



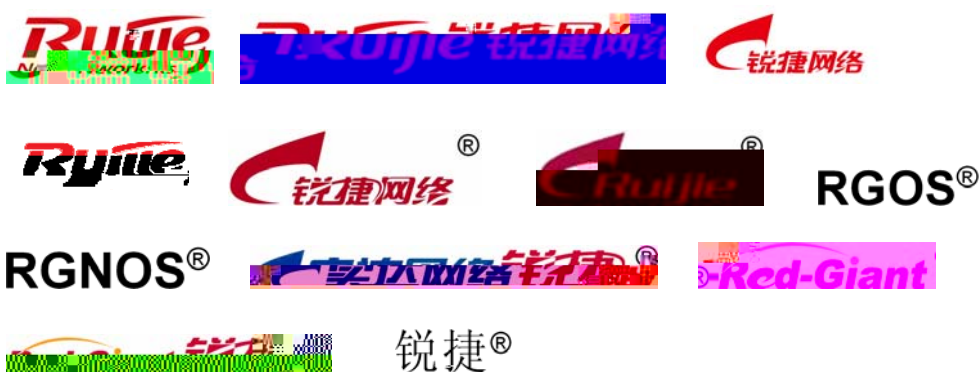
WEB

RG-S8600

RGOS 10.4(3b17)p4

V1.0

© 2013



Ä <http://www.ruijie.com.cn/>

Ä <http://webchat.ruijie.com.cn>

8:30 6 “ ”
ì 4Yc Â ðÀ G X V' Ê ¶

Äü

<http://www.M> i ncom.cn Ô

RGOS[®] 10.4 (3b17)p

3.

Ä

Ä

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1 WEB

WEB IE III
WEB WEB WEB IIWEB
WEB WEB IEIII

1.1

1.1.1

WEB WEB WEB III PC
IPAD
IE6.0 IE7.0 IE8.0 IE maxthon III
WEB
1024*768 1280*1024 1440*960
III

1.1.2

WEB III III
WEB III Local Enable
WEB III
IP III web III

1.2

III

1.2.1 Local

config

```
Ruijie#configure
Enter configuration commands, one per line. End with CNTL/Z.
```

WEB


```
Ruijie#configure
```

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

```
WEB
```

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

```
WEB          Enable
```

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

```
Enable
```

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

```
IP
```

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

```
Ruijie(config-if-VLAN 1)#ip address 192.168.195.200 255.255.255.0
```

```
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 192.168.195.200 255.255.255.0 //      IP
```

```
no shutdown
```

```
!
```

```
!
```

```
line con 0
```

```
line vty 0 4
```

```
login
```

```
!
```

```
!
```

```
end
```

```
WEB
```

```
Enable
```

```
Enable
```

1.3 WEB

IP http://192.168.195.200

1-1



1 2 4 III

1-2



WEB

1-3 WEB

2

2.1 IP 2 、 IPI I 5



IP

I L

III

2.2

ñ

9

...



VLAN III 4 4 VLAN VLAN III

1 1

2-4 VLAN

VLAN管理 -- 网页对话框

VLAN ID :

(1-4094)

VLAN 名称 :

(可选)

