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RGOS 10.4 (3b103)

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

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

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

7× 24

4008-111-000

<http://bbs.ruijie.com.cn/portal.php>

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

4008111000@ruijie.com.cn

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Web IE Firefox Chrome

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Web IE Firefox Chrome

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HTTPS TLS1.0

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Web Web Web Web Web
IE Firefox Chrome Safari

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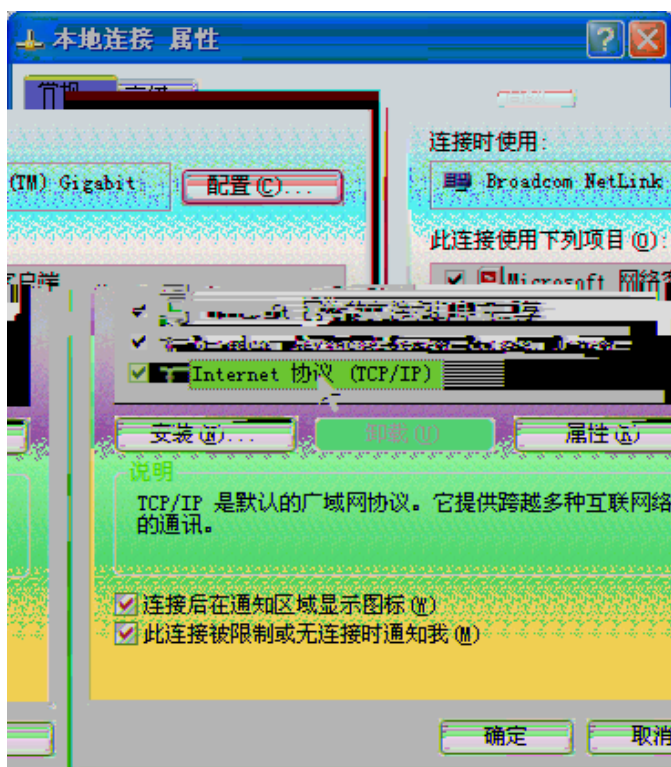
Web
Web
IP





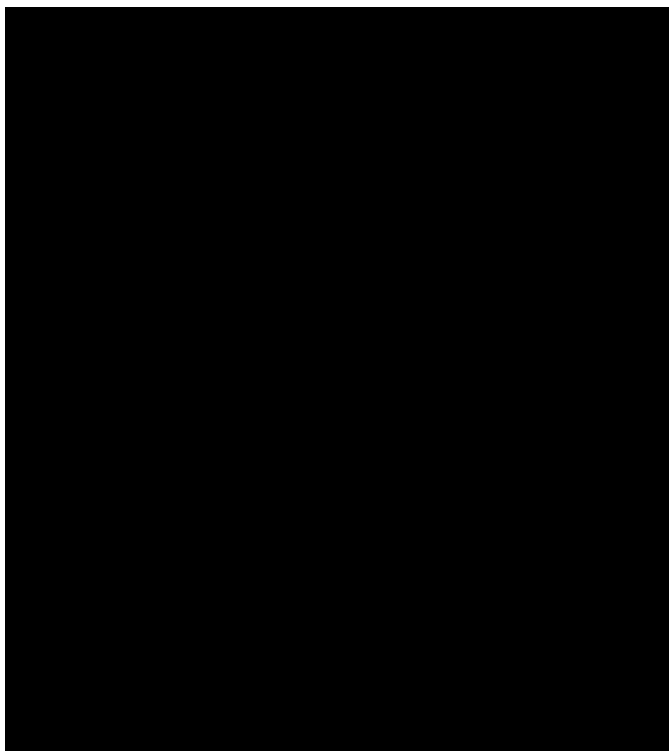
" " " " " Internet TCP/IP "

1-2



" " PC IP
 " Internet TCP/IP " " IP " " IP " 192.168.1.xxx xxx
 2 254 " " 255.255.255.0 " " 192.168.1.1 IP

1-3



⚡ IP 192.168.1.1 PC IP 1, " "

PC

PC " " -> " " -> " cmd" -> "

Ping Ping 192.168.1.1

1-4

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<1ms TTL=64

Reply from 192.168.1.1: bytes=32 time<1ms TTL=64

Reply from 192.168.1.1: bytes=32 time<1ms TTL=64

Reply from 192.168.1.1: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.1.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

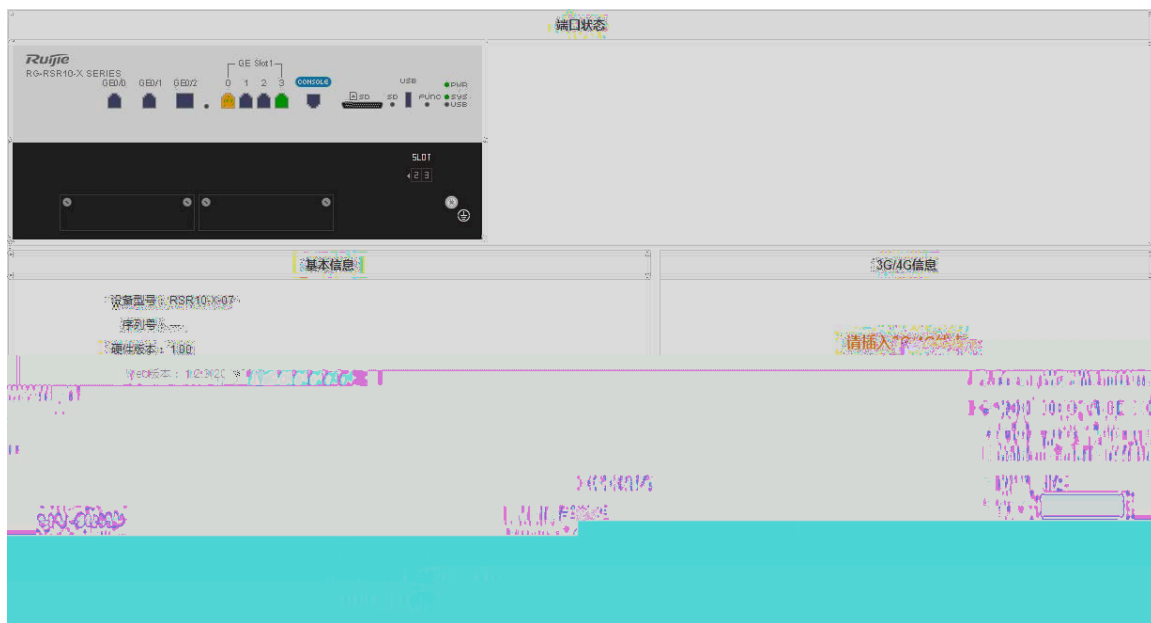
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

1-5



1-7:

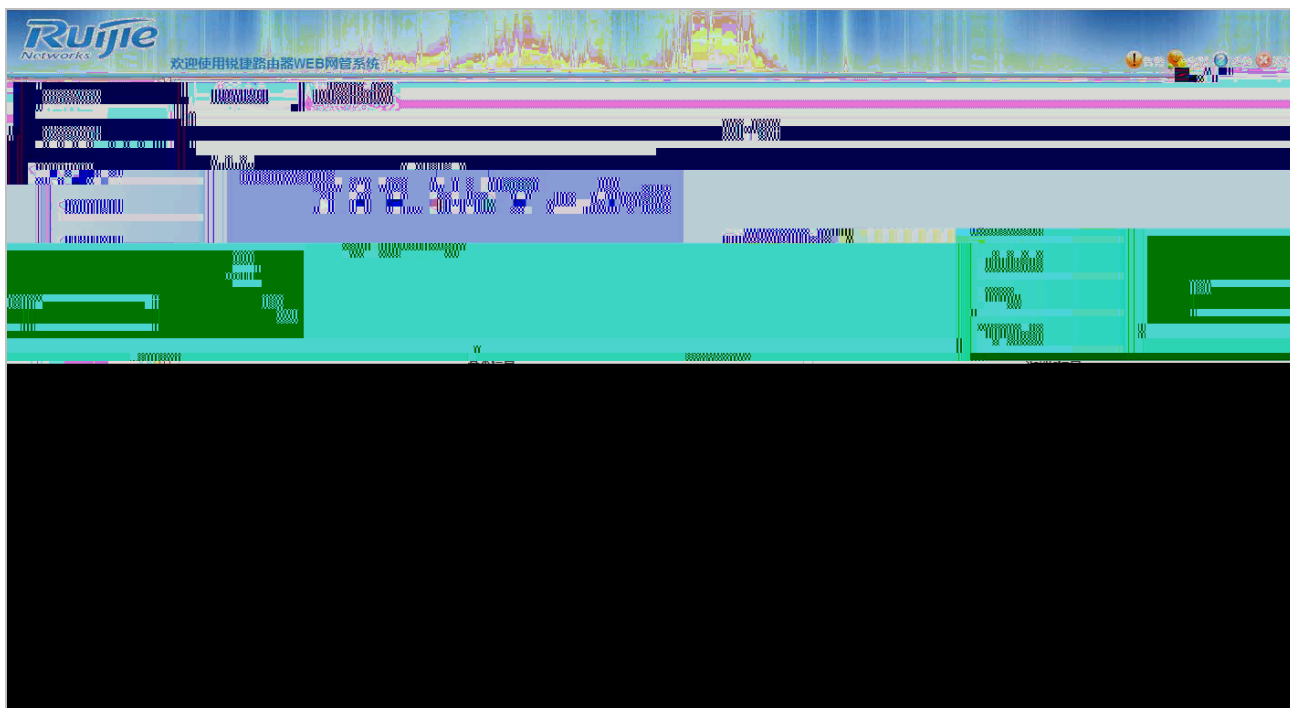


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RSR Web 1-8

1-8 Web



1-8Web

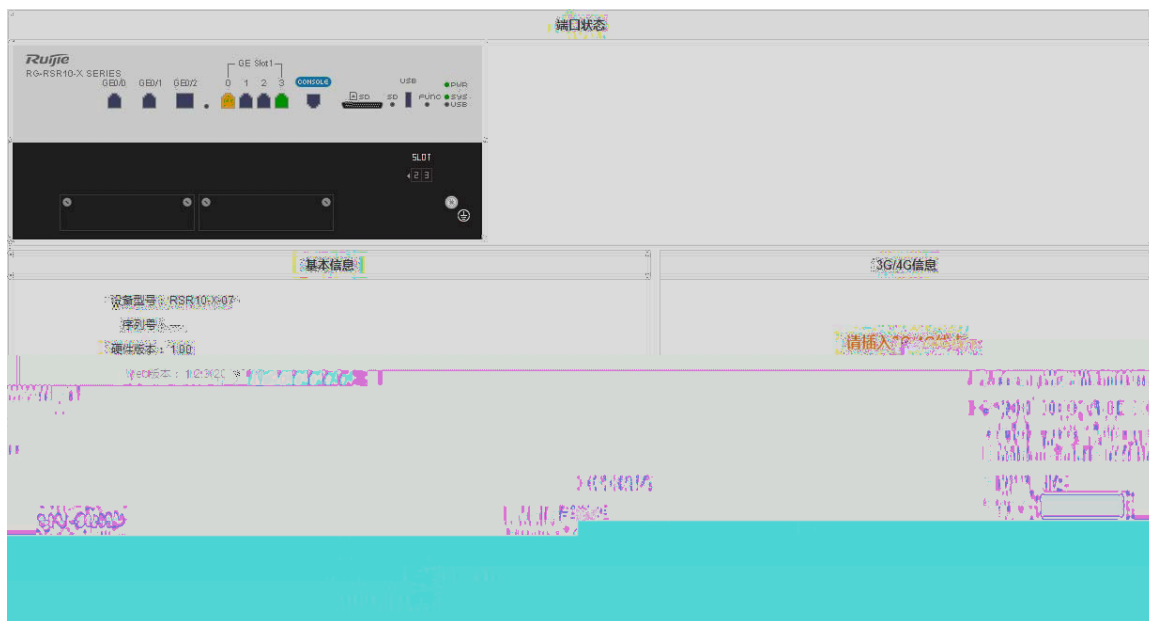
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CPU

Web

1-9



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Web

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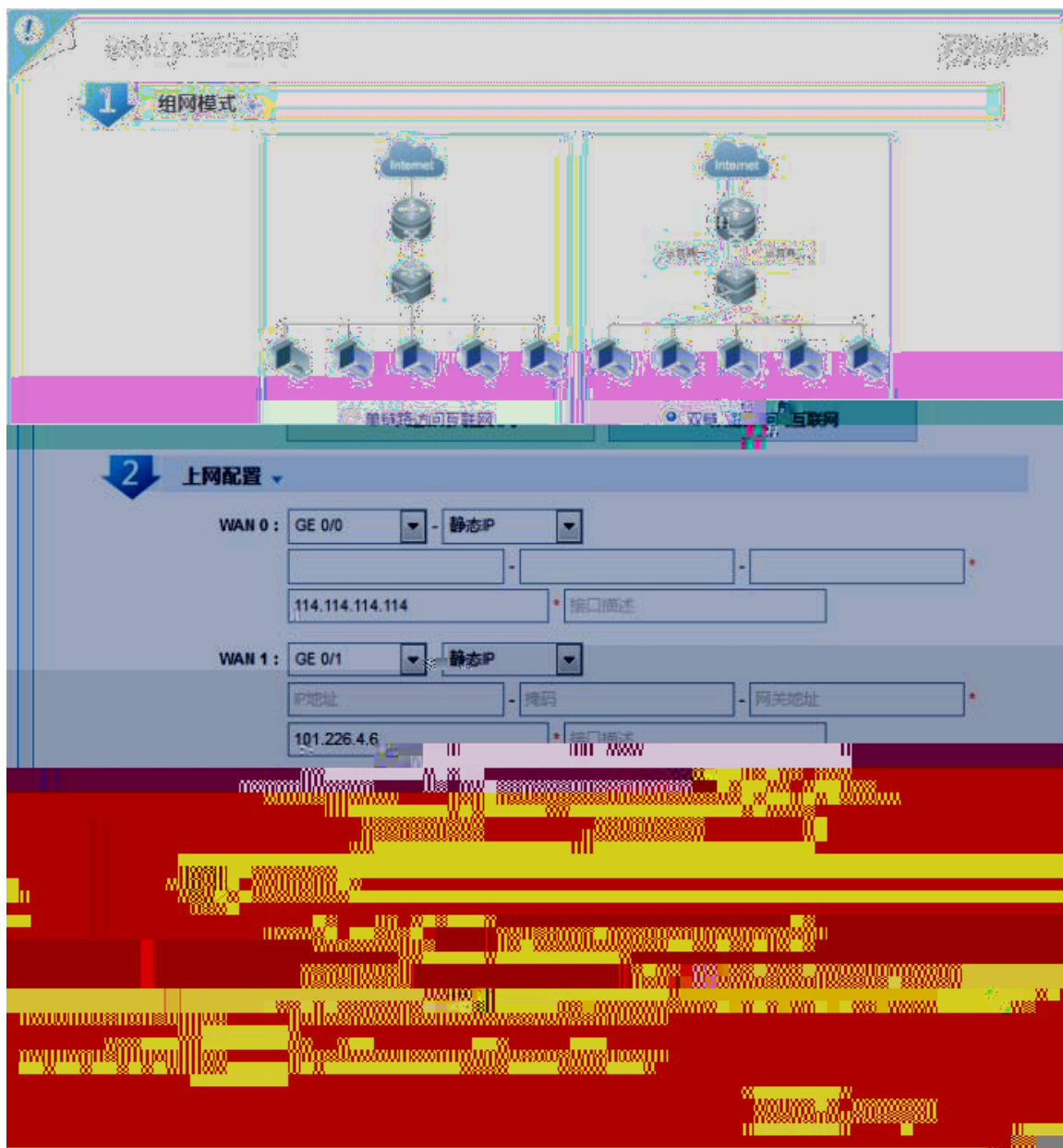
IP /Mask PPPoE(ADSL)

