Web

RG-RSR10-01G-T

RGOS 10.4(3b64)p10

V1.1

©2018

RGOS 10.4 (3b64)p10

[ ] [ ]

{ x | y | ... }

[x | y | ...]

//

2)

3)

1 Web

1.1

RSR10-01G

1.1.1

Web IE Firefox Chrome

Web Web Web Web
Web IE Firefox Chrome

1.1.2

Web

Web Web
HTTP
HTTPS TLS1.0

Web

Web Web Web Web
IE Firefox Chrome Safari

1.2

1.2.1

Web

Web

IP

Web Web Web

IE Firefox Chrome Safari IE (Maxton)
Web

PC 1280*1024
1440*900 Web

1.2.2

, Web IP 192.168.1.1 255.255.255.0 Web
admin admin Windows XP

Web

Web	
Web	Eth0-Eth4 IP 192.168.1.1
Web	admin admin

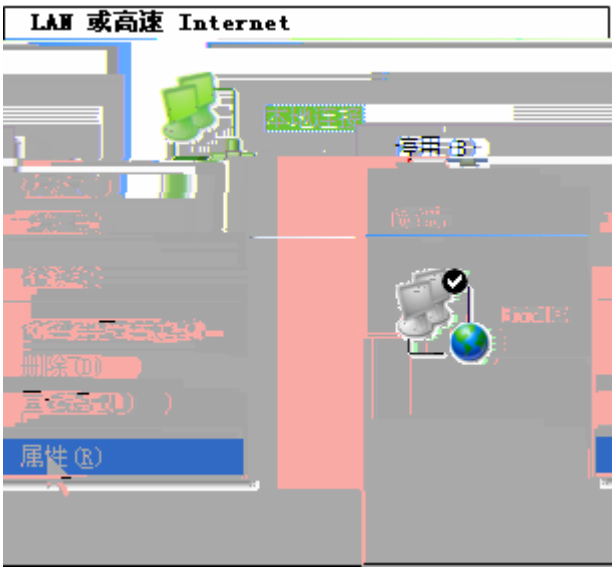
Eth1-Eth4 192.168.1.1 Web

PC PC Eth4
PC

PC IP

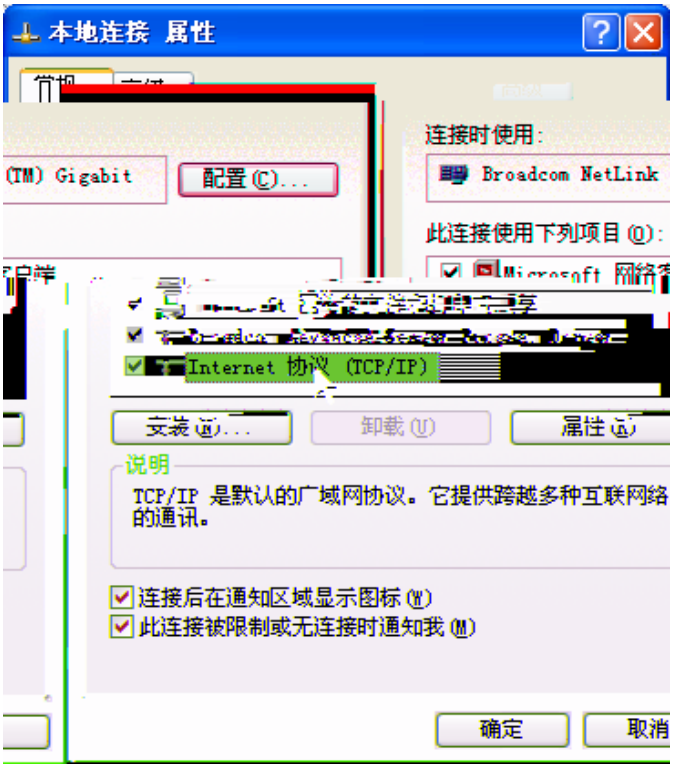
PC “ ” -> “ ” -> “ Internet ” ->" "

1-1



” ” ” ” ” Internet TCP/IP ”

