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8:30 6

RGOS[®]10.4 (3b16)

-
-
-

1.

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

2.



3.

■

■

■



-WEB

-
1. WEB

1 WEB

1.1 WEB

WEB

IE

WEB

WEB

WEB

WEB

WEB

WEB

IE

1.2

1.2.1

■

WEB

WEB

WEB
IPAD

PC

■

IE6.0

IE7.0

IE8.0

IE

maxthon

WEB

■

1024*768

1280*1024

1440*960

1.2.2

■

WEB

■

WEB

■

IP

1.3 WEB

WEB

WEB

“ WEB

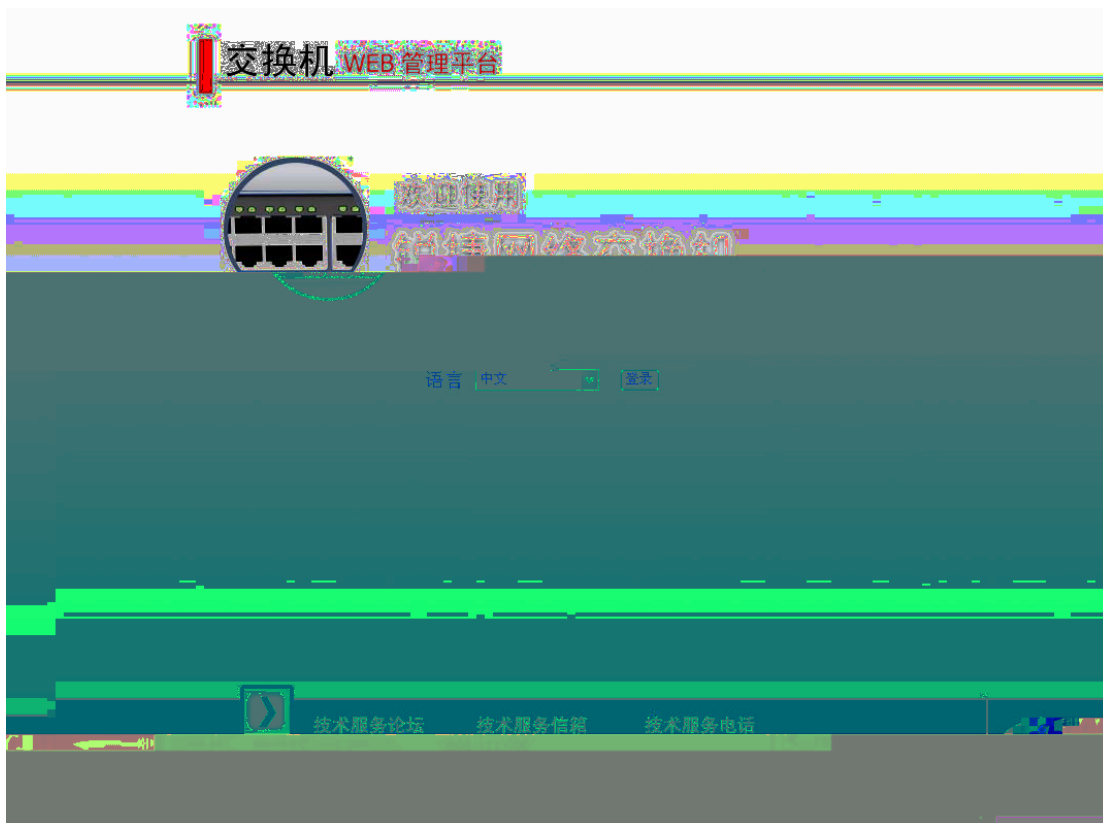
”



WEB

leBleB WEB

1-1



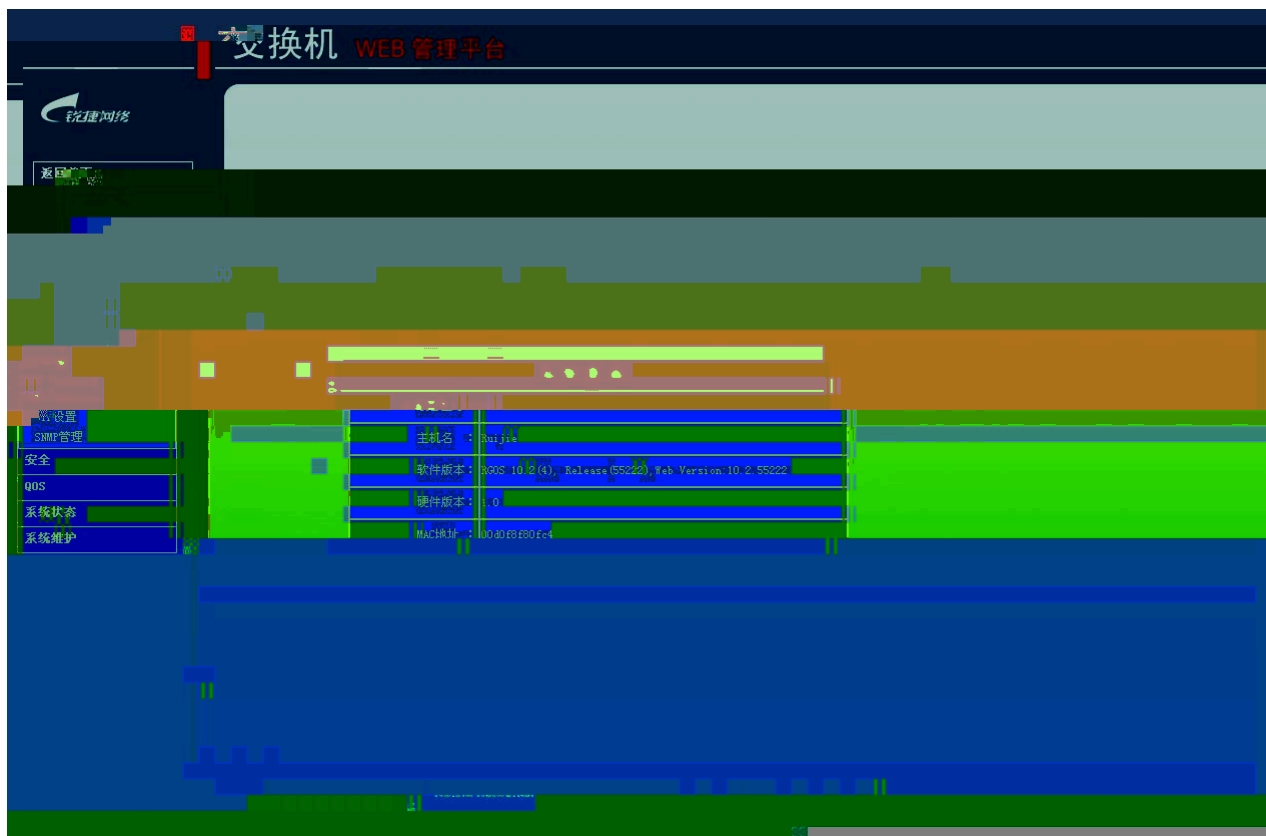
“ ”

1-2



WEB

1-3 WEB



1.5

1.5.1 IP

“ IP ”

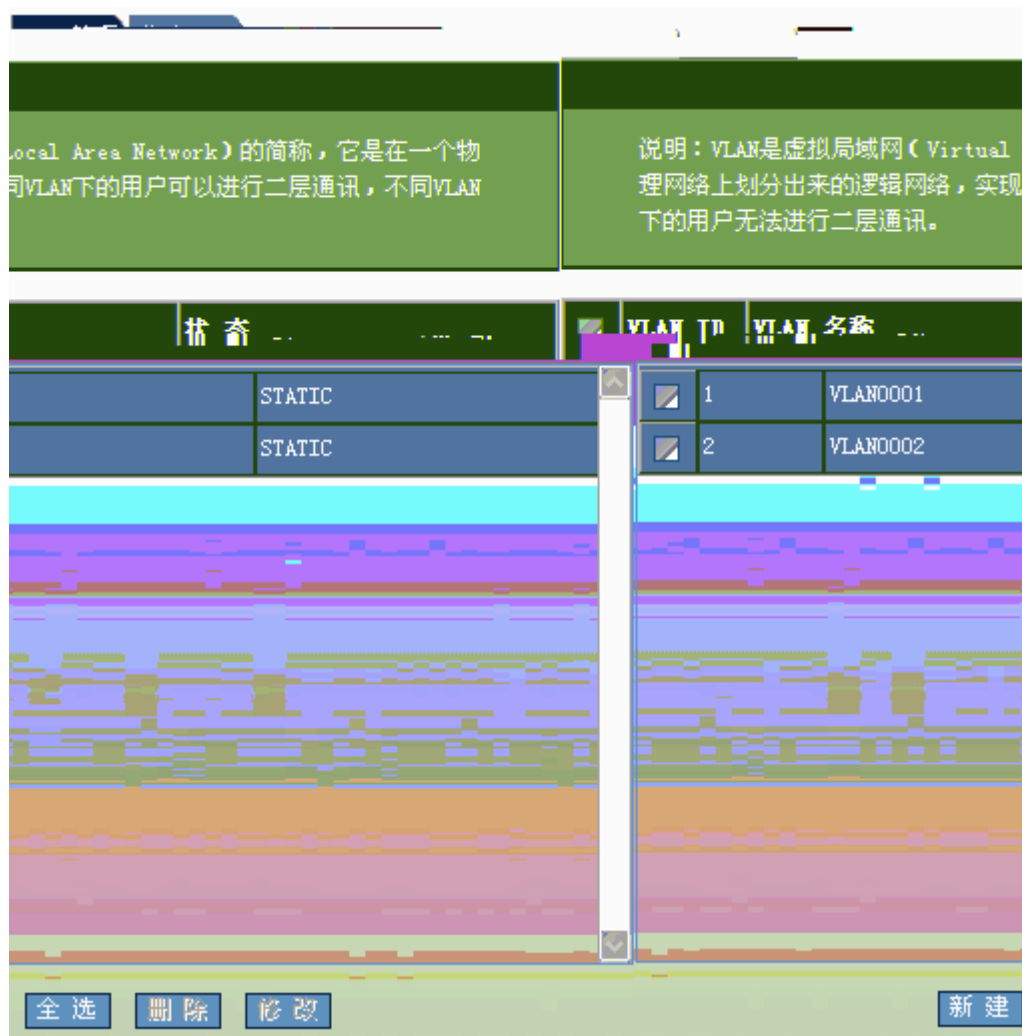
IP

1-4 IP



VLAN

1-6 VLAN



VLAN

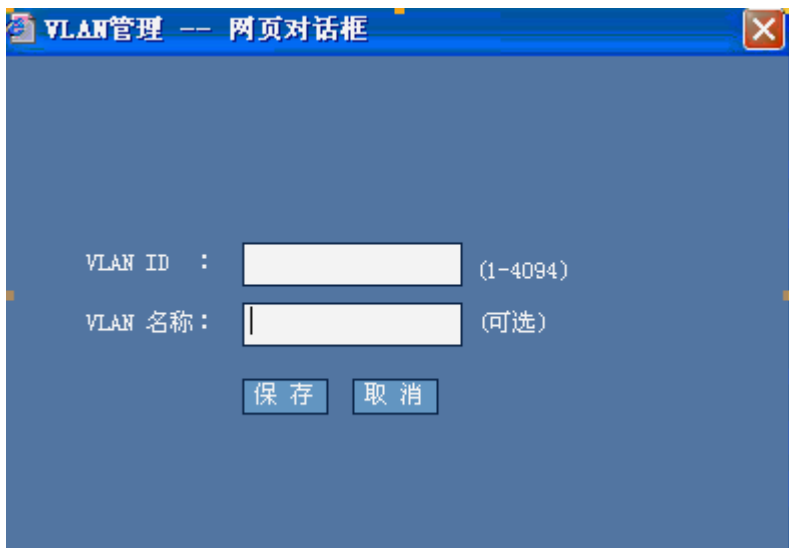
VLAN

VLAN

VLAN

“ ”