1-10



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1-11



IP /

DNS

1-2 DNS

DNS

DHCP

IP

IP

PC

IP

IP /

IP

IP IP

LAN IP

Web 80 Web URL <http://192.168.1.1:8088/index.htm>

URL " 8088" Web Web

Telnet Telnet Telnet

ARP ARP ARP ARP

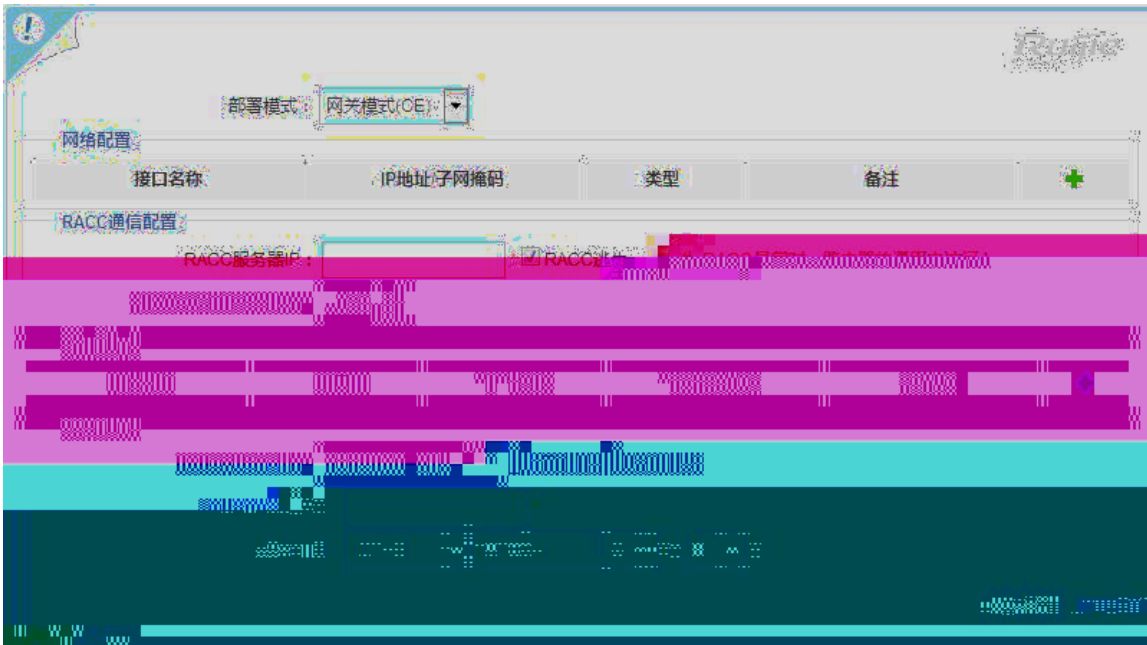
600 10 3600 1

ARP ARP

ARP 1

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1-13



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PE IP
IP

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RACC IP
RACC
RACC IP

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RLOG RACC
PC PC
PC :

MCE Multi-VPN-Instance CE CE CE
CE

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RACC IP

PE IP

IP

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RACC

RACC IP

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RLOG

RACC

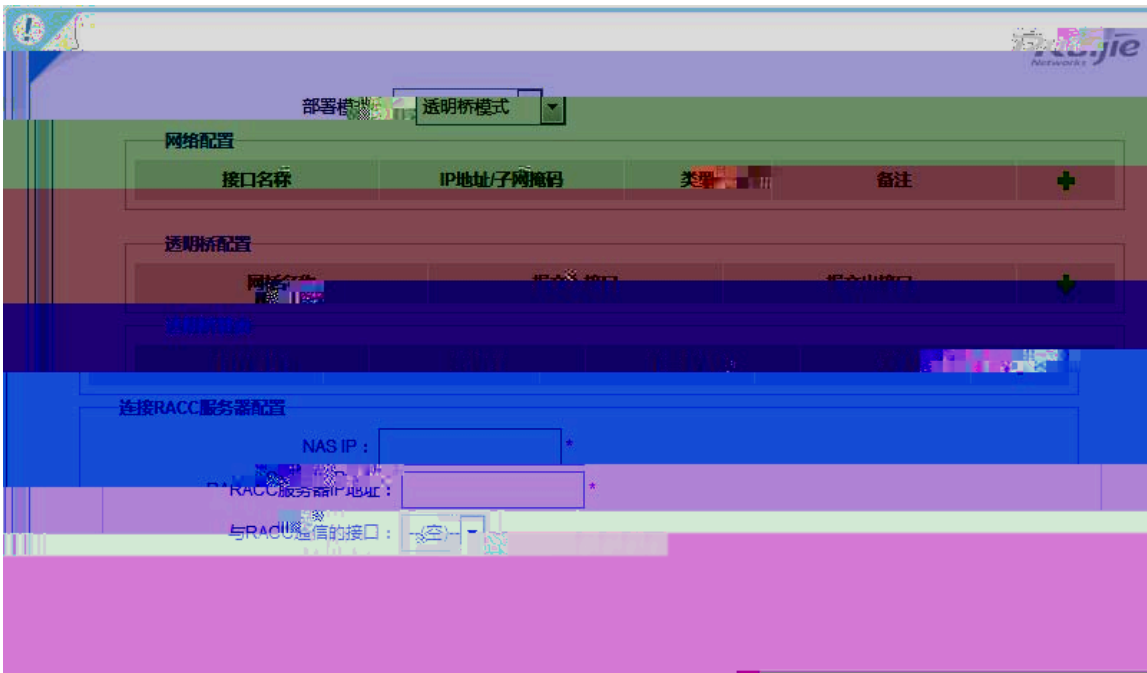
PC

PC

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PC

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VLAN VLAN

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RACC IP RACC

RACC IP

RACC

RACC IP

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RACC

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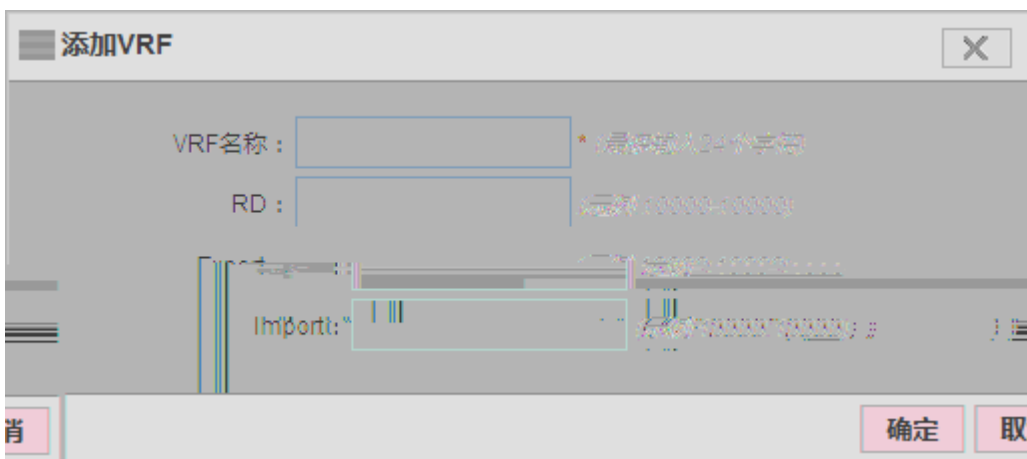
RLOG RACC

PC PC :

PC



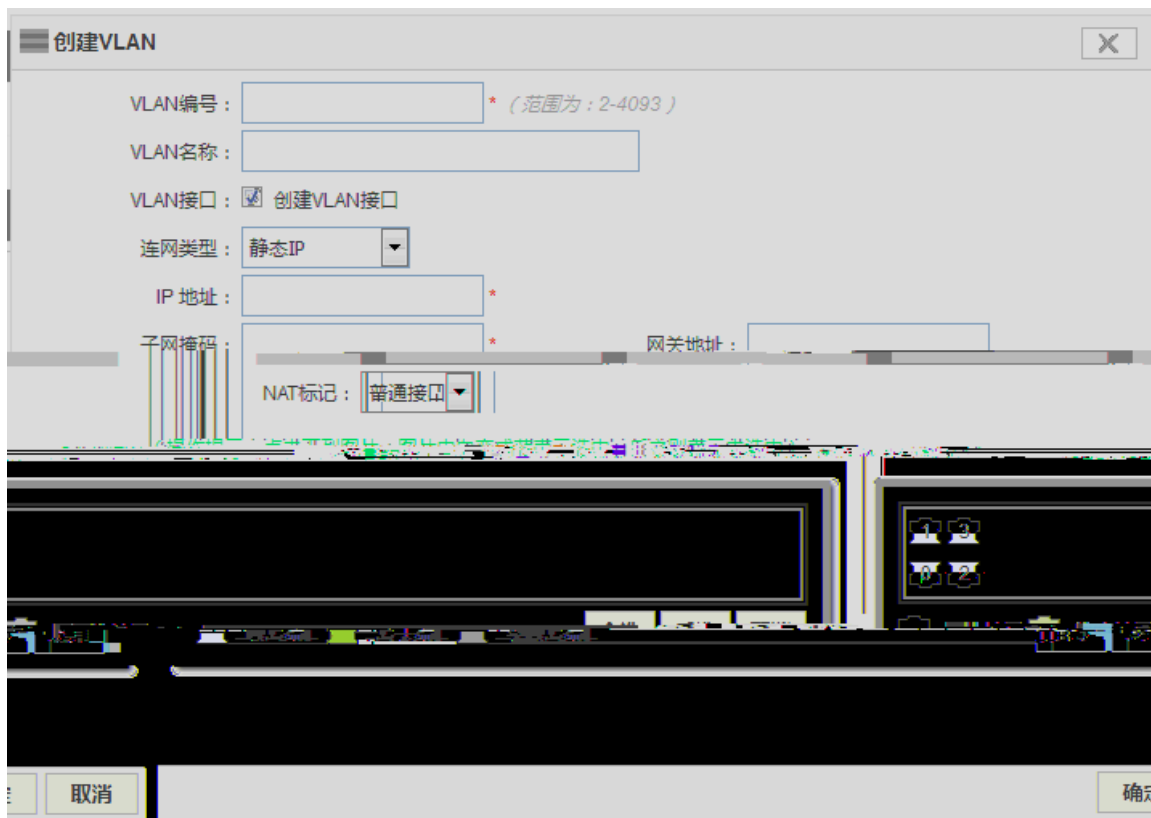
1-20 VRF



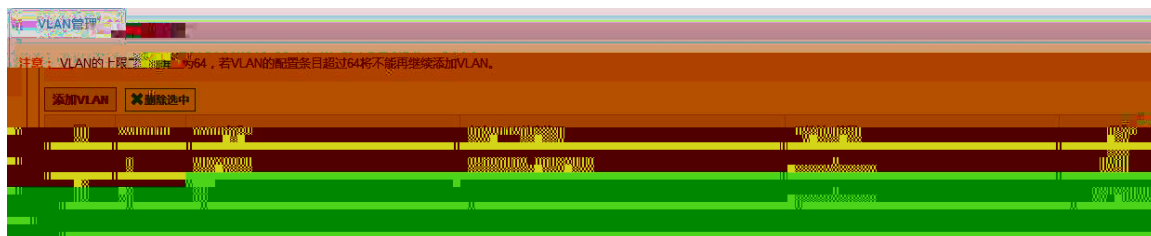
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1-22



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VLAN

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	VLAN ID	Trunk	PC
Access			
down	up		
TRUNK	VLAN	VLAN	
ACCESS	VLAN	VLAN	PC