1-2

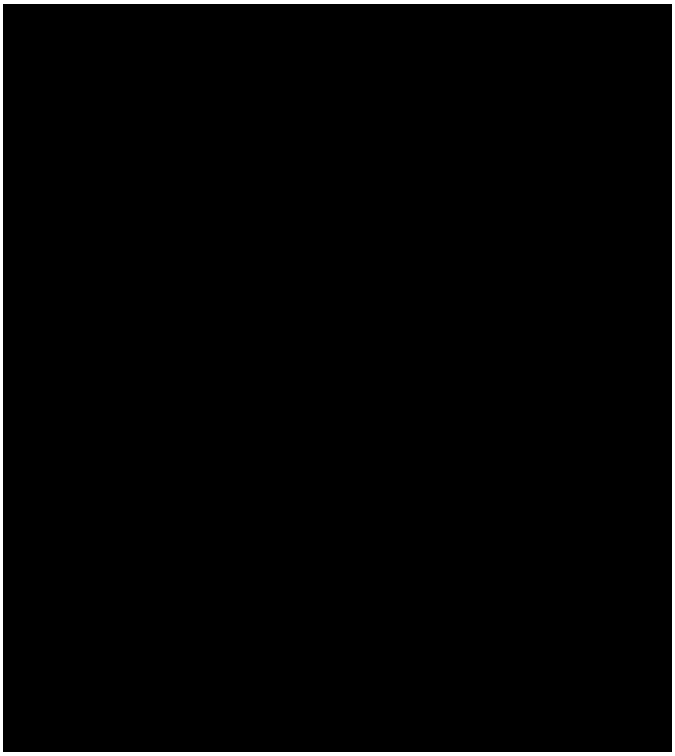


“ ” PC IP

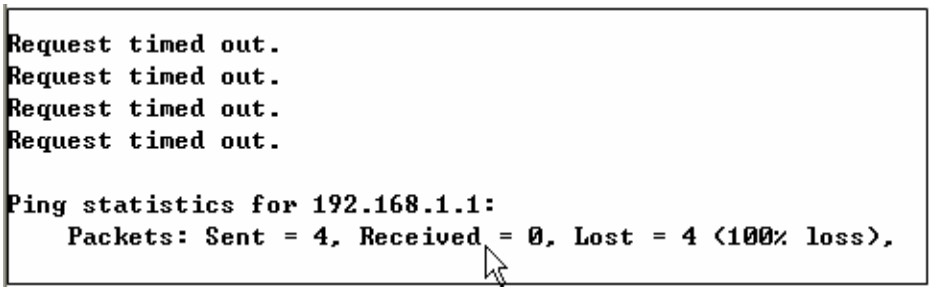
“ Internet TCP/IP ” “ IP ” “ IP ” 192.168.1.xxx xxx