保 存

取 消

VLAN ID

VLAN

1

2

3

VLAN

VLAN

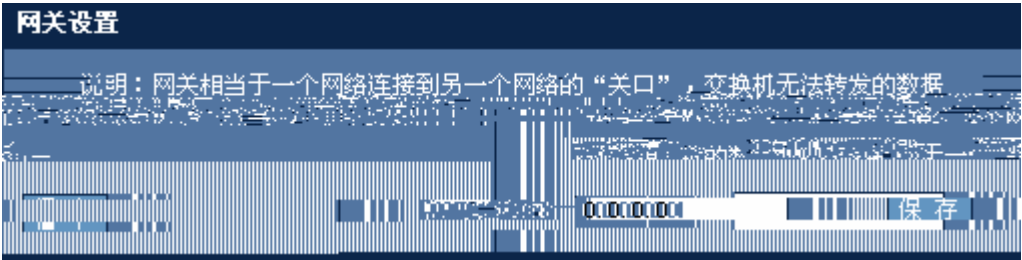
VLAN

9 / \$ 1

1

2

3



IP

IP 子网掩码 网关

2.4

子网掩码 网关

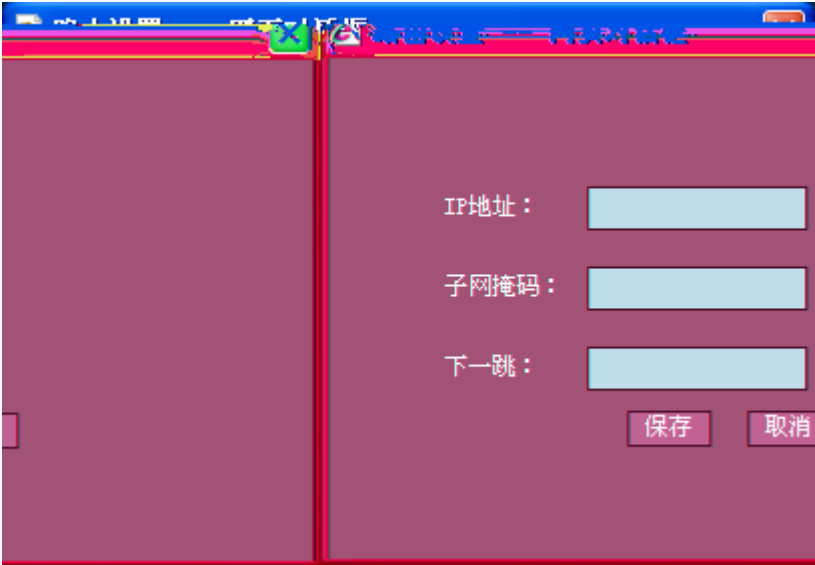
2-8

路由设置				
☐	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

子网掩码

2-9



IP 子网掩码 下一跳

2.5 VRRP

VRRP 组

VRRP

VRRP

 $\vdash \quad \mathbb{L}$

2-11 VRRP

VRRP设置 -- 网页对话框

接口： VLAN 1

组号： 1

IP地址：

通告发送间隔 (1-255秒)：

优先级 (1-254)：

启用抢占模式： ☒

被监视接口： 插入

保存 取消

4
VRRP

IP

VRRP

$\vdash$ $\mathbb{L}$
 III

$$\vdash \quad \mathbb{L}$$

III

VRRP

I L III

VRRP

III

2.6

I L III

2-12

端口镜像设置

注意：设置交换机的端口监控，监控端口与被监控端口不能是同一个端口。如果指定了同一端口，该端口将被配置成监控端口。

所有数据

所有数据

所有数据

所有数据

所有数据

所有数据

所有数据

所有数据

所有数据

所有数据

所有数据

☒ GigabitEthernet 0/1	所有数据	☐ GigabitEthernet 0/13	所
☐ GigabitEthernet 0/2	所有数据	☐ GigabitEthernet 0/14	所
☒ GigabitEthernet 0/3	所有数据	☐ GigabitEthernet 0/15	所
☒ GigabitEthernet 0/4	所有数据	☐ GigabitEthernet 0/16	所
☒ GigabitEthernet 0/5	所有数据	☐ GigabitEthernet 0/17	所
☐ GigabitEthernet 0/6	所有数据	☐ GigabitEthernet 0/18	所
☐ GigabitEthernet 0/7	所有数据	☐ GigabitEthernet 0/19	所
☐ GigabitEthernet 0/8	所有数据	☐ GigabitEthernet 0/20	所
☐ GigabitEthernet 0/9	所有数据	☐ GigabitEthernet 0/21	所
☐ GigabitEthernet 0/10	所有数据	☐ GigabitEthernet 0/22	所
☐ GigabitEthernet 0/11	所有数据	☐ GigabitEthernet 0/23	所
☐ GigabitEthernet 0/12	所有数据	☐ GigabitEthernet 0/24	所

删除端口监控

保存

 $\vdash \quad \mathbb{L}$

III

III 1.

$$\mathbb{L}$$

III

2.7

1.

$$\mathbb{L}$$

III

输入限速

输出限速

端口输入限速设置

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	输入速率限制 (0.1-1000000, 单位: 1000000)	瞬时速率限制 (0.1-1000000, 单位: 1000000)	
GigabitEthernet 0/1			GigabitEthernet 0/1
GigabitEthernet 0/2			GigabitEthernet 0/2
GigabitEthernet 0/3			GigabitEthernet 0/3
GigabitEthernet 0/4			GigabitEthernet 0/4
GigabitEthernet 0/5			GigabitEthernet 0/5
GigabitEthernet 0/6			GigabitEthernet 0/6
GigabitEthernet 0/7			GigabitEthernet 0/7
GigabitEthernet 0/8			GigabitEthernet 0/8
GigabitEthernet 0/9			GigabitEthernet 0/9
GigabitEthernet 0/10			GigabitEthernet 0/10
GigabitEthernet 0/11			GigabitEthernet 0/11

保存

取消全部输入限速

1)

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		
GigabitEthernet 0/2		
GigabitEthernet 0/3		
GigabitEthernet 0/4		
GigabitEthernet 0/5		
GigabitEthernet 0/6		
GigabitEthernet 0/7		
GigabitEthernet 0/8		
GigabitEthernet 0/9		
GigabitEthernet 0/10		
GigabitEthernet 0/11		
GigabitEthernet 0/12		