B · Ò / L

NAT

up
IP

down

IP PPPoE

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VLAN

VLAN

p

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1-28





IP IP IP

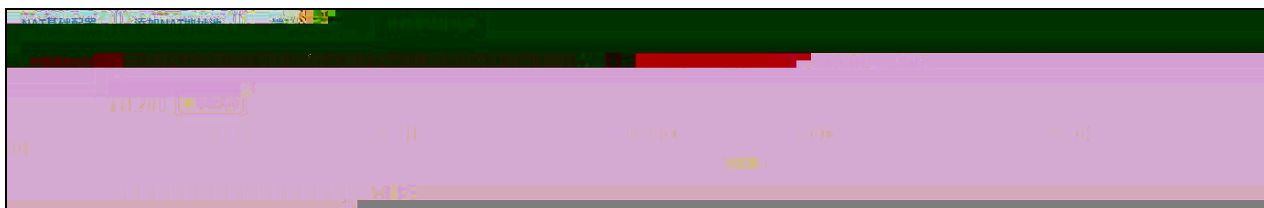
IP IP IP

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IP + IP +

1-30

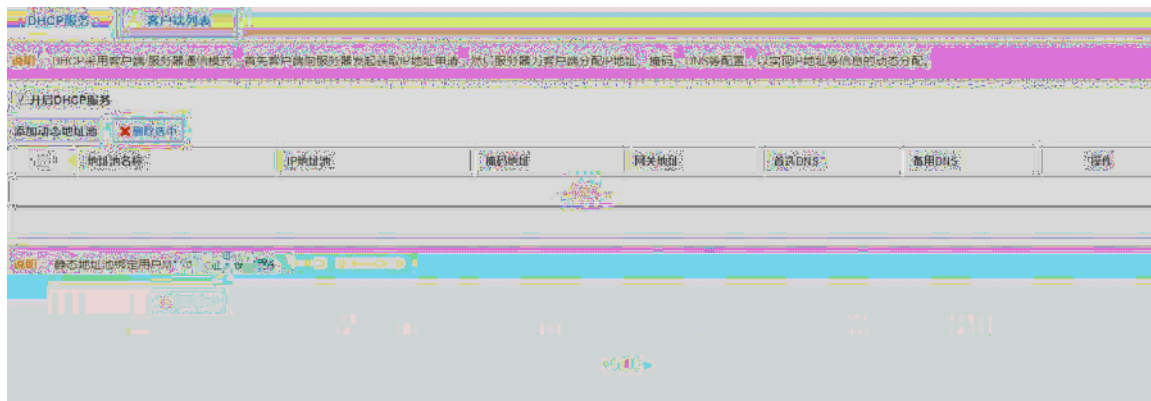


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DNS Ping DNS IP DNS

1-31

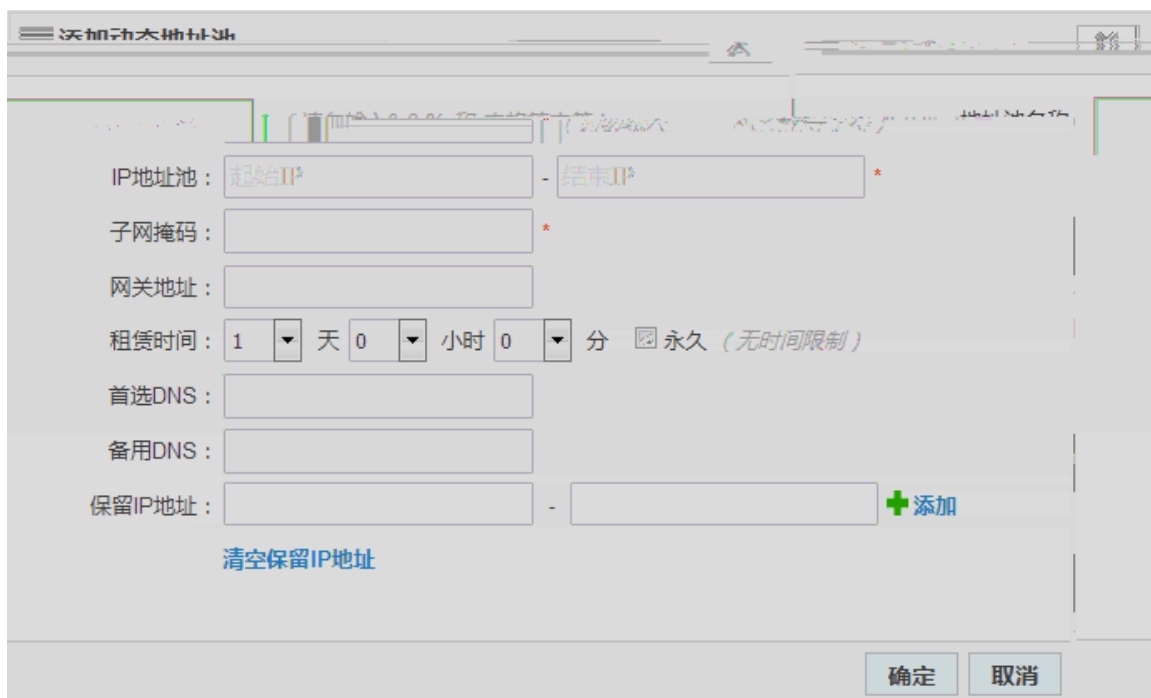
1-33



DNS

LAN

1-34



IP

IP

IP

DHCP

DNS

DNS

DNS

DNS

IP DHCP

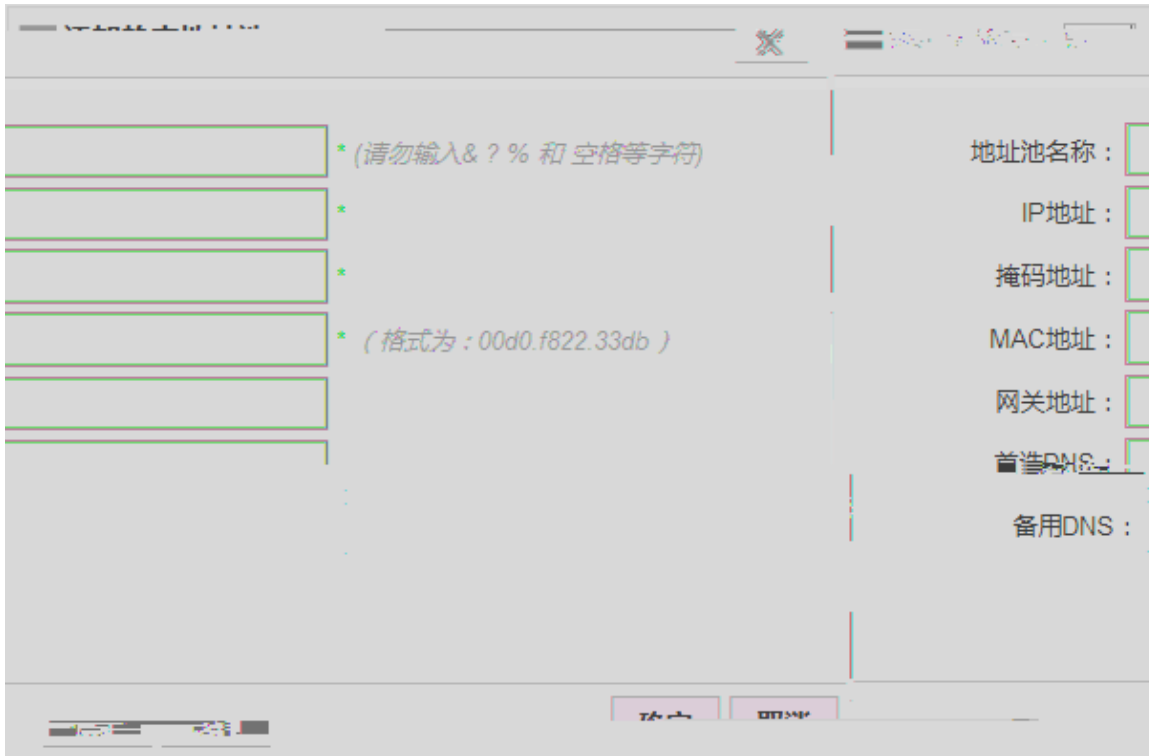
ip

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MAC

IP

1-35



IP

IP

IP

MAC

MAC

()

DNS

DNS

()



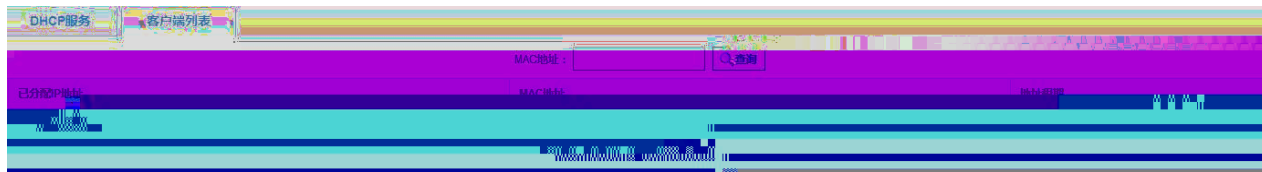
MAC

IP

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IP

1-36

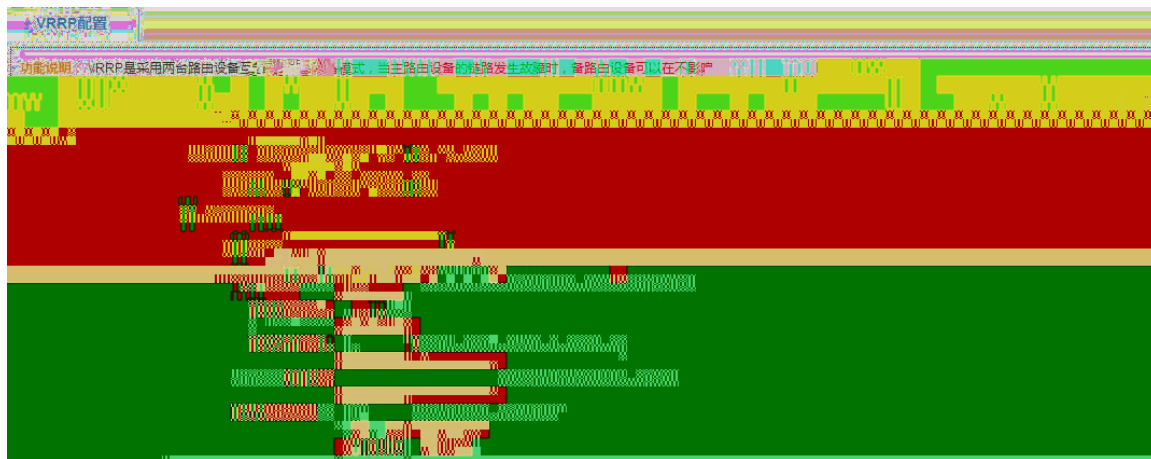


< 8 8 6

VRRP



1-37

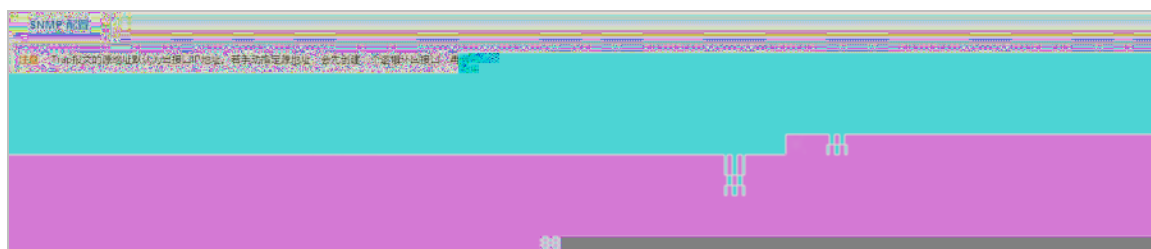


9 4 3 6

SNMP Simple Network Management Protocol

SNMP
SNMP

1-38



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1-39



IP

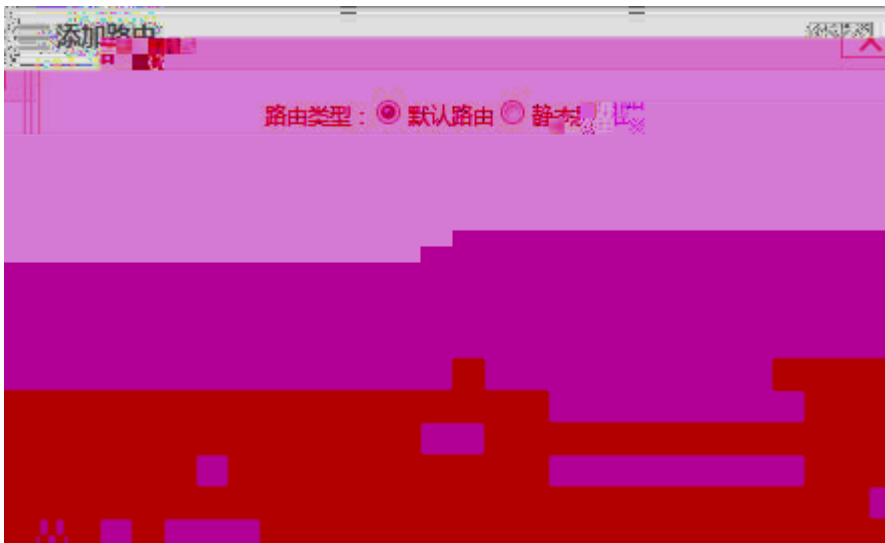
IP

IP

“ 1 ”

0.0.0.0

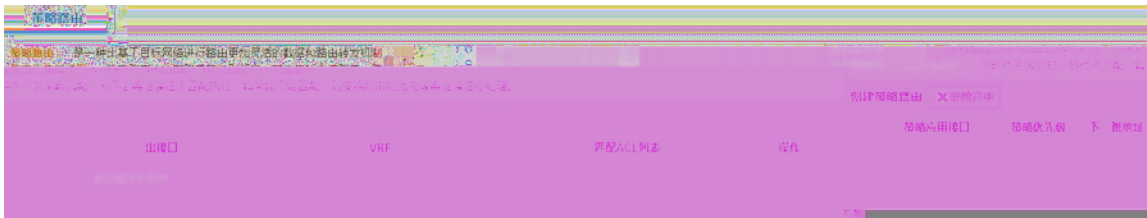
1-40



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PBR Policy-Based Routing
IP

1-41



ACL

ACL

IP

4G

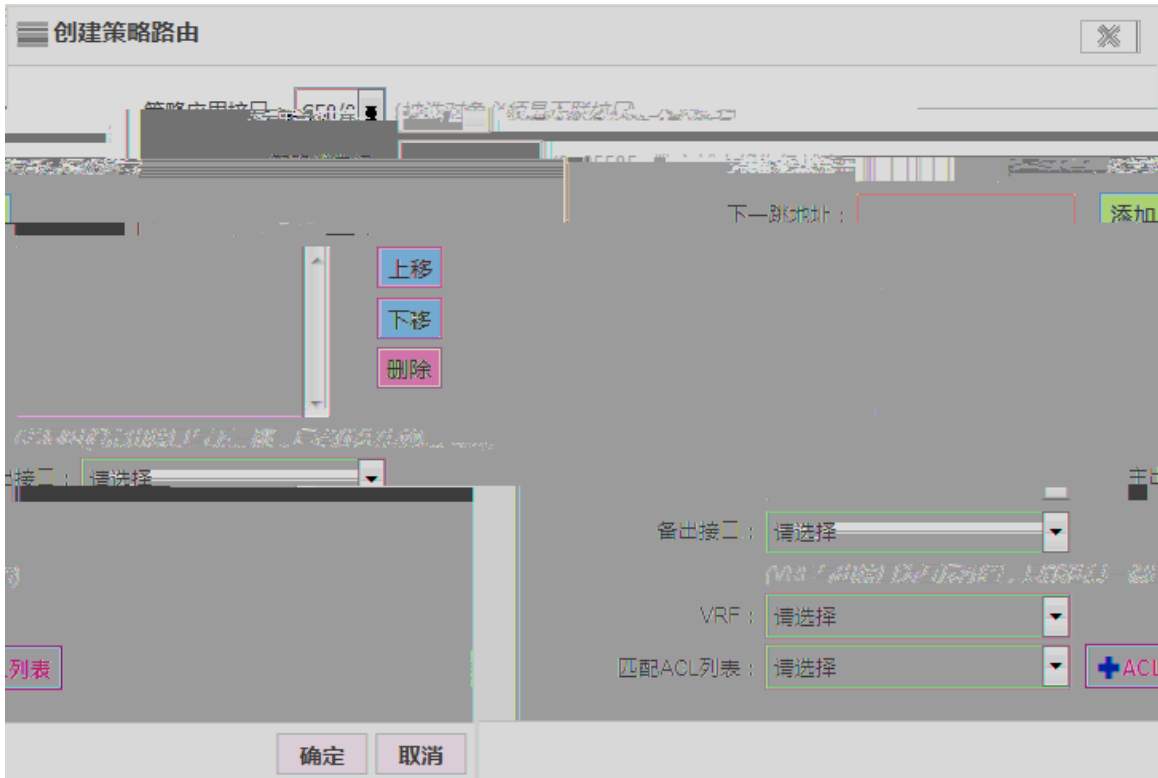
Serial

IP

IP

IP

1-42



596, '

OSPF Open Shortest Path First Autonomous System

(Interior Gateway Protocol,IGP),

(RIP) OSPF

OSPF

OSPF

Web

OSPF

IP

OSPF

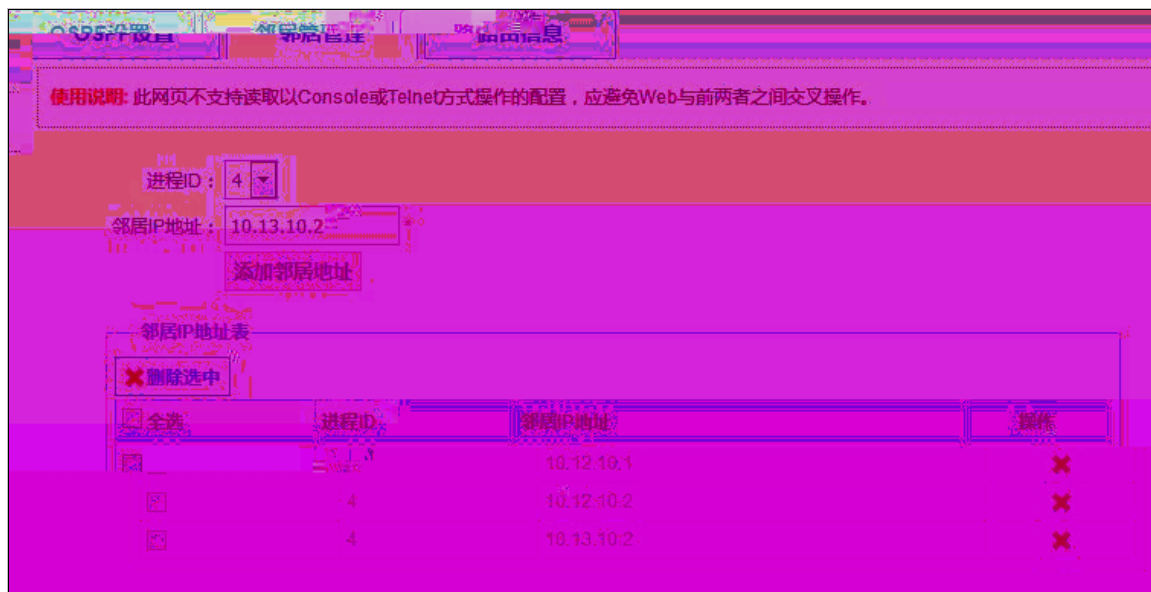
ID

ID

OSPF

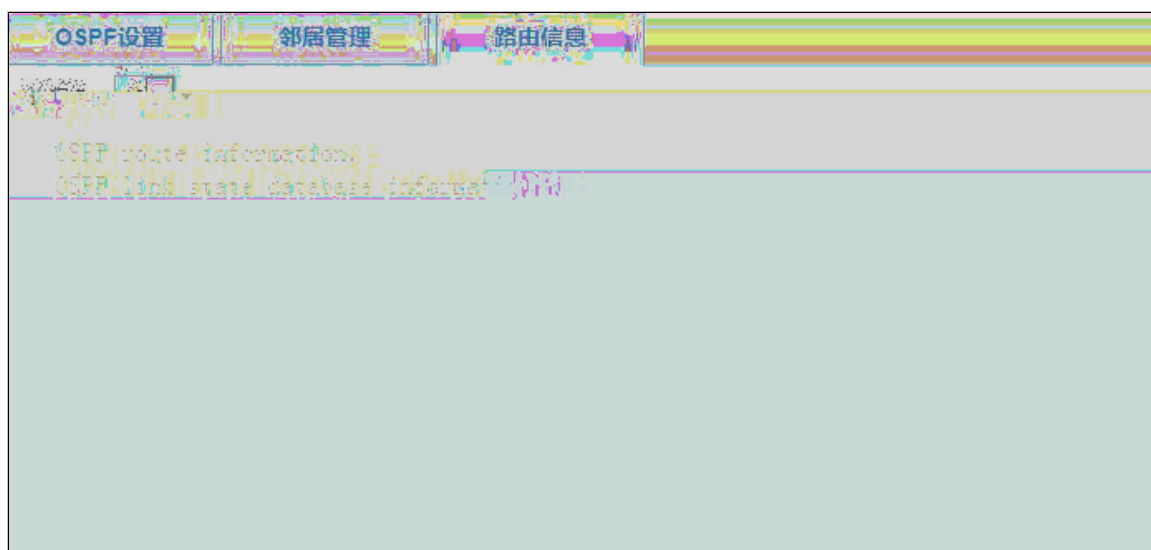
596, f'