1-7 VLAN



VLAN ID VLAN

“ ”

VLAN

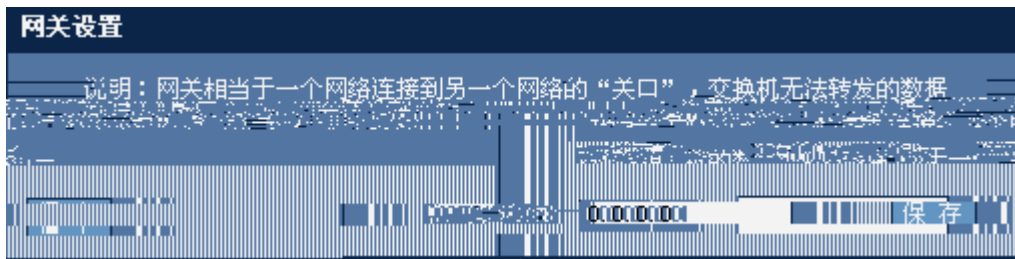
VLAN

VLAN

“ ”

VLAN

“ ”



IP “ ” IP

1.5.4

“ ”

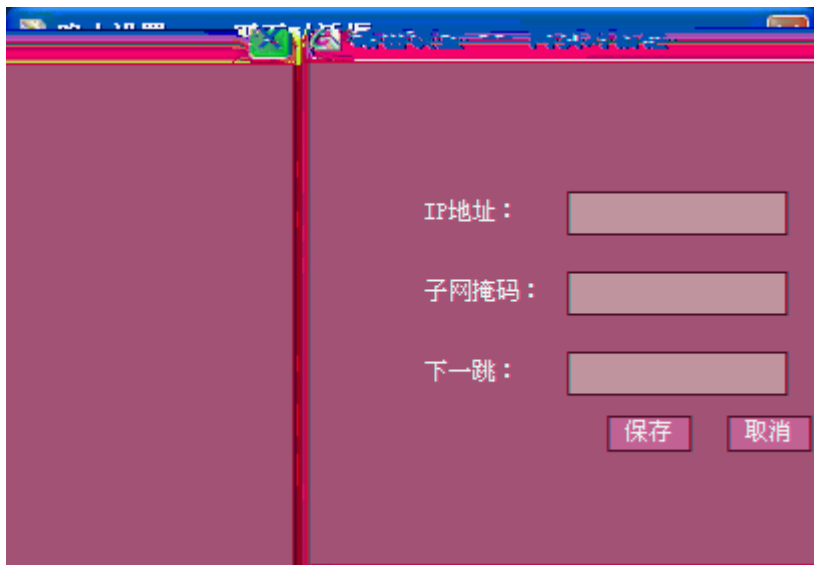
1-11

序号	IP地址	子网掩码	下一跳
1	2.2.2.0	255.255.255.0	1.1.1.1
2	192.168.23.240	255.255.255.240	192.168.23.1

添加路由 全选 删除

“ ”

1-12



IP

“ ”

“ ”

1.5.5

“ ”

1-13



“ ”

“ ”

1.5.6

“ ”



输入限速
输出限速

端口输出限速设置

注意：不限速的端口，保持对应文本框为空（1byte=8bit）。瞬时速率值只能为2的n次方，10G口最小值为8。

端口	输出速率限制 (64-1000000 KBit/s)	瞬时速率限制 (4-16380 K)
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"/>

保存
取消全部输出限速

1.5.7



■

“ ”

■

“ ”

1-17



“ ”

■

“ ”

1.5.8

“ ”

1-18

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
G10/1	Down	Half	10	On	-
G10/2	Down	Half	10	On	-
G10/3	Down	Full	1000	Off	-
G10/4	Down	Auto	Auto	Off	-
G10/5	Down	Full	100	Off	-
G10/6	Down	Auto	Auto	Off	-
G10/7	Up	Full	100	Off	-
G10/8	Down	Auto	Auto	Off	-
G10/9	Down	Full	100	Off	-
G10/10	Down	Auto	Auto	Off	-
G10/11	Down	Auto	Auto	Off	-
G10/12	Down	Auto	Auto	Off	-

“ ”

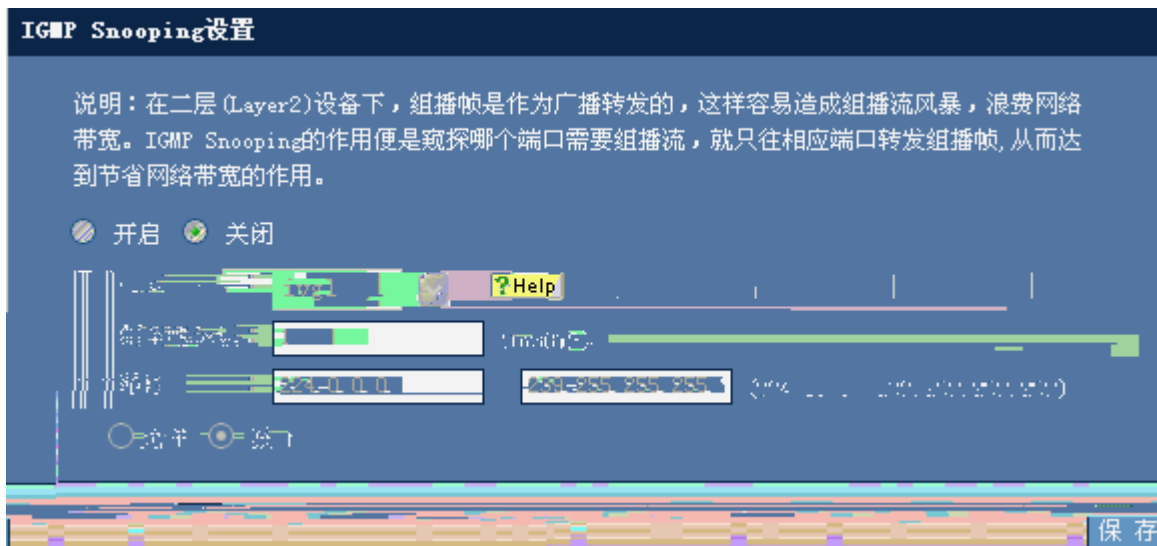
1.5.9 DHCP

“ DHCP ”

DHCP

1-19 DHCP





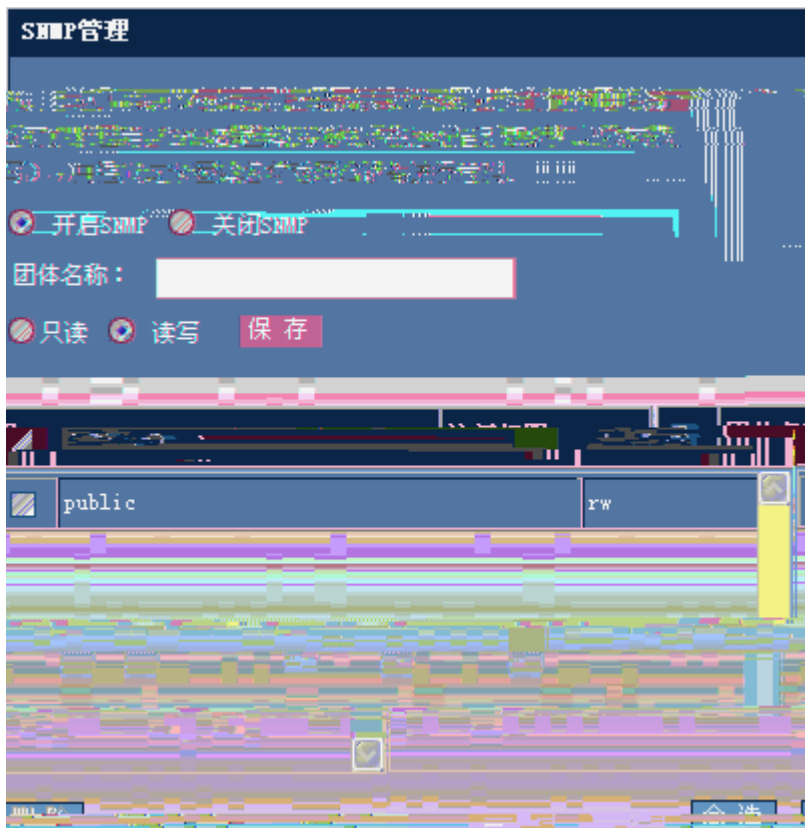
IGMP Snooping “ ” ivgl
 svgl ivgl-svgl svgl ivgl-svgl IP “ ”
 IGMP Snooping “ ” “ ”

1.5.11 STP

“ STP ”

STP

1-21 STP



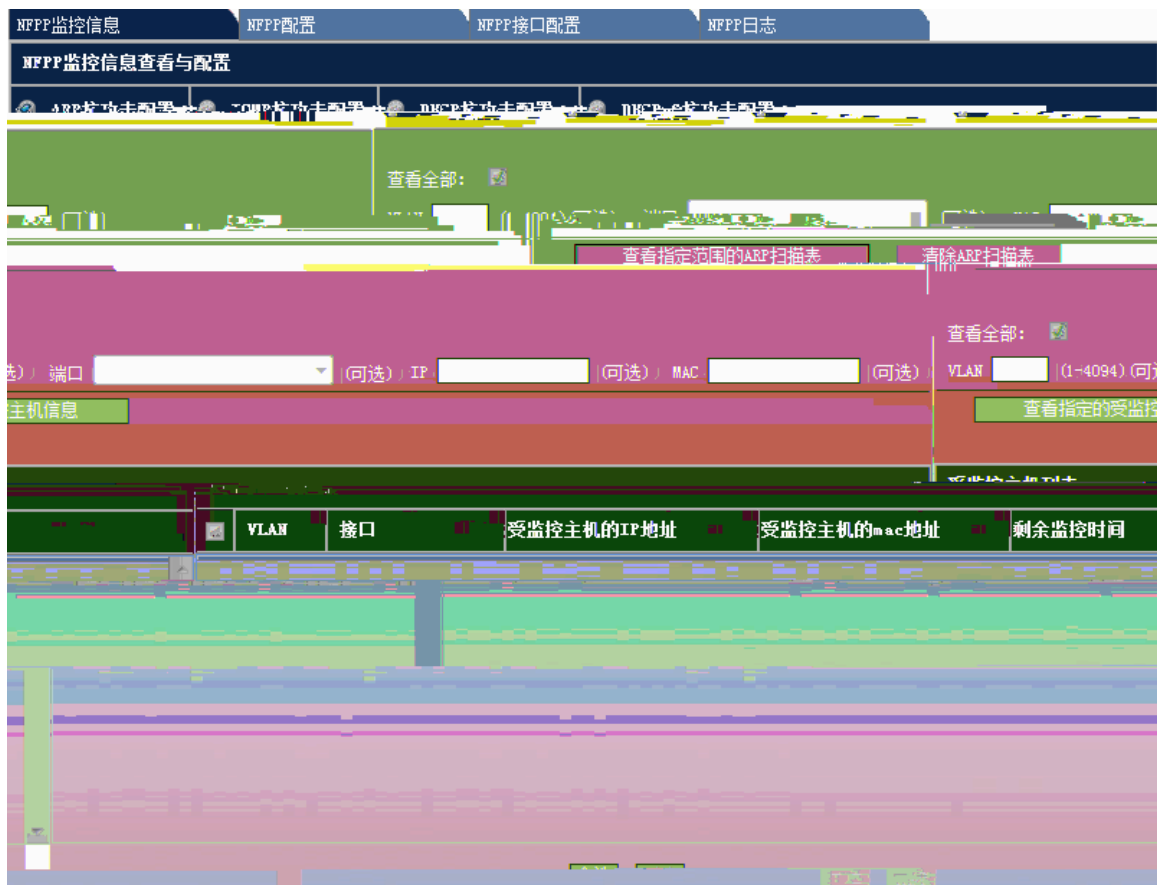
“ SNMP ” “ SNMP ” “ SNMP ” “ ”