保存

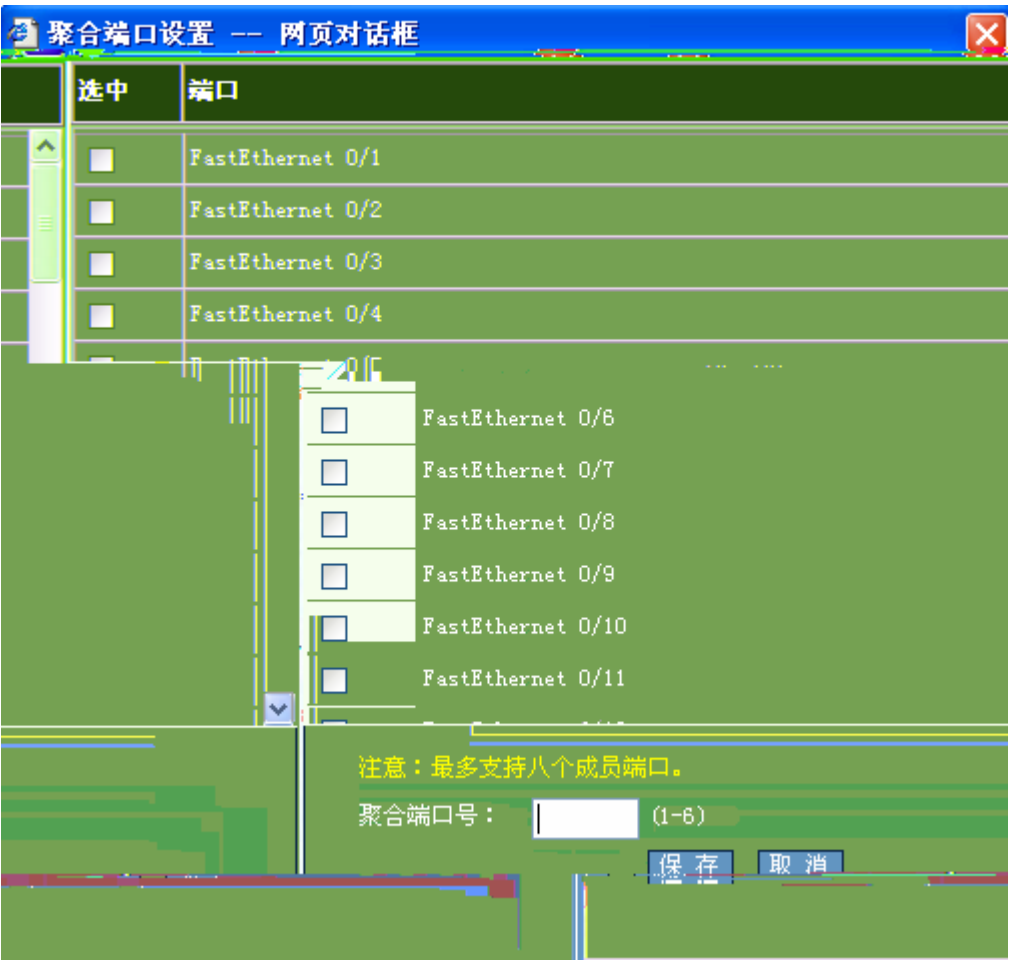
取消全部输出限速



I L III

I L

2-16



↑ ↓

III

↑ ↓ III

2.9

↑ ↓ III

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：

Up

双工：

Half

速率：

10

流控：

On

描述：

保存

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	-

刷新

I L III

III

2.10 DHCP

I DHCP L III

DHCP

2-18 DHCP

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 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 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 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 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

[illegible]

The screenshot displays the "DHCP服务器设置" (DHCP Server Settings) window. At the top, there's a title bar with the same text. Below it, the "DHCP服务器:" label is followed by a text input field containing "0.0.0.0". To the right of this field is a button labeled "保存" (Save). The main area of the window features a large blue rectangular box, likely representing a network diagram or map. On the left side of this area, there's a vertical sidebar with a small square icon and the text "DHCP服务器". At the bottom of the window, there's a status bar with various icons and text, including "全选" (Select All) and "删除" (Delete).

The screenshot shows the 'DHCP服务器设置' (DHCP Server Settings) window. At the top, there's a title bar. Below it, the 'DHCP服务器:' label is followed by a text box containing '0.0.0.0'. To the right of this is a '保存' (Save) button. The main area of the window has a dark blue header with a square icon and the text 'DHCP服务器'. The body of the window is mostly white and empty, suggesting a list or table where DHCP leases would be displayed. On the far right edge, there are vertical scroll bars. At the bottom of the window, there's a status bar with various icons and text, including what appears to be a file explorer icon and some system information.

The screenshot shows a web-based DHCP server management interface. At the top, a dark blue header bar contains the text "DHCP服务器" in white. Below this is a large, empty table area with a light green header and a light blue body. To the right of the table is a vertical blue sidebar. At the bottom of the interface, there are two buttons: "全选" (Select All) and "删除" (Delete).

