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RGOS 10.4(2b12)p4

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

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<http://support.ruijie.com.cn>

service@ruijie.com.cn

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1)

[] []

{x|y|...}

[x|y|...]

//

2)

1 WEB

WEB

IE

WEB

WEB

WEB

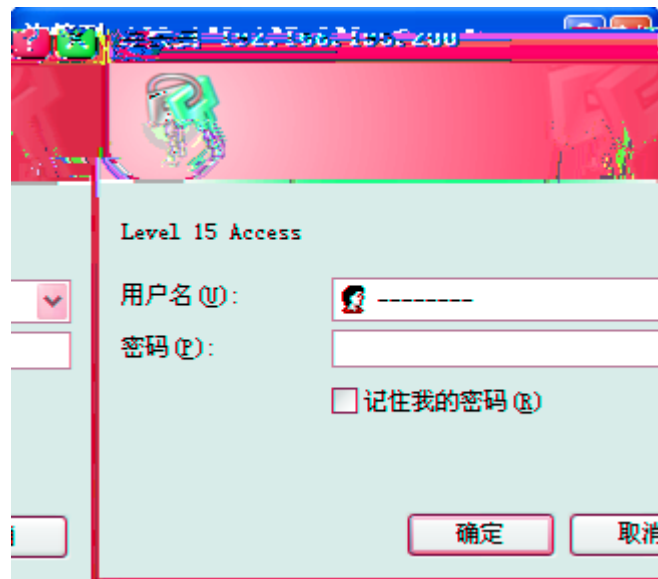
WEB

WEB

WEB

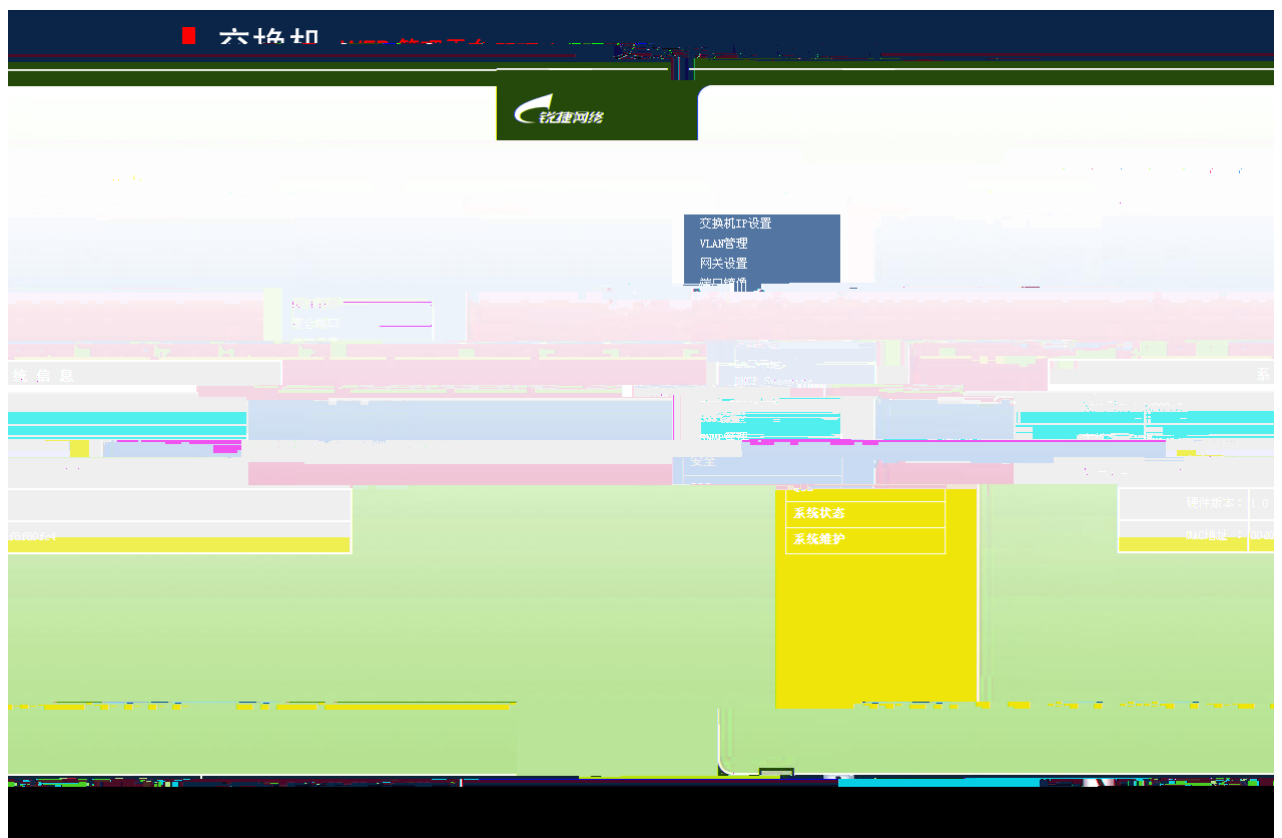
IE

2



2

WEB

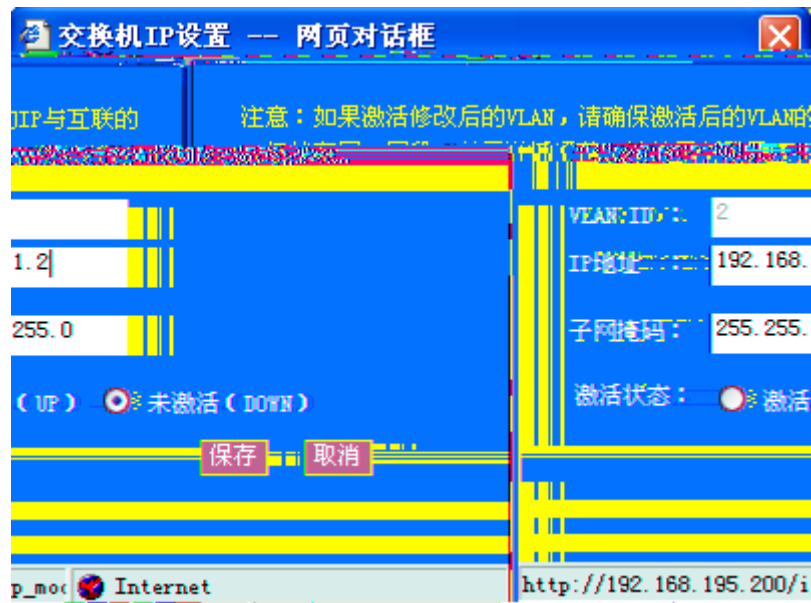


3 WEB



WEB





5 IP

IP

2.2.2 VLAN

VLAN

1 VLAN

VLAN管理 指定VLAN

说明：VLAN是虚拟局域网（Virtual Local Area Network）的简称，它是在一个物理局域网中，通过配置使网络中的某些节点组成一个虚拟的、独立的局域网，从而实现不同物理网段上的用户无法进行二层通讯。

状态	VLAN ID	VLAN 名称
STATIC	1	VLAN0001
STATIC	2	VLAN0002

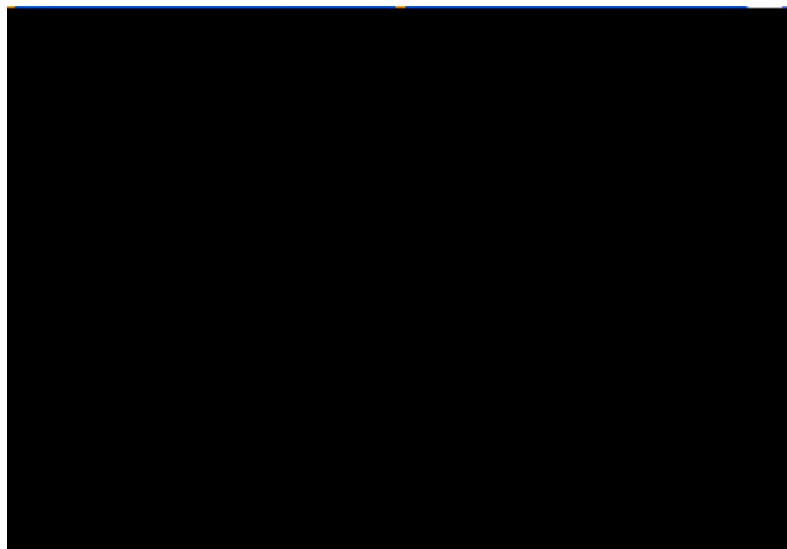
新建 全选

6 VLAN

VLAN

VLAN

VLAN



交换机端口分为两种模式：

Access：该模式的端口只属于一个VLAN，只传输该VLAN的报文，一般用于与终端直连。

Trunk：该模式的端口可以属于多个VLAN，可传输多个VLAN的报文，一般用于与其它交换机互连。

注意：当端口模式为“Trunk”时将允许所有VLAN访问,指定的VLAN将成为Trunk口的Native VLAN。

端口	端口模式	VLAN ID
GigabitEthernet 0/1	access	1
GigabitEthernet 0/2	access	1
GigabitEthernet 0/3	access	1
GigabitEthernet 0/4	access	1
GigabitEthernet 0/5	access	1
GigabitEthernet 0/6	access	1
GigabitEthernet 0/7	access	1
GigabitEthernet 0/8	access	1
GigabitEthernet 0/9	access	1
GigabitEthernet 0/10	access	1
GigabitEthernet 0/11	access	1

