180	180	0	
cfm-pdu	180	180	0	

### 2.3.9 RADIUS

#### RADIUS

##### 1 RADIUS



51 RADIUS

AAA  
AAA new-model

AAA  
AAA

RADIUS

The screenshot shows a web interface for configuring RADIUS server groups. At the top, there are two tabs: "Radius服务器" and "Radius服务器组". Below the tabs, there are several configuration options:

- AAA 认证配置: AAA new-model: [enable/disable] [保存]
- 记帐计费更新功能: [enable/disable]
- 非锐捷认证服务器动态acl下发: [enable/disable]
- IP授权模式: [enable/disable]

The main configuration area is titled "Radius服务器组" and contains the following fields:

- 组名: [text input]
- Radius服务器IP地址: [text input]
- UDP认证端口: [text input] (0-65536) (可选)
- UDP记账端口: [text input] (0-65536) (可选)
- [保存] button

Below the configuration fields, there is a "Radius服务器组管理:" section with a dropdown menu showing "radius" and buttons for "删除" and "刷新".

At the bottom, there is a terminal window showing the following output:

```
radius=====
12
12
12
=====Radius group r
Vrf:not-set
Server:7::1
  Authentication port:18
  Accounting port:1813
  State:Active
Server:::1
  Authentication port:18
  Accounting port:1813
  State:Active
Server:::
  Authentication port:18
  Accounting port:1813
  State:Active
```



53 AAA

1 AAA

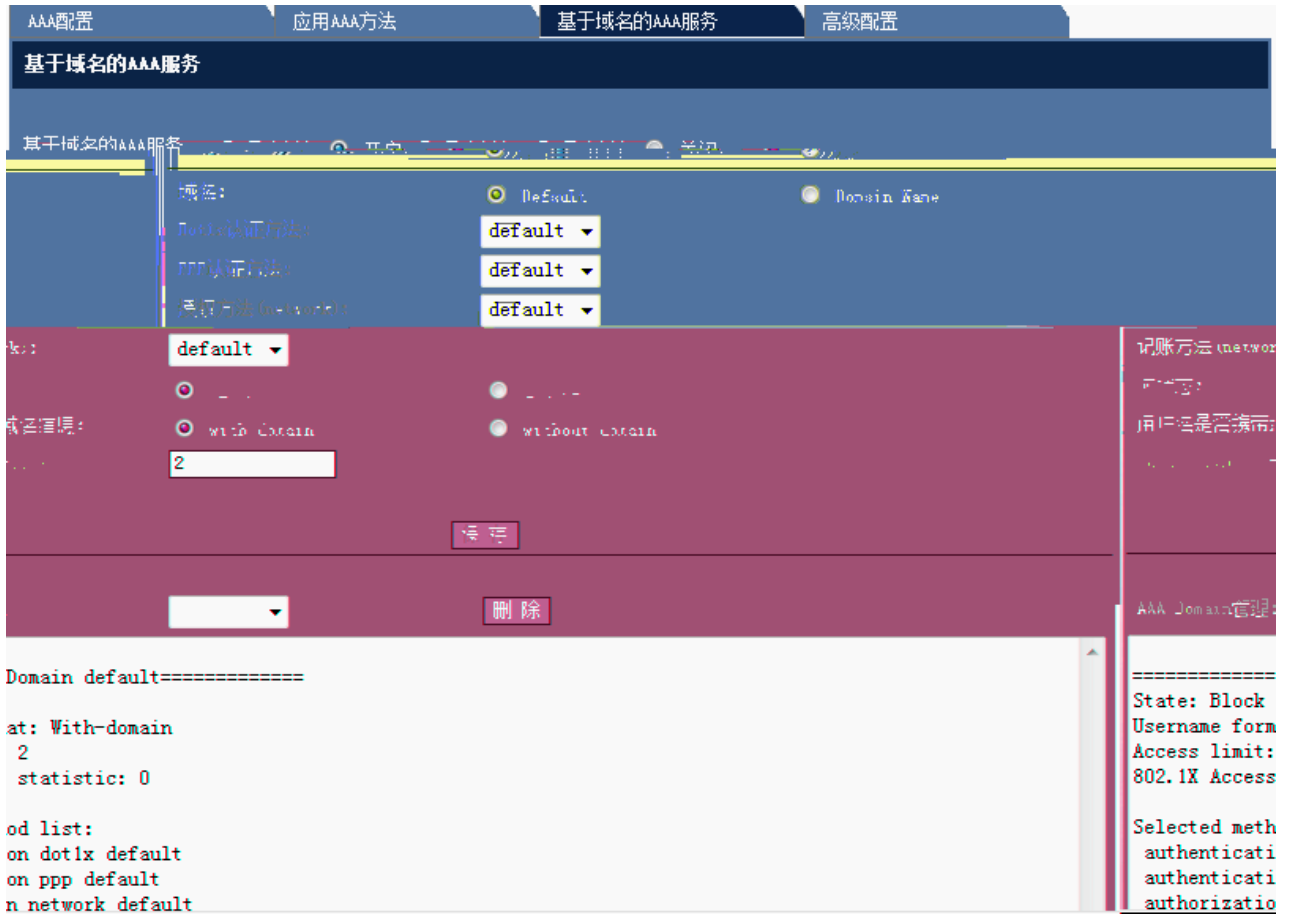
AAA

AAA

AAA

3

AAA



55

AAA

(network)

AAA (network)