	/	DHCP			
/	DHCP		1	£	III
DHCP					
	DHCP		1	£	III
			1	£	III

	/	DHCP			
/	DHCP		1	£	III
DHCP					
	DHCP		1	£	III
			1	£	III

	/	DHCP			
/	DHCP		1	£	III
DHCP					
	DHCP		1	£	III
			1	£	III

	/	DHCP			
/	DHCP		1	£	III
DHCP					
	DHCP		1	£	III
			1	£	III

	/	DHCP			
/	DHCP		1	£	III
DHCP					
	DHCP		1	£	III
			1	£	III

	/	DHCP			
/	DHCP		1	£	III
DHCP					
	DHCP		1	£	III
			1	£	III

	/	DHCP			
/	DHCP		1	£	III
DHCP					
	DHCP		1	£	III
			1	£	III

	/	DHCP			
/	DHCP		1	£	III
DHCP					
	DHCP		1	£	III
			1	£	III

	/	DHCP			
/	DHCP		1	£	III
DHCP					
	DHCP		1	£	III
			1	£	III

	/	DHCP			
/	DHCP		1	£	III
DHCP					
	DHCP		1	£	III
			1	£	III

	/	DHCP			
/	DHCP		1	£	III
DHCP					
	DHCP		1	£	III
			1	£	III

	/	DHCP			
/	DHCP		1	£	III
DHCP					
	DHCP		1	£	III
			1	£	III

2.11 DHCP Snooping

2.11 DHCP Snooping

2.11 DHCP Snooping

2.11 DHCP Snooping

2.11 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

保存

DHCP Snooping 信任端口设置

端口：

FastEthernet 0/1

保存

DHCP Snooping配置信息

	端口	信任端口

DHCP Snooping

DHCP Snooping	DHCP Snooping	MAC	I	E	III
DHCP Snooping			I	E	III
	I	E			III

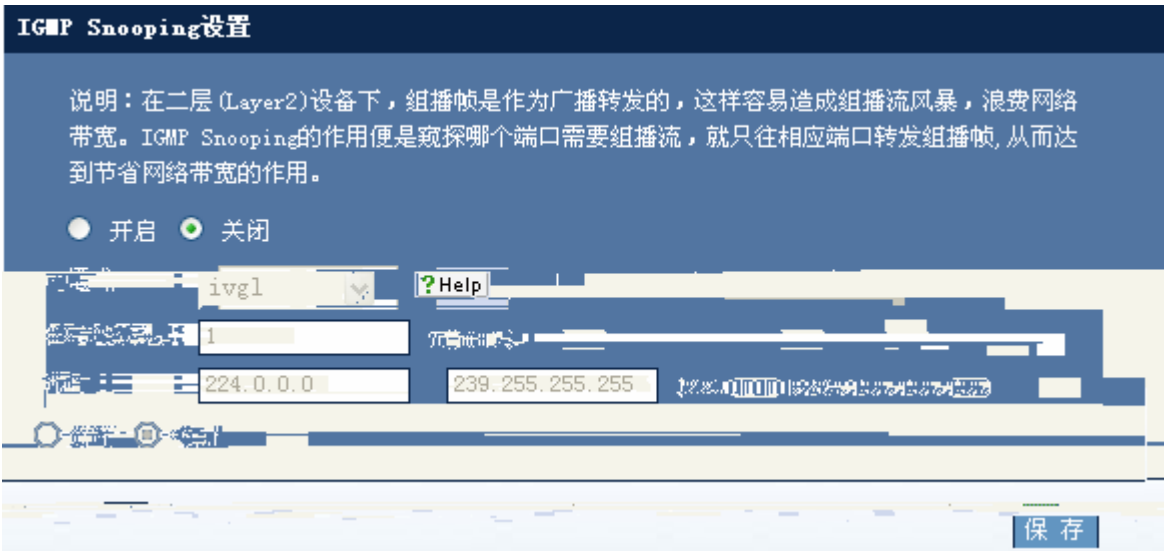
2.12 IGMP Snooping

I IGMP Snooping L

III

IGMP Snooping

2-20 IGMP Snooping



IGMP Snooping

I L

ivgl 4

svgI 4 ivgl-svgI

svgI 4 ivgl-svgI

4 IP

III

I L

III

IGMP Snooping

DHCPv6 Server配置DHCPv6绑定信息

DHCPv6信息

地址池名	Domain Name	DNS Server	模式
------	-------------	------------	----

新建全选删除修改

保存

DHCPv6应用剪贴板

端口: GigabitEthernet 0/1DHCPv6信息: 启用快速提交(可选): 优先级(可选): (0-255)

快速提交	优先级	端口	DHCPv6
------	-----	----	--------

全选删除

1) DHCPv6 Server

DHCPv6 Server

DHCPv6 Server

DHCPv6

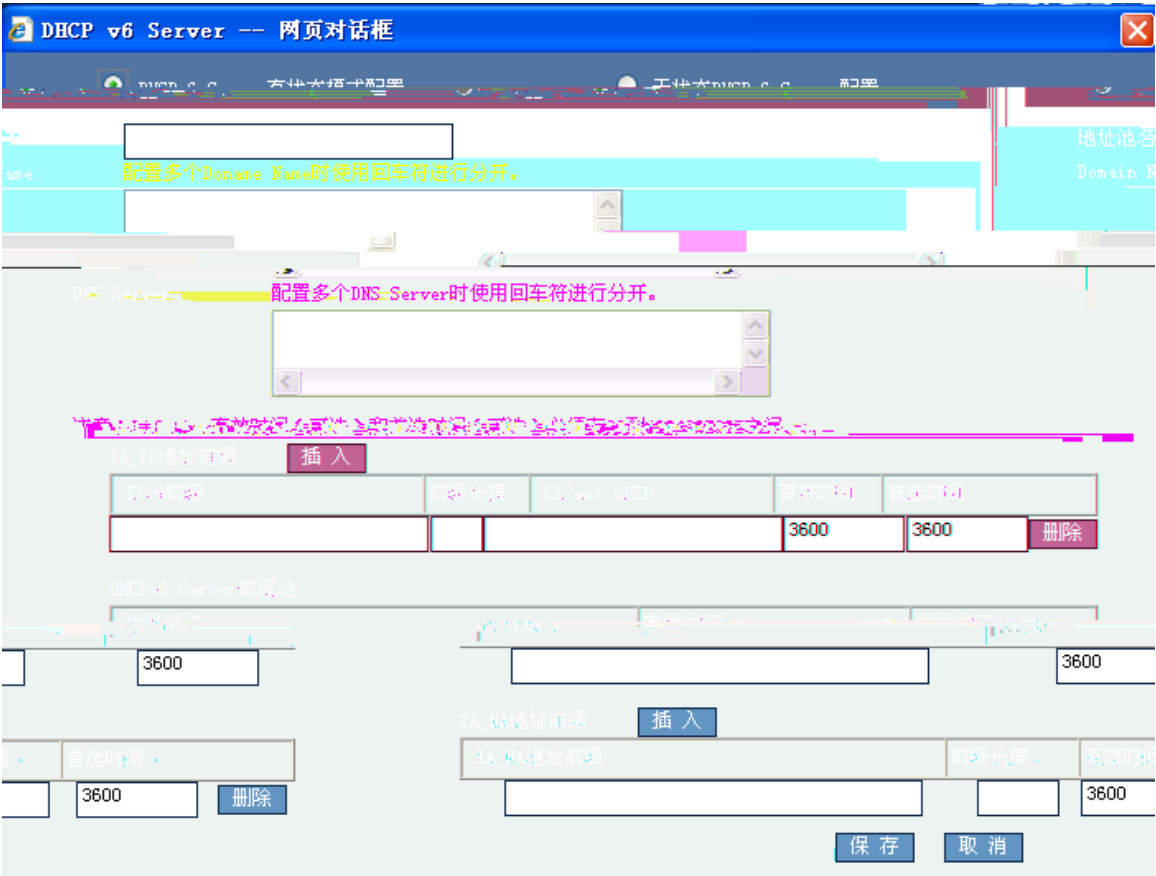
III

DHCPv6

DHCPv6

2-22

DHCPv6



DHCPv6

DHCPv6

III

□

DNS

A_NA □ IA_TA □ IA_PD

□ □

IA

□ □

IA

III

□ □

III

DHCPv6 Server

2-23

DHCPv6 Server



□ DNS

□ □

III

DHCPv6 Server

2.14 DHCPv6

I DHCPv6 L III

DHCPv6

2-26 DHCPv6



2) DHCPv6

I L

I L III

3) DHCPv6

2-27 DHCP v6

DHCPv6

III

1.