1-43



· 0 '54

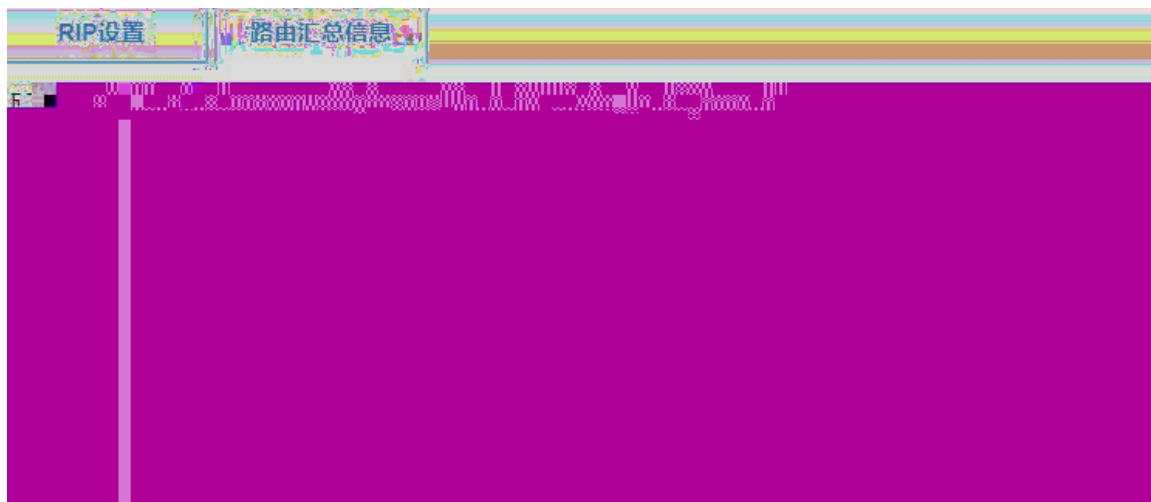
1-45



8 / 6

RIP(Routing information Protocol)

(Interior Gateway Protocol, IGP)



(- 6 ')

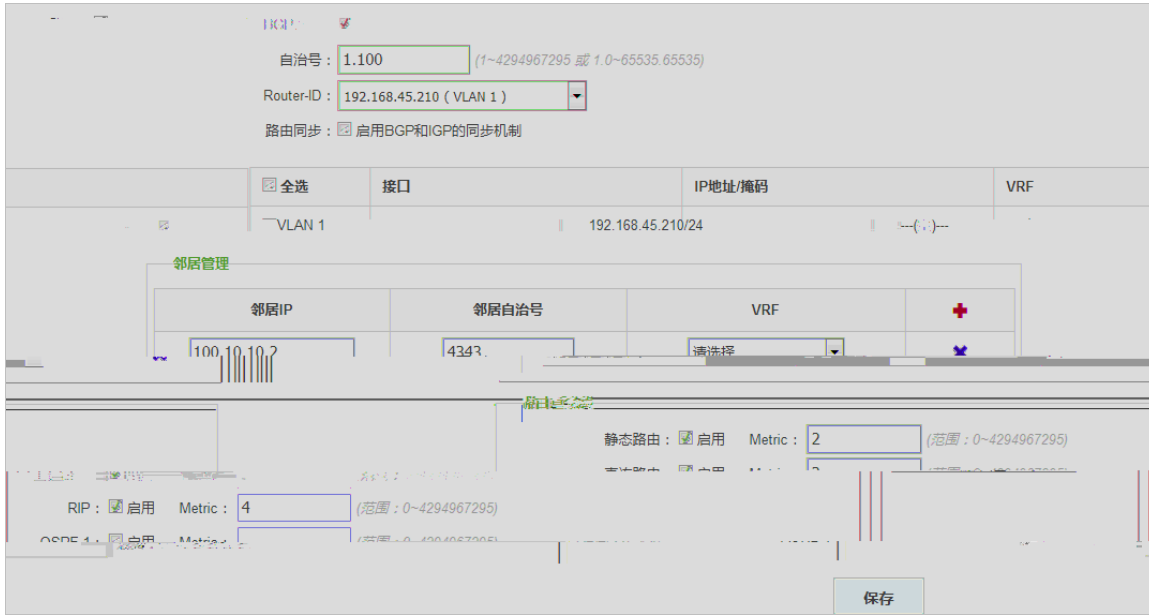
BGP Border Gateway Protocol (Exterior Gateway Protocol EGP) (Autonomous Systems AS)

BGP Router BGP Speaker BGP (BGP Session) BGP Speakers (BGP Peers)

BGP Speaker IBGP(Internal BGP) EBGP(External BGP) IBGP AS
 BGP EBGP AS BGP EBGP AS
 IBGP AS

BGP BGP Web
 BGP IP

1-48



BGP

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OSPF : BGP OSPF BGP
OSPF BGP OSPF
OSPF Connected Static RIP

· Ò =

RIP OSPF BGP

1-49



VPDN

VPDN

VPDN

IP

VPDN

< 6 * 4 § —

VPDN

VPDN

VPDN

VPN

PPTP L2TP

VPDN

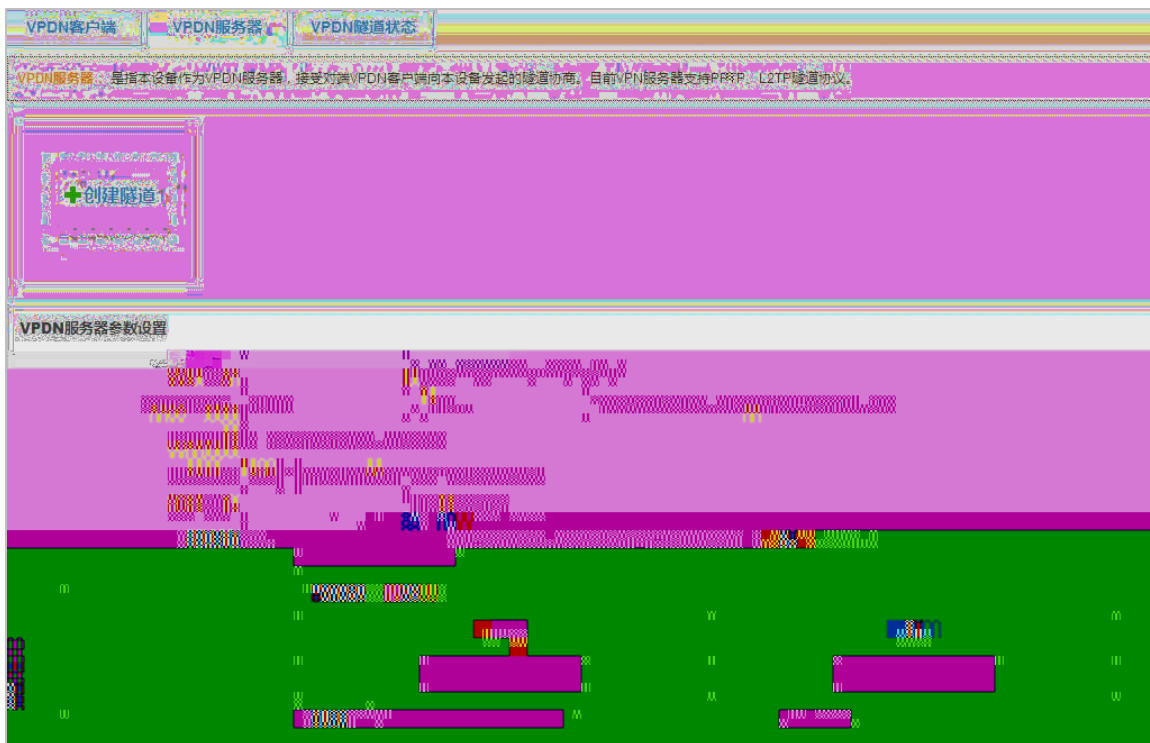
IP

PPTP L2TP

VPDN

VPDN

1-51



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VPDN

VPDN

1-52



- 8 + '

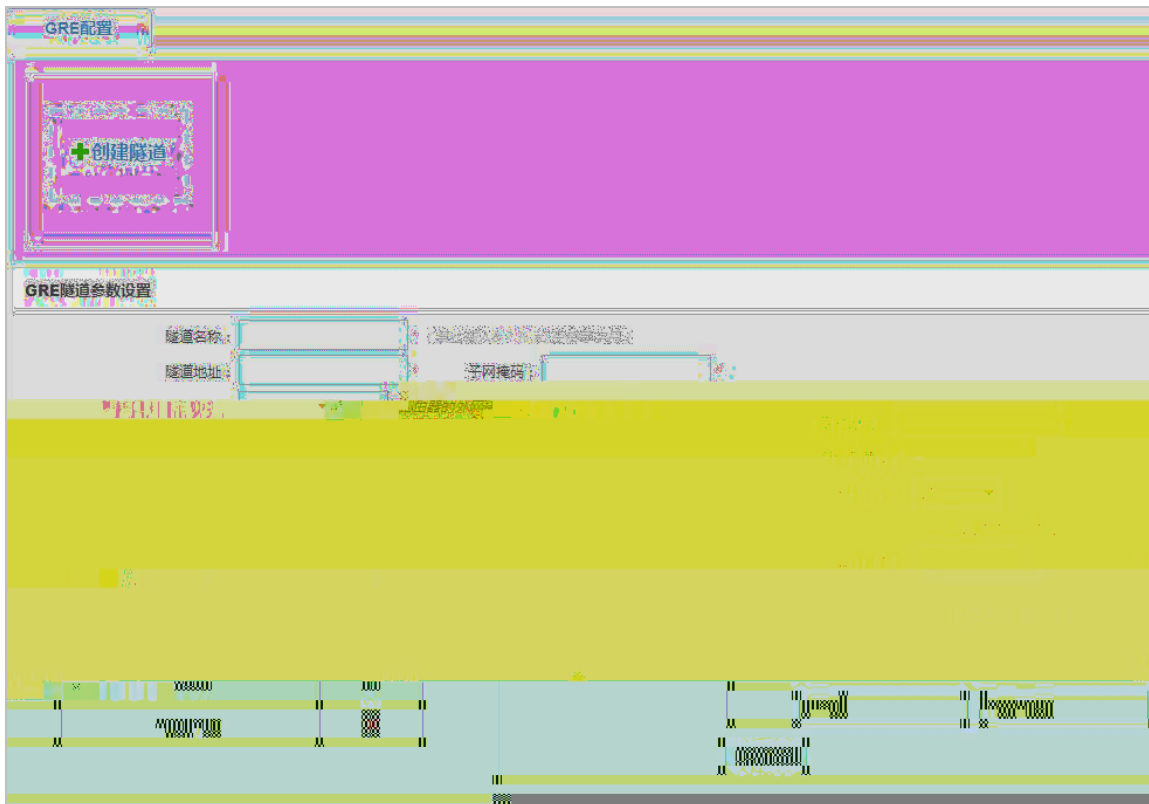
GRE

GRE

GRE

GRE

1-53



/69KI < 64

VPN

Internet

Internet

IPSec

IPSec

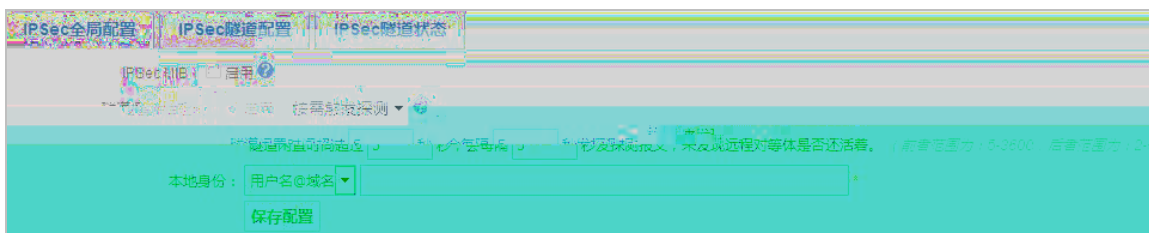
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IPSec