1.5.13 NFPP

“ NFPP ”

NFPP

1-23 NFPP



NFPP

1) ARP

1-24 NFPP —ARP

NFPP监控信息 NFPP配置 NFPP接口配置 NFPP日志

NFPP监控信息查看与配置

查看全部:

VLAN (1-4094) (可选) 端口 (可选) MAC (可选)

查看全部:

VLAN (1-4094) (可选) 端口 (可选) IP (可选) MAC (可选)

ARP扫描表信息

VLAN	interface	IP address	MAC address	timestamp
1	Fa0/40	-	001a.a942.f27f	2016-6-6 11:8:53
1	Fa0/40	-	001a.a942.f27f	2016-6-6 11:10:1
1	Fa0/40	-	001a.a942.f27f	2016-6-6 11:11:2
1	Fa0/40	-	001a.a942.f27f	2016-6-6 11:12:2
1	Fa0/40	-	001a.a942.f27f	2016-6-6 11:13:3
1	Fa0/40	-	001a.a942.f27f	2016-6-6 11:14:4
1	Fa0/40	-	001a.a942.f27f	2016-6-6 11:15:4
1	Fa0/40	-	001a.a942.f27f	2016-6-6 11:16:5
1	Fa0/40	-	001a.a942.f27f	2016-6-6 11:17:13
1	Fa0/40	-	001a.a942.f27f	2016-6-6 11:19:15
1	Fa0/40	-	001a.a942.f27f	2016-6-6 11:23:25
1	Fa0/40	-	001a.a942.f27f	2016-6-6 11:24:26

ARP

ARP

ARP

ARP

“ ARP ”

ARP

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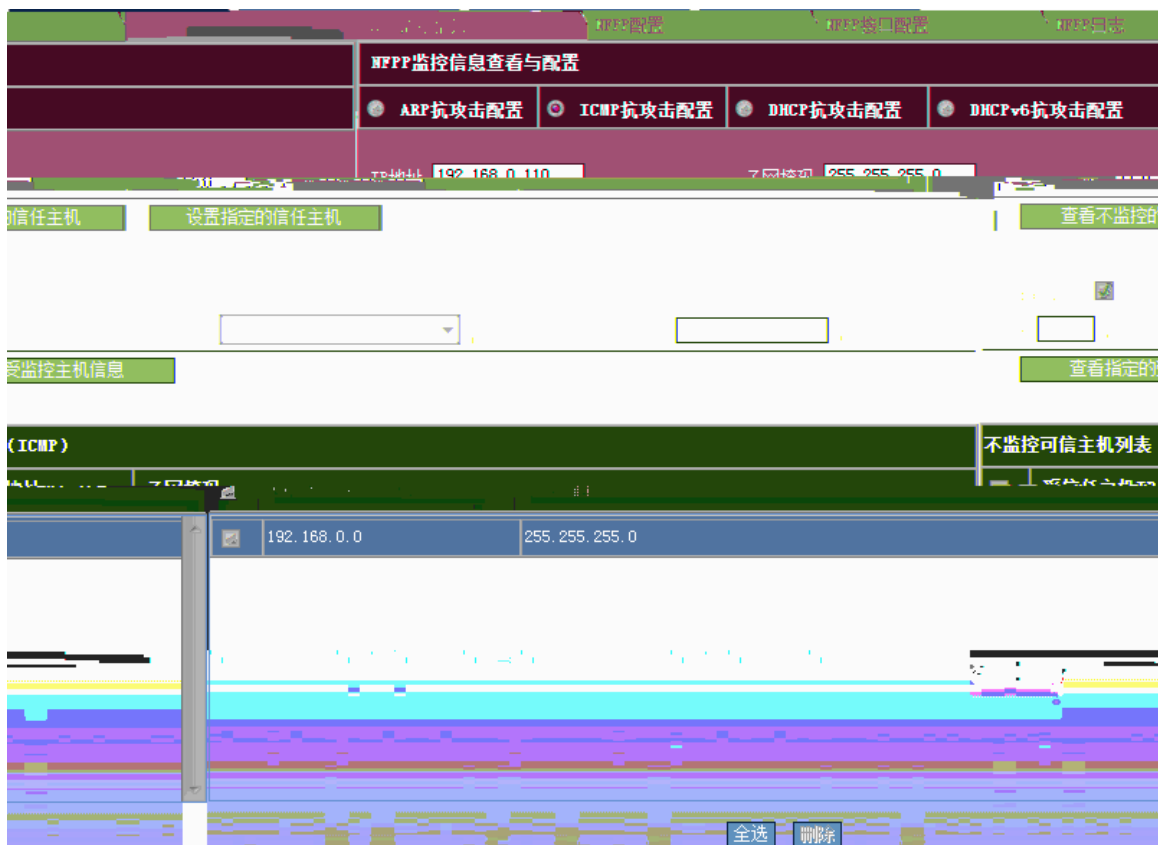
“

”