L

1.

 $\mathbb{L}$

III

2.15 STP

1. STP

 $\mathbb{L}$

III

STP

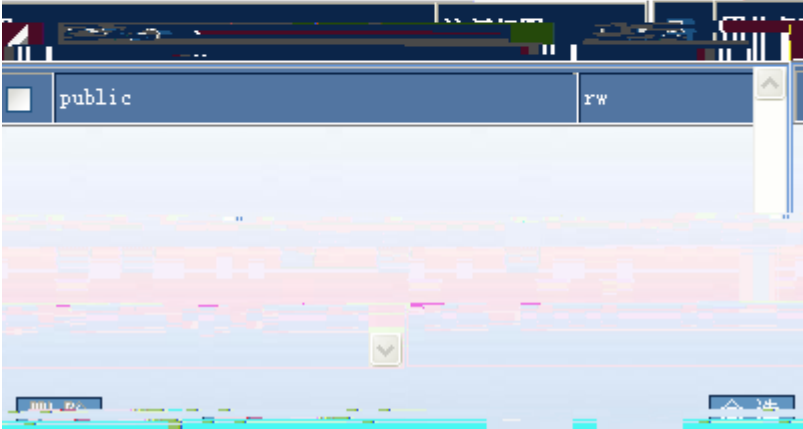
2-28 STP



I	STP	L	I	L	III	STP	MSTP	MSTP
	III					BPDU	I	L
				III				III
	MSTP		MSTP		VLAN	-VLAN		I
			-VLAN	III				L

2.16 SNMP

I	SNMP	L	III
SNMP			
2-29	SNMP		



SNMP 1 1 SNMP 1 4
1 1 III SNMP 1
1 1 III
1 1 III

3.1 ARP

I	ARP	II	III
ARP			
3-1	ARP		

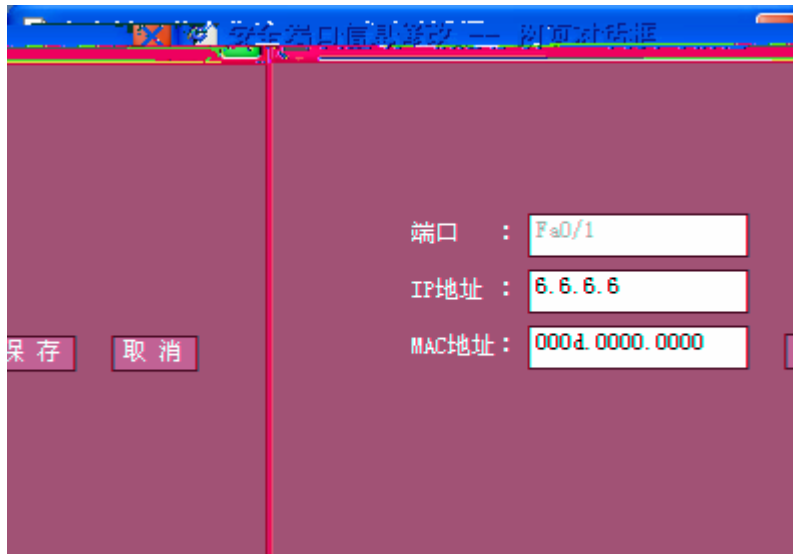


I	II	III
I	II	III

3.2 ARP

I	ARP	II	III
ARP			
3-2	ARP		

3-3



3.3 APR

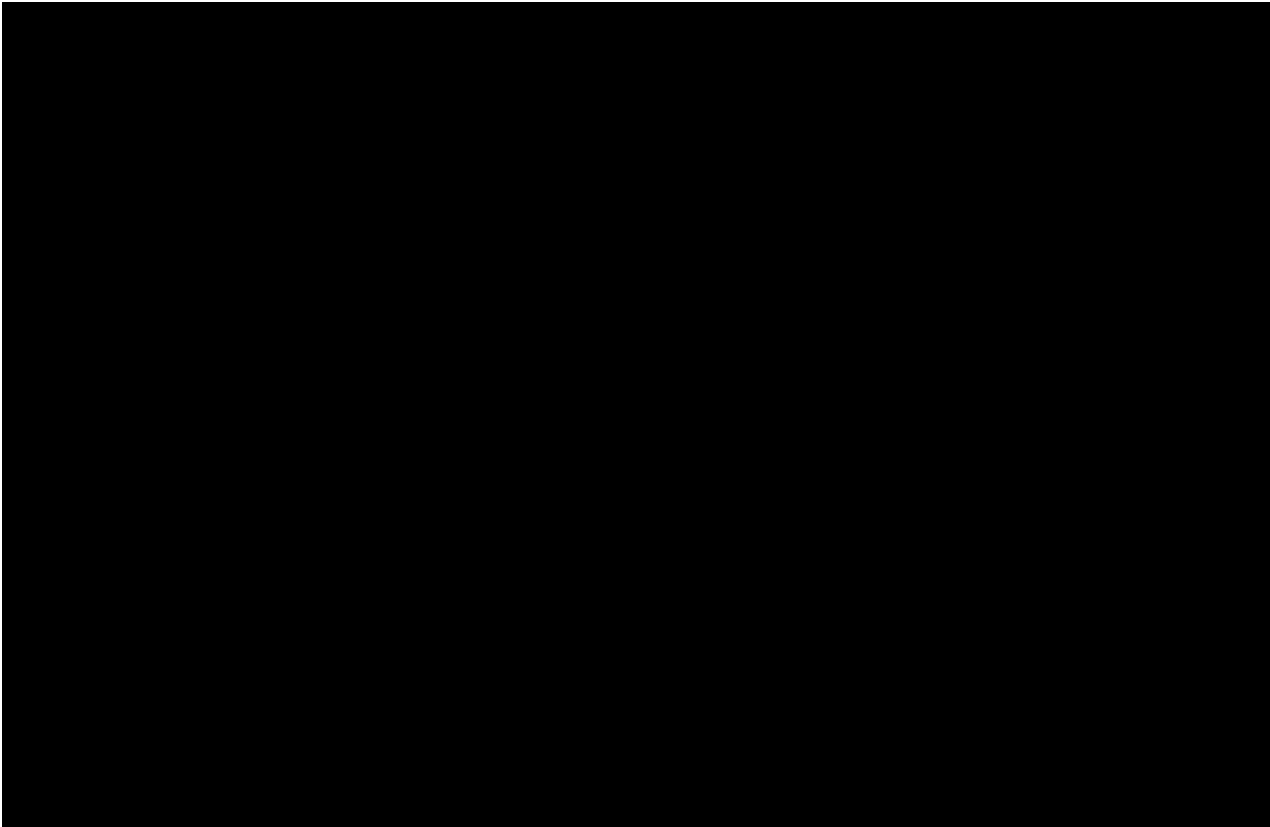
ARP

3-4 ARP



III

3.4 ACL



ACL

ACL
ACL ACEIII
ACL 1 Ł
ACL
ACL
IP
3-6 IP

ACL
ACE 1 Ł
1 IP Ł

ACL 1 Ł III
ACL III
IP

1. 2. 3. 4. III

ID

III

IP

IP

9

IP

1.

L

III

IP

1.