IPSec

MIB

1-54



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IPSec

IP IPSec IP 6 IP

IPSec

VPN

IKE

IKE

DES 3DES AES SM1

SHA MD5

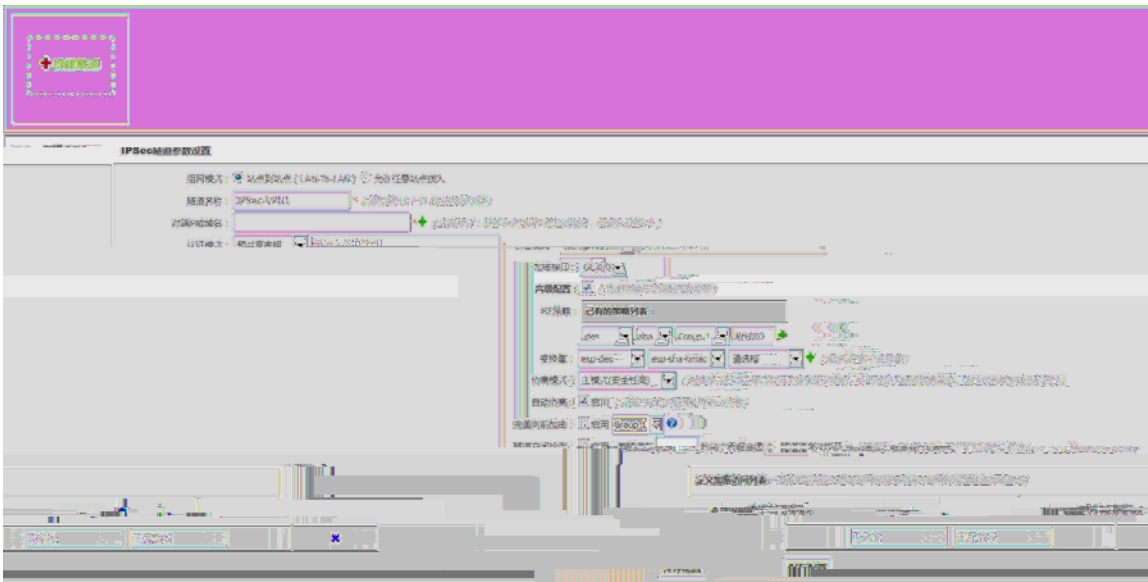
ESP-DES ESP-3DES ESP-3DES ESP-SHA-HMAC

ESP-3DES ESP-MD5-HMAC

ESP-DES

ESP-SHA-HMAC ESP-DES ESP-MD5-HMAC

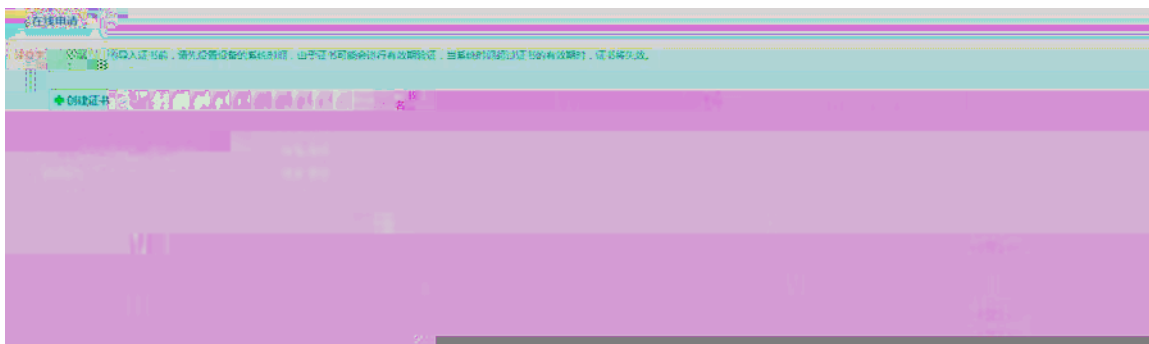
1-55



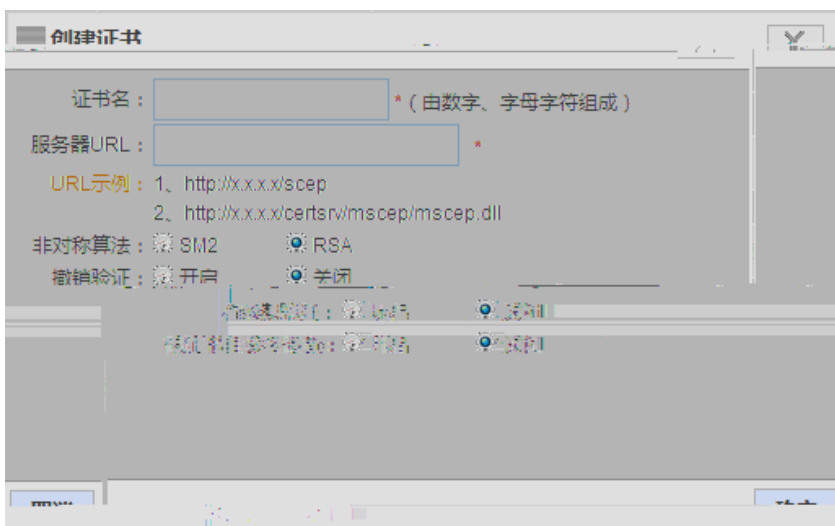
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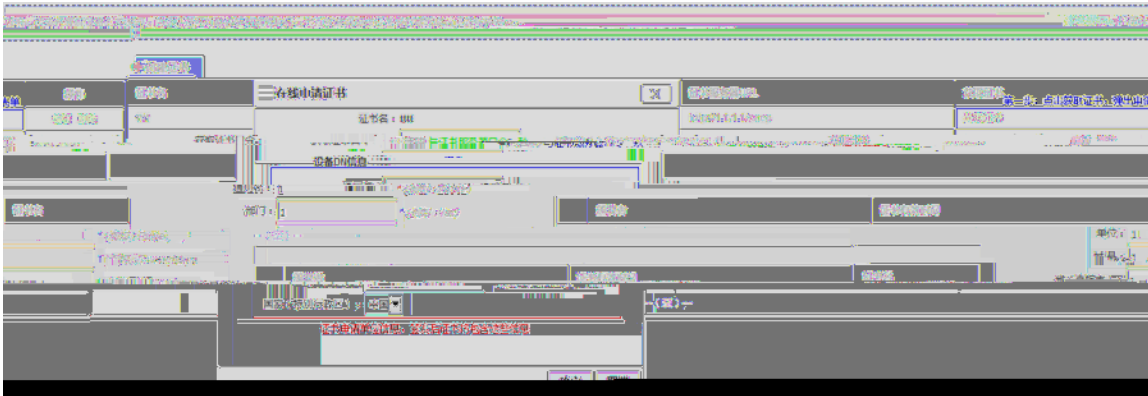
1-57



1-58



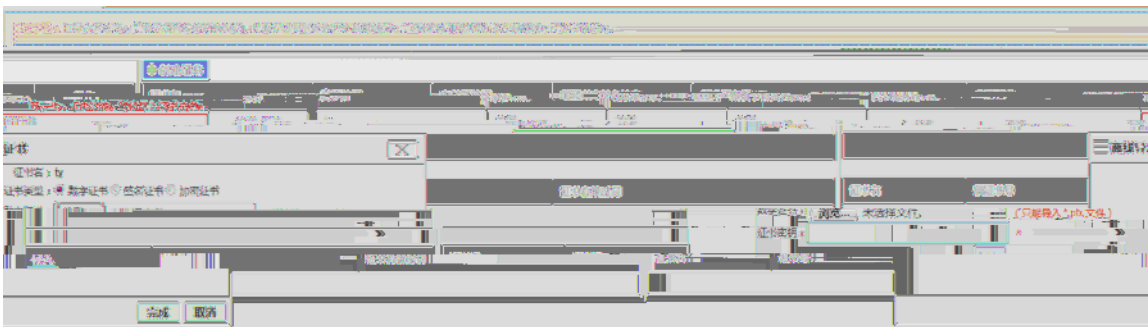
1-59



1-60

(3, 1)

1-60



1-61

离线导入证书

证书名: ty

证书类型: 数字证书 签名证书 加密证书

设备DN信息

通用名: * (例如: 20_14E)

部门: * (例如: Tac)

单位: * (例如: Ruijie)

城县: * (例如: Chengdu)

省(直辖市): * (例如: Sichuan)

国家(特别行政区): 中国

证书请求: 导出

证书ID: 1234567812345678

根证书: 未选择文件. *

路由器证书: 未选择文件... *

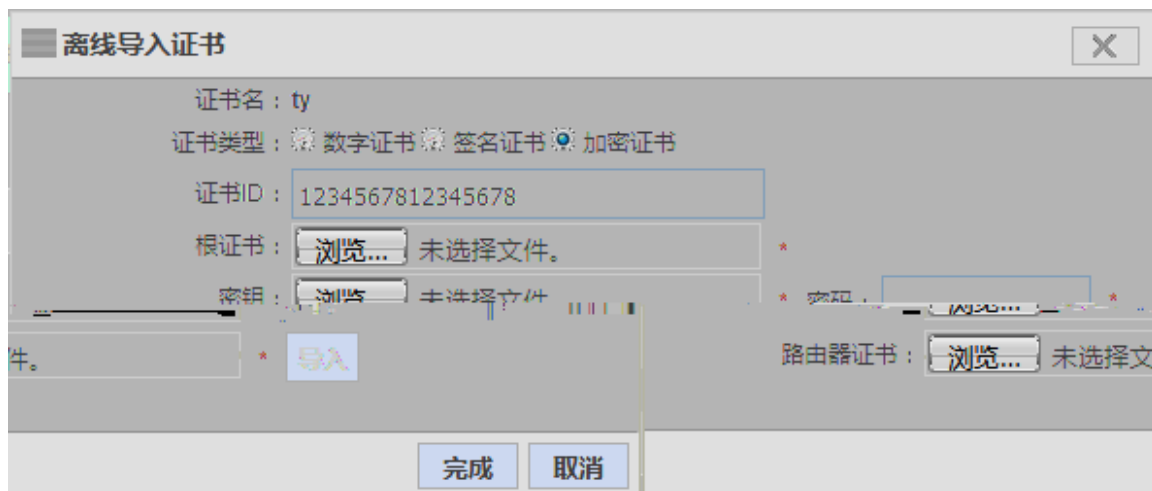
完成 取消

1. DN " " " "

2. " " PC

1-62

" " " " " " 3



1.3.7

AAA Authentication Authorization and Accounting

AAA

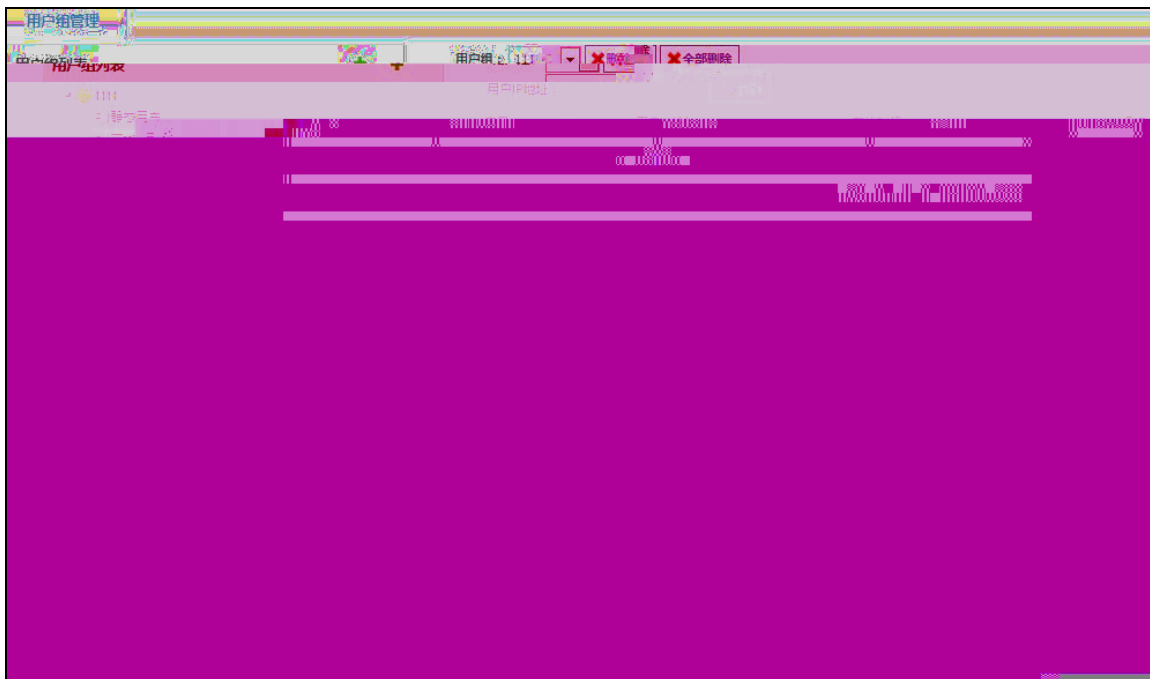
\i RADIUS TACACS+ Local

* AAA

b' AAA

Web AAA RADIUS

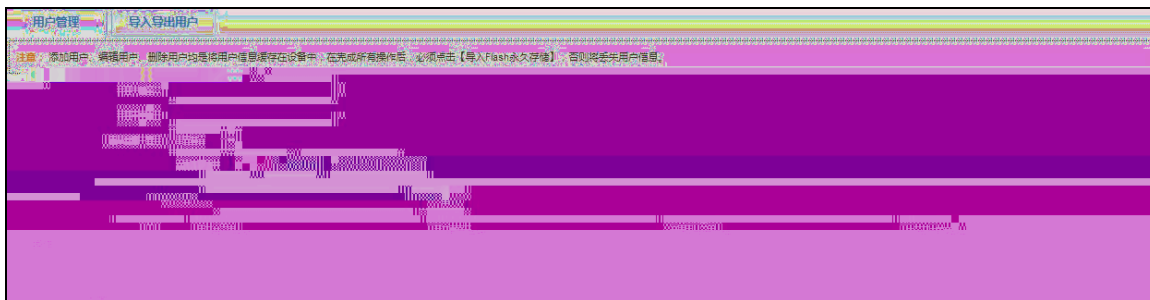
1-63



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IP

1-65



Flash

1-66



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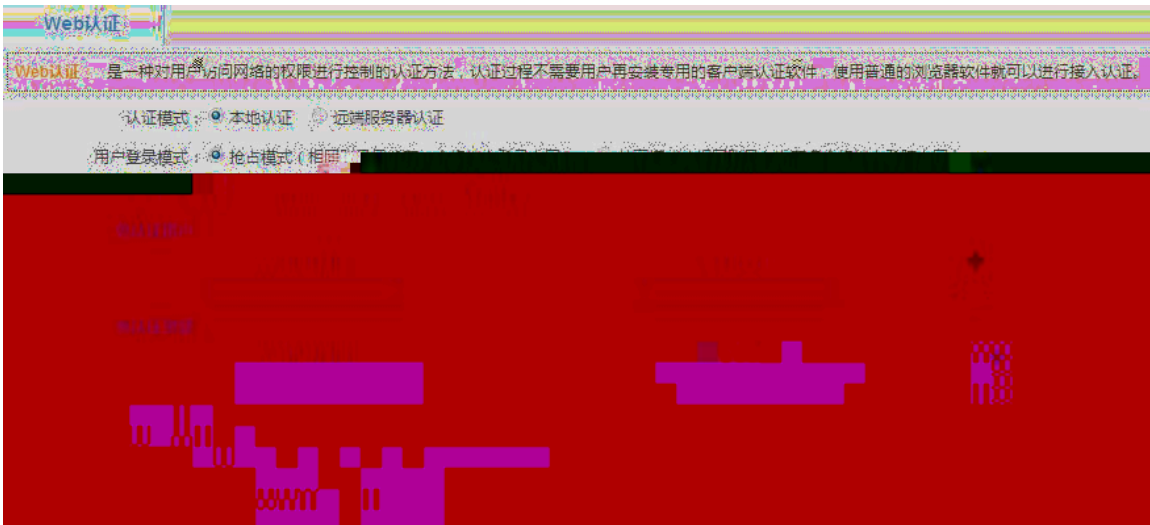
Web