2) ICMP

1-25 NFPP

—ICMP



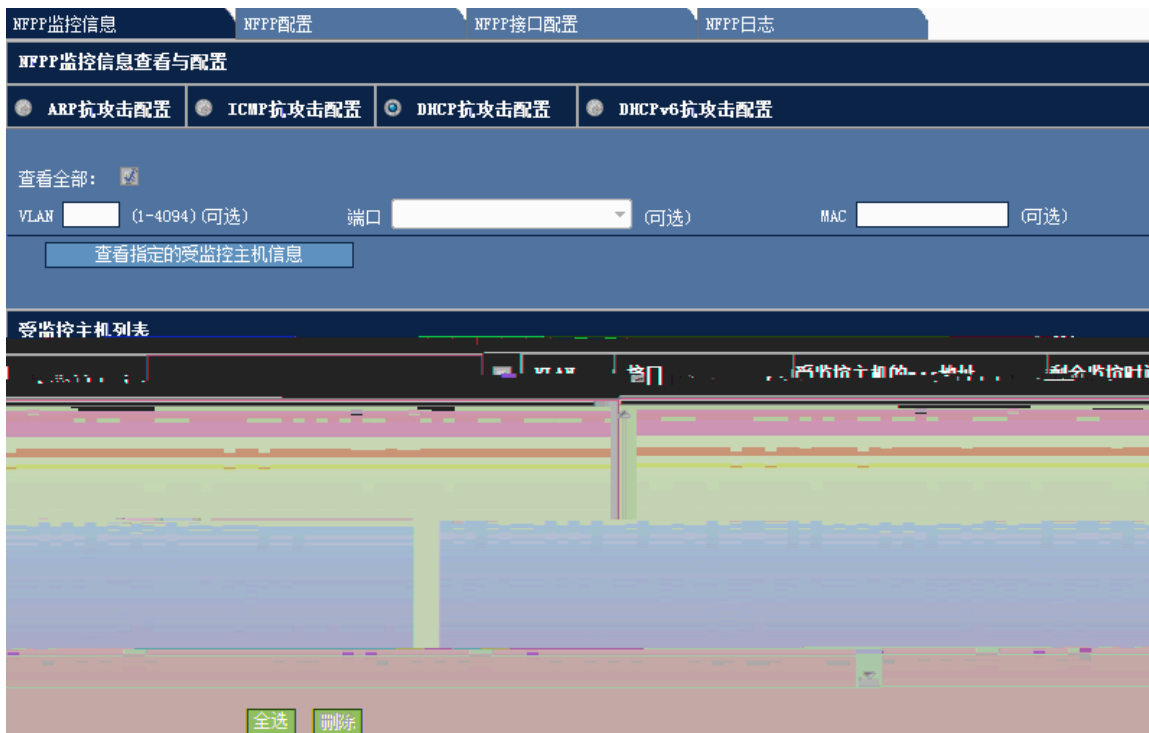
ICMP

IP

3) DHCP

1-26 NFPP

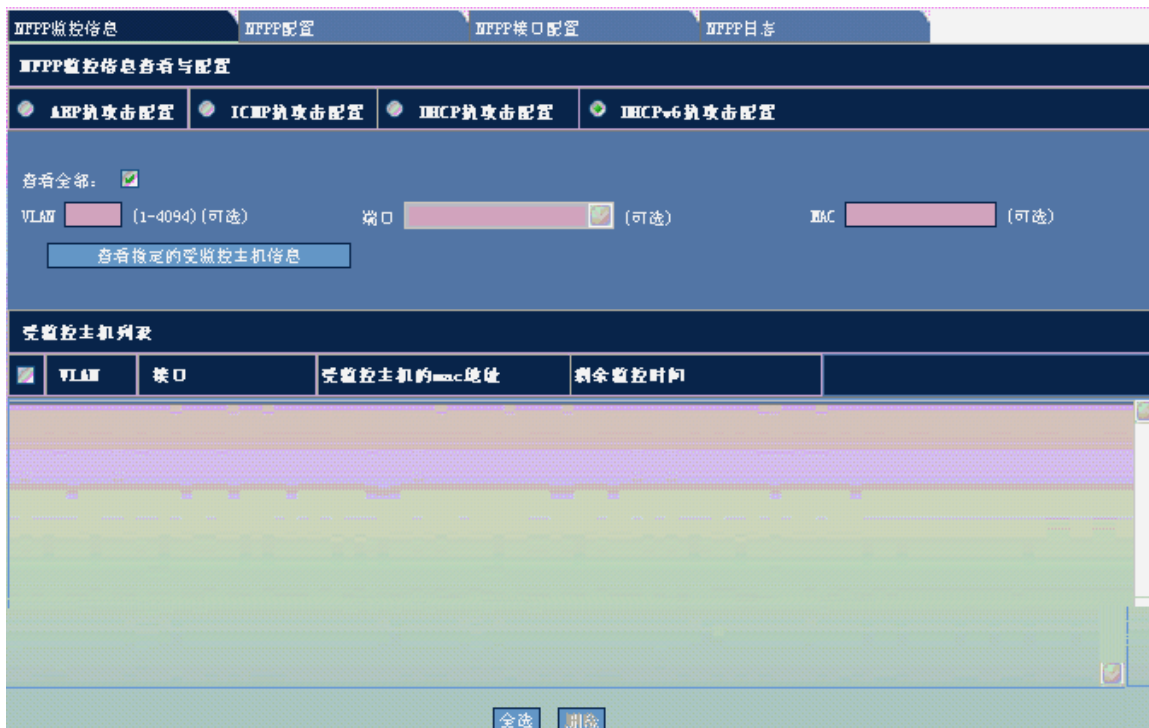
—DHCP



DHCP

4) DHCPv6

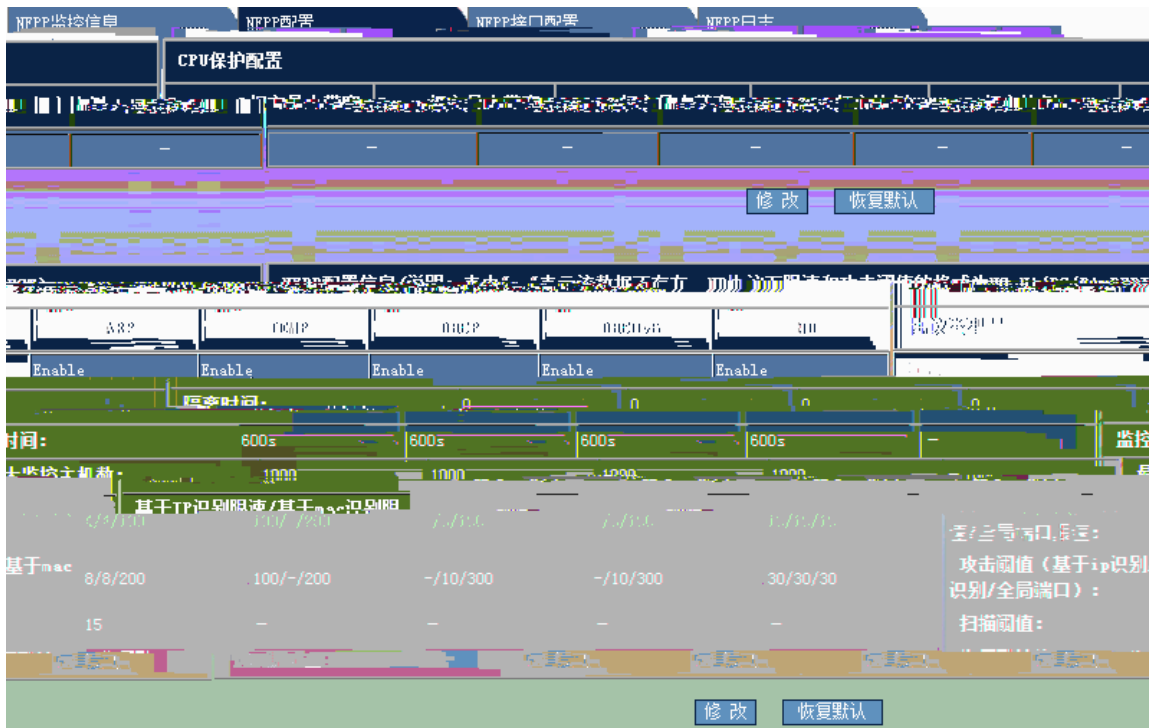
1-27 NFPP —DHCPv6



DHCPv6

NFPP

1-28 NFPP



1) CPU

1-29 CPU

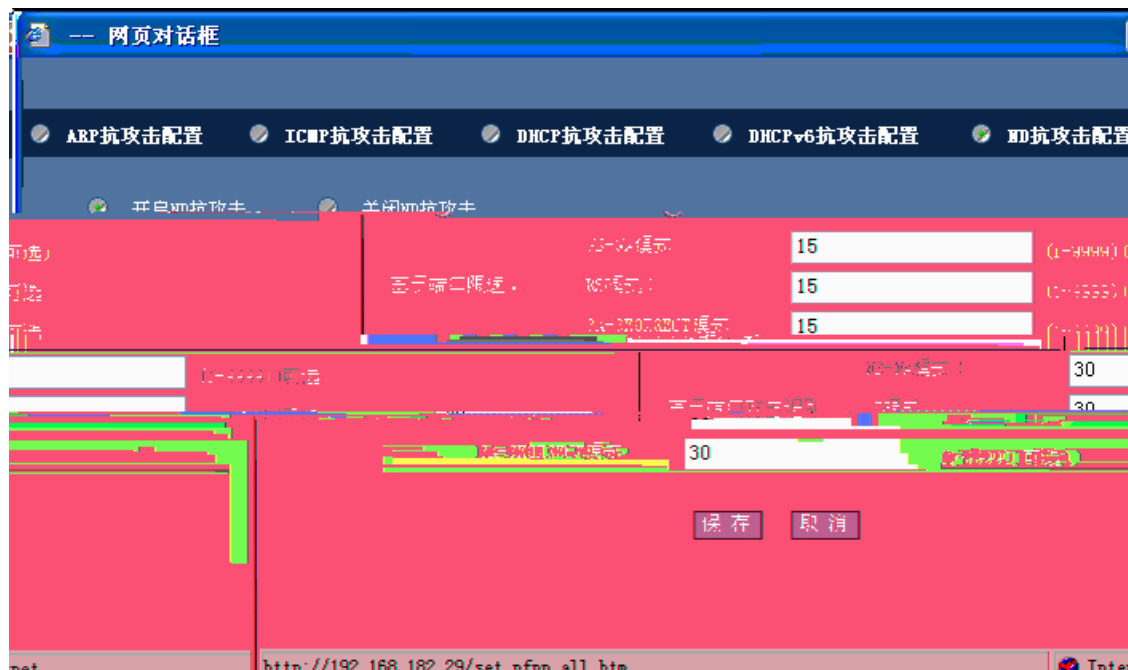


CPU

“ ”

2) NFPP

1-30 NFPP



NFPP

“ ”

NFPP

“ ”

NFPP

NFPP

1) ARP

1-31 NFPP

—NFPP

ARP

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
 ND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

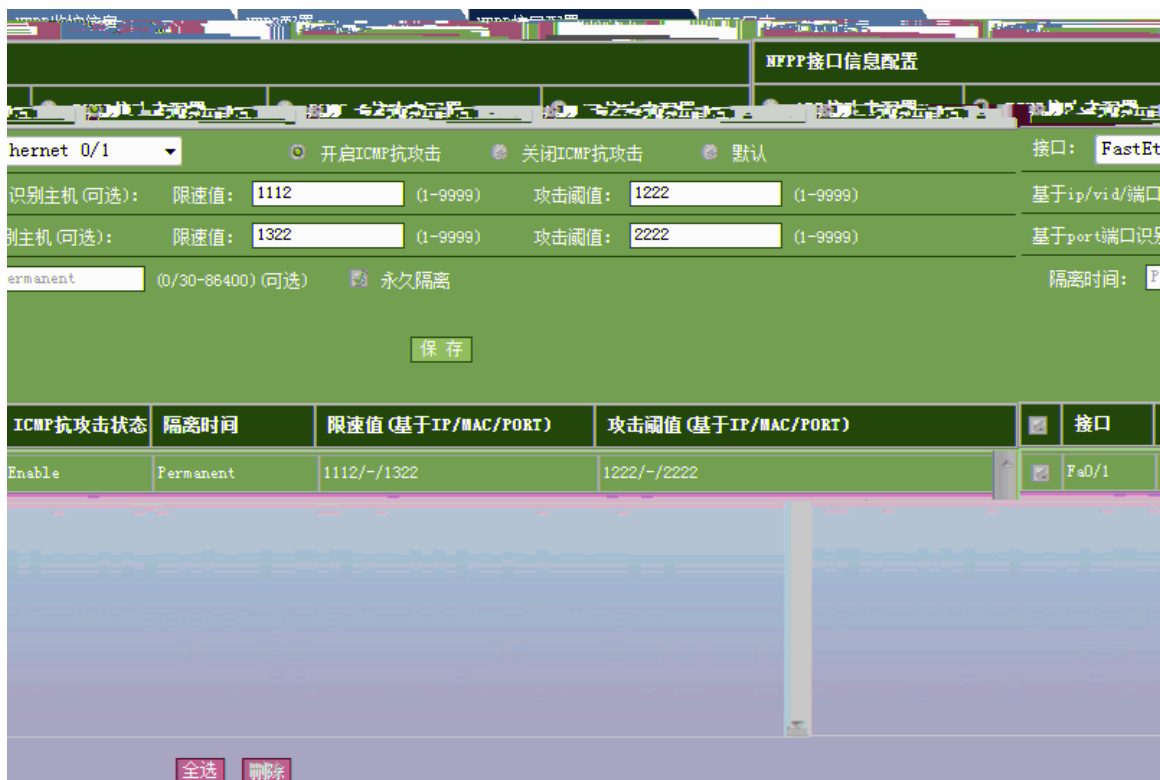
(可选): 限速值: 123 (1-9999) 攻击阈值: 123 (1-9999) 基于ip/vid/端口识别主机

(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

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 checked="" type="checkbox"/>	接口	ARP攻击
	123	123/789/123	123/789/456	123	<input checked="" type="checkbox"/>	Fa0/1	Enable