2 254 “ ” 255.255.255.0 “ ” 192.168.1.1 IP

1-3

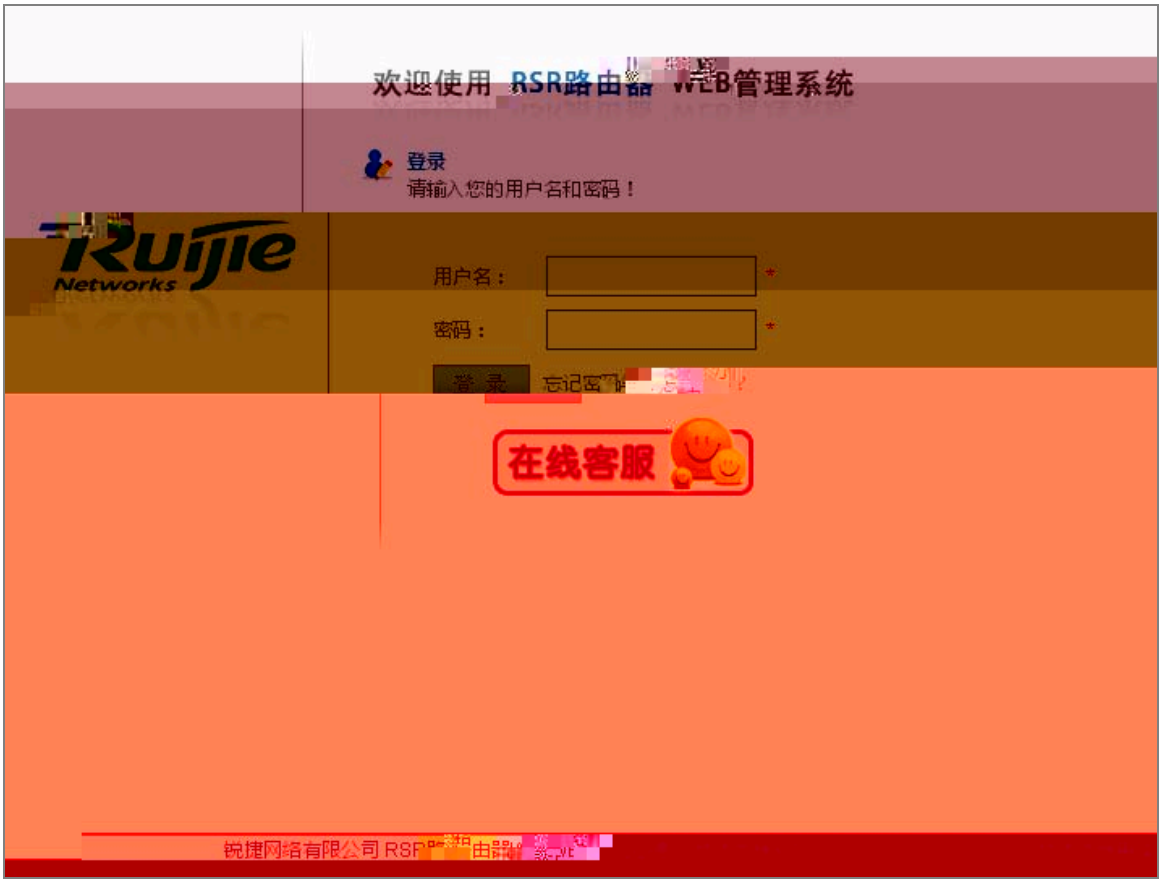


IP 192.168.1.1 PC IP 1, ”


Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.1.1:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

PC

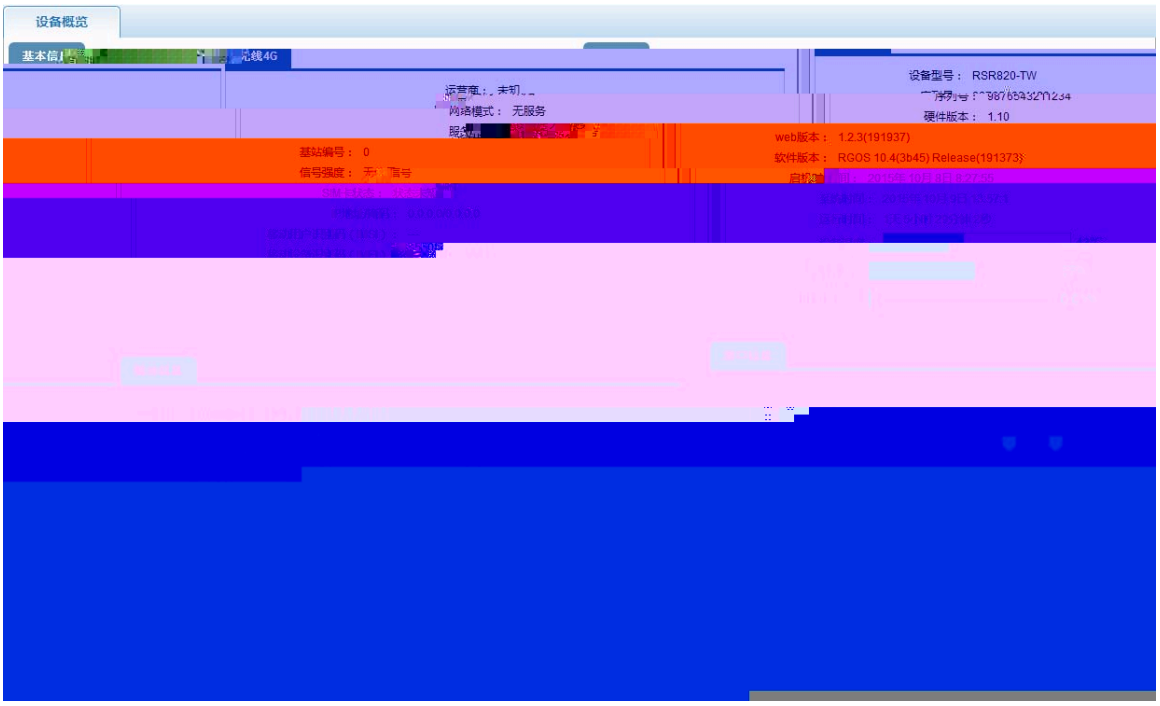
1-6



admin/admin Web , 1-7

admin

1-7:

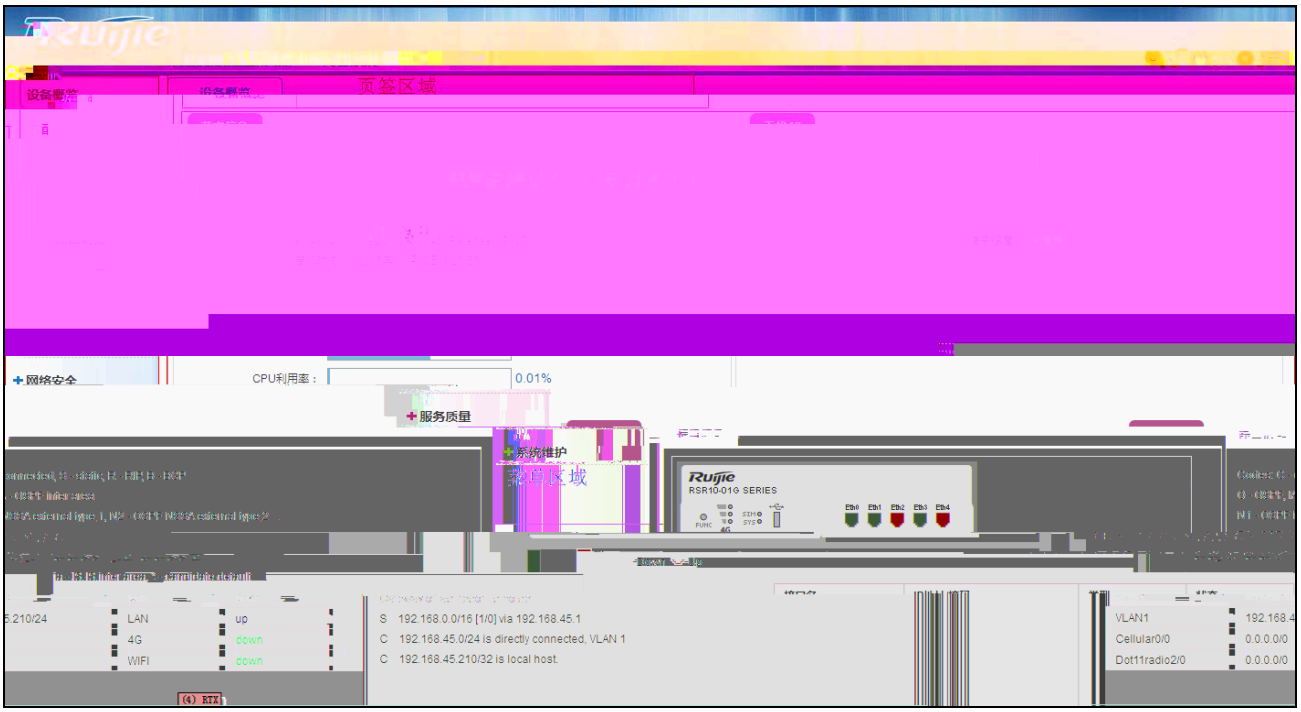


1.2.4 Web

1.2.4.1

RSR Web 1-8

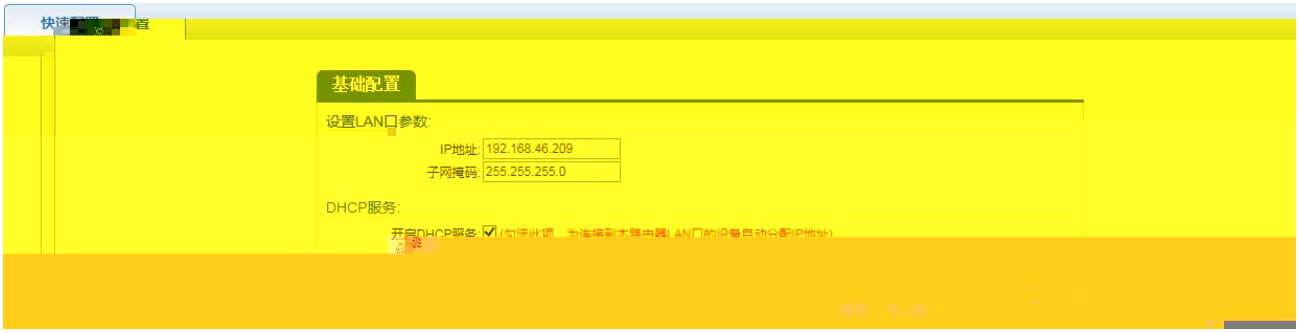
1-8 Web



1-8 Web

1.3

1.3.1



LAN IP

WiFi SSID WiFi

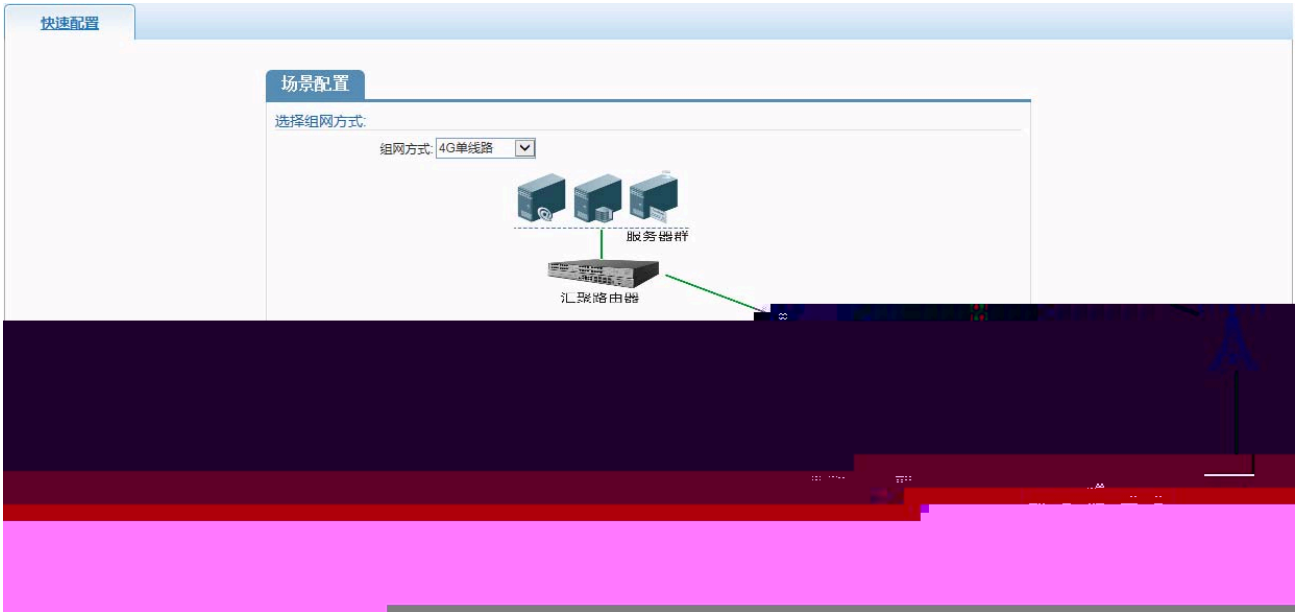
DHCP WiFi IP