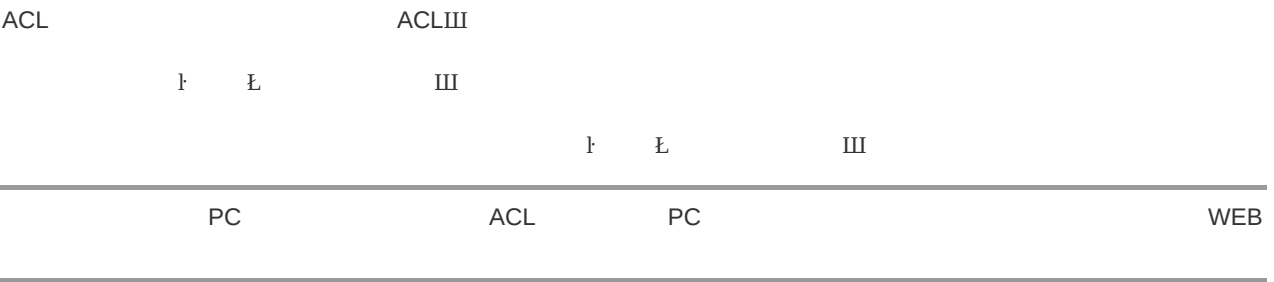
IP

 $\mathbb{L}$

IP

3-7

IP



4 QOS

4.1

I L III

4-1

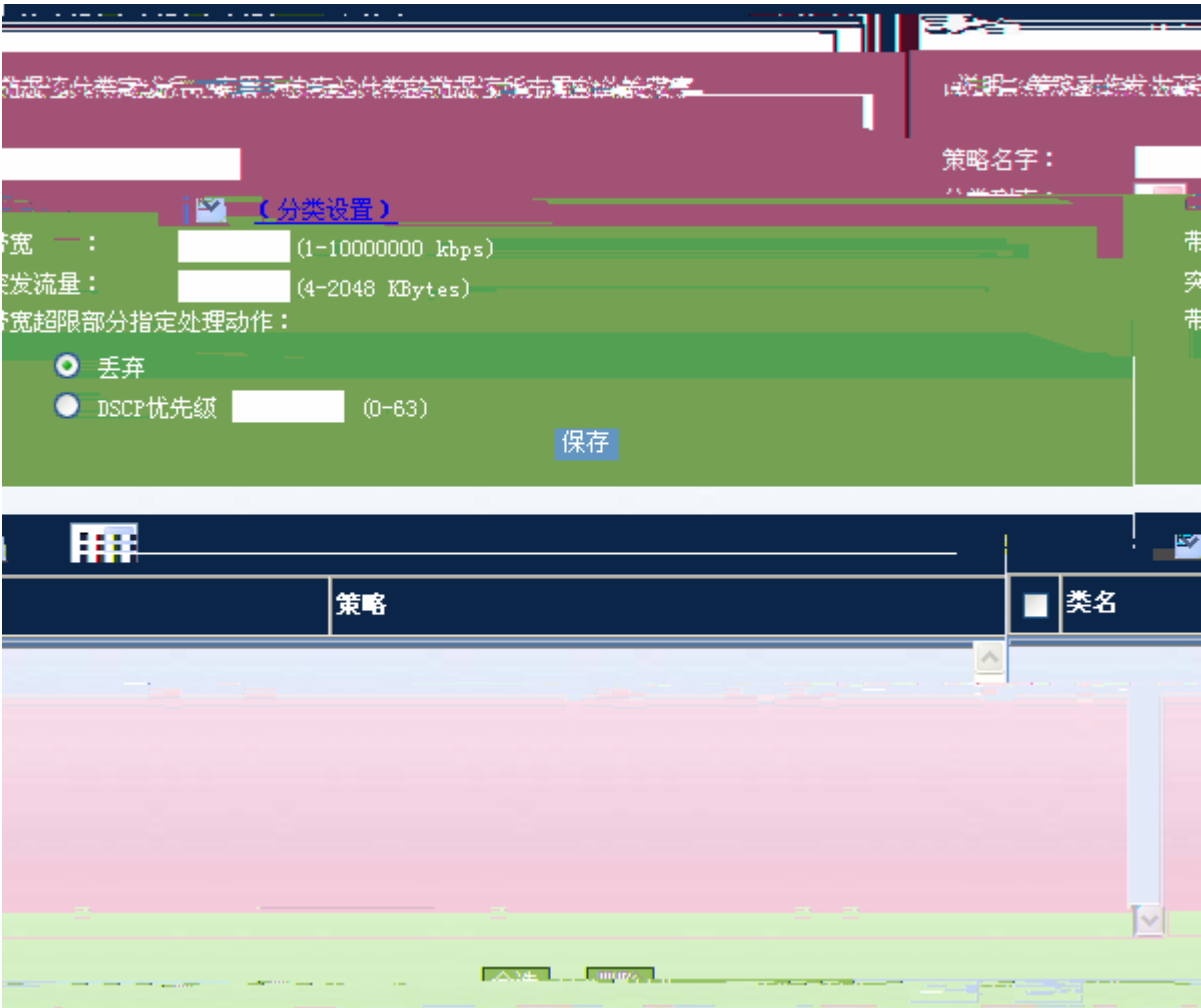
分类设置

说明：分类设置采用ACL的匹配规则识别出符合某类特征的数据流，并对该数据流进行标记。

类名：

ACL列表： [\(ACL设置\)](#)

■ 类名	ACL



III

III

III

III

DSCP

III

I L

III

I L

III

I L

III

4.3

I L

III

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：

FastEthernet 0/1

策略列表：

[（策略设置）](#)

限速方向：

☒ 输入限速

☐ 输出限速

保存

	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	-	-	-	-

全选

删除

III

III

III

I

L

III

I

L

III

5

5.1

I L III

5-1 M

5-1

当前配置

Building configuration...

Current configuration : 12931 bytes

!

version RGNOS 10.2.00(3), Release(30355)

23195A44470348C)

!

!

!

vlan 1

name vlan1

!

vlan 2

!

vlan 3

!

vlan 4

!

vlan 5

!

vlan 6

!

vlan 7

!

(Tue Mar 11 19:23:04 2008 -

5.3

I L III

5-3

端口状态

端 口	状 态	Vl an	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

5-2

5.4

I L III

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%

5.5

I L III

5-5

端口统计信息

注意：选择“All Ports”将把所有接口的统计信息清零。

端口：

注意：选择“All Ports”将把所有接口的统计信息清零。

端口：

端口:

端口:

[illegible]