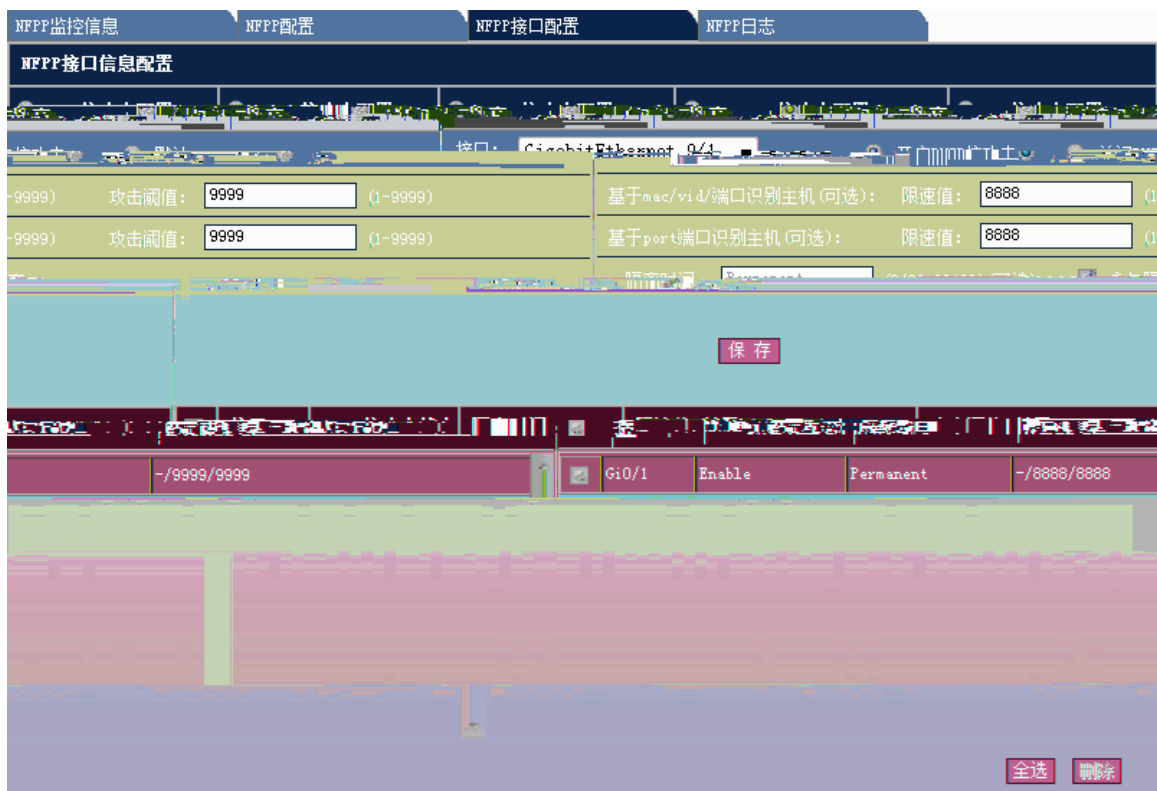
ICMP

NFPP

“ ”

3) DHCP

1-33 NFPP —NFPP DHCP



DHCP

NFPP

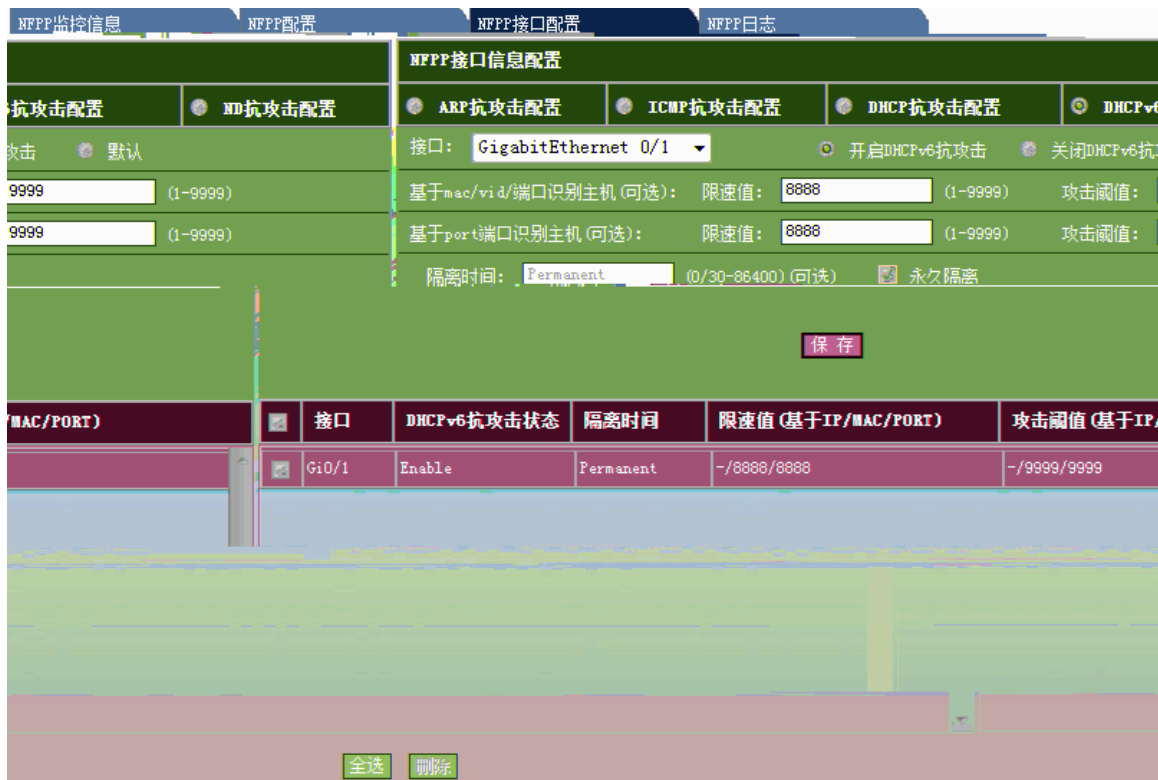
“ ”

4) DHCPv6

1-34 NFPP

—NFPP

DHCPv6



DHCPv6

NFPF

“ ”

5) ND

1-35 NFPF

—NFPF

ND



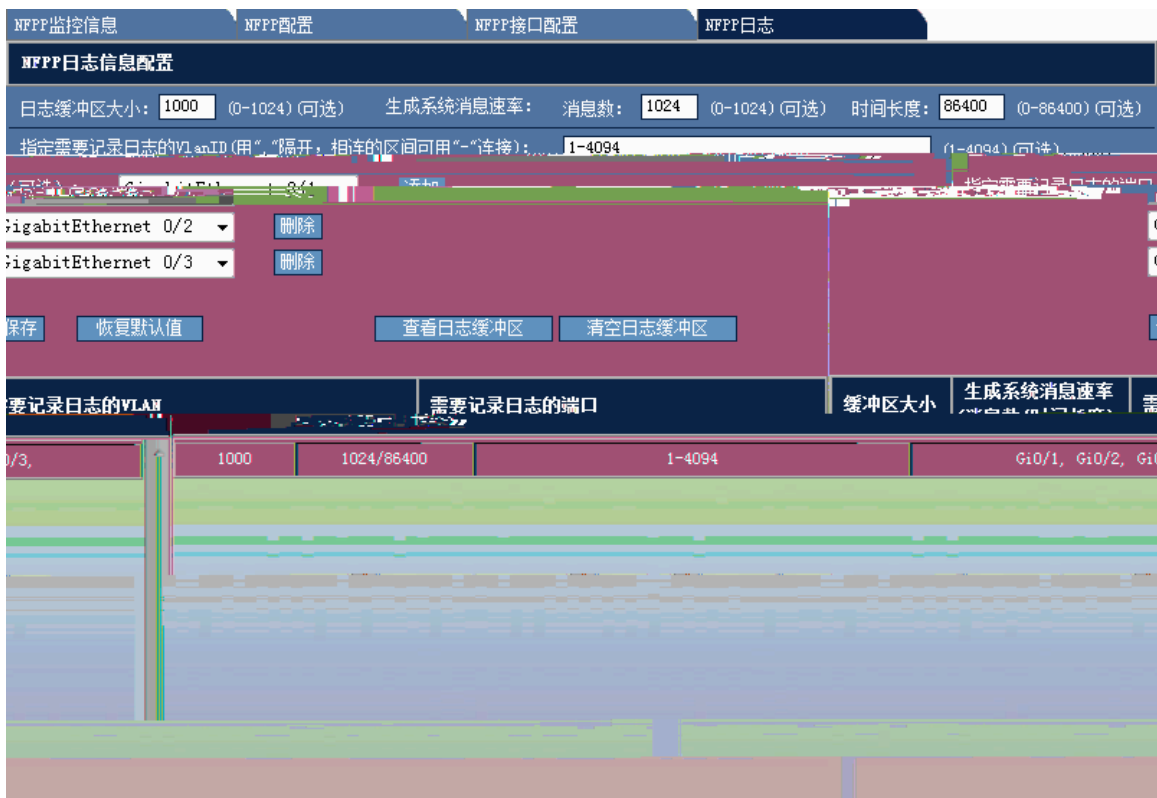
ND

NFPP

“ ”

NFPP

1-36 NFPP



NFPP

“ ”

“ ”

1-37

1.6

1.6.1 ARP

“ ARP ”

ARP

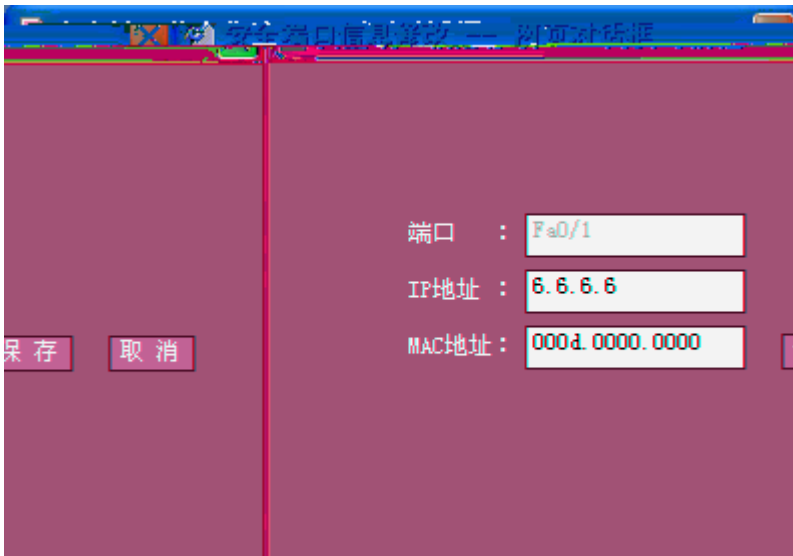
1-38 ARP





“ ”

1-40



“ ”

1.6.3 ARP

“ ARP ”

ARP

1-41 ARP

“ ARP ”