保存

9 VLAN

VLAN ID

2.2.3

11

2.2.5



12

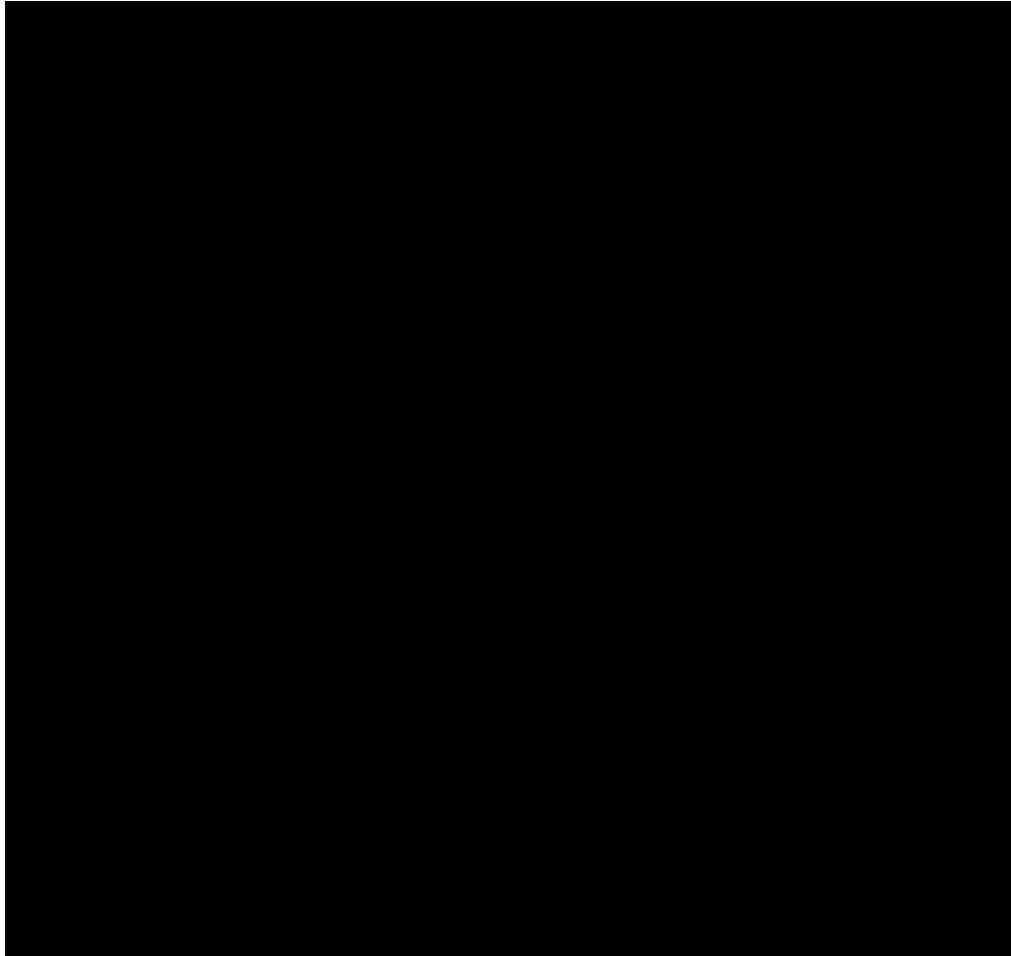
2.2.6



13

1

2



14

3

2.2.7

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 (M)	流控	描述
Gi0/1	Down	Half	10	On	-
Gi0/2	Down	Half	10	On	-
Gi0/3	Down	Half	10	On	-
Gi0/4	Down	Half	10	On	-
Gi0/5	Down	Half	10	On	-
Gi0/6	Down	Half	10	On	-
Gi0/7	Down	Half	10	On	-
Gi0/8	Down	Half	10	On	-
Gi0/9	Down	Half	10	On	-
Gi0/10	Down	Half	10	On	-
Gi0/11	Up	Full	100	Off	-
Gi0/12	Down	Half	10	On	-
Gi0/13	Down	Half	10	On	-
Gi0/14	Down	Half	10	On	-
Gi0/15	Down	Half	10	On	-
Gi0/16	Down	Half	10	On	-
Gi0/17	Down	Half	10	On	-
Gi0/18	Down	Half	10	On	-
Gi0/19	Down	Half	10	On	-
Gi0/20	Down	Half	10	On	-
Gi0/21	Down	Half	10	On	-
Gi0/22	Down	Half	10	On	-
Gi0/23	Down	Half	10	On	-
Gi0/24	Down	Half	10	On	-
Gi0/25	Down	Half	10	On	-
Gi0/26	Down	Half	10	On	-
Gi0/27	Down	Half	10	On	-
Gi0/28	Down	Half	10	On	-
Gi0/29	Down	Half	10	On	-
Gi0/30	Down	Half	10	On	-
Gi0/31	Down	Half	10	On	-
Gi0/32	Down	Half	10	On	-
Gi0/33	Down	Half	10	On	-
Gi0/34	Down	Half	10	On	-
Gi0/35	Down	Half	10	On	-
Gi0/36	Down	Half	10	On	-
Gi0/37	Down	Half	10	On	-
Gi0/38	Down	Half	10	On	-
Gi0/39	Down	Half	10	On	-
Gi0/40	Down	Half	10	On	-
Gi0/41	Down	Half	10	On	-
Gi0/42	Down	Half	10	On	-
Gi0/43	Down	Half	10	On	-
Gi0/44	Down	Half	10	On	-
Gi0/45	Down	Half	10	On	-
Gi0/46	Down	Half	10	On	-
Gi0/47	Down	Half	10	On	-
Gi0/48	Down	Half	10	On	-
Gi0/49	Down	Half	10	On	-
Gi0/50	Down	Half	10	On	-
Gi0/51	Down	Half	10	On	-
Gi0/52	Down	Half	10	On	-
Gi0/53	Down	Half	10	On	-
Gi0/54	Down	Half	10	On	-
Gi0/55	Down	Half	10	On	-
Gi0/56	Down	Half	10	On	-
Gi0/57	Down	Half	10	On	-
Gi0/58	Down	Half	10	On	-
Gi0/59	Down	Half	10	On	-
Gi0/60	Down	Half	10	On	-
Gi0/61	Down	Half	10	On	-
Gi0/62	Down	Half	10	On	-
Gi0/63	Down	Half	10	On	-
Gi0/64	Down	Half	10	On	-
Gi0/65	Down	Half	10	On	-
Gi0/66	Down	Half	10	On	-
Gi0/67	Down	Half	10	On	-
Gi0/68	Down	Half	10	On	-
Gi0/69	Down	Half	10	On	-
Gi0/70	Down	Half	10	On	-
Gi0/71	Down	Half	10	On	-
Gi0/72	Down	Half	10	On	-
Gi0/73	Down	Half	10	On	-
Gi0/74	Down	Half	10	On	-
Gi0/75	Down	Half	10	On	-
Gi0/76	Down	Half	10	On	-
Gi0/77	Down	Half	10	On	-
Gi0/78	Down	Half	10	On	-
Gi0/79	Down	Half	10	On	-
Gi0/80	Down	Half	10	On	-
Gi0/81	Down	Half	10	On	-
Gi0/82	Down	Half	10	On	-
Gi0/83	Down	Half	10	On	-
Gi0/84	Down	Half	10	On	-
Gi0/85	Down	Half	10	On	-
Gi0/86	Down	Half	10	On	-
Gi0/87	Down	Half	10	On	-
Gi0/88	Down	Half	10	On	-
Gi0/89	Down	Half	10	On	-
Gi0/90	Down	Half	10	On	-
Gi0/91	Down	Half	10	On	-
Gi0/92	Down	Half	10	On	-
Gi0/93	Down	Half	10	On	-
Gi0/94	Down	Half	10	On	-
Gi0/95	Down	Half	10	On	-
Gi0/96	Down	Half	10	On	-
Gi0/97	Down	Half	10	On	-
Gi0/98	Down	Half	10	On	-
Gi0/99	Down	Half	10	On	-
Gi0/100	Down	Half	10	On	-