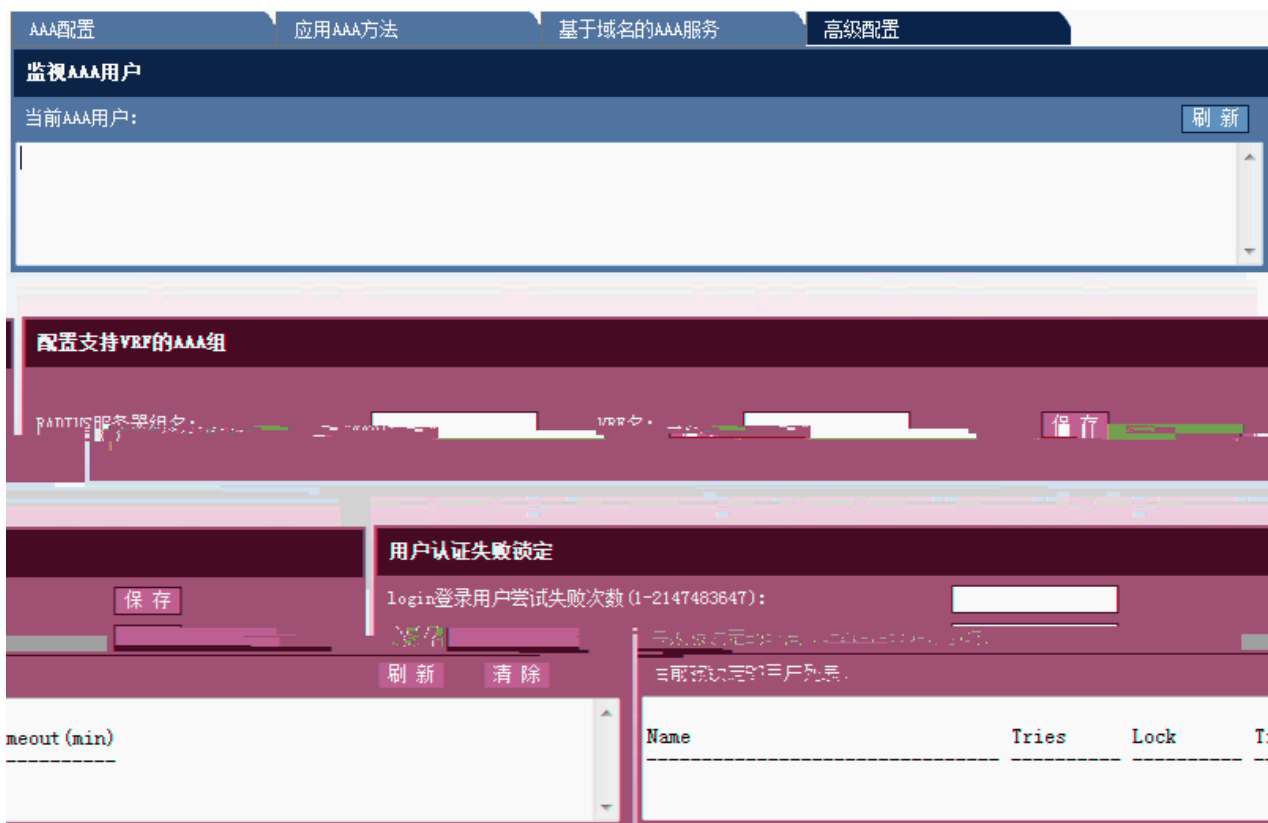
Dot1x

PPP

Access Limit

AAA Domain

4 AAA



56 AAA

AAA

AAA

VRF AAA

### 2.3.11 Dot1x

#### Dot1x

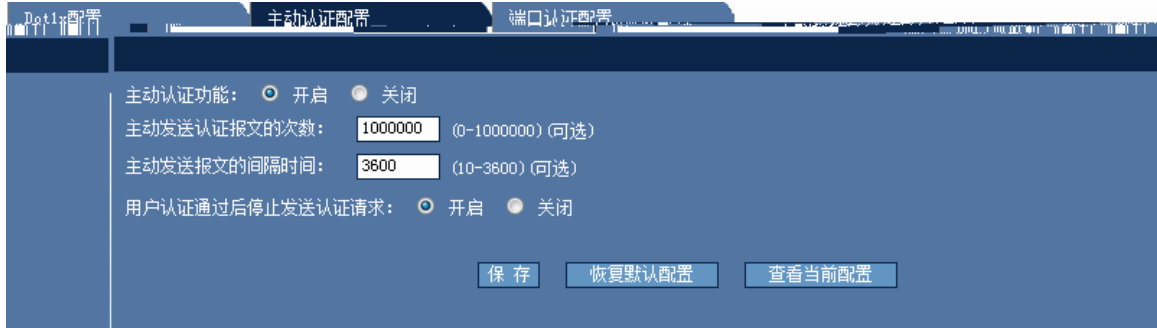
##### 1 Dot1x



57 Dot1x

## Dot1x

2



58

3

Dot1x配置 主动认证配置 端口认证配置

说明：以下配置项均为可选。

802.1x认证功能： 开启  关闭

VLAN自动跳转功能： 开启  关闭

Guest VLAN跳转： 开启  关闭 Vlan Id:  (1-4094)

端口的控制模式： 基于用户MAC  基于端口单用户的控制模式

MAC旁路认证： 开启  关闭

MAC旁路认证超时时间： (1-65535)

MAC旁路认证违例： 开启  关闭

端口：FastEthernet 0/1

禁止动态用户在多个认证端口之间迁移： 开启  关闭(默认值)

端口下可认证主机列表

主机IP地址	端口
--------	----



60

2

802.1x

MAC

VLAN

### 2.3.12



**智能绑定**

手动查找IP MAC对应信息       通过ARP表查看IP MAC对应信息

序号	IP	MAC	Vlan	操作
1	192.168.23.14	bc30.5bbe.8f4f	1	绑定
2	192.168.23.39	0025.64c5.af05	1	绑定
3	192.168.23.55	001e.ec0e.70ee	1	绑定
4	192.168.23.66	0023.ae86.b116	1	绑定
5	192.168.23.76	00d0.f866.66e0	1	绑定
6	192.168.23.83	0025.64af.cdee	1	绑定
7	192.168.23.93	0025.64c5.8970	1	绑定
8	192.168.23.94	0025.64c5.b2b9	1	绑定