Eth1 Eth 4

1.3.2.2

1-11

4G



4G 4G 4G

IP PPPoE ADSL

4G 4G

4G

4G Eth0 Eth4
Eth1 Eth 4

1.3.2.3 VPN

1-13 VPN

GRE

GRE GRE Ping ÷ M d £ ? d

1.3.2.5

1.3.2.5.1 4G NAT

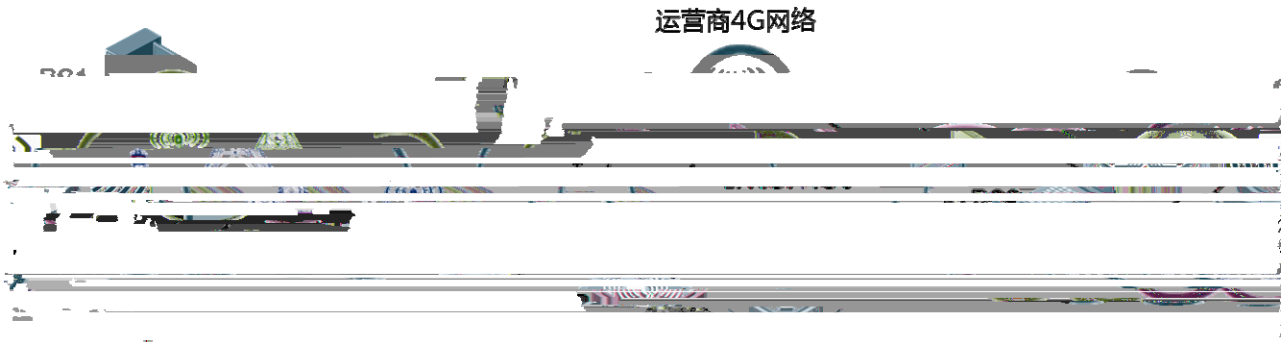