15

2.2.8 DHCP

DHCP

DHCP



16 DHCP

1) / DHCP

/ DHCP

2) DHCP

DHCP

DHCP

2.2.9 IGMP Snooping

IGMP Snooping

IGMP Snooping



SNMP



19 SNMP

SNMP

SNMP

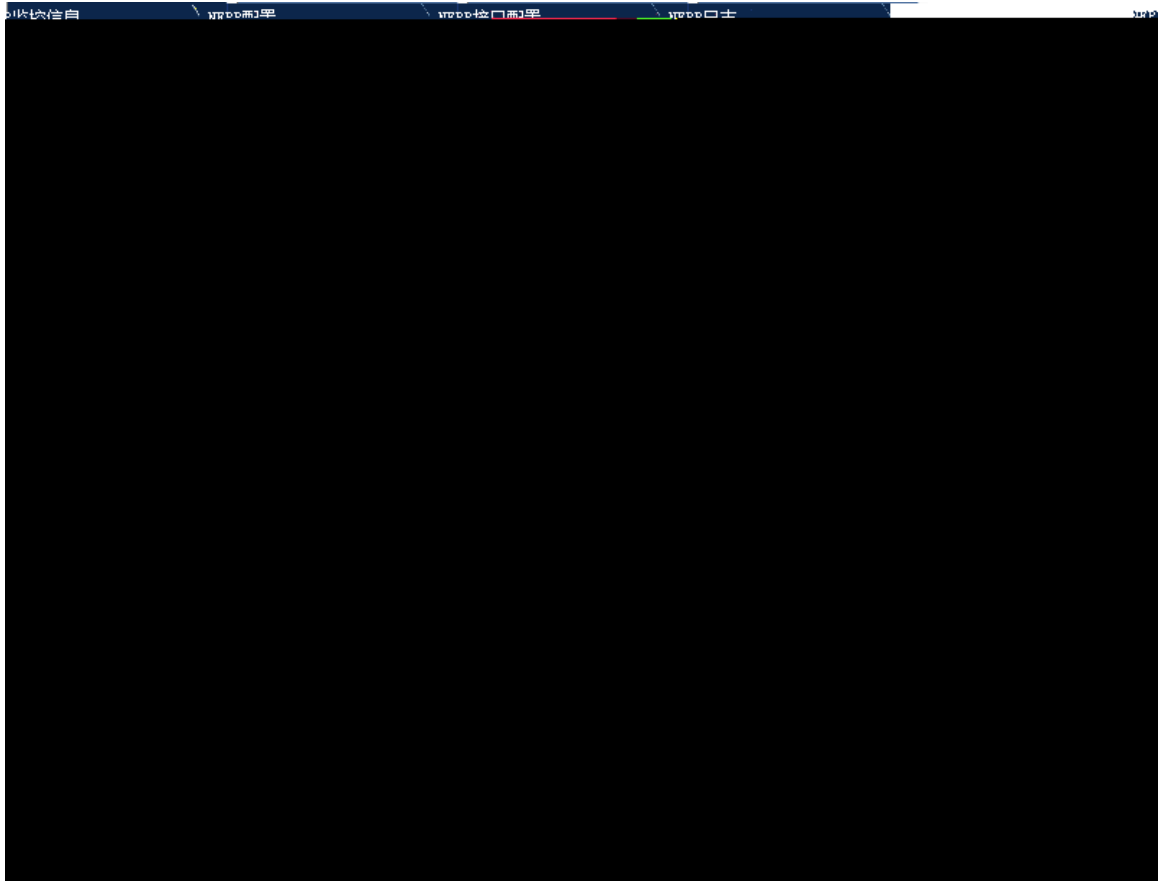
SNMP

SNMP

2.2.12 NFPP

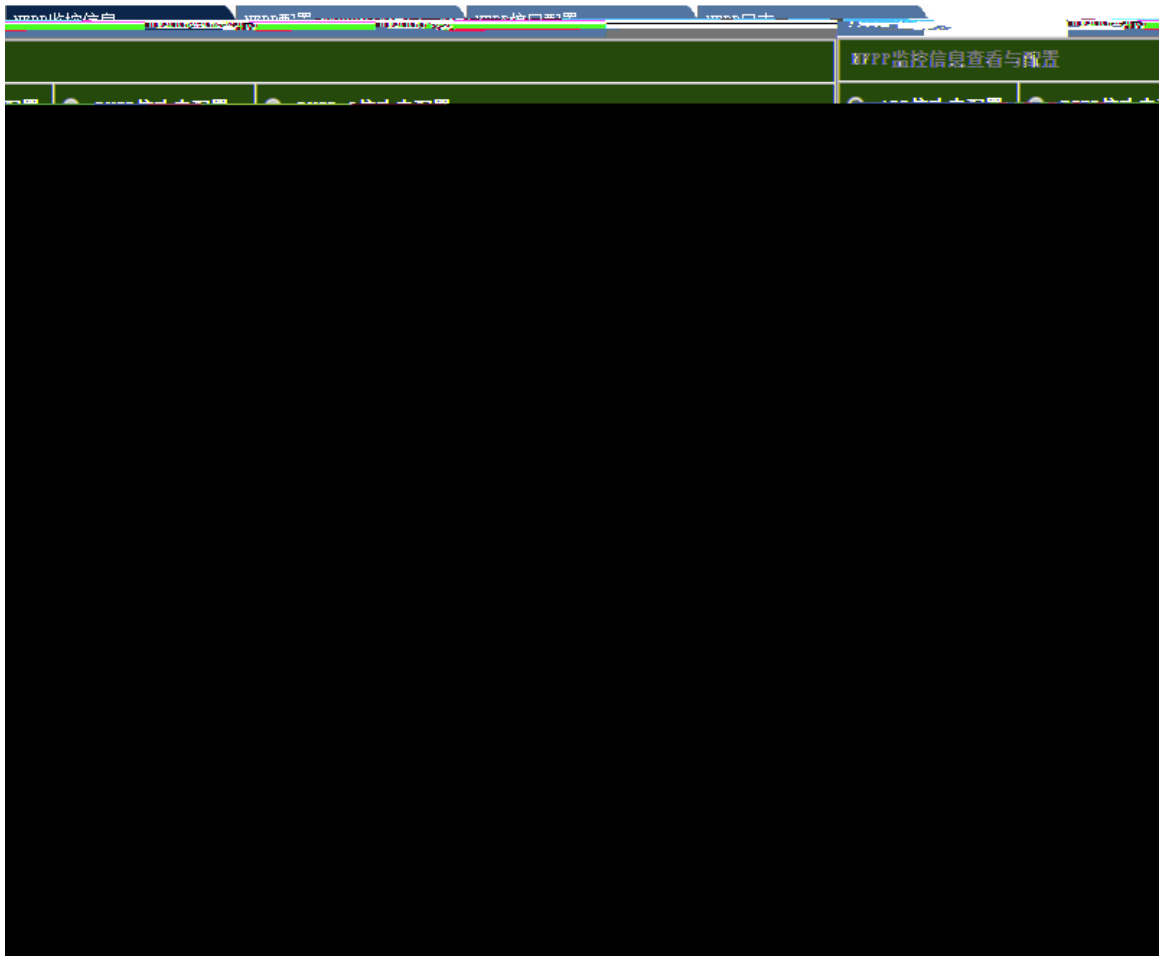
NFPP

1 NFPP



20 NFPP

- ARP



21 ARP

ARP

ARP

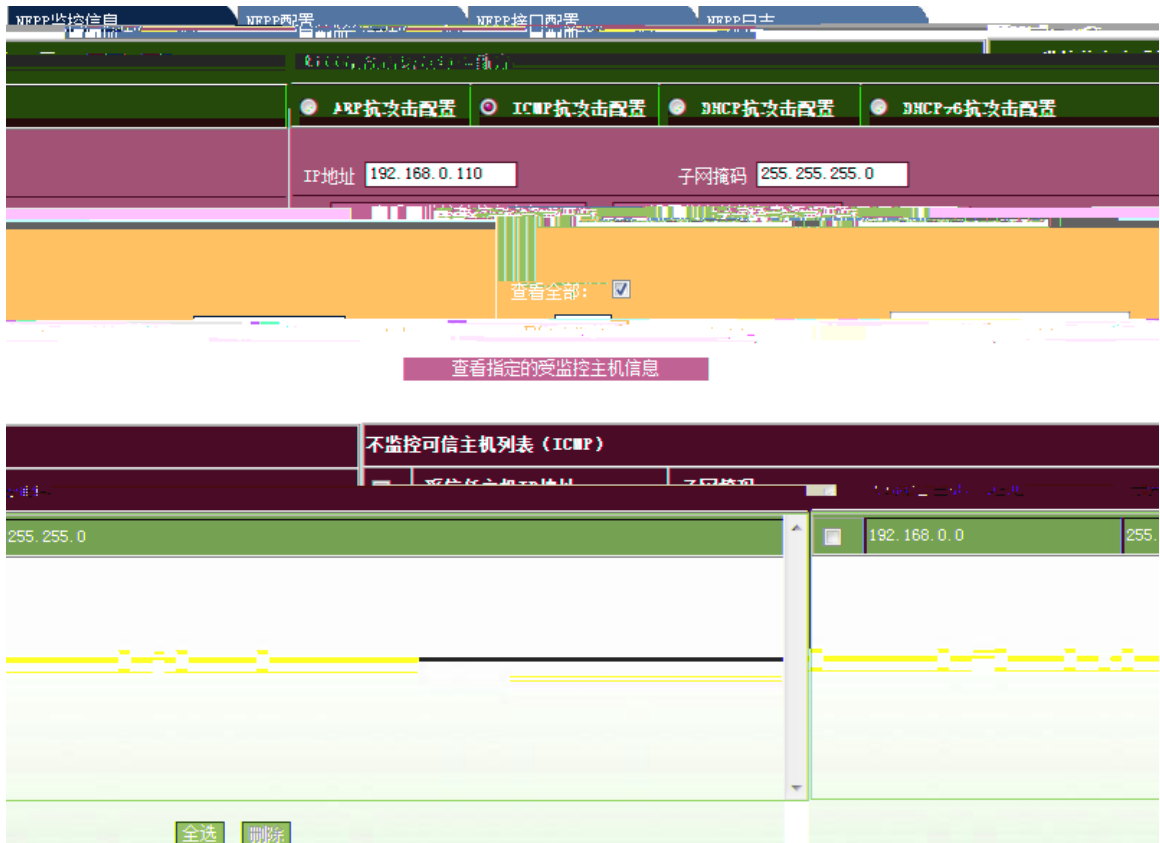
ARP

ARP

ARP

ARP

- ICMP



22 NFPP

--ICMP

ICMP

IP

- DHCP



23 NFPP — DHCP

DHCP

- DHCPv6

NFPP监控信息 NFPP配置 NFPP接口配置 NFPP日志

Protocol报文比例	Manage报文比例	Protocol报文最大带宽	Route报文最大带宽	Manage报文最大带宽	Protocol报文比例	Route
-	-	-	-	-	-	-

默认 修改 恢复默认

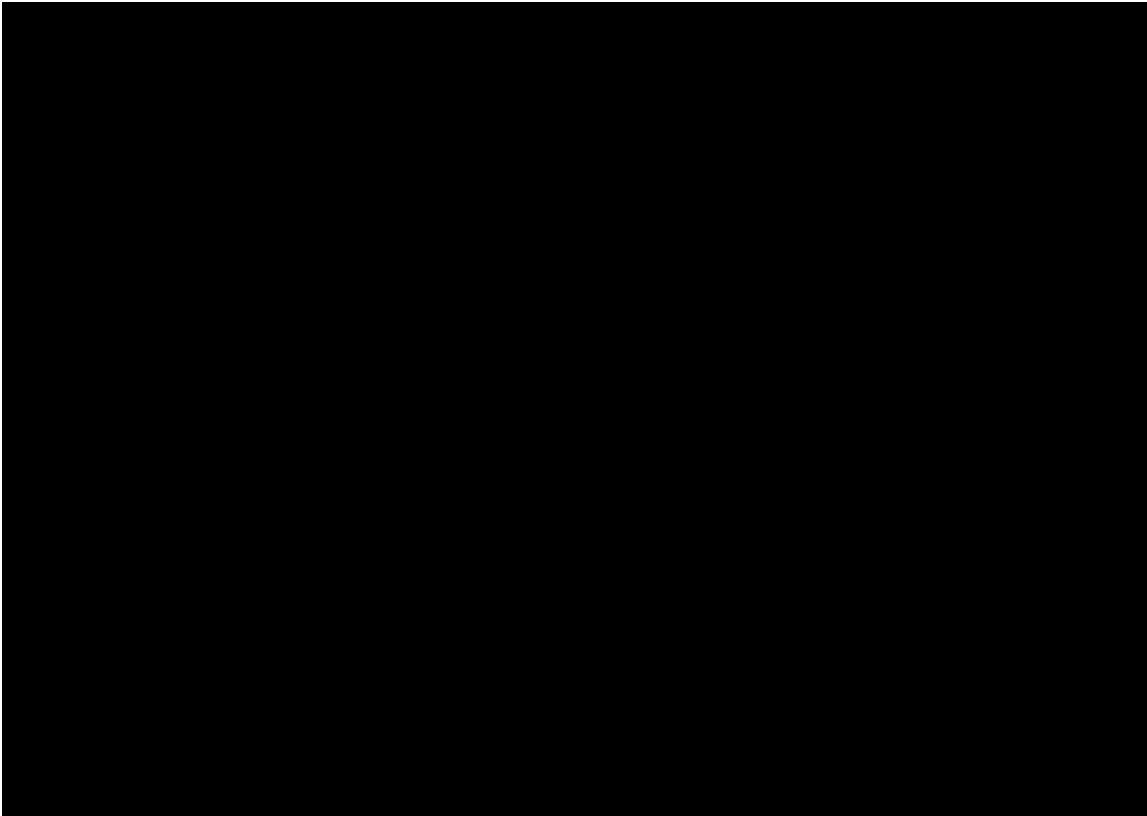
ICMP	DHCP	DHCPv6	ND	协议类型:	ARP	状态:
Enable	Enable	Enable	Enable	Enable	Enable	隔离时间:
0	0	0	0	0	-	
600s	-	-	监控时间:	600s	600s	600s
1000	-	-	最大监控主机数:	1000	1000	1000
150	-/5/150	15/15/15	基于IP识别限速/基于mac识别限速/全局端口限速:	4/4/100	100/-/200	-/5/
/300	-/10/300	30/30/30	攻击阈值(基于ip识别/基于mac识别/全局端口):	8/8/200	100/-/200	-/10
-	-	-	扫描阈值:	15	-	-
恢复默认	恢复默认	恢复默认	恢复默认值:	恢复默认	恢复默认	恢