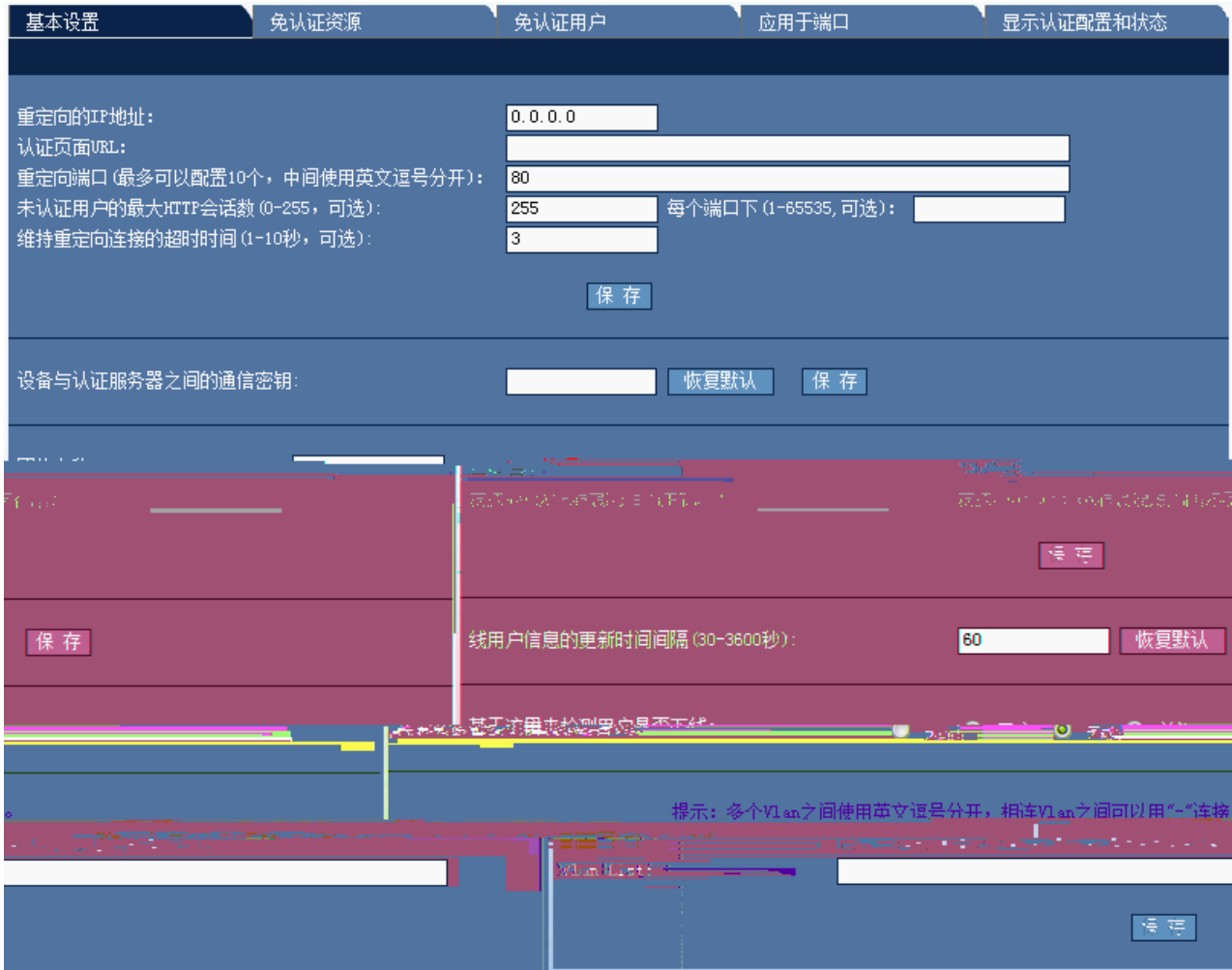
刷新

62 ARP

### 2.3.13 WEB

web

web

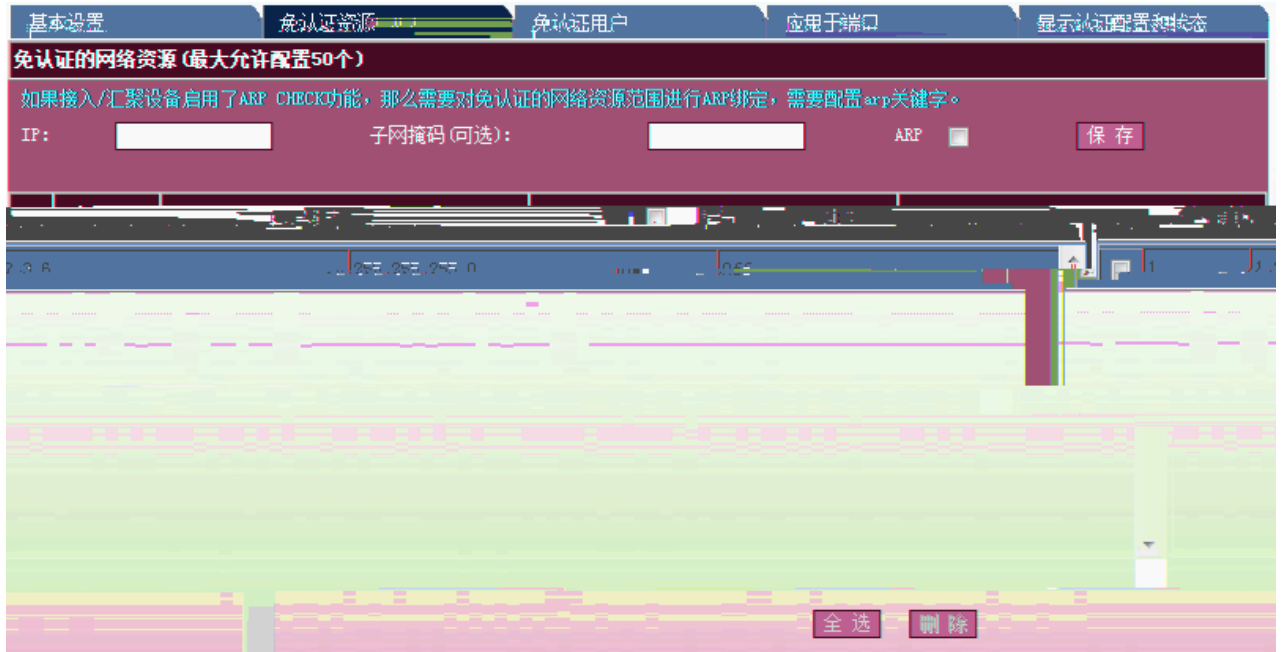


63 web

1) web

web IP URL  
 HTTP (0-255 )  
 , , Web IP,SNMP-Inform ,  
 ,Vlan List  
 80

2)



64

IP

3)



65

IP

4)

基本设置   免认证资源   免认证用户   应用于端口   显示认证配置和状态

应用于端口

端口:    IP Only Mode   

<input type="checkbox"/>	序号	端口	IP Only Mode
<input type="checkbox"/>	1	FastEthernet 0/1	YES
<input type="checkbox"/>	2	FastEthernet 0/3	YES

66

5)

基本设置   免认证资源   免认证用户   应用于端口   显示认证配置和状态

Empty content area with a vertical scrollbar.

67

IP

## 2.3.14 DHCP Snooping

### DHCP Snooping

#### DHCP Snooping

**DHCP Snooping 设置**

说明：DHCP Snooping就是DHCP窥探，通过对Client和服务端之间的DHCP交互报文进行窥探，实现对用户的监控，同时DHCP Snooping起到一个DHCP 报文过滤的功能，通过合理的配置实现对非法服务器的过滤。