1.3.2.5.1.1

4G

ADSL/PON WiFi

1.3.2.5.1.2

1-15

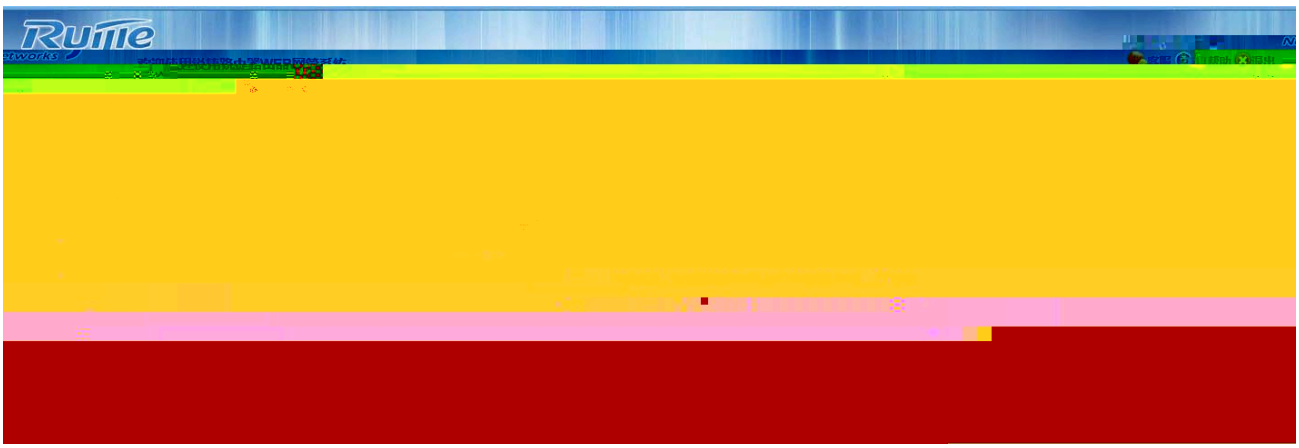


1.3.2.5.1.3

“ ” “ ” LAN IP DHCP DHCP

“ DNS “ ” DNS “ ” “

1-16

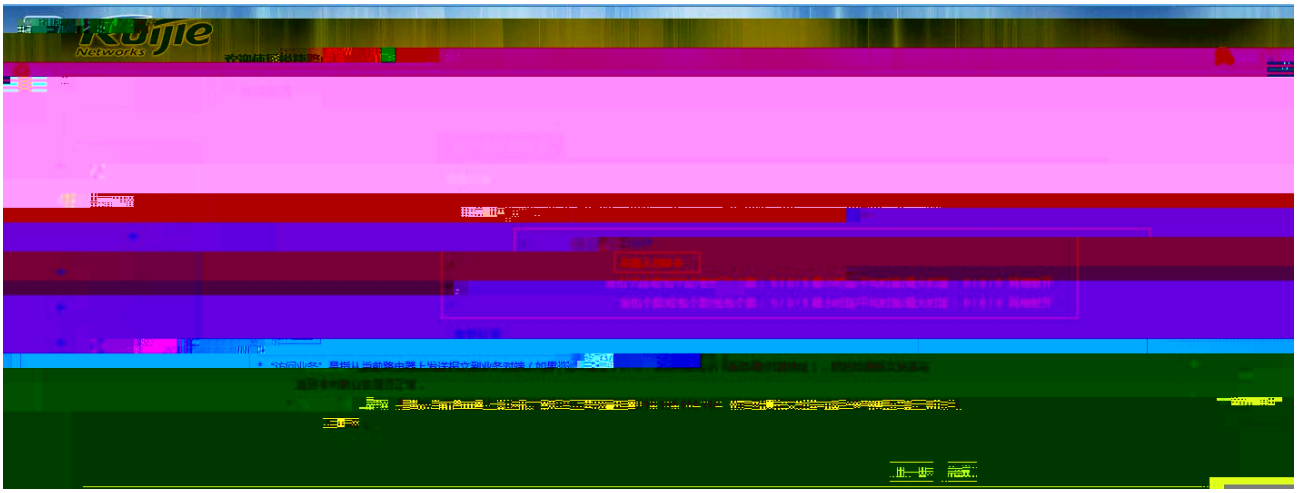


Web Web “ “ ” “ ”
“ 4G ” ”