修改 恢复默认

25 NFPP NFPP 4



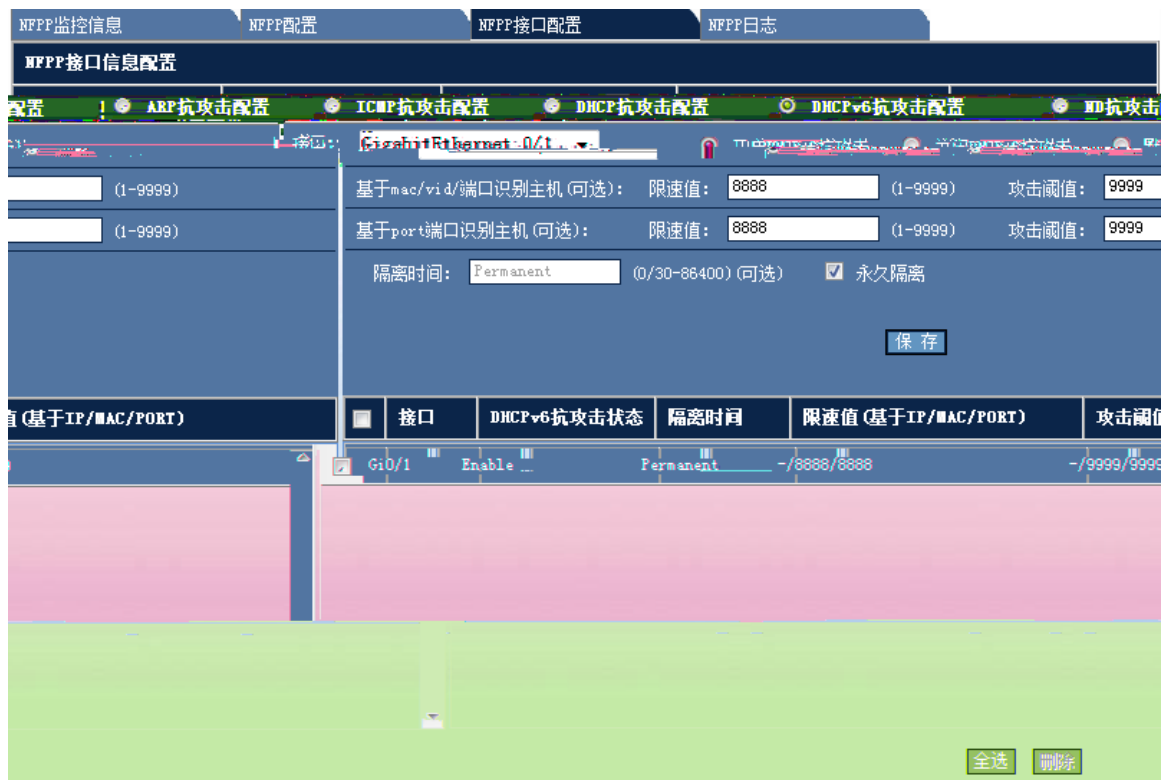
27 NFPP



28 NFPP —NFPP ARP

ARP NFPP

- ICMP



31 NFPF — NFPF DHCPv6

DHCPv6 NFPF

- ND

配置

指定需要记录日志的VLAN ID (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)

速率 (长度)	需要记录日志的VLAN	需要记录日志的端口	缓冲区大小	生成系统消息 (消息数/时间)
0	1-4094	Gi0/1, Gi0/2, Gi0/3,	1000	1024/8640

33 NFPP

NFPP



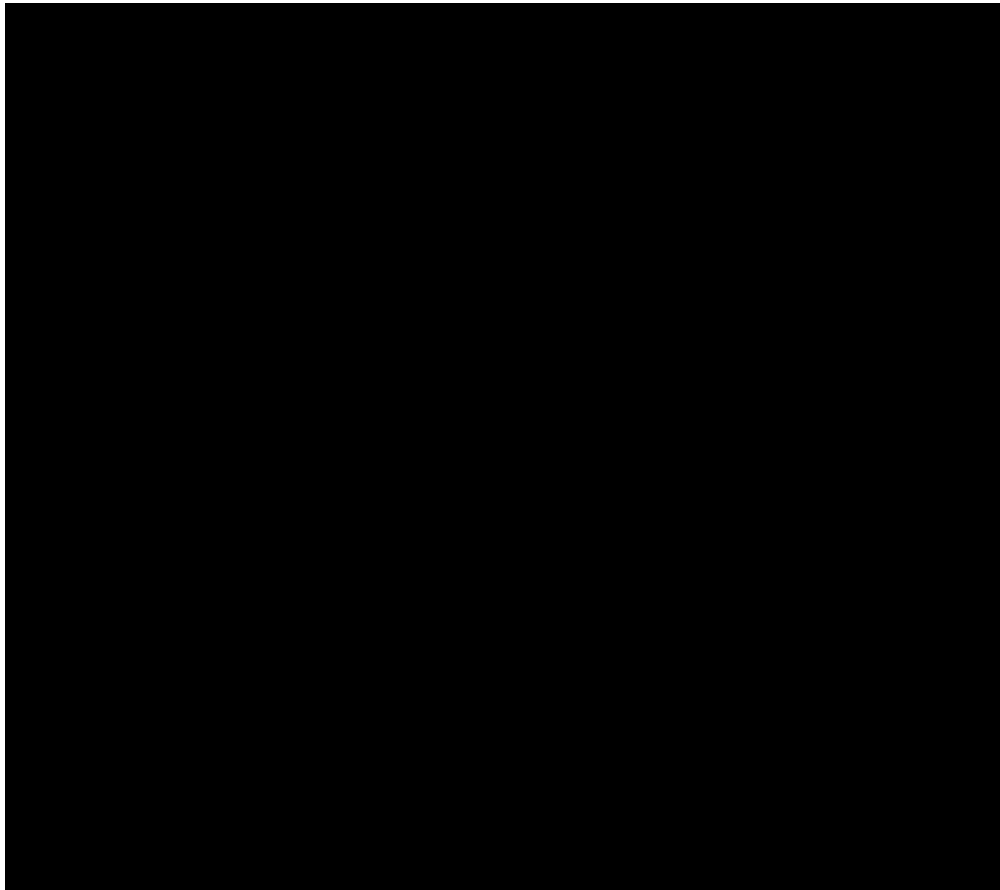
34

2.3

2.3.1 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 ACE
ACL ACE

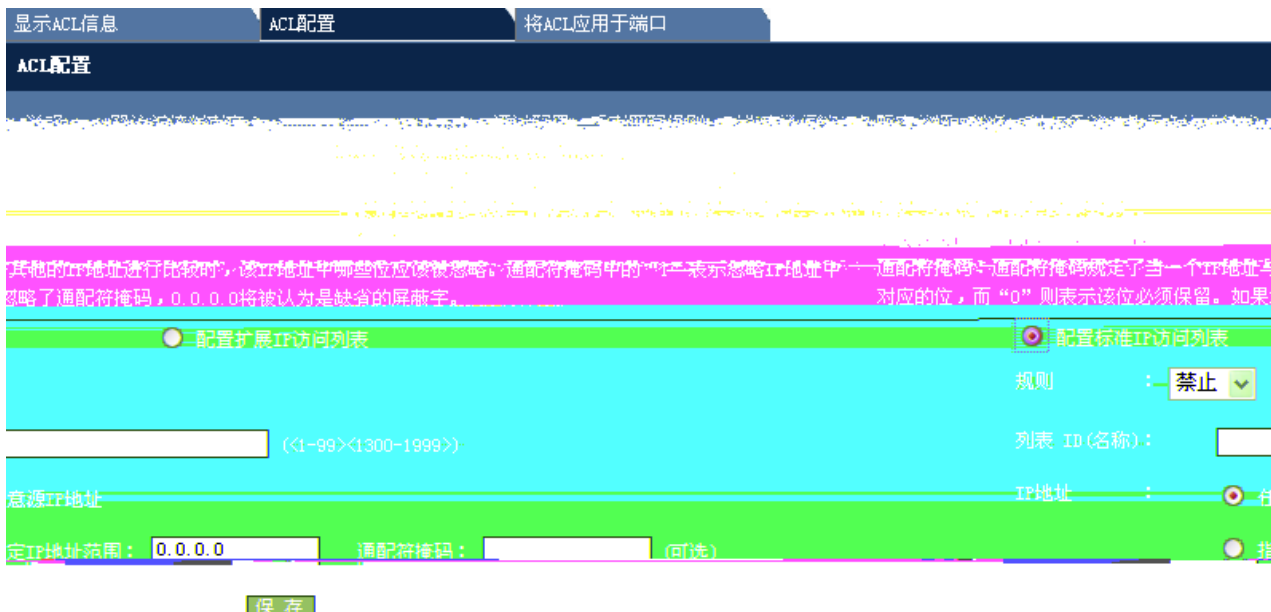
ACL ACE
ACL

2 ACE

2 ACL

IP
IP

IP



40 IP

ID

IP

IP

,

IP

IP

IP

IP



41 IP

ID

TCP UDP IP ICMP

IP

IP

IP

IP

IP

IP

3 ACL



42 ACL

ACL

ACL



2.3.5 IP Source Guard

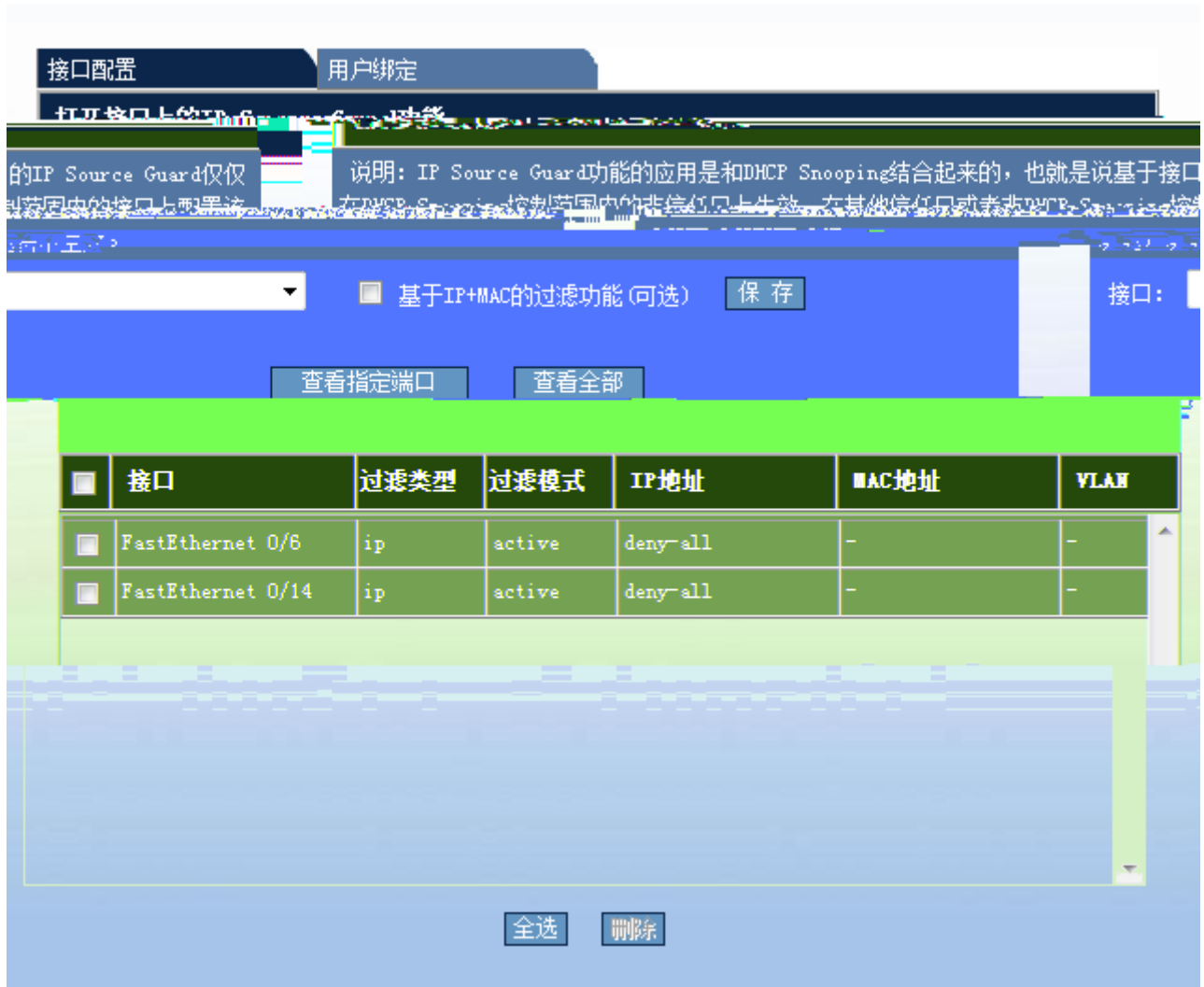
IP Source Guard:

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
 VLAN VLAN ID
 IP IP

接口配置 用户绑定

配置静态的IP源地址绑定用户

MAC地址: VLAN: (1-4094) IP地址:

选择接口:

保存

<input type="checkbox"/>	00a0.f811.2233	1.2.3.4	infinite	static	1	FastEthernet 0/4
--------------------------	----------------	---------	----------	--------	---	------------------

全选 删除

44

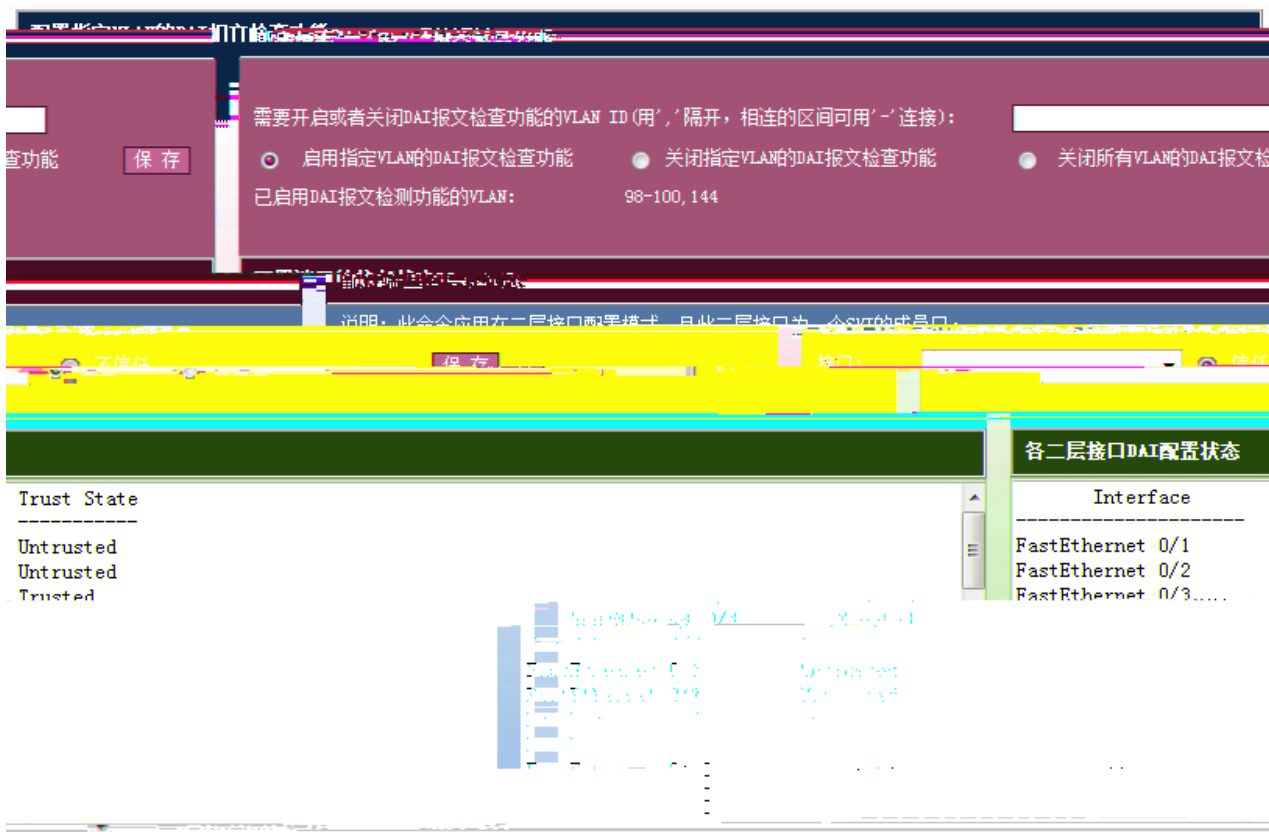
2.3.6 DAI

DAI Dynamic ARP Inspection ARP ARP

 arp

DAI

DAI



45 DAI

1

VLAN DAI

VLAN DAI

VLAN 100 DAI

vlan-id 100 ARP

DAI

DAI

VLAN ID

VLAN

VLAN

DAI

DAI

2.3.7 CPP

CPP

配置报文的带宽和优先级

报文类型: [恢复默认配置](#)

带宽: (1-4096) [保存](#) 优先级: 0

[保存](#) [查看](#)

查看管理板/单机/堆叠系统的接收报文的统计信息: [查看](#)

查看线卡接收报文的统计信息: (2-8) [查看](#)

各类型报文的带宽和优先级配置状态

Type	Pps	Pri
tp-guard	180	7
arp	180	5
dot1x	2000	4
rldp	180	7
rerp	180	7
erps	180	7
bpdu	180	6
tunnel-bpdu	180	6
ipv4-icmp-local	1600	6
lldp	180	5
lldp_cdp	180	5
cfm-pdu	180	3

46 CPP

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

管理板/单机/堆叠系统的接收报文的统计信息			
Type	Pps	Total	Drop
tp-guard	0	0	0
arp	8	325751	0
dhcp	0	0	0
igmp	0	0	0
unicast-arp	0	0	0
lldp	0	2881	0
lldp-rdp	0	0	0
ethercpdu	0	0	0
drop-ipv4	0	0	0
drop-ipv6	0	0	0
drop-	0	0	0

49 / /

2.3.8 RADIUS

RADIUS

1 RADIUS

Radius服务器 Radius服务器组

AAA参数配置

AAA new-model: 开启 关闭

密钥: 隐藏密钥 保存

记帐计费更新功能: 开启 关闭

非锐捷认证服务器动态acl下发: 开启 关闭

IP授权模式: disable 保存

Radius服务器组

组名:

正端口: (0-65536) (可选) UMF认证

帐端口: (0-65536) (可选) UMF记

保存

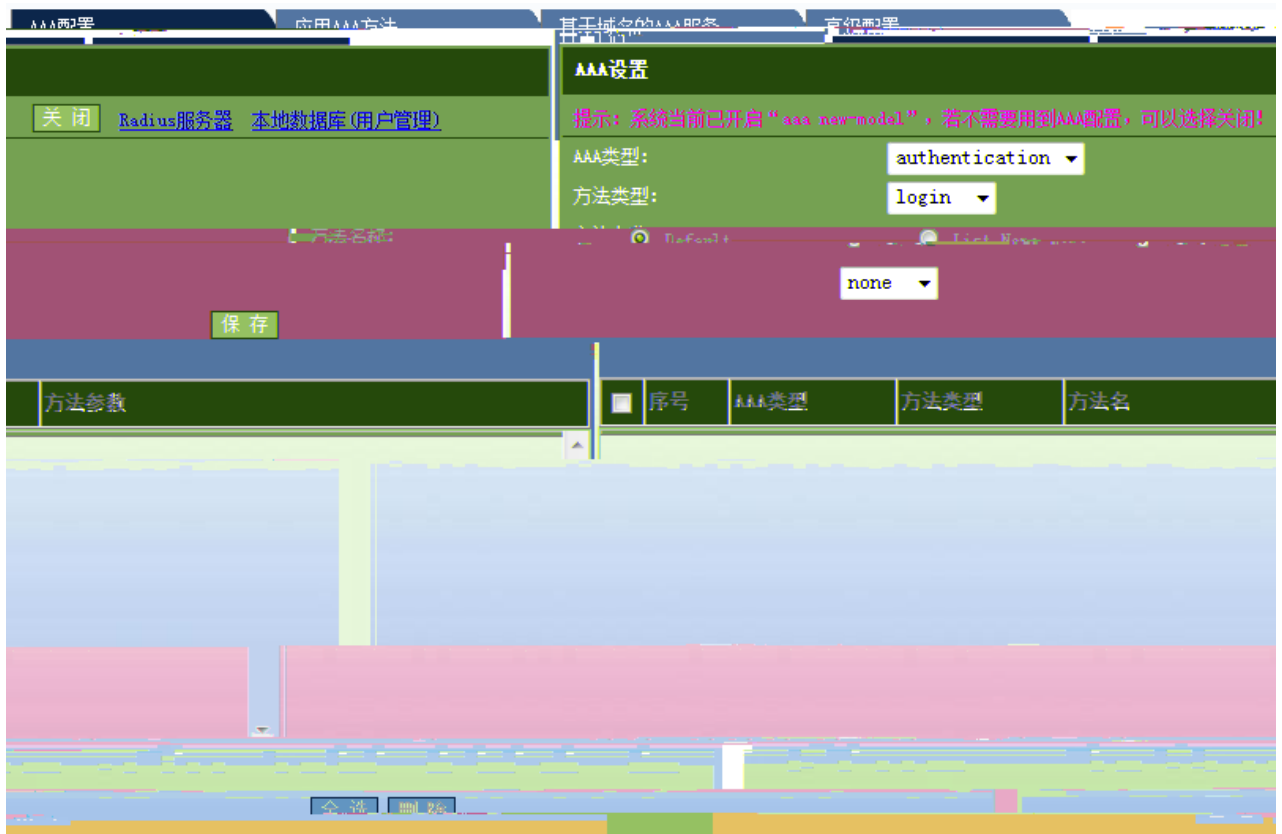
服务器组管理: radius 删除 刷新

```

=====Radius group radius=====
Vrf:not-set
Server:7::1
  Authentication port:1812
  Accounting port:1813
  State:Active
Server:::1
  Authentication port:1812
  
```

192.168.1.100
port:1813
State:Active

51 RADIUS



52 AAA

1

AAA

AAA

3

AAA

AAA配置 应用AAA方法 **基于域名的AAA服务** 高级配置

基于域名的AAA服务

基于域名的AAA服务

名称: Default Domain Name

Dot1x认证方法: default

PPP认证方法: default

授权方法(network): default

记账方法(network): default

域状态: 启用 禁用

Access Limit (1-10):

保存 删除

```

domain default=====
state: With-domain
access-limit: 2
statistics: 0

```

AAA Domain管理:

```

=====D
State: Block
Username forma
Access limit:
802.1X Access
Selected meth