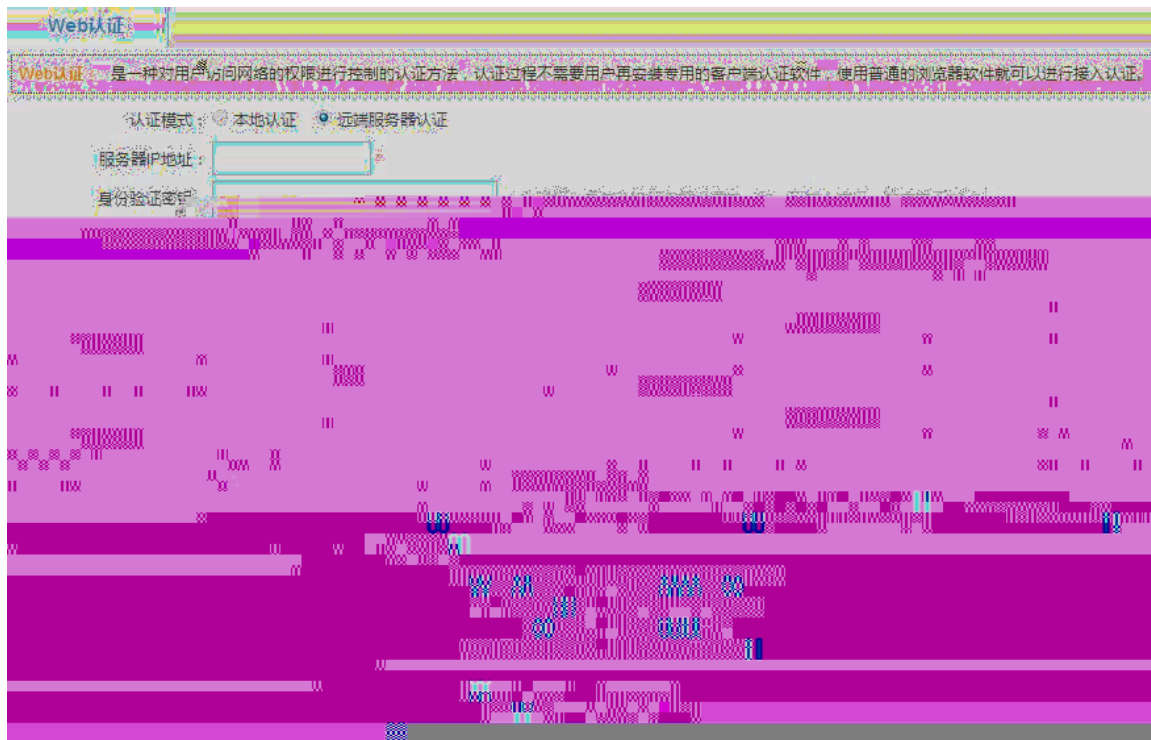
Web

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1-67





IP

IP

SMP

SMP

SNMP
IP+MAC

SNMP

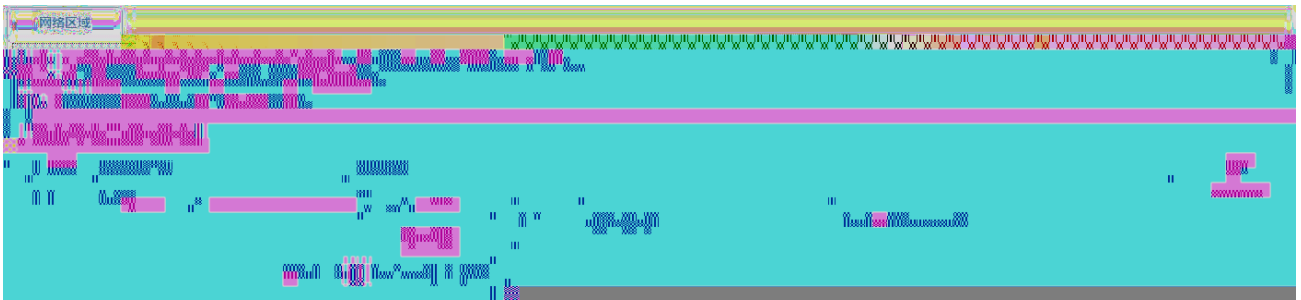
MAC

IP

→ ¾

IP

1-69



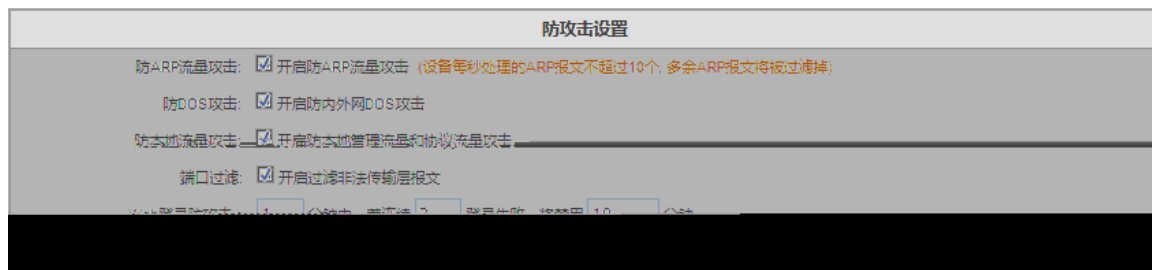
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1.3.9 配置

配置

ARP		ARP		ARP	ARP
ARP	ARP	ARP		ARP	ARP
10					
DoS		DoS	DoS/DDoS		IP
		SYN Flood			
Web	1	3		Web	

1-72



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IP-MAC		IP-MAC	IP	MAC	IP-MAC
		ARP			IP-MAC
	IP-MAC				

1-73



IP MAC IP
MAC IP MAC

4E / 6 3') -

IP-MAC ARP IP-MAC

" IP-MAC " IP-MAC

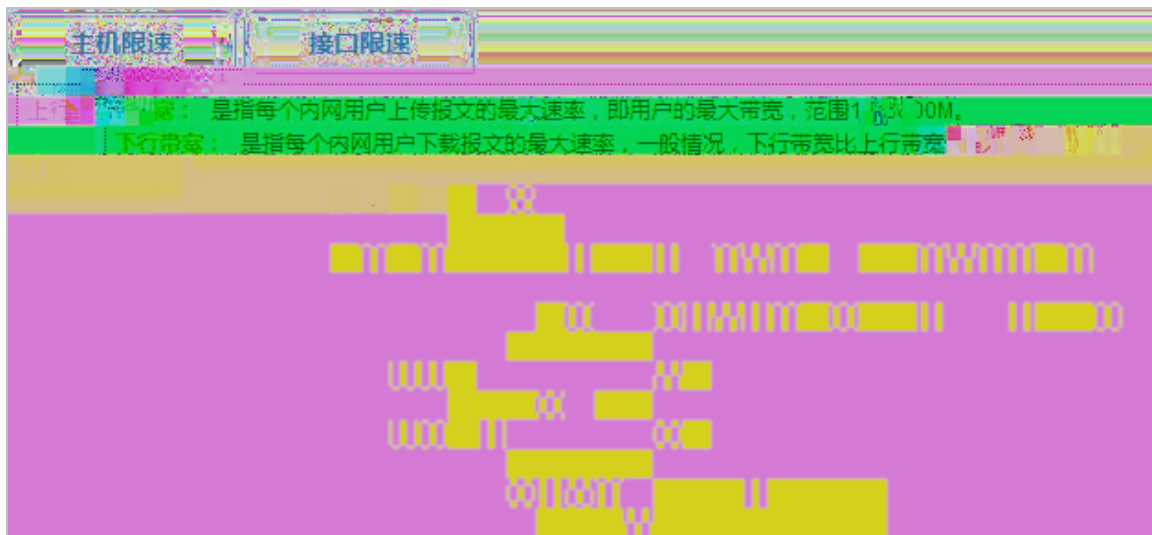
1-74



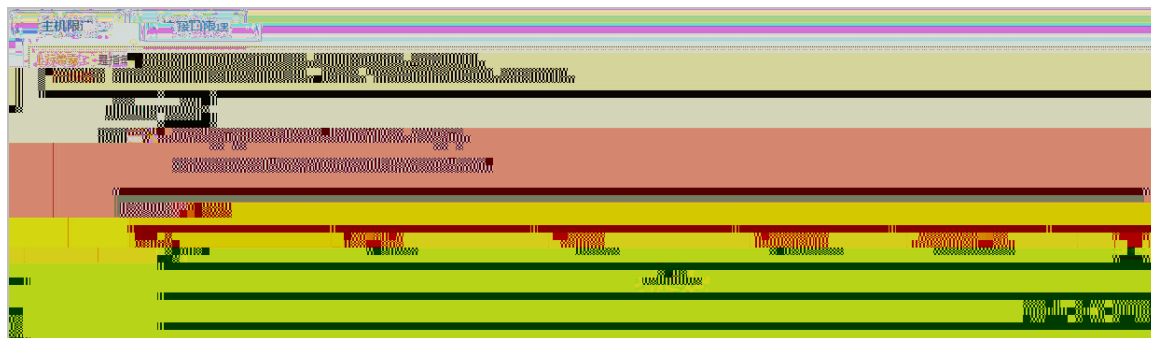
') 2 g K æ =

ACL

IP



1-79





Web

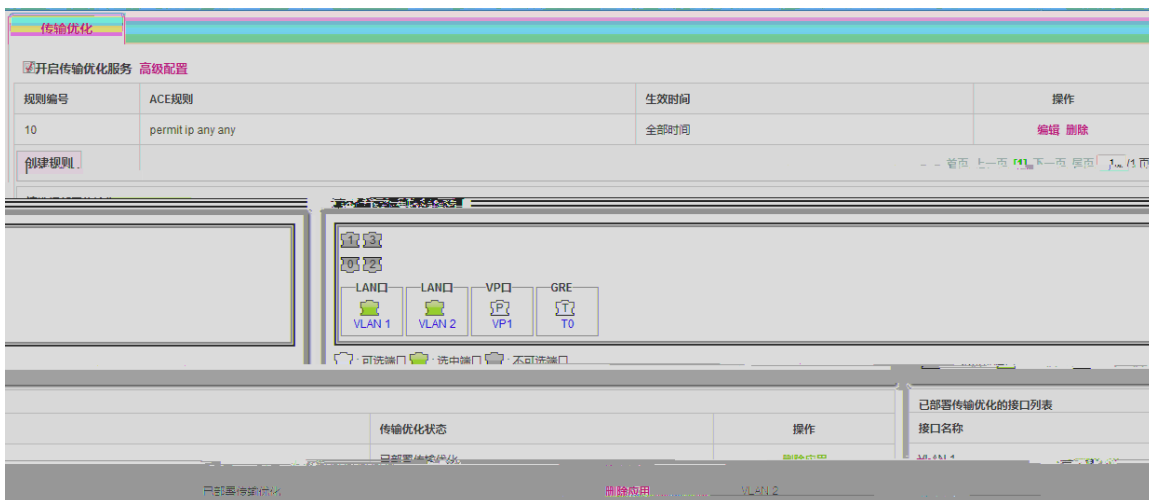
IP

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IP



1-82



1-83



low-bandwidth-delay

10

120

9

Mss MSS 1420

0

1024

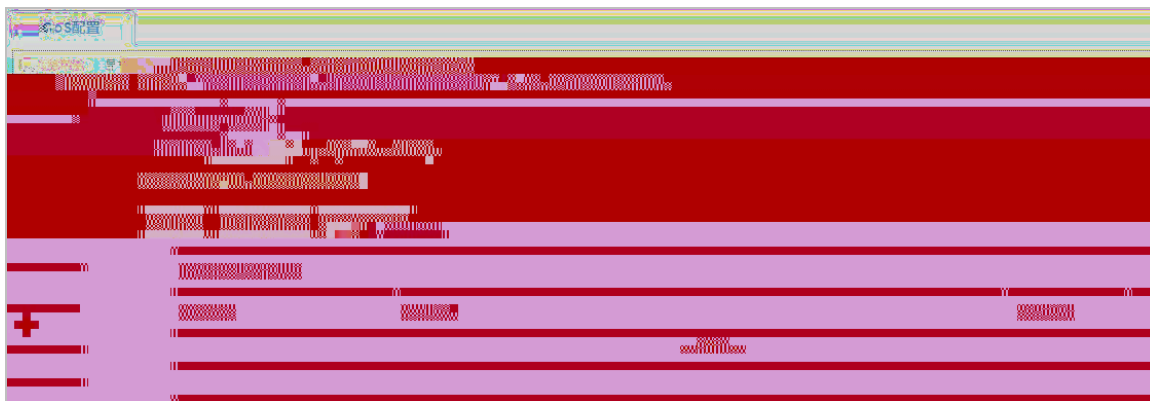
Sack

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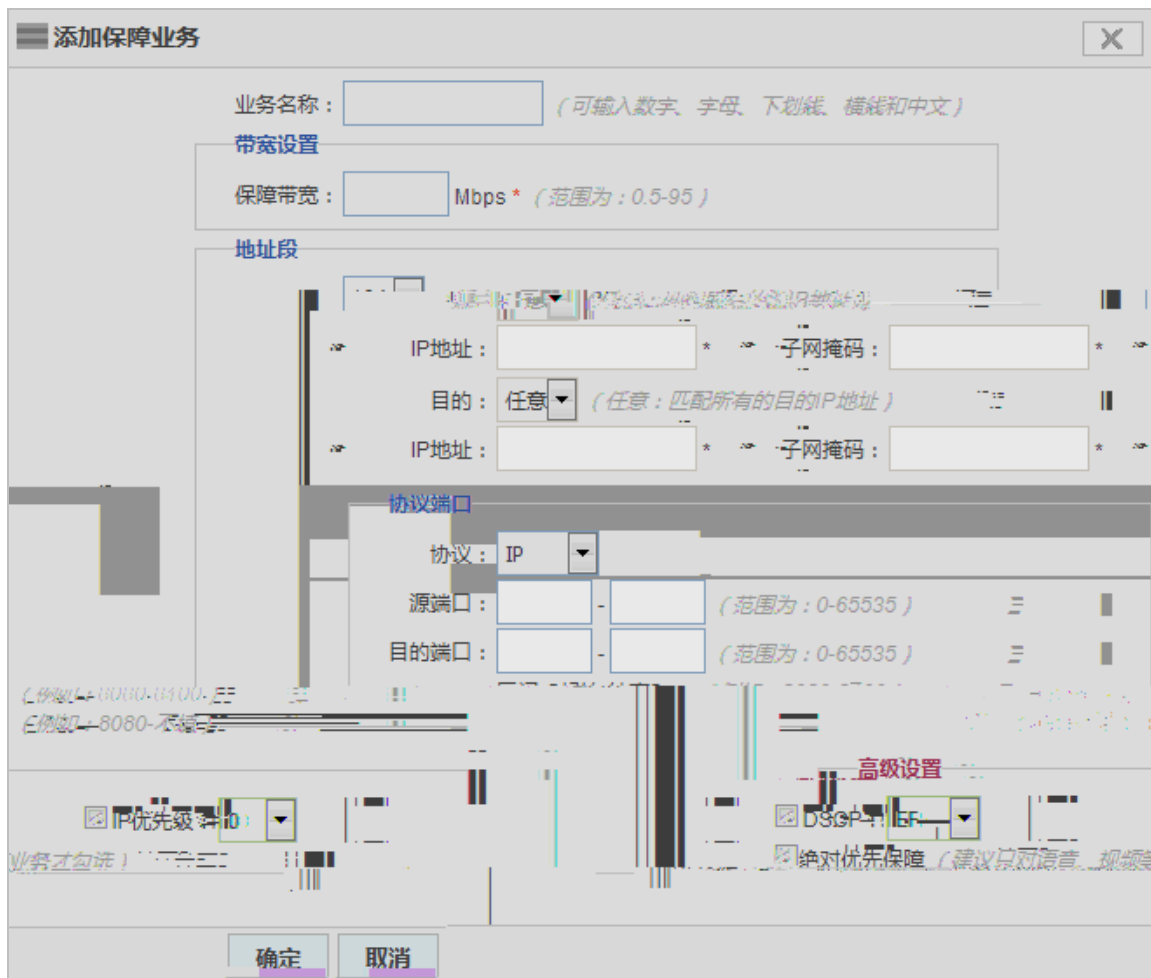
7 U 9 ^ O