开启DHCP Snooping功能     关闭DHCP Snooping功能  
 开启DHCP源MAC检查功能     关闭DHCP源MAC检查功能

---

**DHCP Snooping 信任端口设置**

端口：

---

**DHCP Snooping配置信息**

	端口	信任端口
限速		

68 DHCP Snooping

#### 1)DHCP Snooping

2)DHCP Snooping

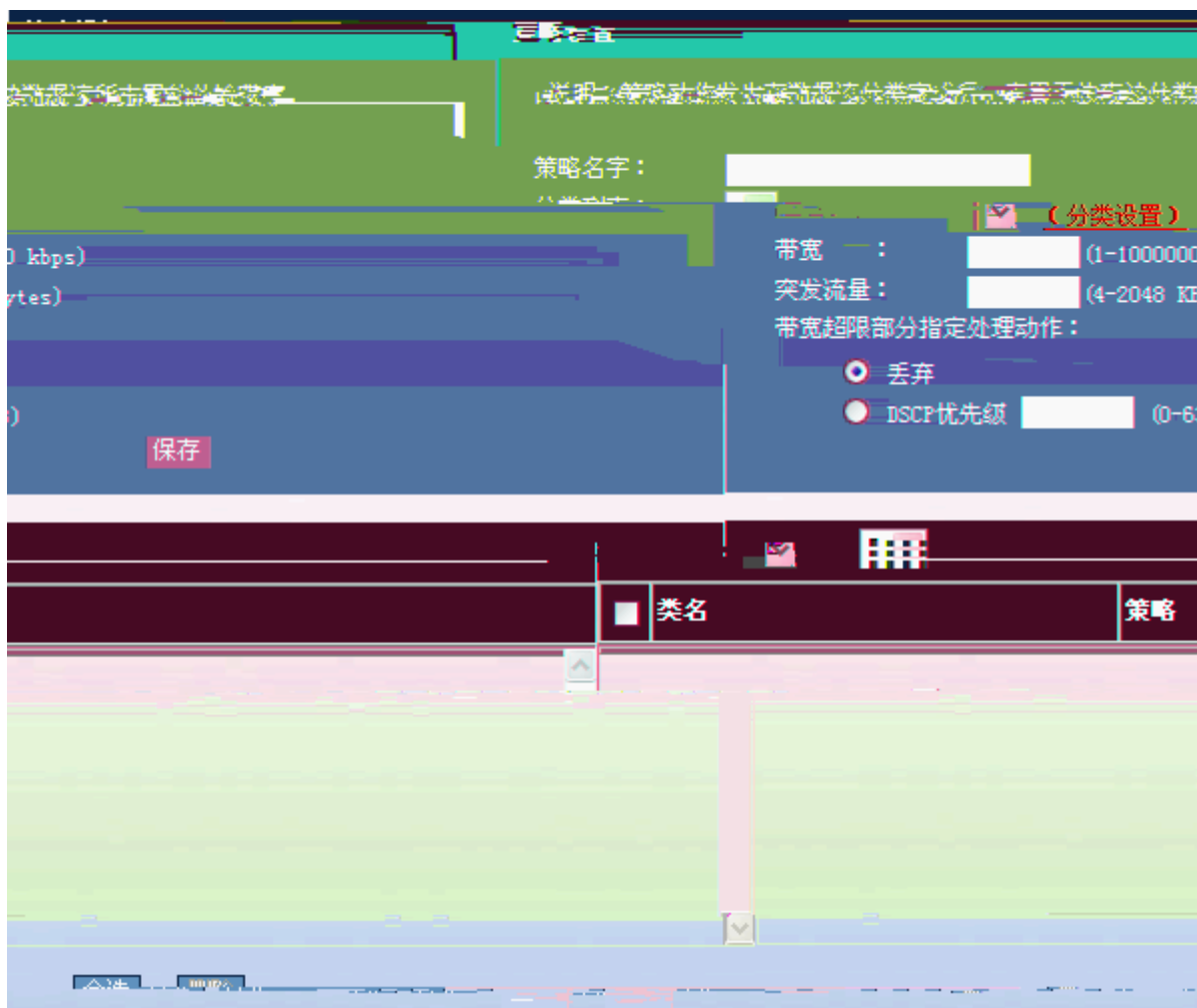
## 2.4 QOS

### 2.4.1



ACL

### 2.4.2



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DSCP

## 2.4.3

**流设置**

说明：应用策略设置对端口的输入或输出流进行限制。

端 口：  ▼

策略列表：  [\(策略设置\)](#)

限速方向：  输入限速  输出限速

■	端口	方向	策略名	信任模式	COS
■	FastEthernet 0/1	-	-	-	-
■	FastEthernet 0/2	-	-	-	-
■	FastEthernet 0/3	-	-	-	-
■	FastEthernet 0/4	-	-	-	-
■	FastEthernet 0/5	-	-	-	-
■	FastEthernet 0/6	-	-	-	-