```

54

AAA

AAA

Dot1x

PPP

(network)

(network)

Access Limit

AAA Domain

4 AAA

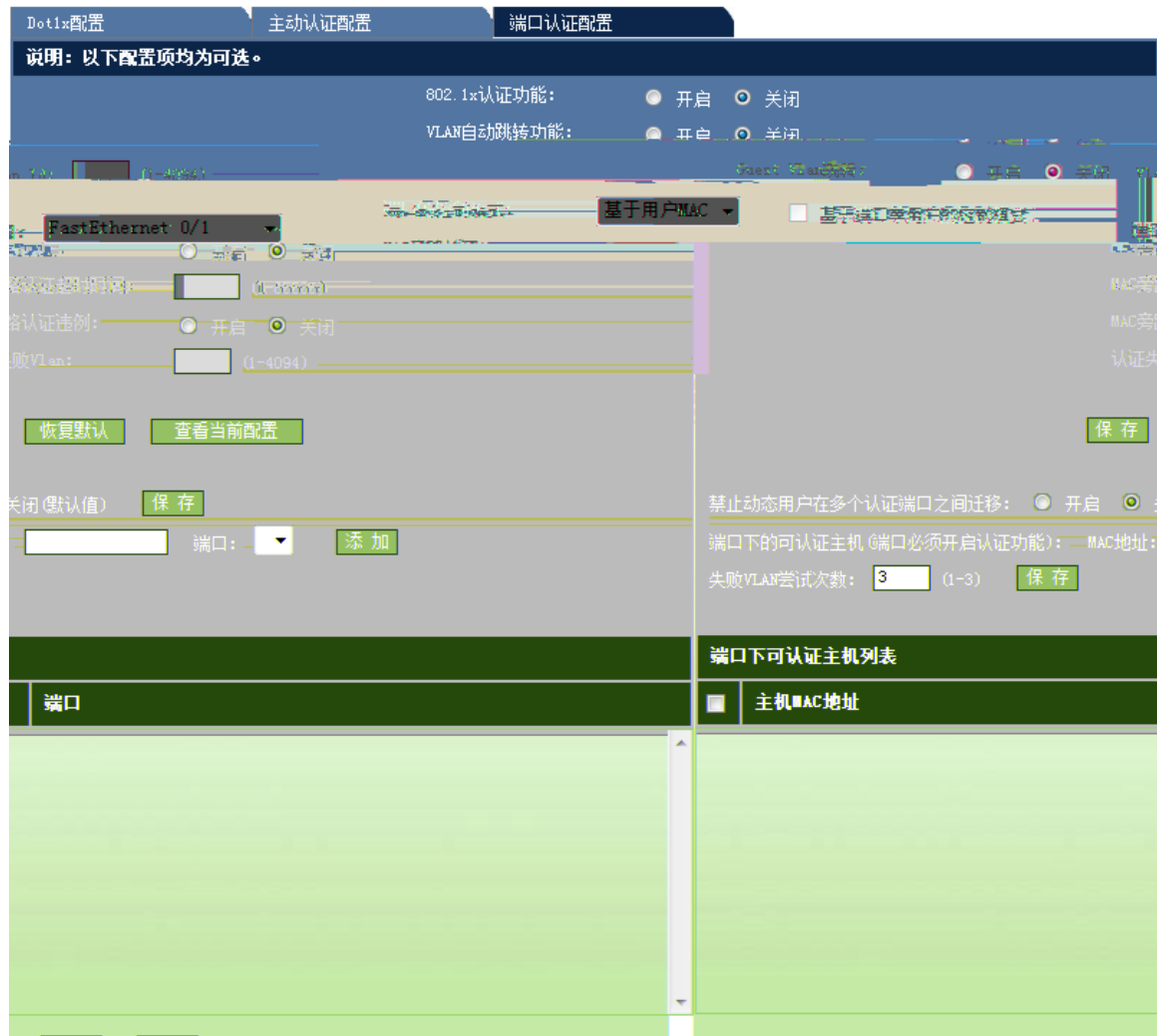
Dot1x

2



57

3



58

Dot1x

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.a805	1	绑定
3	192.168.23.55	0015.00.70...	1	绑定
4	192.168.23.76	0010.6866.7660	1	绑定
5	192.168.23.76	0010.6866.7660	5	绑定
6	192.168.23.76	0010.6866.7660	1	绑定
7	192.168.23.76	0010.6866.7660	1	绑定

刷新

61 ARP

2.3.12 WEB

web

web



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

免认证的网络资源 (最多允许配置6个)

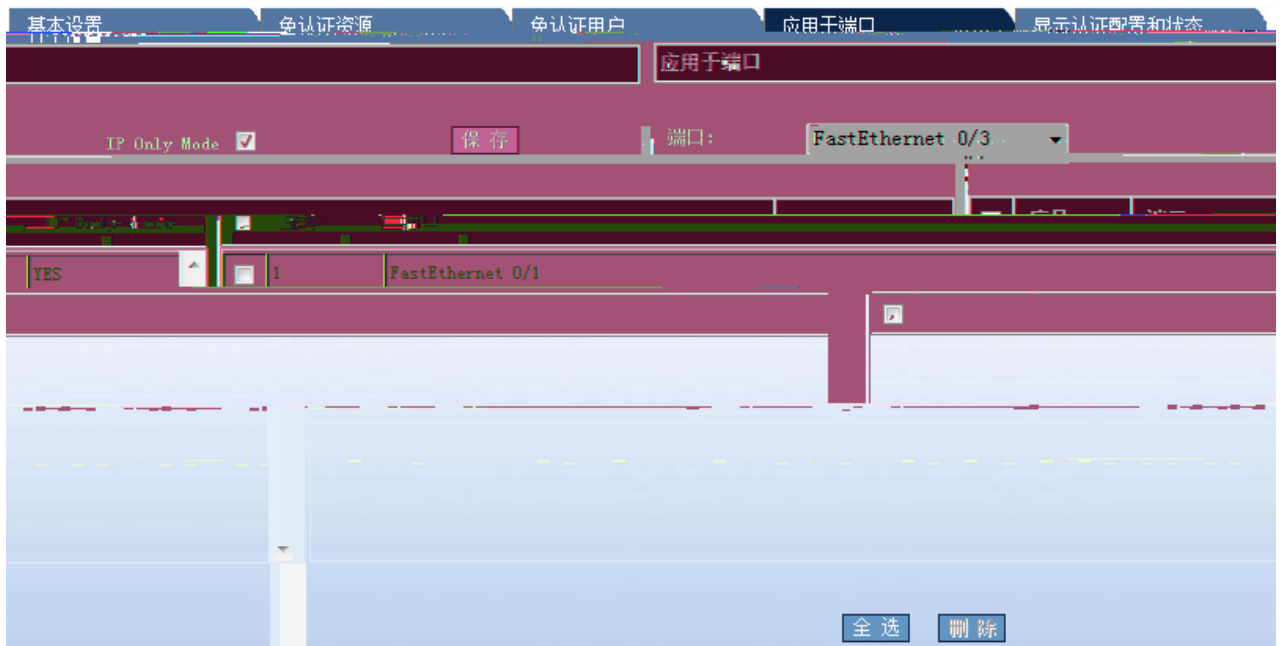
源应用进行ARP绑定, 需要配置 关键字 如果接入的网设备启用了ARP CHECK功能, 那么需要对免认证的网络资源

子网掩码 (可选): ARP 保存 IP:

序号	IP地址	子网掩码	ARP绑定
1	1.2.3.6	255.255.255.0	DEF

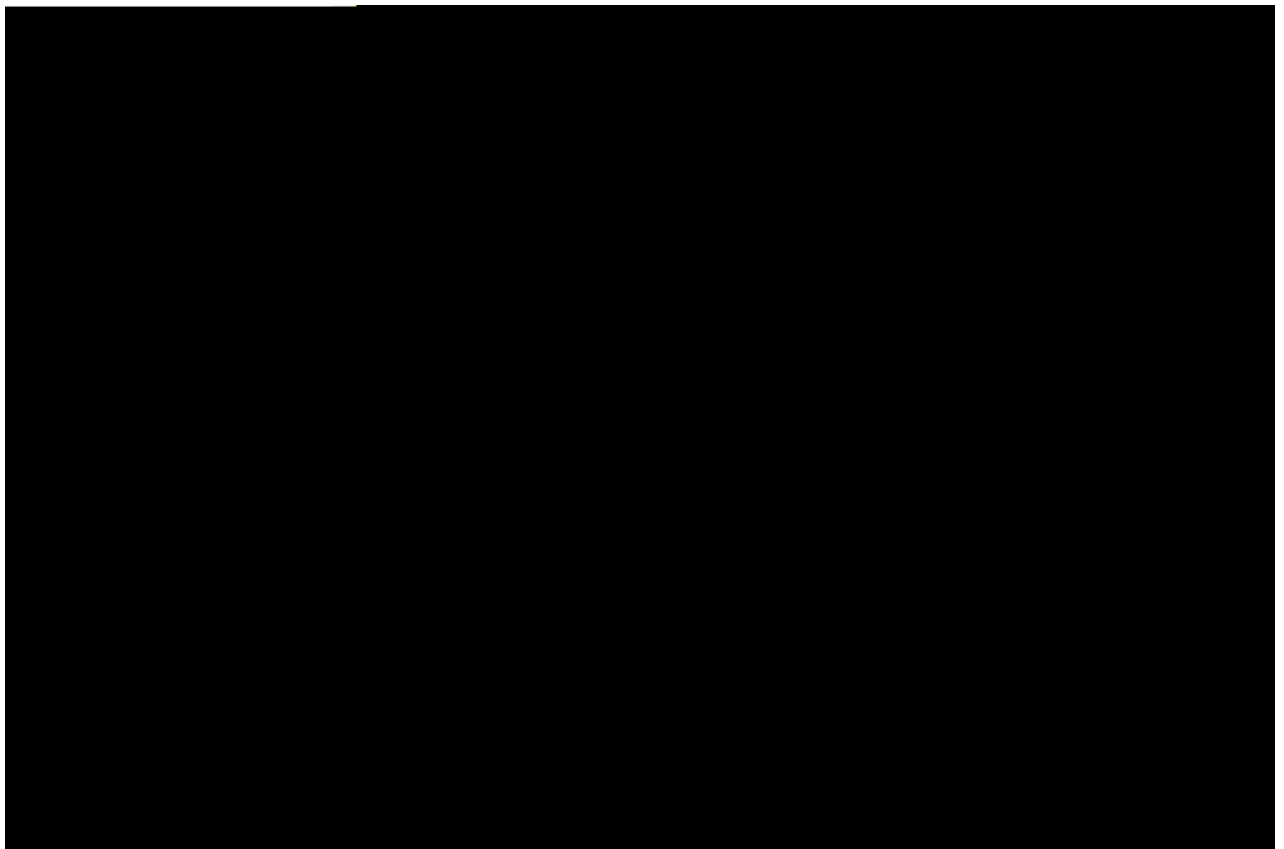
全选 删除

63.