QoS

1-84



1-85



Web

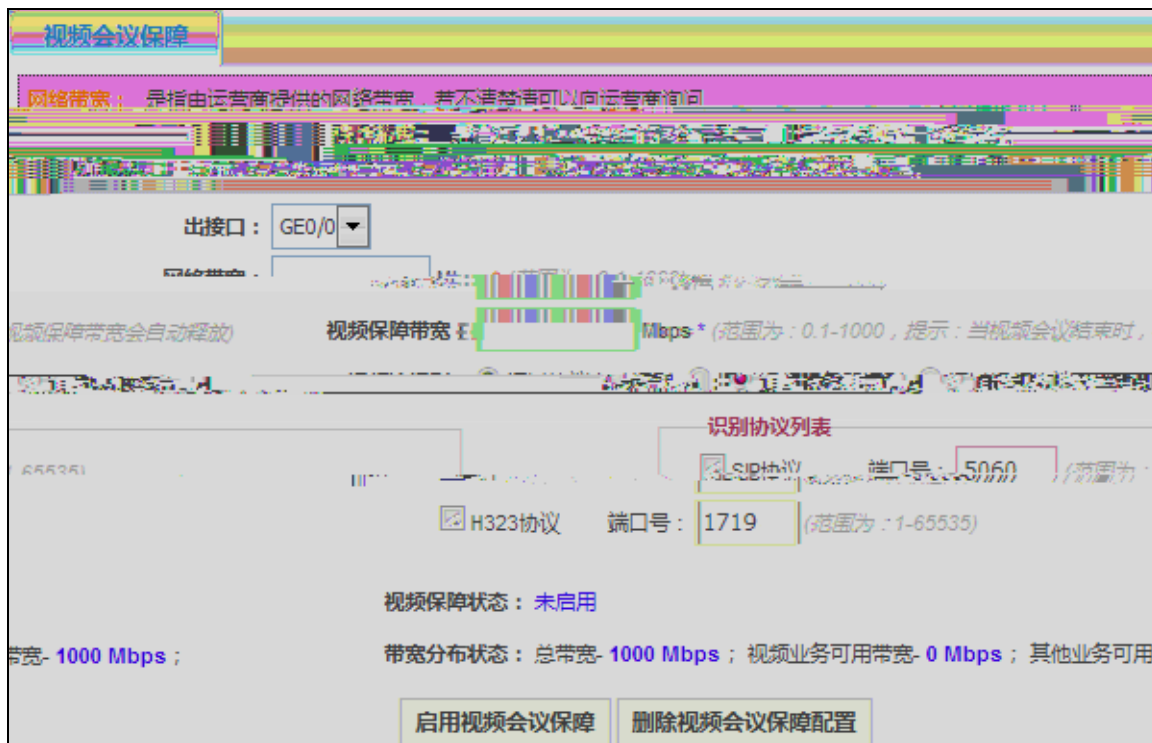
IP IP

Q—j`·m

x^O

1. H323 SIP
2. IP
3. IP

1-86



(H323 SIP) IP IP

3

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x ^ O

Web

url

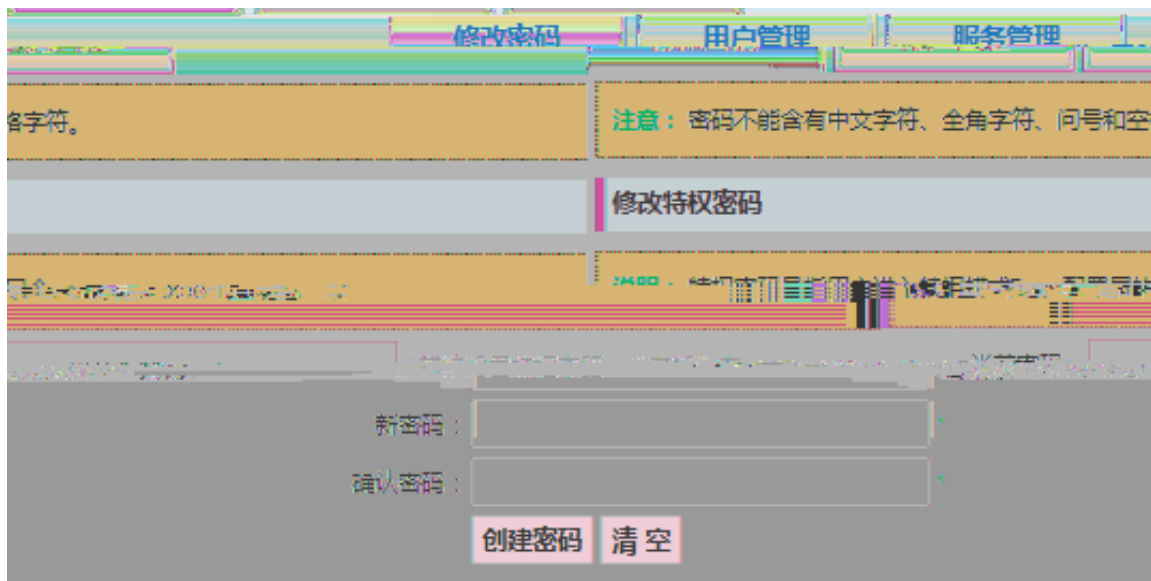
1-87

设备名称

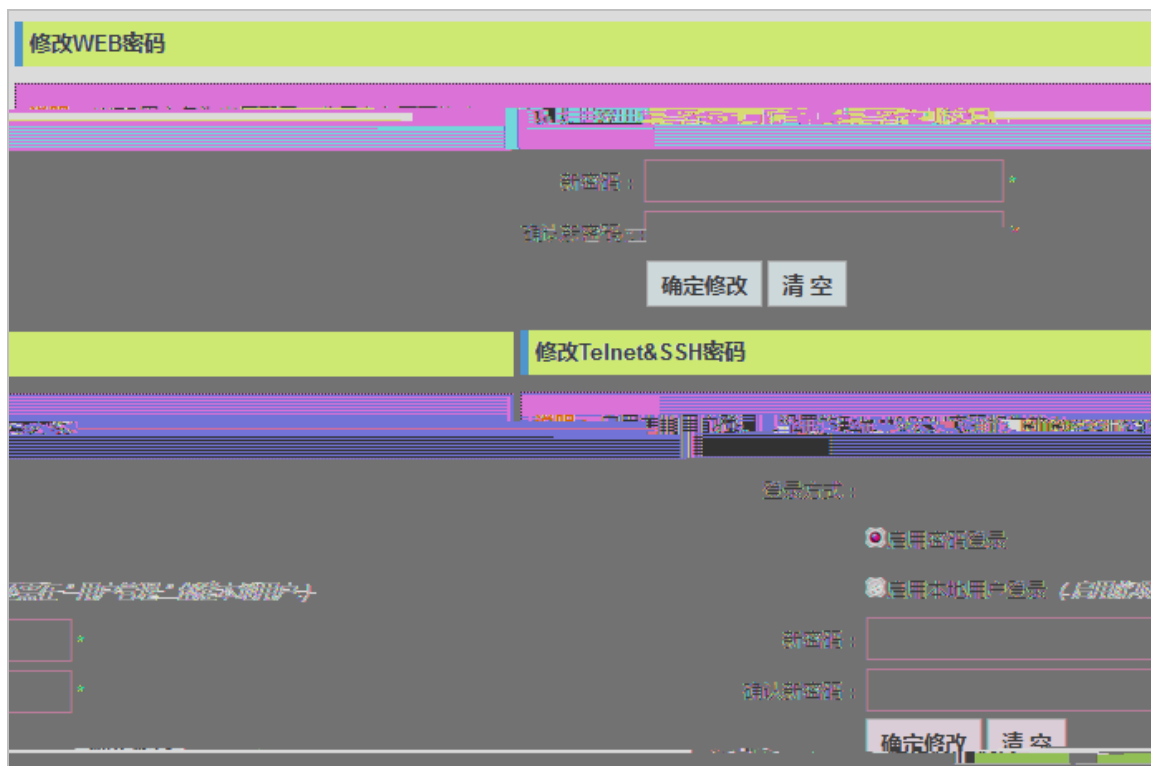
注意: 请勿输入问号、空格、双引号字符。

设备名称: Rule

确定修改

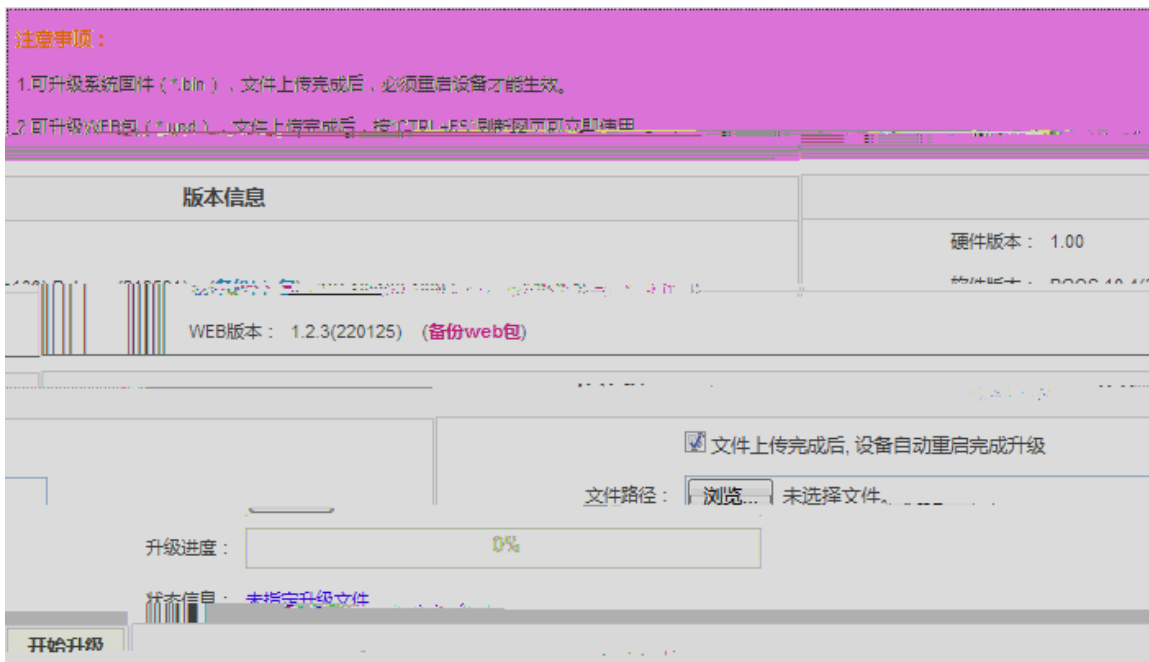


1-92



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1-93



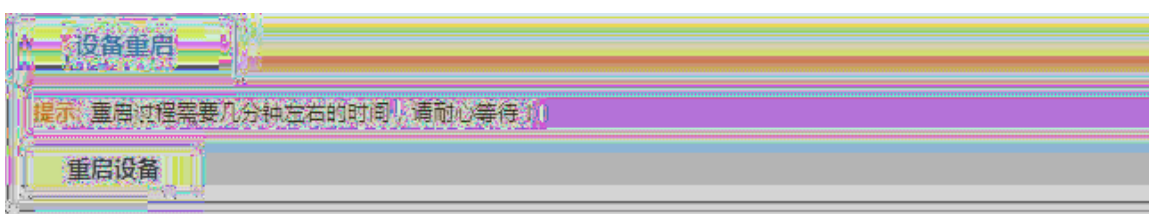
- ⚡ _____ " " 50
- ⚡ " bin" Web " upd"
- ⚡ flash

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" " 2

Web Web

1-96

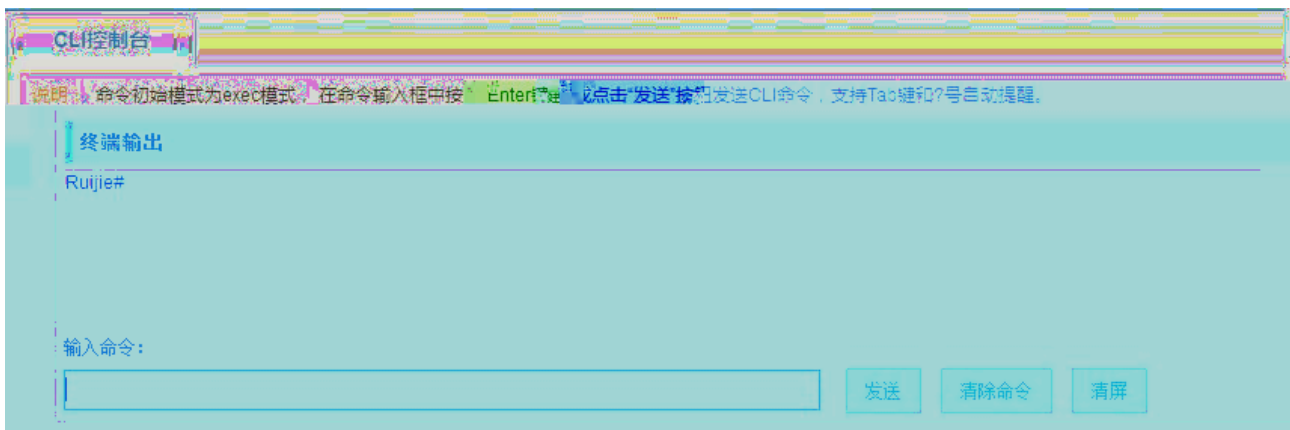


‘,’, P

" .text"

" config.text"

1-99



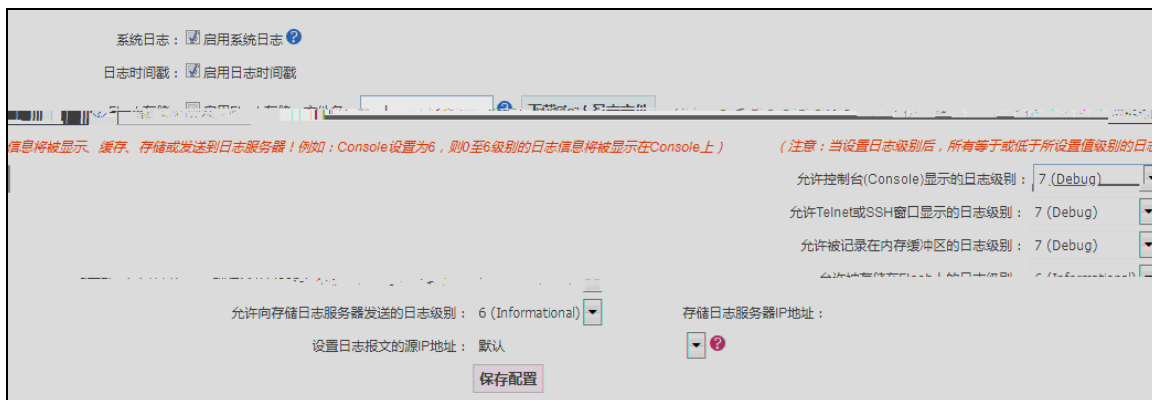
z¹ a Â

z¹ a Â

Flash

IP

1-100



1-101

日志信息

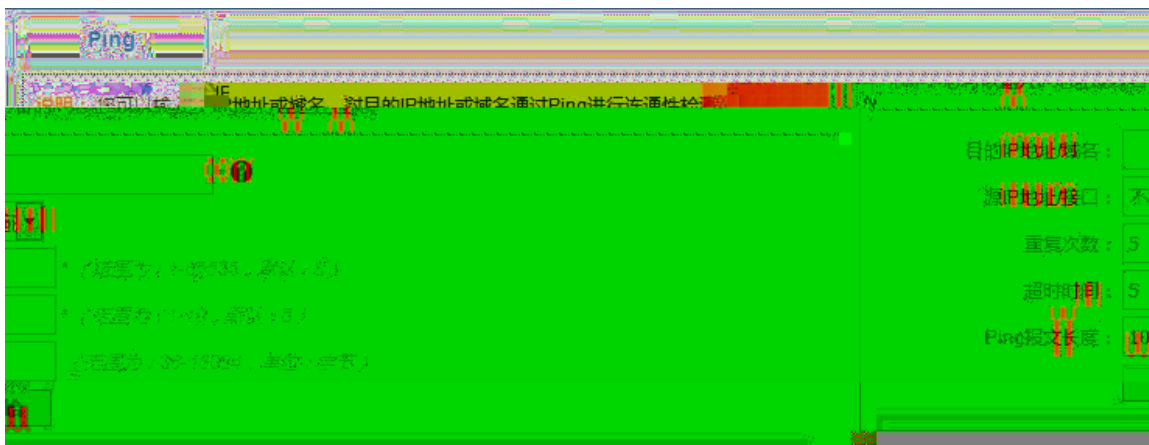
刷新系统日志

```
*Sep 4 06:24:49: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 06:24:48: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 06:24:46: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 06:24:46: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 06:15:52: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 06:14:26: %SNMP-3-AUTHFAIL: Authentication failure for SNMP req from host 192.168.45.46
*Sep 4 05:53:53: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 03:48:34: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 03:48:33: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 03:47:35: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 03:47:03: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 03:47:03: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 03:46:55: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 03:46:45: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 03:46:24: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 03:46:24: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 03:46:18: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 03:46:18: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 03:45:49: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 03:45:31: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 03:45:29: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
*Sep 4 03:45:27: %SYS-5-CONFIG_I: Configured from console by web(192.168.45.208)
```