1-17

“ & “ “
”

1-27



1.3.3

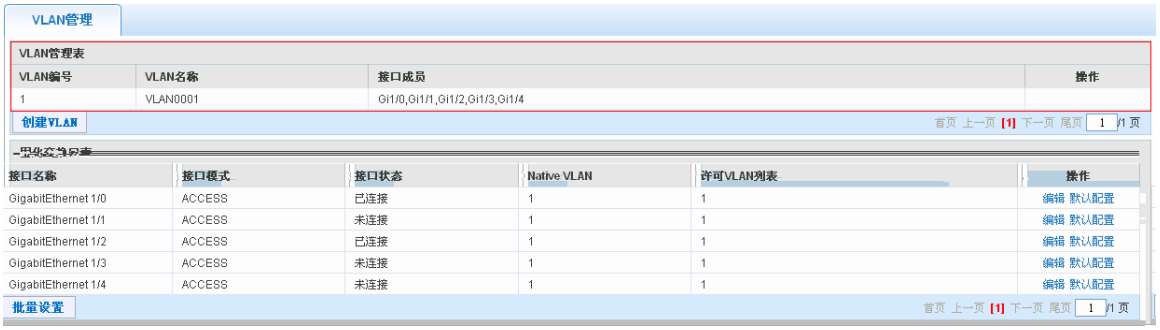
“ VLAN ” “ ” “ ” “ DHCP ” “ SNMP ”