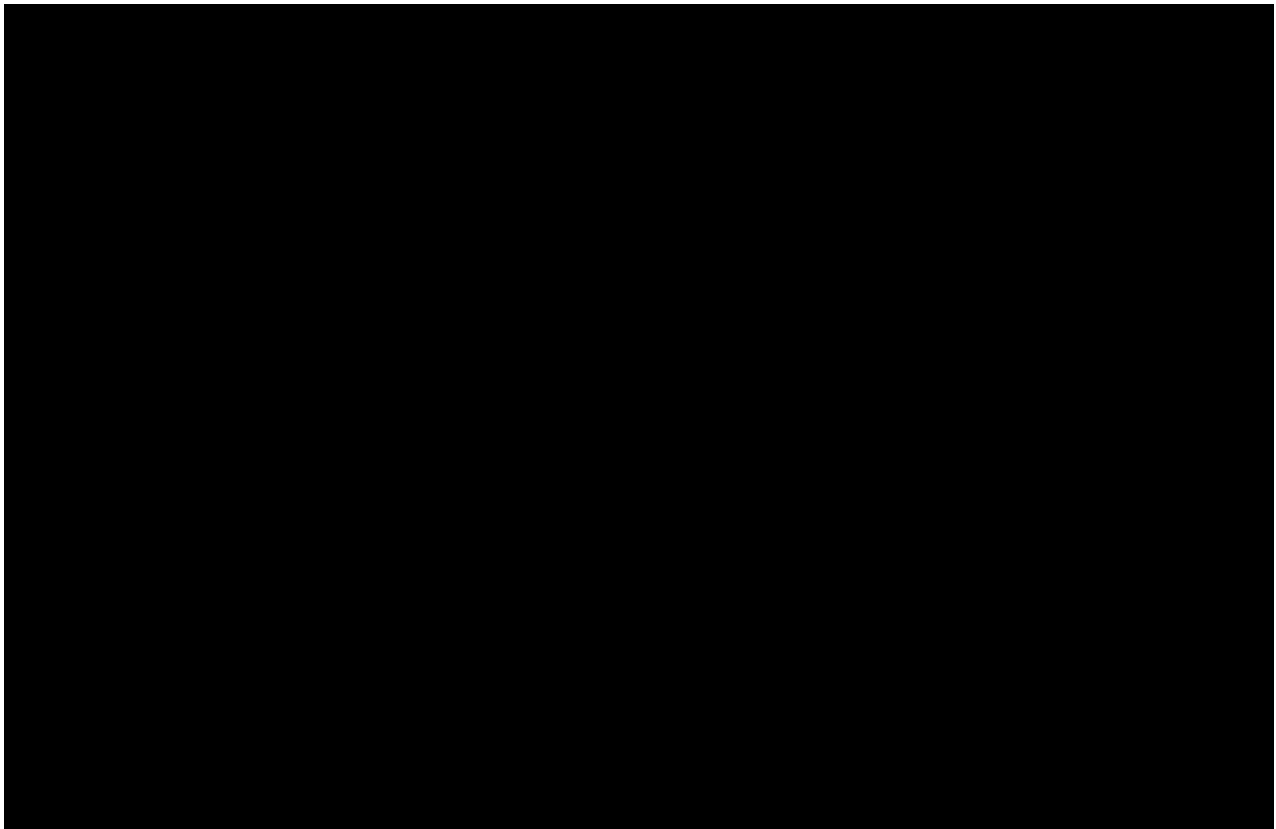
“ ARP ”

1.6.4 ACL

“ ACL ”

ACL

1-42 ACL



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ACL

ACL

ACL

ACL

ACL

“ ” “ ”

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IP
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IP

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IP

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IP

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IP

1-44

IP

“ ” “ ”

ID

TCP UDP IP ICMP

IP IP IP

IP IP IP

“ ”

ACL

1-45 ACL



ACL

ACL

“ ”

“ ”

a

PC

ACL

PC

WEB

1.6.5 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
 Snooping DHCP Snooping DHCP

“ IP Source Guard”

IP Source Guard

1-46 IP Source Guard

接口配置 用户绑定

打开接口上的IP Source Guard功能

说明: IP Source Guard功能的应用是和DHCP Snooping结合起来的,也就是说基于接口的IP Source Guard仅仅在非信任口上生效,在其他信任口或者非DHCP Snooping控制范围内的接口上配置该功能,功能将不会生效。

查看指定端口 查看全部

接口	VLAN	接口	过滤类型	过滤模式	IP地址	MAC地址
<input checked="" type="checkbox"/>	-	FastEthernet 0/6	ip	active	deny-all	-
<input checked="" type="checkbox"/>	-	FastEthernet 0/14	ip	active	deny-all	-

全选 删除

IP IP

1-47



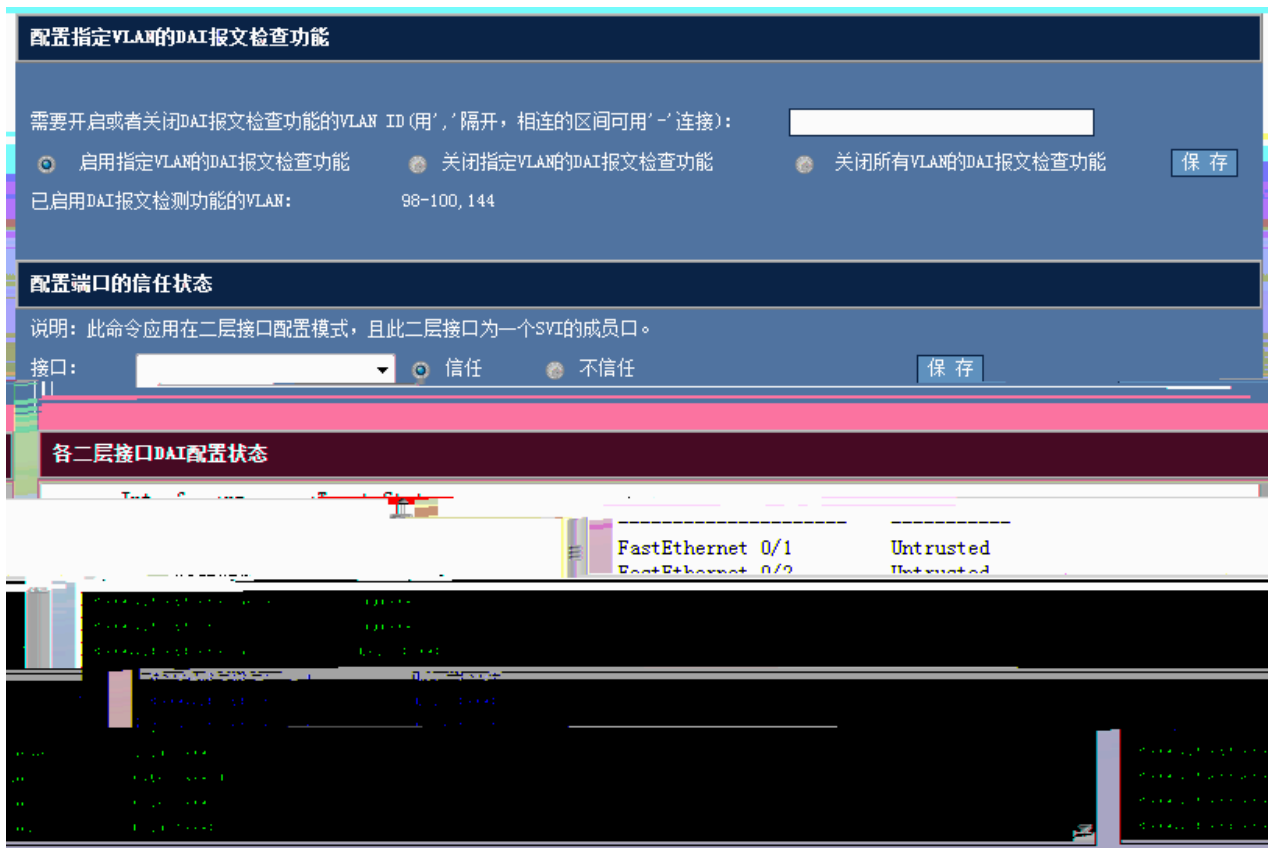
1.6.6 DAI

DAI Dynamic ARP Inspection ARP ARP arp

“ DAI”

DAI

1-48 DAI



- VLAN DAI 8 A O o l N é
VLAN DAI A

GSN

GSN

“ ”

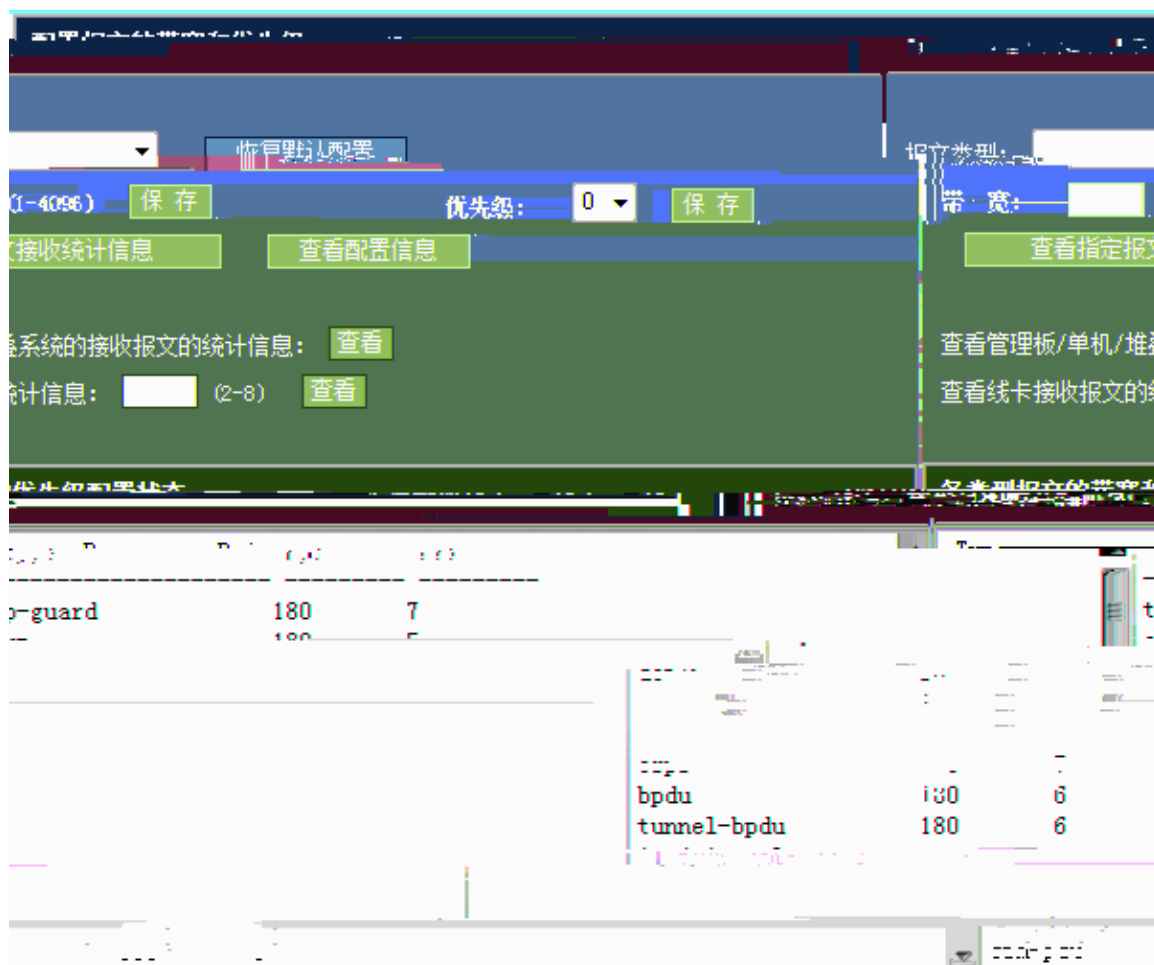
“ ”

1.6.8 CPP

“ CPP ”

CPP

1-50 CPP



“ ”

“ ”

“ ”

1-52

各类型报文的带宽和优先级配置状态

报 文 类 型	带 宽	优 先 级
ip-guard	180	7
dot1x	2000	4
rldp	180	7
180	7	
180	7	
180	7	
tunnel-bpdu	180	6
ipv4-icmp-local	1600	6
lldp	180	5
lldp_cdp	180	5
cfn-pdu	180	3

/ /

“ ” / /

1-53

/ /

“ ”

1.6.9 RADIUS

“ RADIUS ”

RADIUS

1-54 RADIUS

The screenshot displays a web interface for configuring a RADIUS server group. At the top, there are tabs for "Radius服务器" and "Radius服务器组". Below the tabs, there is a "AAA参数配置" section with a terminal-like view showing "AAA new-model". The main configuration area is titled "Radius服务器组" and includes the following fields:

- 组名: (Group Name)
- Radius服务器IP地址: (Radius Server IP Address)
- UDP认证端口: (UDP Authentication Port) with a note "(0-65536) (可选)"
- UDP记账端口: (UDP Accounting Port) with a note "(0-65536) (可选)"
- Radius服务器组管理: (Radius Server Group Management) with a dropdown menu set to "radius"

Buttons for "删除" (Delete), "刷新" (Refresh), and "保存" (Save) are present. Below the form is a terminal window showing the configuration output:

```

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

RADIUS IP

“ ”

Radius

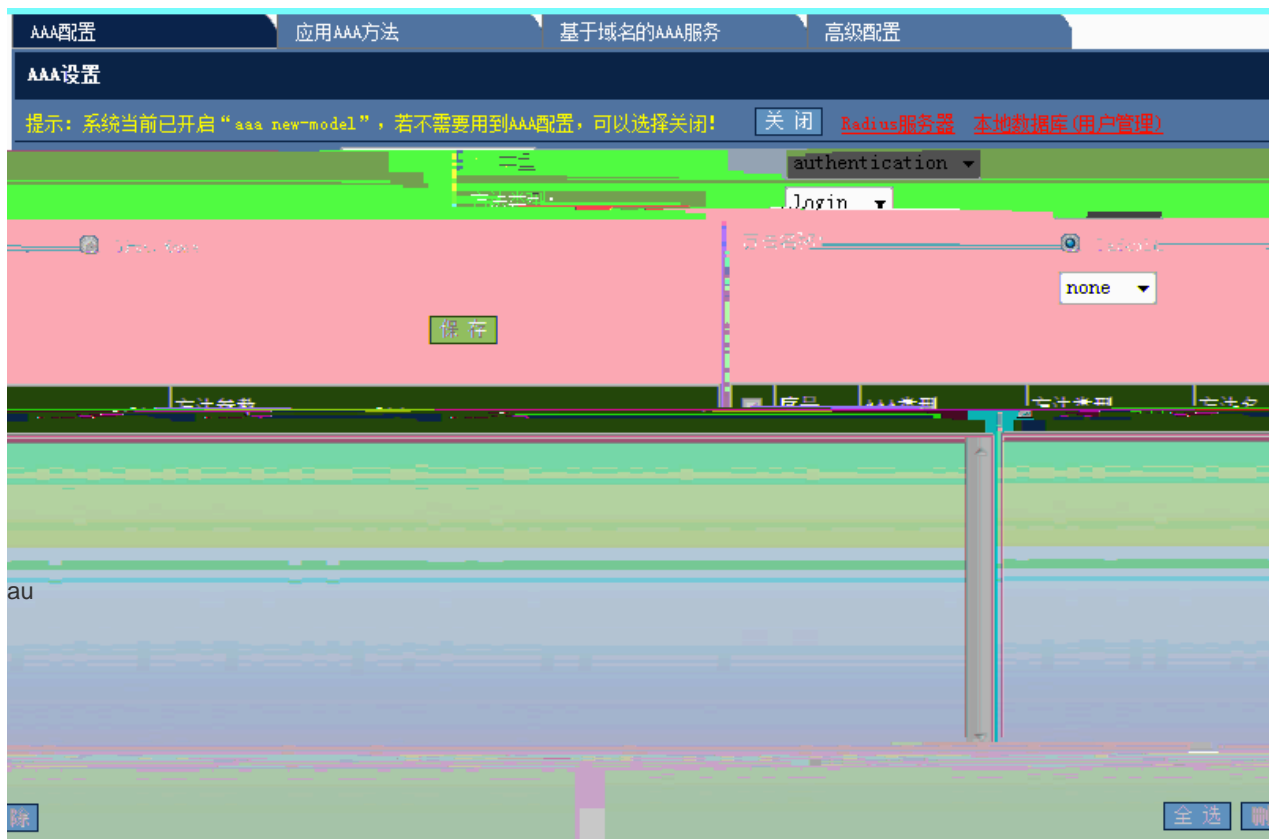
“ ”

1.6.10 AAA

“ AAA ”

AAA

1-56 AA A



AAA

AAA authentication authorization accounting
en È \$ #ø©2O r\$ðÕñàÑ"r\$ðÝÐ Ý ½

AAA login enable

AAA

1-58

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

域名: Default Domain Name

认证方法:

计费方法:

计费方法 (network):

策略: with domain without domain

策略:

删除

```

main default=====
: With-domain
: statistic: 0
list:
dot1x default
ppp default
network default
                    
```

AAA Domain管理:

```

=====Dor
State: Block
Username format:
Access limit: 2
802.1X Access st
Selected method
authentication
authentication
authorization
                    
```

AAA

Dot1x
Access Limit

PPP

“ ”

(network)

(network)

AAA Domain

“ ”

1-59 AA A

AAA配置 应用AAA方法 基于域名的AAA服务 高级配置

监视AAA用户

当前AAA用户:

配置支持VRF的AAA组

AAA组名: VRF名:

用户认证失败锁定

login登录用户尝试失败次数 (1-2147483647):

刷新

当前锁定的用户列表:

Name	Tries	Lock	T
-----	-----	-----	-----

imeout (min)

AAA

AAA

VRF AAA

1.6.11 Dot1x

“

Dot1x

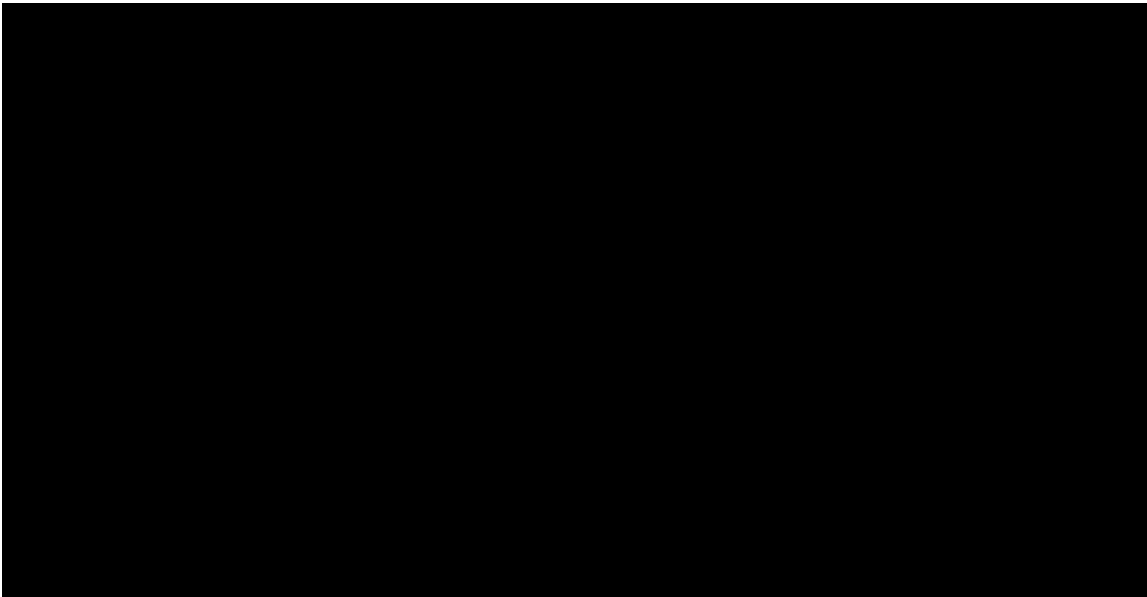
“ ” “ ”

1-61

T 11

“ ” “ ”

i



“ ”

802.1x

MAC

“ ”

VLAN

“ ”

1.6.12

“ ”

1-64



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

1.6.13 WEB

“ web ”

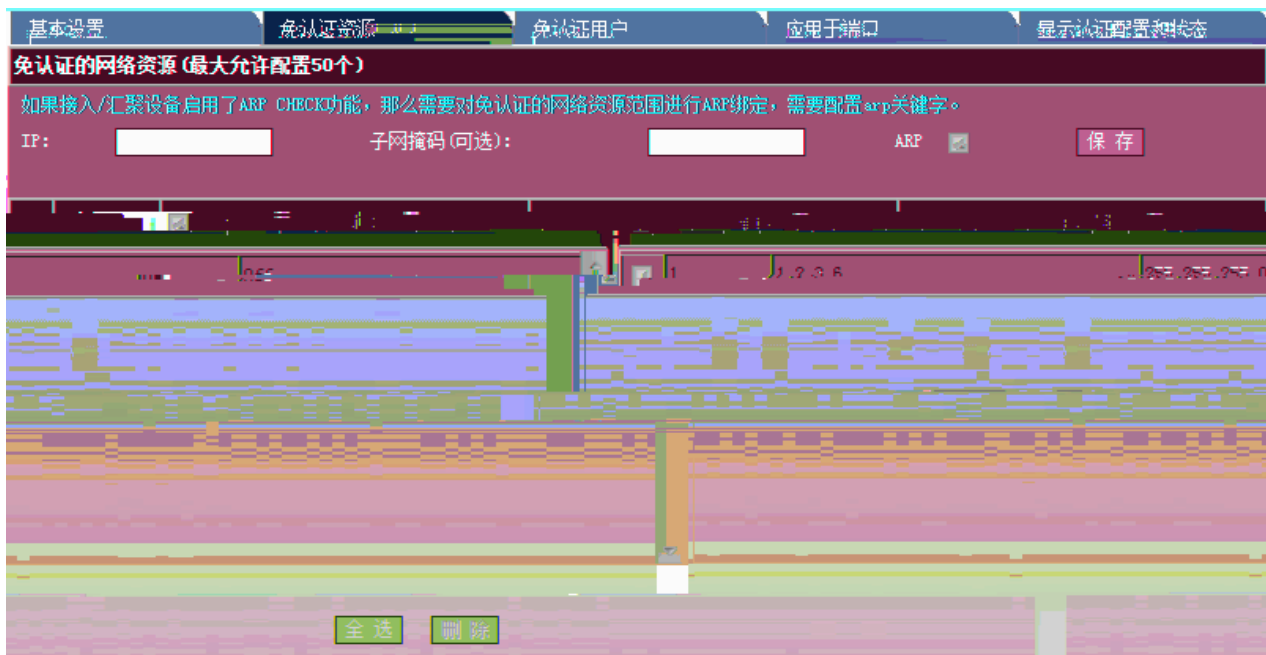
web

1-66 web



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

1-67



IP

“ ”

1-68




IP

“ ”

1-69

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 checked="" type="checkbox"/>	1	FastEthernet 0/1	YES
<input checked="" type="checkbox"/>	2	FastEthernet 0/3	YES

“ ”

“ ”

1-70

IP

1.6.14 DHCP Snooping

“ DHCP Snooping”

DHCP Snooping

1-71 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

限速	端口	信任端口

■ DHCP Snooping

DHCP Snooping DHCP Snooping MAC “ ”

■ DHCP Snooping

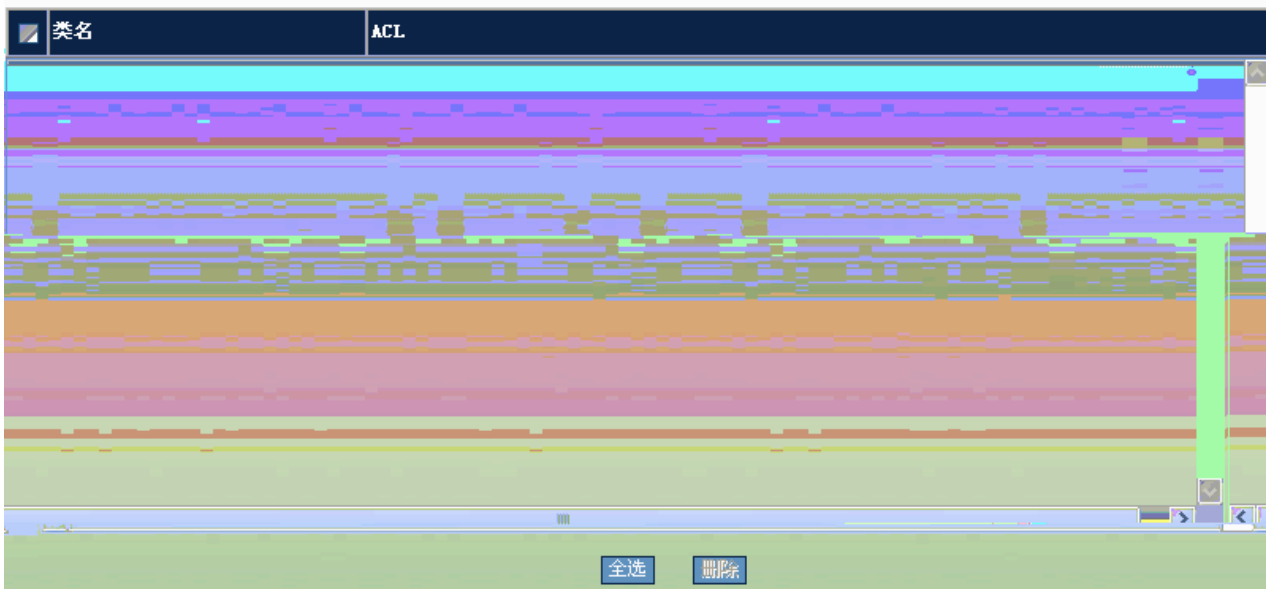
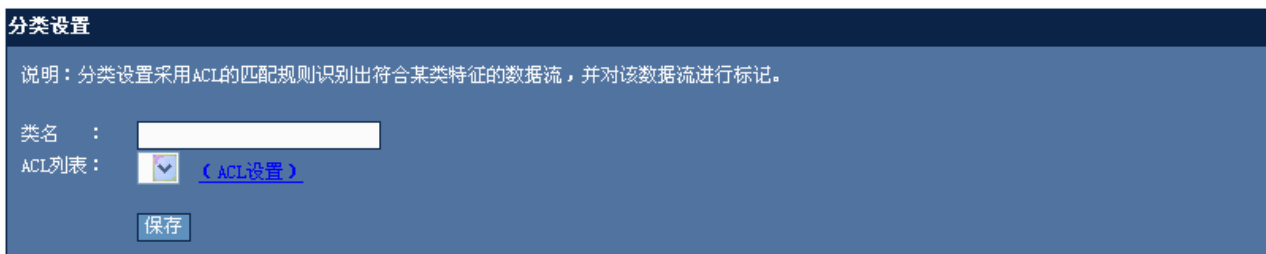
“ ”
“ ”

1.7 QOS

1.7.1

“ ”

1-72



ACL “ ”
“ ”

1.7.2

“ ”

1-73



DSCP

“ ”

1.7.3

“ ”

1-74

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

<input type="checkbox"/>	端口	方向	策略名	信任模式	COS
<input checked="" type="checkbox"/>	FastEthernet 0/1	-	-	-	-
<input checked="" type="checkbox"/>	FastEthernet 0/2	-	-	-	-
<input checked="" type="checkbox"/>	FastEthernet 0/3	-	-	-	-
<input checked="" type="checkbox"/>	FastEthernet 0/4	-	-	-	-
<input checked="" type="checkbox"/>	FastEthernet 0/5	-	-	-	-
<input checked="" type="checkbox"/>	FastEthernet 0/6	-	-	-	-
<input checked="" type="checkbox"/>	FastEthernet 0/7	-	-	-	-
<input checked="" type="checkbox"/>	FastEthernet 0/8	-	-	-	-
<input checked="" type="checkbox"/>	FastEthernet 0/9	-	-	-	-
<input checked="" type="checkbox"/>	FastEthernet 0/10	-	-	-	-
<input checked="" type="checkbox"/>	FastEthernet 0/11	-	-	-	-

“ ”

“ ”

1.7.4

“ ”

1-75

端口: FastEthernet 0/2

默认

kilobits per second

2

保存

口	风暴类型	控制方式	控制力度
stEthernet 0/2	broadcast	-	-
stEthernet 0/2	multicast	-	2
stEthernet 0/2	unicast	level	20

全选 删除

“ ”

“ ”

1.7.5

“ ”

1-76



基本配置 安全地址 安全地址绑定

端口: FastEthernet 0/1

Vlan ID: 2

MAC地址: 1000.0000.0003 Vlan ID:

保存

	Vlan ID	接口	类型	MAC地址
<input type="checkbox"/>	2	FastEthernet 0/3	-	1000.0000.0000
<input checked="" type="checkbox"/>	2	FastEthernet 0/5	sticky	1000.0000.0003

全选 删除

Mac VLAN ID “ ”
“ ”

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

Mac VLAN ID “ ” IP MAC Vlan

“ ”

1.8

1.8.1

“ ”

1-79

1.8.2

“ ”

1-80