刷新

5.6

I I I

5-6

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.
*Feb 28 06:43:52: %ARPGUARD-4-SCAN: ARP scan was detected.
```

1. **Identify the main components of the system.**
 2. **Define the scope and objectives of the study.**
 3. **Review the literature related to the topic.**
 4. **Develop a methodology for data collection and analysis.**
 5. **Present the results and discuss their implications.**
 6. **Conclude the study and provide recommendations.**

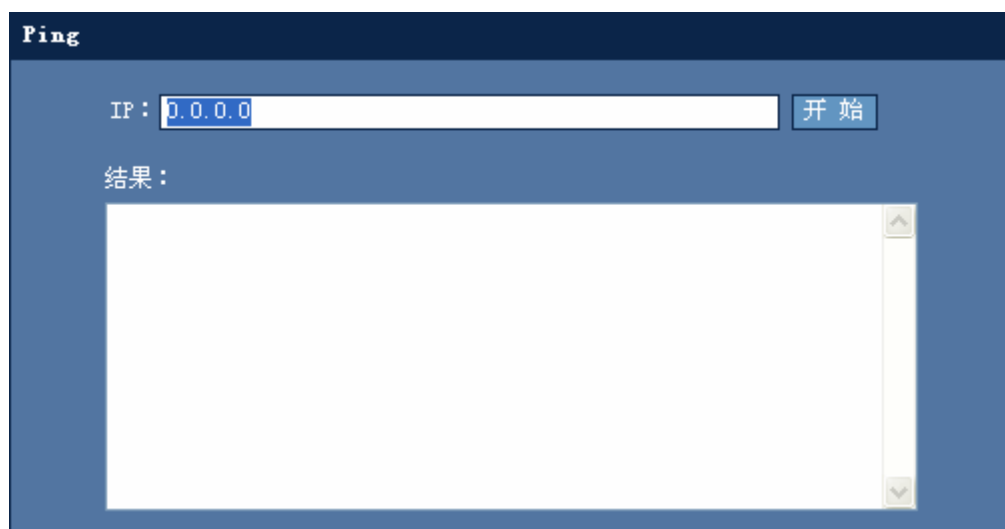
6

6.1 Ping

I Ping L III

Ping

6-1 Ping



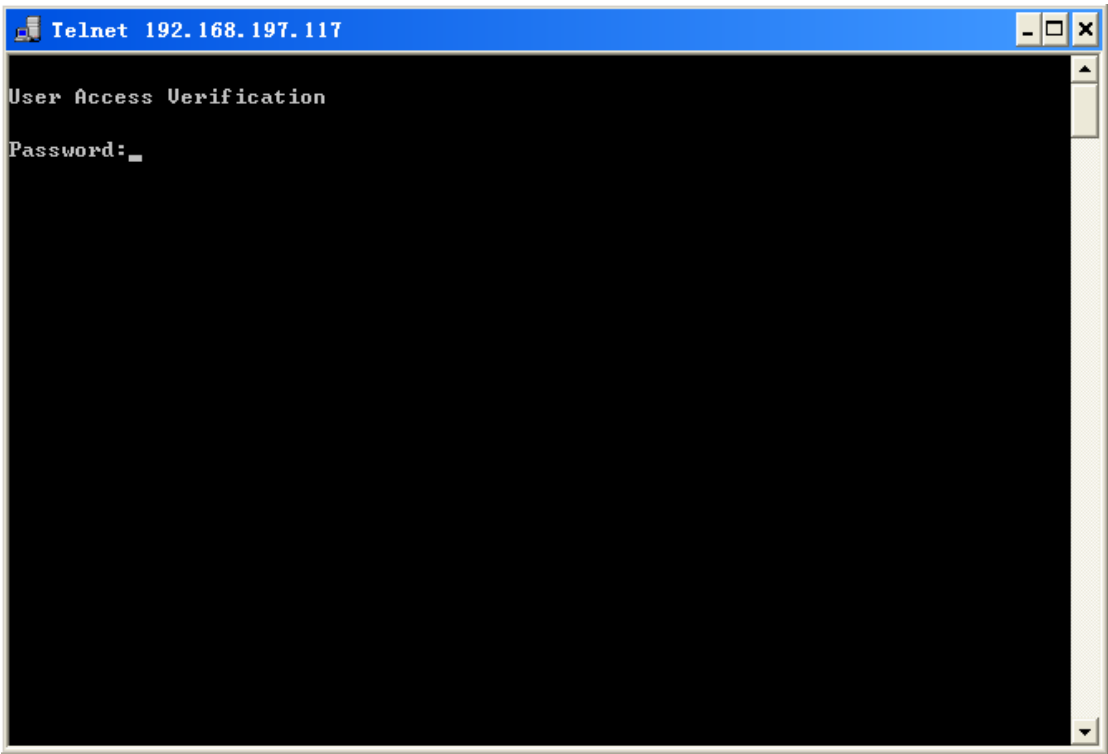
IP I L IP Ping III

6.2 Telnet

I Telnet L III

Telnet

6-2 Telnet