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6 OTM

1-103



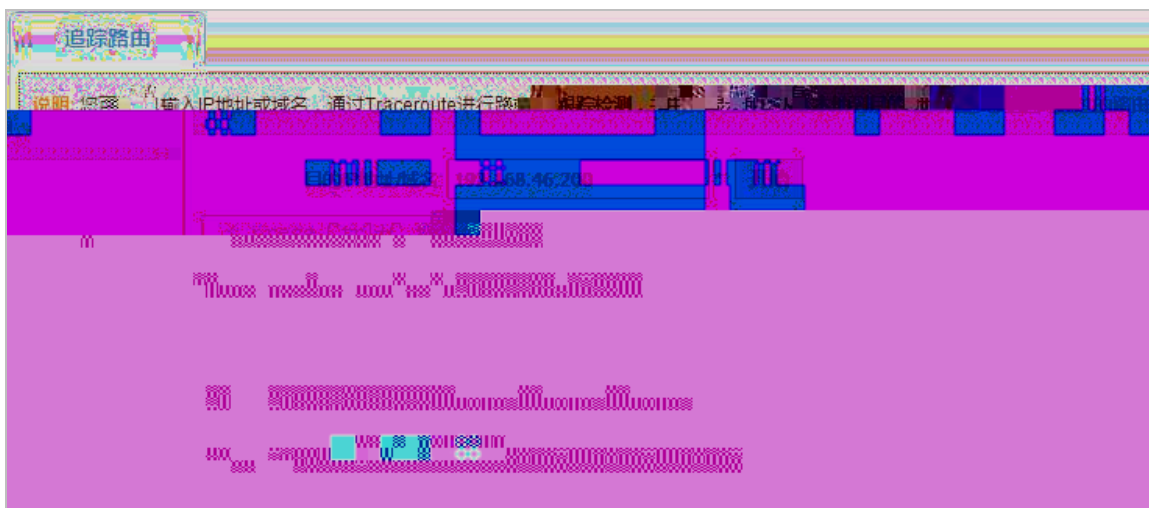
" "

" "

1 ¼ · 0

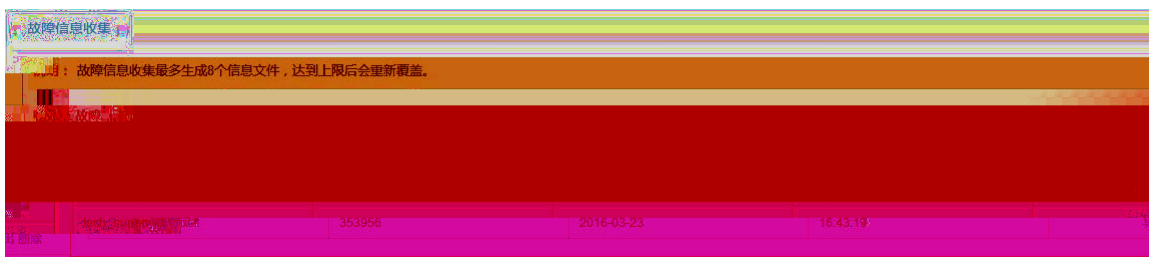
Traceroute

1-104



\ m W s

1-105

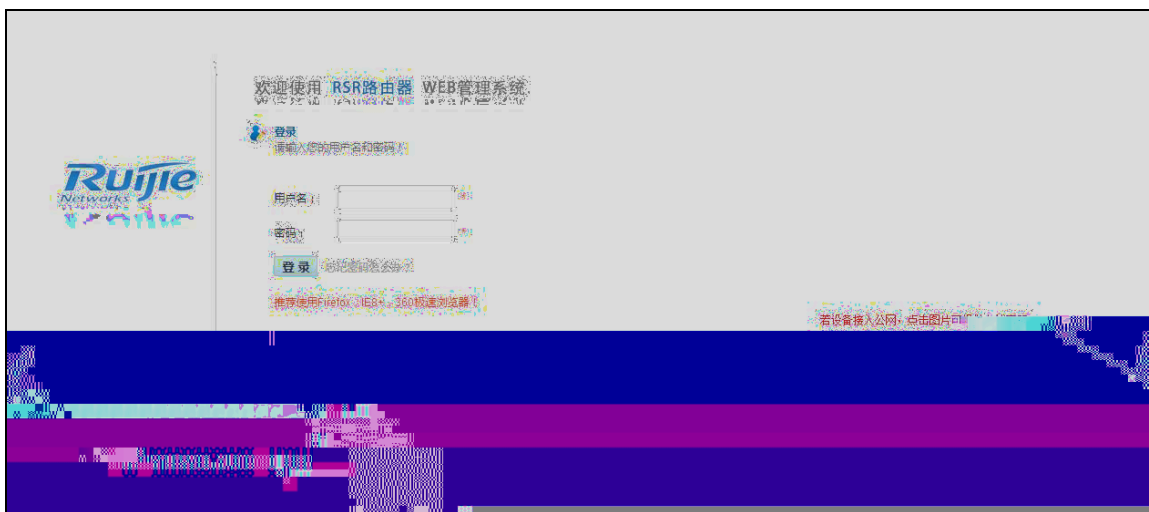


ê ± V

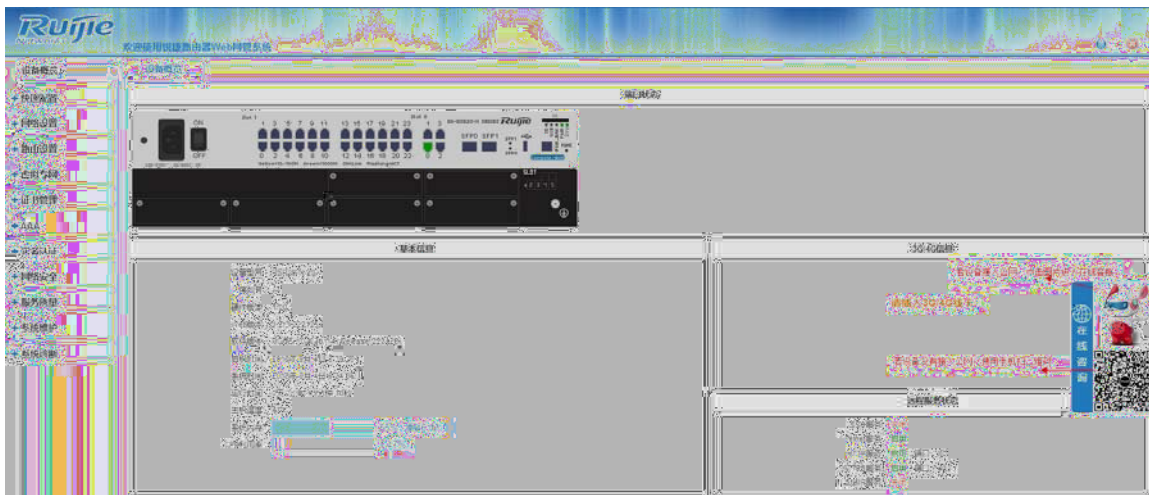
1.4.1 ^ d § Ž §

“ ” Web “ ”

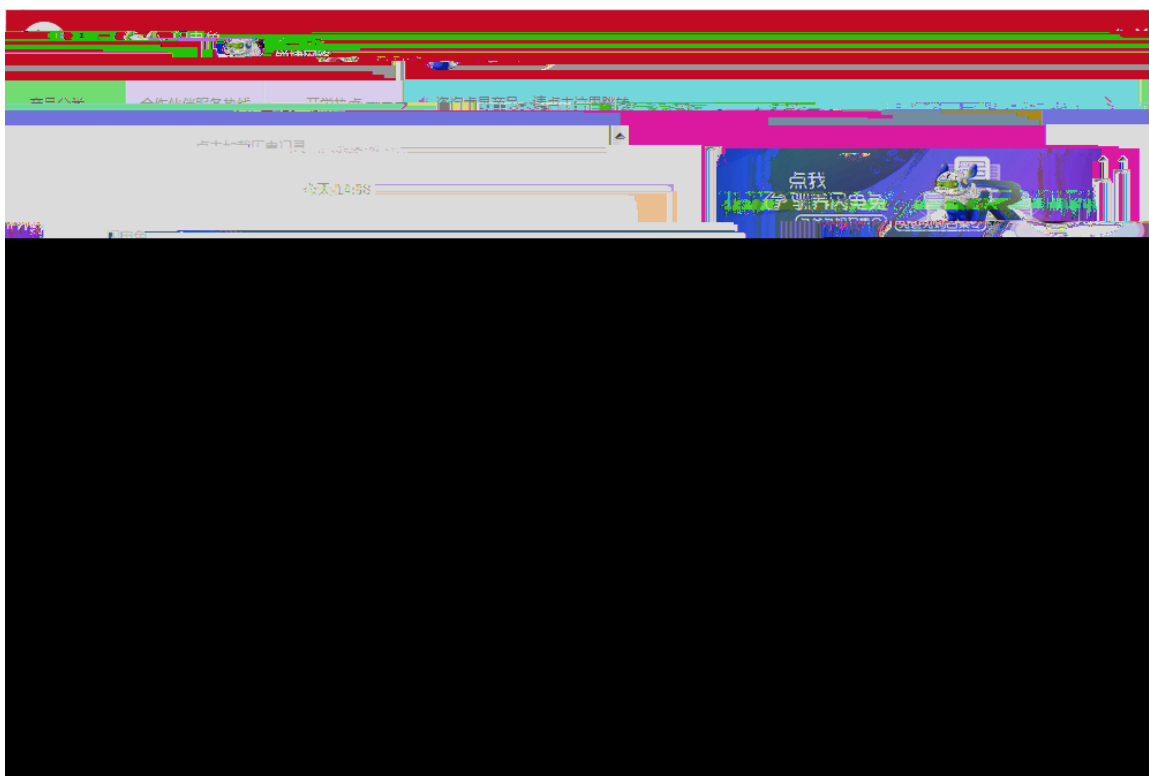
1-106 Web



1-107 Web



1-108



: 8:30-18:00

4008-111-000

Web

Web

•n Ó Â

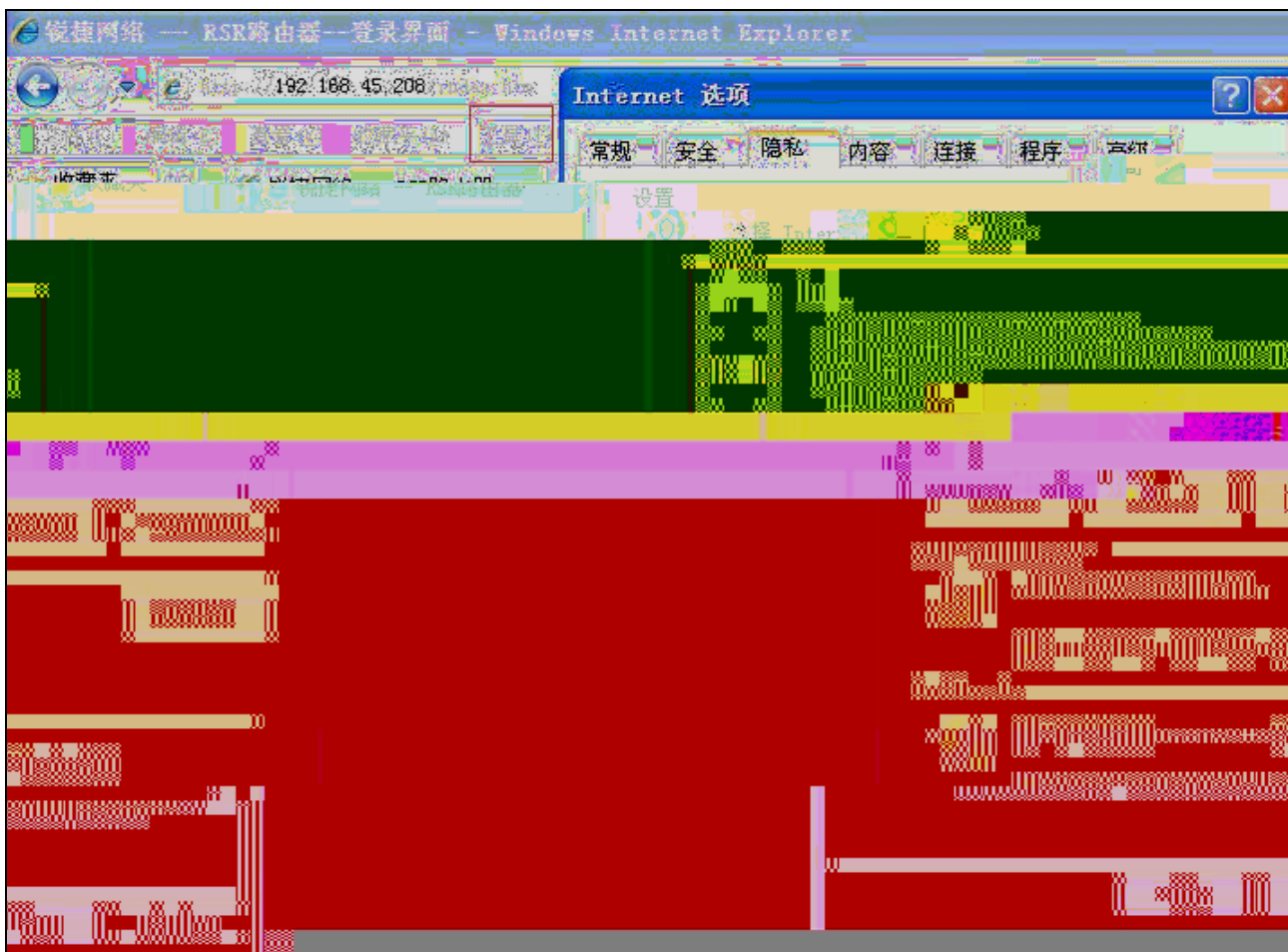
1.5.1 =KH\i á‘

Web

Web

IE

1-109 IE



“ ” “ ”

Web

1.5.2 =KHxDgK

1 PC Ping

Web

Web

1-110 Web

```
Ruijie(config)#show service
ssh-server      : disabled
telnet-server   : enabled
```

" disabled" Web

" enable service Web-server all"

Web

2 PC Ping

PC

IP