■	FastEthernet 0/7	-	-	-	-
■	FastEthernet 0/8	-	-	-	-
■	FastEthernet 0/9	-	-	-	-
■	FastEthernet 0/10	-	-	-	-
■	FastEthernet 0/11	-	-	-	-

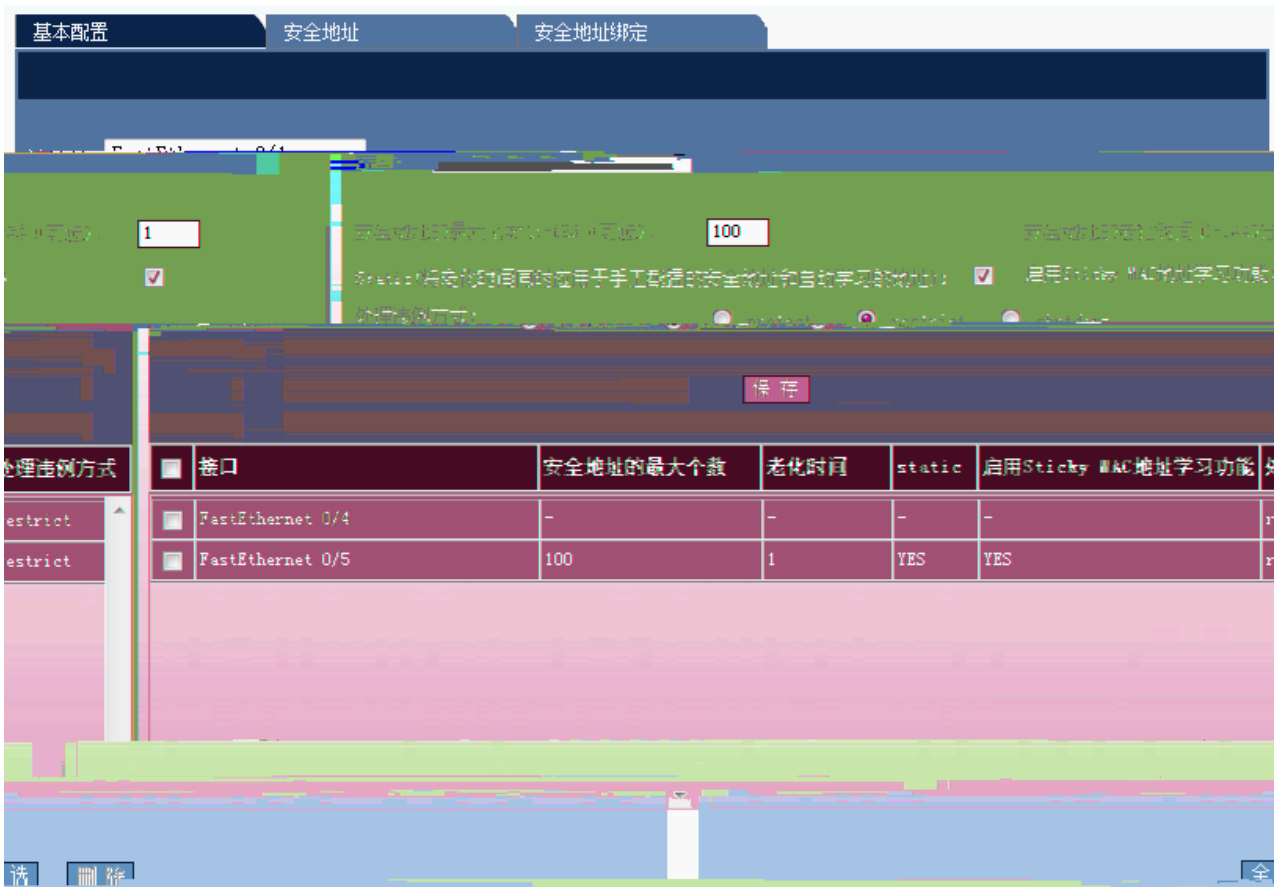
## 2.4.4

The screenshot displays a network configuration web interface. At the top, the port is set to "FastEthernet 0/2". There are two checked checkboxes labeled "广播" (Broadcast) and "组播" (Multicast). A dropdown menu is set to "默认" (Default), and another dropdown is set to "kilobits per second". A numerical input field contains the value "2", and a red ID "0-5147483547" is visible. A green "保存" (Save) button is at the bottom right of the top section.