65

5)



66

IP

2.3.13 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。

启用DHCP Snooping 禁用DHCP Snooping

DHCP Snooping 信任端口设置

说明：由于DHCP获取IP的交互报文是使用广播的形式，因此可能存在非法服务器影响用户获取IP地址。为了防止非法服务器问题，将端口配置为两种类型，信任口和非信任口。对于DHCP客户端请求报文，仅将其转发到信任口。对于DHCP服务器响应报文，仅转发来自信任口的响应报文，而丢弃所有来自非信任口的响应报文。这样就可以实现对非法DHCP服务器的屏蔽。

端口：

DHCP Snooping配置信息

	端口	信任端口	限速
<input type="checkbox"/>			

67 DHCP Snooping

DHCP Snooping

DHCP Snooping

MAC

2)DHCP Snooping

2.4 QOS

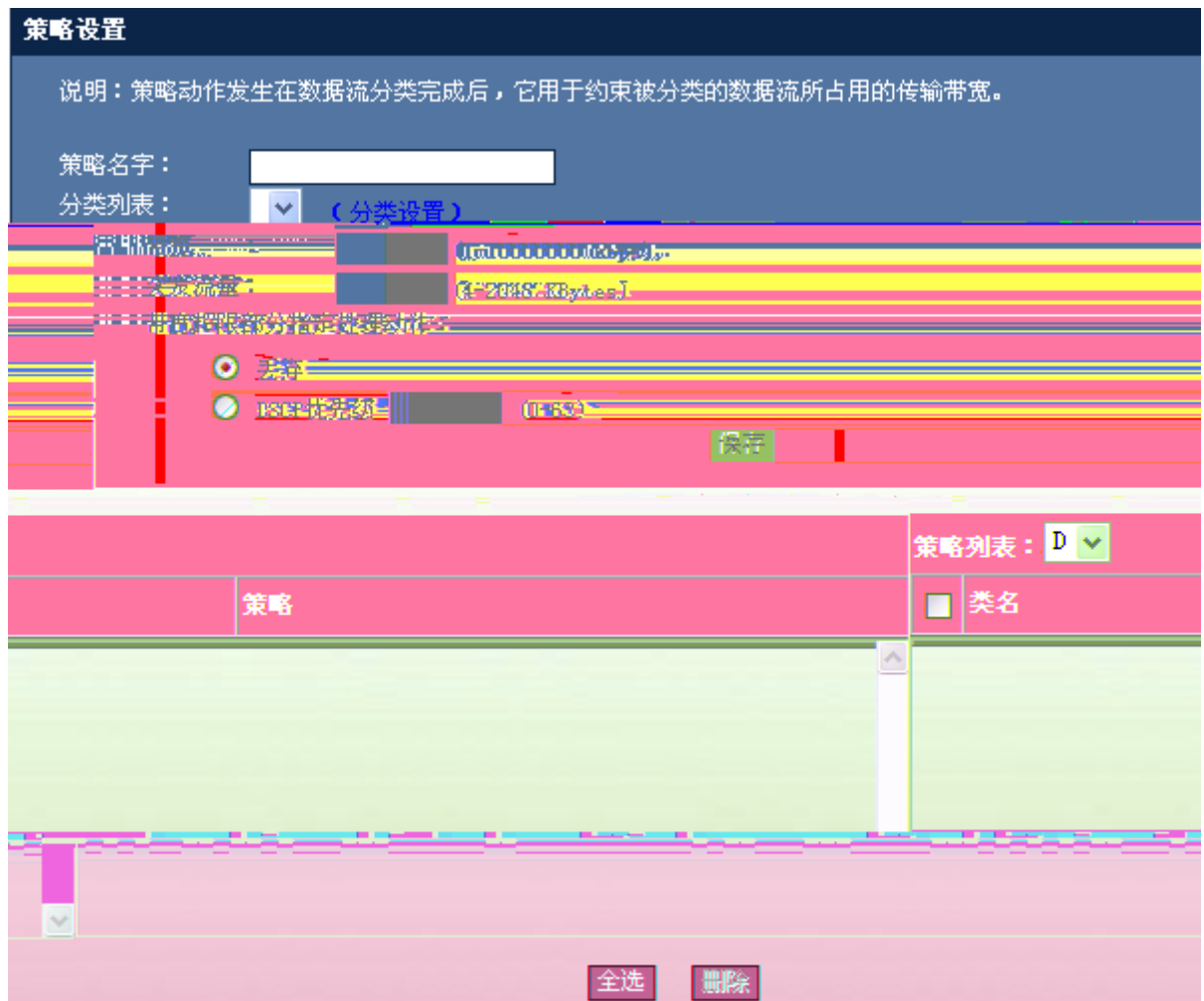
2.4.1



68

ACL

2.4.2



69

DSCP

2.4.4

将风暴控制应用于端口 (端口默认开启风暴控制)

端口: FastEthernet 0/2

广播 默认

组播 默认

单播 suppression level 20 (1-100)

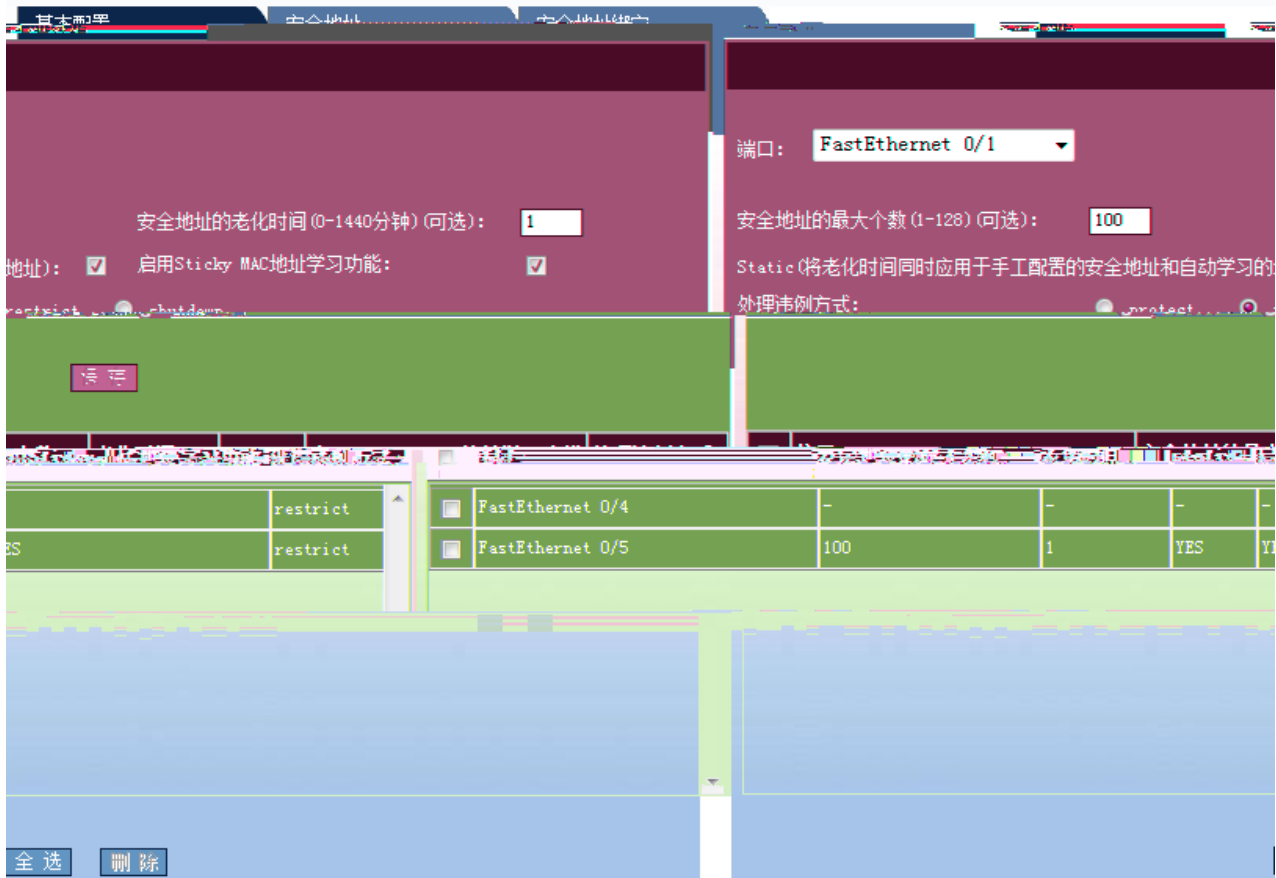
保存

口	风暴类型	控制方式	控制力度	接
FastEthernet 0/2	broadcast	-	-	Fe
FastEthernet 0/2	multicast	-	?	Fe
	unicast	level	20	FastEthernet 0/2

全选 删除

71

2.4.5



72

1)

Sticky Mac

Static

2)



73

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:

<input type="checkbox"/>	接口	MAC地址	Vlan ID	IP地址
<input checked="" type="checkbox"/>	FastEthernet 0/1	1000.0000.0000	10	1.2.3.3