```
Building configuration...
Current configuration : 12931
!
version RGNOS 10.2.00(3), Rel.
23195A44470348C)
!
!
!
!
vlan 1
 name vlan1
!
vlan 2
!
vlan 3
!
vlan 4
!
vlan 5
!
vlan 6
!
vlan 7
!
```

base(30355) (Tue Mar 11 19:23:04 2008 -

bytes

1.8.3

“ ”

1-81

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

1.8.4

“ ”

1-82

1.8.5

“ ”

1-83

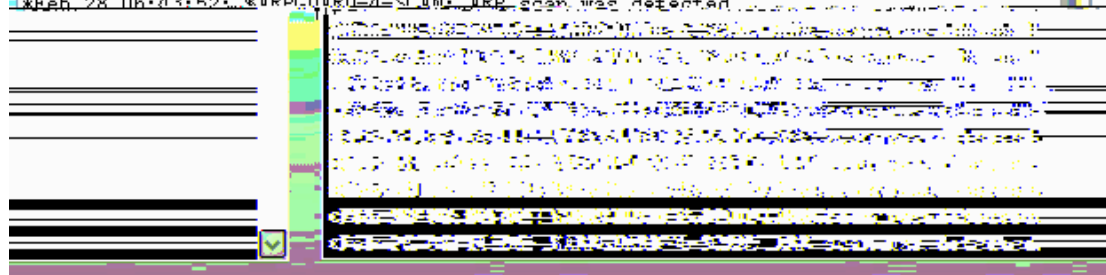
1.8.6

“ ”

1-84

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 06:23:49: %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.
```



1.9.2 Telnet

“ Telnet”

Telnet

1-86 Telnet

“ Telnet”

Telnet

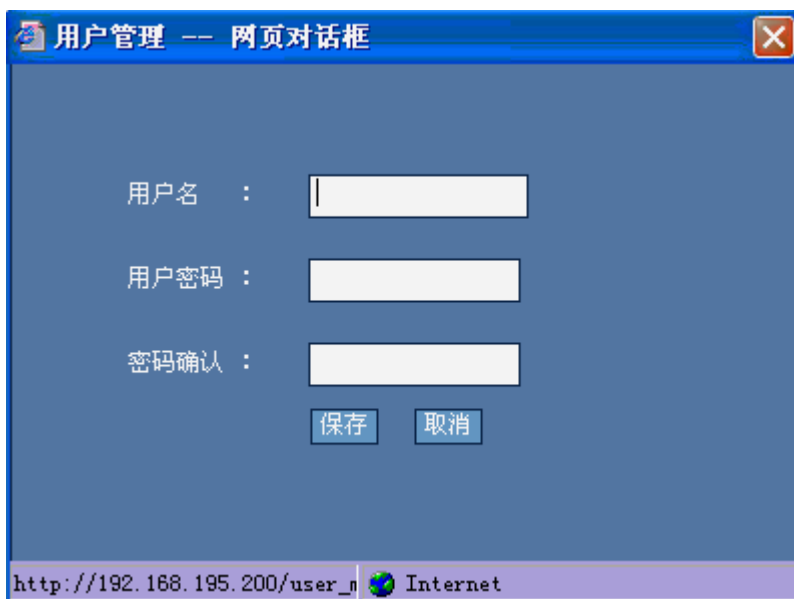
PC

Telnet

PC Tel

“ ”

1-88



“ ”

“ ”

“ ”

1-89

用户管理 -- 网页对话框

用户名 : admin

用户密码 :

密码确认 :

保存 取消

http://192.168.195.200/user_... Internet

“ ”

a

- Enable

Enable

“ ”

1-91



- Telnet

Telnet

“ ”

1.9.5 /

“ / ”

/

1-92 /

1.9.7

“ ”

1-94

TFTP TFTP
TFTP IP “ ”

1.9.8

“ ”

“ ”

1.10 WEB

WEB WEB enable

WEB Local Enable WEB WEB

- Local

```
config
```

```
Ruijie#configure
```

```
Enter configuration commands, one per line. End with CNIL/Z
```

```
WEB
```

```
Ruijie(config)#enable service web-server
```

```
WEB
```

```
Local
```

```
Ruijie(config)#http authentication local
```

```
15
```

```
Ruijie(config)#username admin password admin
```

```
Ruijie(config)#username admin privilege 15
```

```
IP
```

```
Ruijie(config)#interface vlan 1
```

```
Ruijie(config-if-VLAN 1)#ip address 192.168.100.1 255.255.255.0
```

- Enable

```
config
```

```
Ruijie#configure
```

```
Enter configuration commands, one per line. End with CNIL/Z
```

```
WEB
```

```
Ruijie(config)#enable service web-server
```

```
WEB
```

```
Enable
```

```
Ruijie(config)#http authentication enable
```

```
Enable
```

```
Ruijie(config)#enable password admin
```

```
IP
```

```
Ruijie(config)#interface vlan 1
```

```
Ruijie(config-if-VLAN 1)#ip address 192.168.100.1 255.255.255.0
```

- Local

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

```

Building configuration ..
Current configuration: 2014 bytes
!
version RGS 10.2(4), Release(55435) (Wed May 13 11:50:07 CST 2009 - ngcf32)
vlan 1
username admin password admin //WEB
username admin privilege 15 //WEB 15
no service password-encryption
ip http authentication local //WEB local
!
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

```

- Enable

```

Ruijie(config)#show running-config
Building configuration ..
Current configuration: 2014 bytes
!
version RGS 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
```