风暴类型	控制方式	控制力度
broadcast	-	-
multicast	-	2
unicast	level	20

接口
<input type="checkbox"/> FastEthernet 0/2
<input type="checkbox"/> FastEthernet 0/2
<input type="checkbox"/> FastEthernet 0/2

At the bottom left of the interface, there are two buttons: "全选" (Select All) and "删除" (Delete).



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1)

Static

Sticky Mac

2)



74

Mac      VLAN ID

3)

基本配置    安全地址    **安全地址绑定**

端口:

IP地址 (IPv4或IPv6):

将MAC及Vlan进行绑定到安全端口:

MAC地址:       Vlan ID:

接口	MAC地址	Vlan ID	IP地址
FastEthernet 0/1	1000.0000.0000	10	1.2.3.3

系统信息	
设备型号 :	S2924G
主机名 :	Ruijie
软件版本 :	RGOS 10.23195A44470348C
硬件版本 :	1.0
MAC地址 :	001E10101010

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## 2.5.2

当前配置	
ation...	
ation : 12931 bytes	
2.00(3), Release(30355) (Tue Mar 11 19:23:04 2008 -	
	Building configur Current configura
	!
	version RGNOS 10. 23195A44470348C)
	!
	!
	!
	vlan 1
	name vlan1
	!
	vlan 2
	!
	vlan 3
	!
	vlan 4
	!
	vlan 5
	!
	vlan 6
	!
	vlan 7
	!

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## 2.5.3

端口状态					
端口	状态	Vlan	双工	速率	端口类型
FastEthernet 0/1	down	1	Unknown	Unknown	copper
FastEthernet 0/2	down	2	Unknown	Unknown	copper
FastEthernet 0/3	up	1	Full	100M	copper
FastEthernet 0/4	down	900	Unknown	Unknown	copper
FastEthernet 0/5	down	1	Unknown	Unknown	copper
FastEthernet 0/6	down	1	Unknown	Unknown	copper
FastEthernet 0/7	down	1	Unknown	Unknown	copper
FastEthernet 0/8	down	1	Unknown	Unknown	copper
FastEthernet 0/9	down	1	Unknown	Unknown	copper
FastEthernet 0/10	down	1	Unknown	Unknown	copper

刷新

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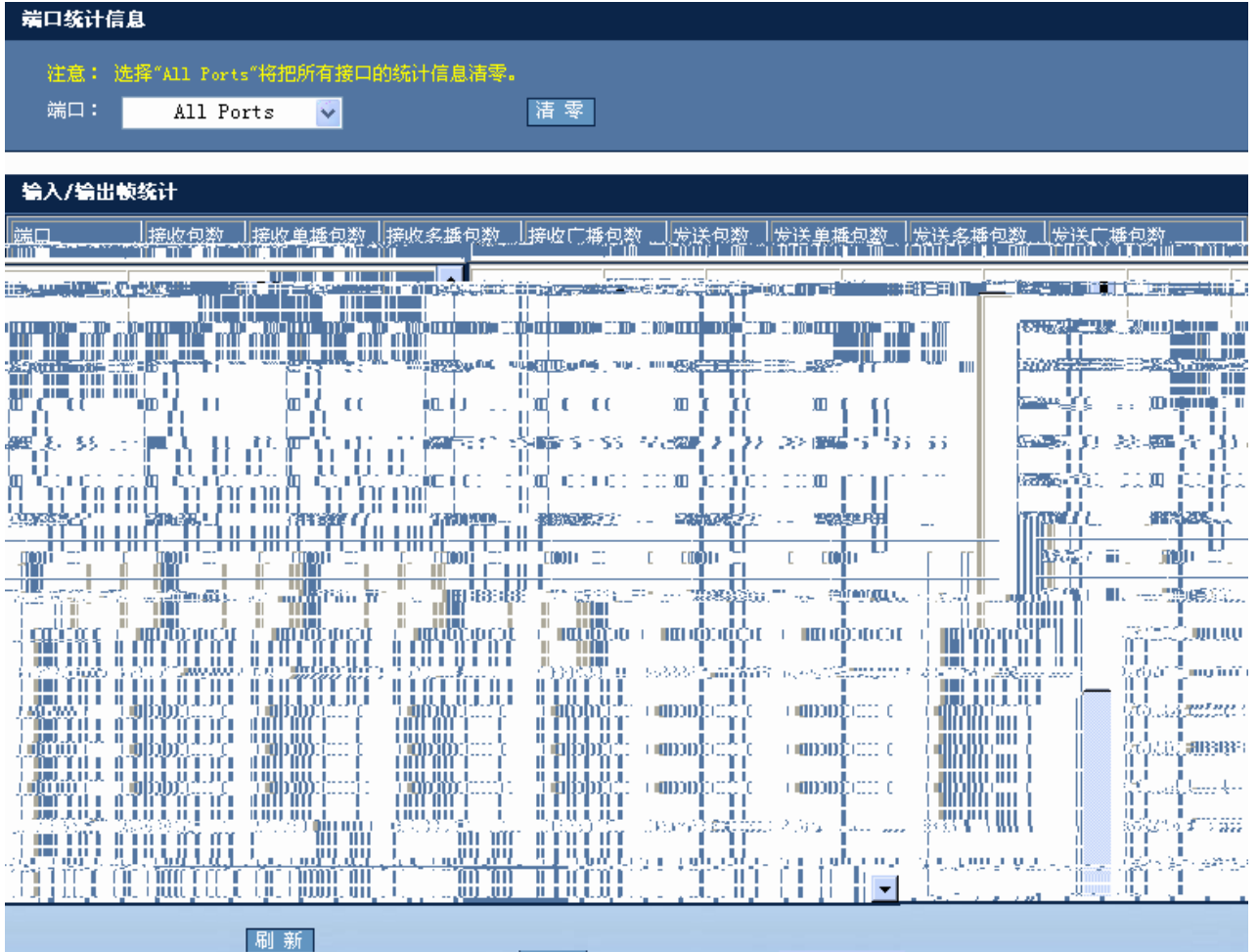
## 2.5.4