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Mac IP
 VLAN ID MAC Vlan

2.5

2.5.1

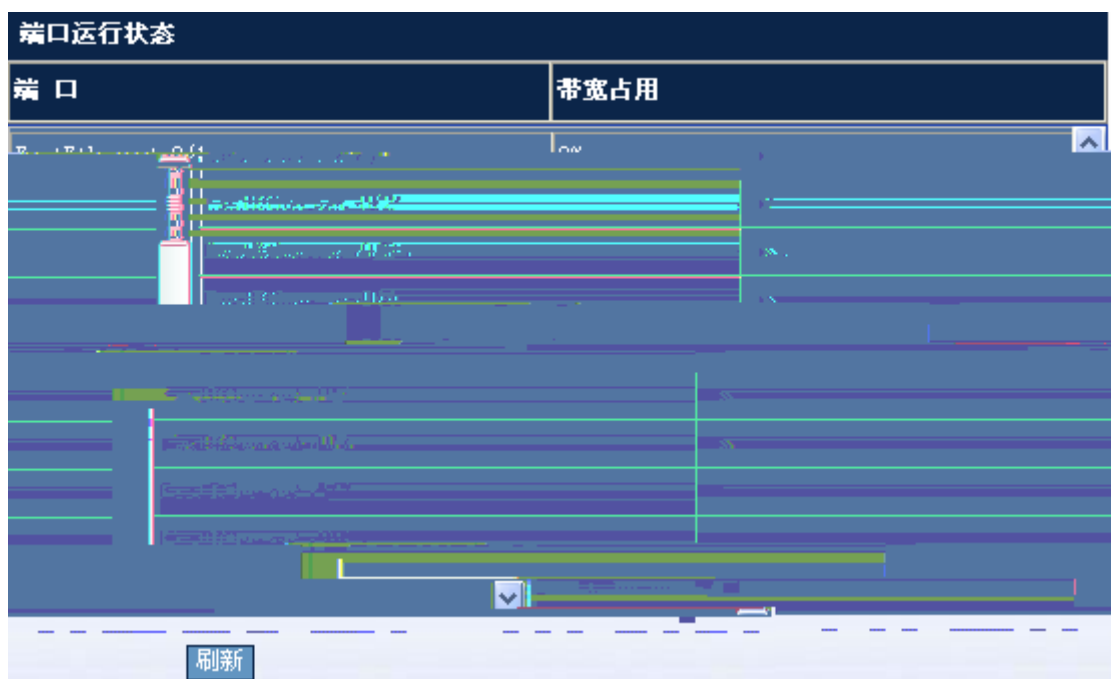
端口状态

端口	速率	模式	介质	接口名称	状态
1	Unknown	Unknown	copper	FastEthernet 0/1	down
2	Unknown	Unknown	copper	FastEthernet 0/2	down
1	Full	100V	copper	FastEthernet 0/3	up
900	Unknown	Unknown	copper	FastEthernet 0/4	down
	Unknown	Unknown	copper	FastEthernet 0/5	down
	Unknown	Unknown	copper	FastEthernet 0/6	down
	Unknown	Unknown	copper	FastEthernet 0/7	down
	Unknown	Unknown	copper	FastEthernet 0/8	down
	Unknown	Unknown	copper	FastEthernet 0/9	down
	Unknown	Unknown	copper	FastEthernet 0/10	down
	Unknown	Unknown	copper	FastEthernet 0/11	down
	Unknown	Unknown	copper	FastEthernet 0/12	down
	Unknown	Unknown	copper	FastEthernet 0/13	down
	Unknown	Unknown	copper	FastEthernet 0/14	down
	Unknown	Unknown	copper	FastEthernet 0/15	down
	Unknown	Unknown	copper	FastEthernet 0/16	down
	Unknown	Unknown	copper	FastEthernet 0/17	down
	Unknown	Unknown	copper	FastEthernet 0/18	down
	Unknown	Unknown	copper	FastEthernet 0/19	down
	Unknown	Unknown	copper	FastEthernet 0/20	down
	Unknown	Unknown	copper	FastEthernet 0/21	down
	Unknown	Unknown	copper	FastEthernet 0/22	down
	Unknown	Unknown	copper	FastEthernet 0/23	down
	Unknown	Unknown	copper	FastEthernet 0/24	down
	Unknown	Unknown	copper	FastEthernet 0/25	down
	Unknown	Unknown	copper	FastEthernet 0/26	down
	Unknown	Unknown	copper	FastEthernet 0/27	down
	Unknown	Unknown	copper	FastEthernet 0/28	down
	Unknown	Unknown	copper	FastEthernet 0/29	down
	Unknown	Unknown	copper	FastEthernet 0/30	down
	Unknown	Unknown	copper	FastEthernet 0/31	down

刷新

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2.5.4



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2.5.5

端口统计信息

注意：本程序仅支持对已经配置好的端口进行统计。

端口：

输入/输出帧统计

包数	发送单播包数	发送多播包数	发送广播包数	端口	接收包数	接收单播包数	接收多播包数	接收广播包数	发送包数			
12012	343	1688		Gi0/1	33198	8950	5508	18740	14043			
				Gi0/2	0	0	0	0	0			
				Gi0/3	2157	2146	6	5	6264	3004	543	2717
				Gi0/4	0	0	0	0	0	0	0	
				Gi0/5	34	23	11	0	217	15	27	175
				Gi0/6	0	0	0	0	0	0	0	
3				Gi0/7	882792	404167	69848	408777	3430900	436541	695541	229881
				Gi0/8	0	0	0	0	0	0	0	
				Gi0/9	437082	435647	37	1398	1719318	685632	191269	842417
				Gi0/10	0	0	0	0	0	0	0	
2				Gi0/11	856226	850552	149	5525	4080490	958866	754472	236713
				Gi0/12	0	0	0	0	0	0	0	
				Gi0/13	0	0	0	0	0	0	0	
				Gi0/14	0	0	0	0	0	0	0	
				Gi0/15	5557815	1423231	935630	3198954	1060302	1051703	213	8386
				Gi0/16	0	0	0	0	0	0	0	0

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2.5.5 端口统计

```

系统日志信息
Syslog logging: enabled
Console logging: level debugging, 587 messages logged
Monitor logging: level debugging, 0 messages logged
Buffer logging: level debugging, 587 messages logged
Timestamp debug messages: datetime
Timestamp log messages: datetime
Sequence number log messages: disable
Sysname log messages: disable
Count log messages: disable
Trap logging: level informational, 587 message lines logged, 0 fail
Log Buffer (Total 4096 Bytes): have written 4096. Overwritten 2533
*Feb 28 06:20:46: %ARPGUARD-4-SCAN: ARP scan was detected.
*Feb 28 06:33:51: %ARPGUARD-4-SCAN: ARP scan was detected.
*Feb 28 06:43:52: %ARPGUARD-4-SCAN: ARP scan was detected.
*Feb 28 06:53:54: %ARPGUARD-4-SCAN: ARP scan was detected.
*Feb 28 07:03:55: %ARPGUARD-4-SCAN: ARP scan was detected.
*Feb 28 07:13:56: %ARPGUARD-4-SCAN: ARP scan was detected.
*Feb 28 07:23:57: %ARPGUARD-4-SCAN: ARP scan was detected.
*Feb 28 07:33:58: %ARPGUARD-4-SCAN: ARP scan was detected.
*Feb 28 07:44:01: %ARPGUARD-4-SCAN: ARP scan was detected.
*Feb 28 07:54:03: %ARPGUARD-4-SCAN: ARP scan was detected.
*Feb 28 08:04:04: %ARPGUARD-4-SCAN: ARP scan was detected.
*Feb 28 08:14:06: %ARPGUARD-4-SCAN: ARP scan was detected.

```

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2.6

2.6.1 Ping

Ping

IP

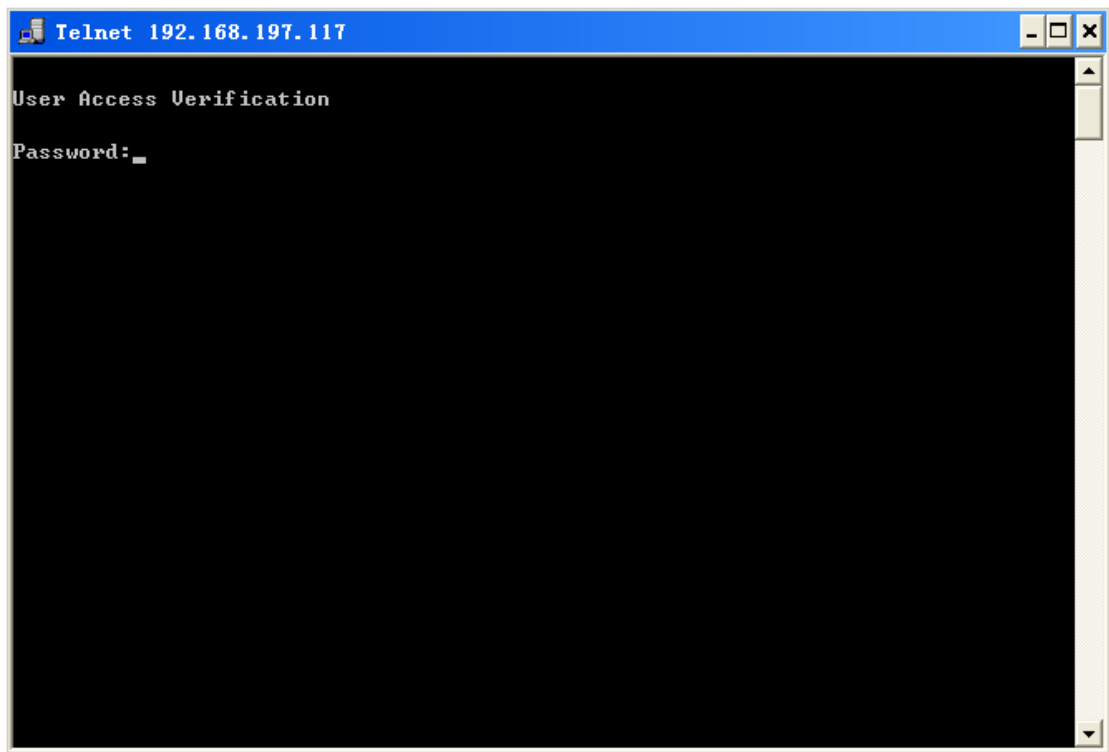
IP

Ping

2.6.2 Telnet

Telnet

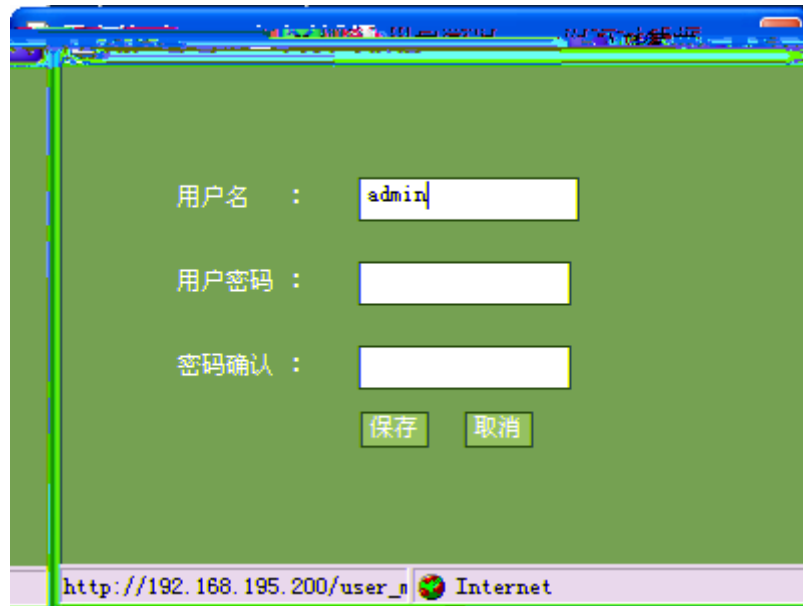
Telnet



82 Telnet

PC Telnet Telnet PC Telnet

2.6.3



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2.6.4

The image shows two screenshots of a network device's web management interface. The top screenshot is titled "修改Enable口令" (Modify Enable Password). It contains a green sidebar with a warning message: "注意：如果您设置了新的Enable口令，则在设置之后使用新口令重新登录。" (Note: If you set a new Enable password, use the new password to log in again after the setting). To the right, there are two input fields: "新口令" (New Password) and "确认新口令" (Confirm New Password), each followed by a colon. Below these fields is a "保存" (Save) button. The bottom screenshot is titled "修改Telnet登录口令" (Modify Telnet Login Password). It has a similar layout with a "新口令" (New Password) input field and a "保存" (Save) button. A "确定" (Confirm) button is also visible in the bottom left of this screenshot.

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- 1) Enable
Enable



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- 2) Telnet
Telnet

8080

IP

192.168.1.1

:8080

2.6.7

系统升级

注意：请确认TFTP服务器已启用！

源文件名：

目标文件名：

TFTP 服务器 IP：

文件传输信息：

系统升级过程需要若干分钟,请耐心等待...

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TFTP