1 Telnet 2 Telnet 3 III 4 PC 5 Telnet 6 PC 7 Telnet 8 III

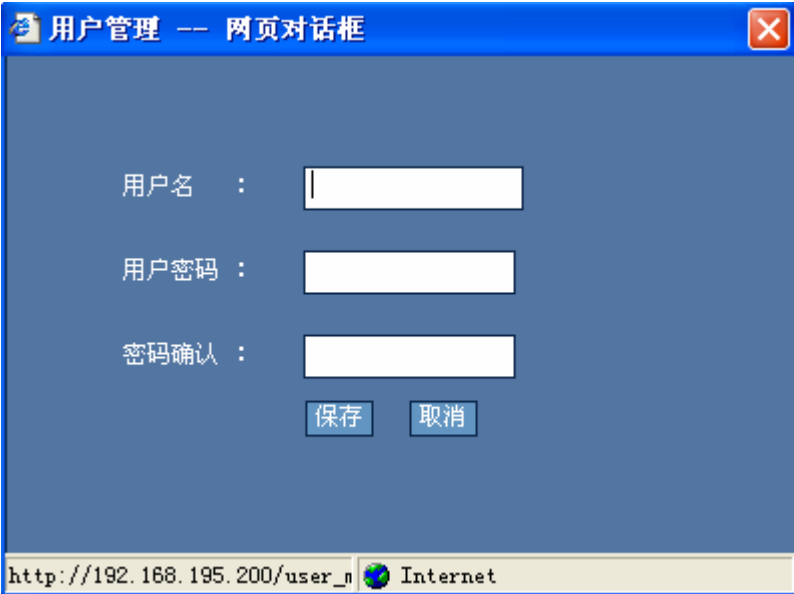
6.3

1 2 3 III

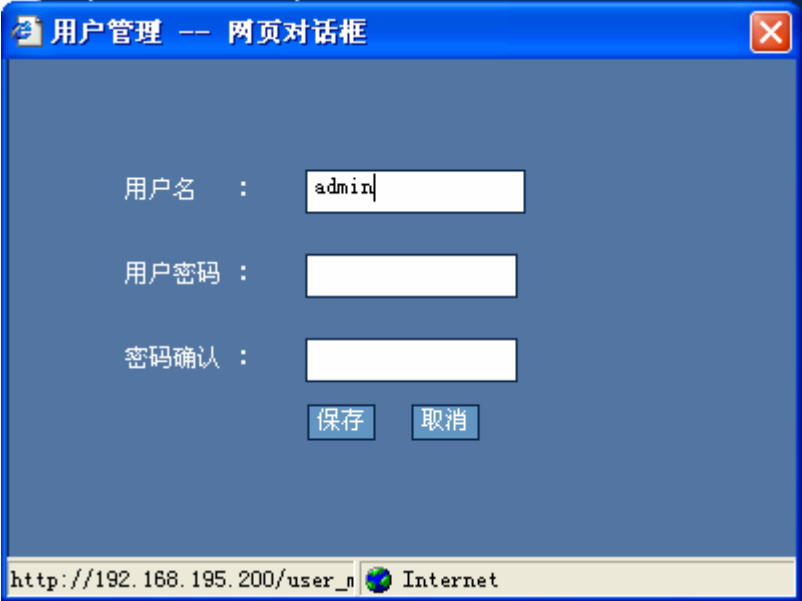
6-3



6-4



6-5



6.4

I L III

6-6

修改Enable口令

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。

新口令 :

确认新口令 :

保 存

修改Telnet登录口令

新口令 :

确认新口令 :

保 存

Enable

Enable I L III

6-7



III

Telnet

Telnet I III

6.5 /

I / I III

/

6-8 /



4	config.text	TFTP	IP	TFTP	1	2
III						

6.6 WEB

1 WEB 2 III

WEB

6-9 WEB

WEB端口设置

注意：修改WEB端口后，请用新端口重新登录。如果要使用80端口，请直接单击“使用默认端口按钮”。

指定WEB端口： (1025-65535)

保 存

使用默认端口

	1	2	III	III	8080
IP	192.168.1.1	http://192.168.1.1:8080	III	1	2
	http://192.168.1.1	III			

6.7

1 2 III

6-10



TFTP III TFTP

TFTP