端口运行状态	
端口	带宽占用
FastEthernet 0/1	0%
FastEthernet 0/2	0%
FastEthernet 0/3	0%
FastEthernet 0/4	0%
FastEthernet 0/5	0%
FastEthernet 0/6	0%
FastEthernet 0/7	0%
FastEthernet 0/8	0%
FastEthernet 0/9	0%
FastEthernet 0/10	0%

刷新

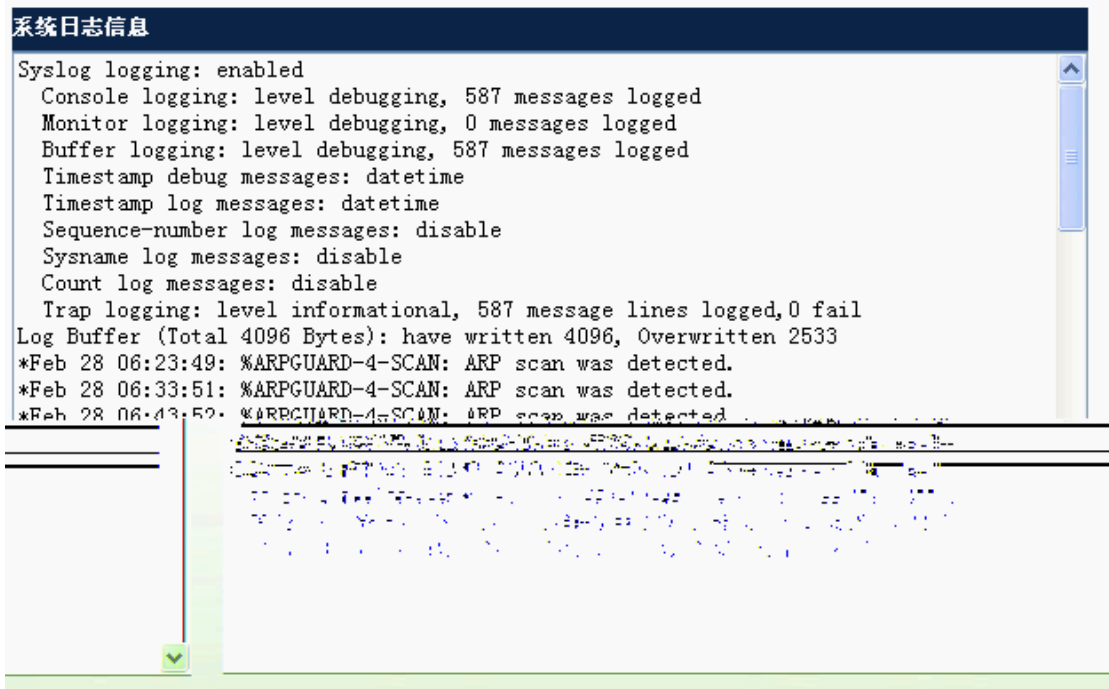
79

## 2.5.5



80

## 2.5.6



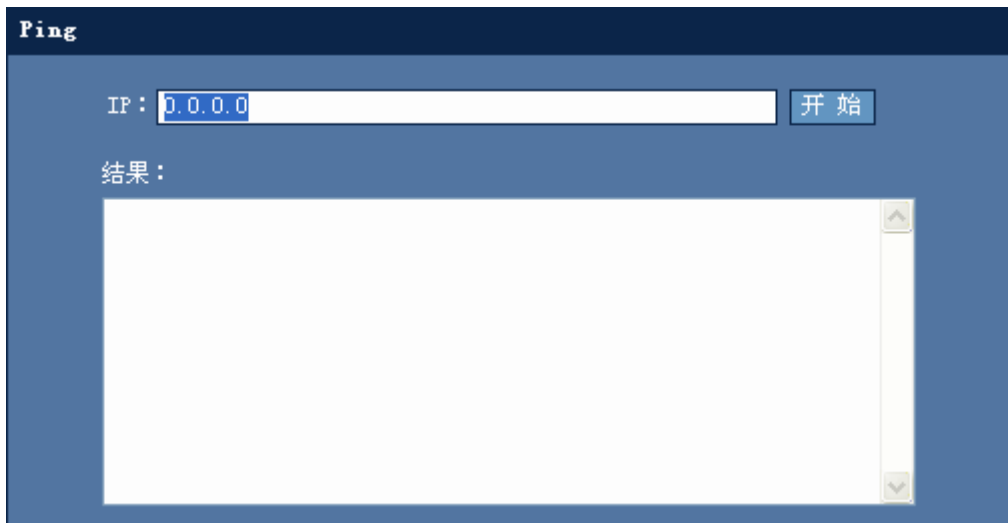
81

## 2.6

### 2.6.1 Ping

Ping

Ping



82 Ping

IP

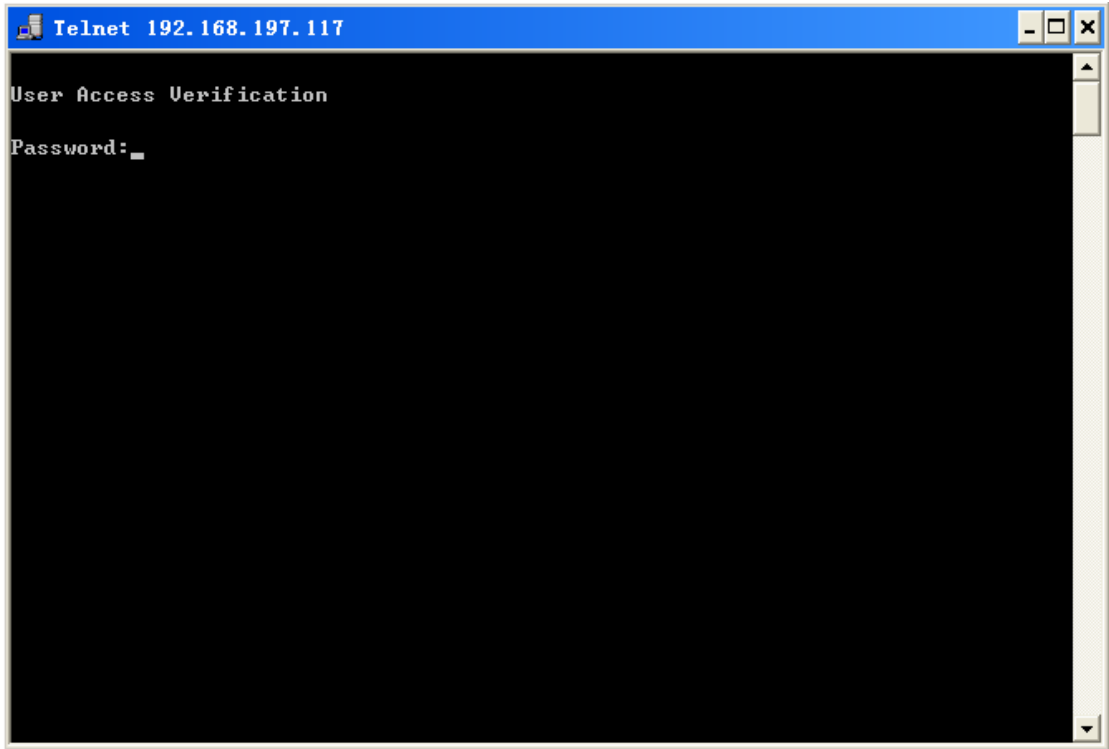
IP

Ping

## 2.6.2 Telnet

Telnet

Telnet



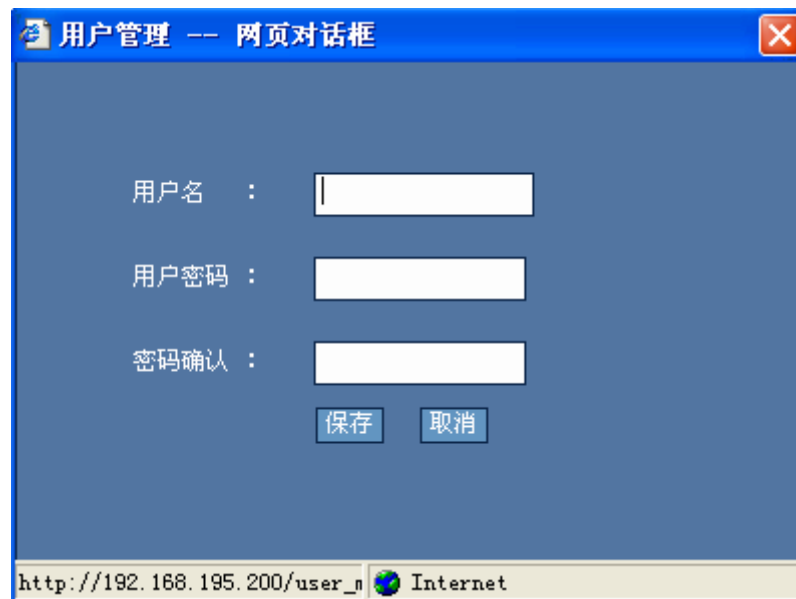
83 Telnet

PC Telnet Telnet Telnet PC Telnet

## 2.6.3



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2.6.5 /



89 /

config.text

TFTP

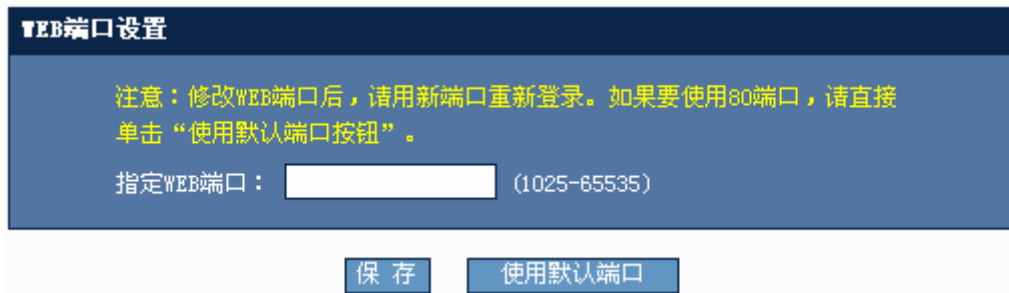
IP

TFTP

2.6.6 WEB

WEB

WEB



90 WEB

WEB





```
!  
!  
line con 0  
line vty 0 4  
  login  
!  
!  
end
```

## 2 Enable

```
Ruijie(config)#show running-config
```

```
Building configuration...
```

```
Current configuration : 2014 bytes
```

```
!  
version RGOS 10.2(4), Release(55435)(Wed May 13 11:50:07 CST 2009 -ngcf32)  
vlan 1  
  
no service password-encryption  
!  
enable password admin //WEB Enable  
enable service web-server // WEB  
!  
....  
.....  
!  
interface VLAN 1  
  
  ip address 192.168.100.1 255.255.255.0 // IP  
  
  no shutdown  
!  
!  
line con 0  
line vty 0 4  
  login  
!  
!  
end
```