1.3.3.1 VLAN

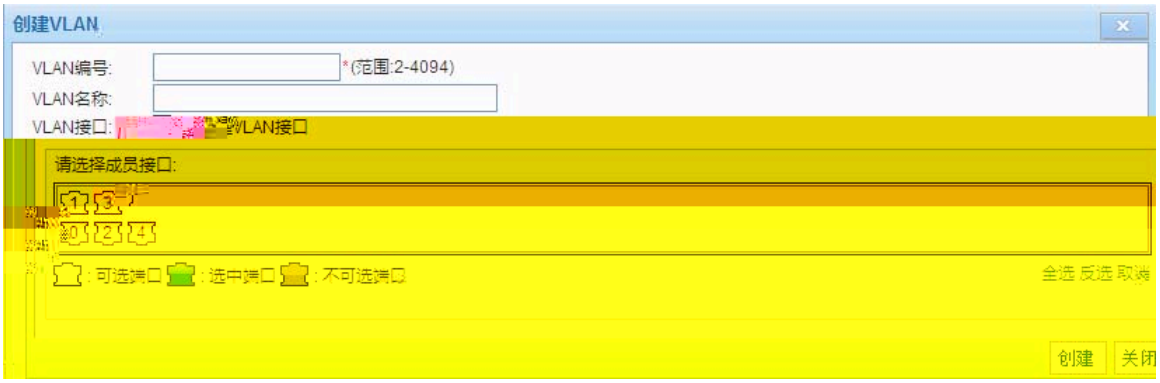
VLAN

VLAN Virtual Local Area Network VLAN
VLAN
VLAN VLAN VLAN VLAN
IP VLAN VLAN

1-28



1-29 VLAN

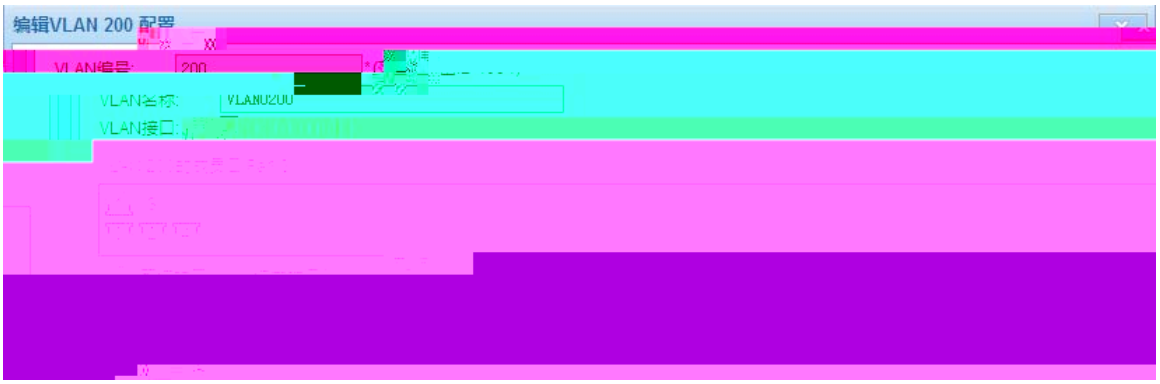


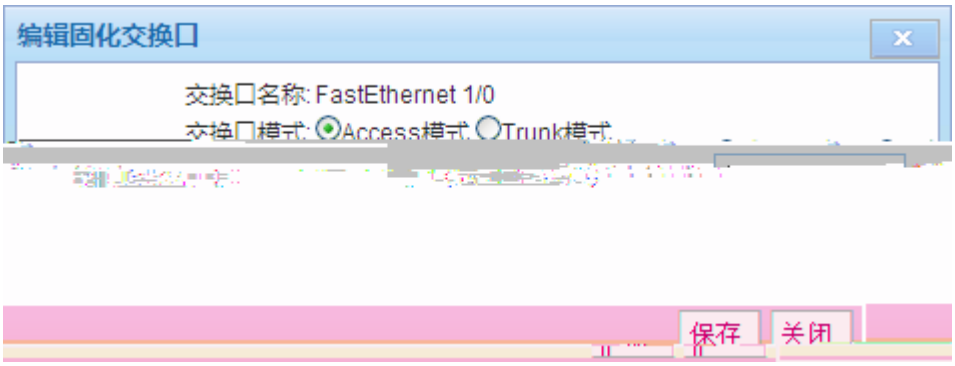
VLAN VLAN ID ID VLAN

VLAN ID VLAN

VLAN SVI VLAN VLAN VLAN
SVI “ ” “ SVI ”

1-30 VLAN





1-35

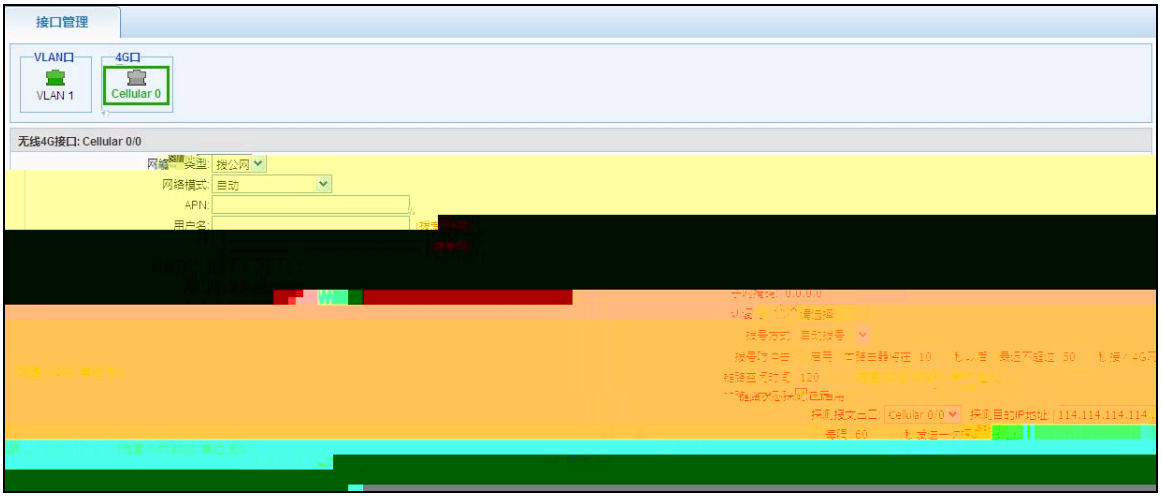
1.3.3.2

“ 4G ”“ SVI “

4G

4G “ “

1-36



LTE 4G TD-SCDMA 3G WCDMA 3G GSM & 2G

(APN) APN APN

/ 4G

IP 4G IP 4G

IP

“ CHAP ” “ PAP ” “ CHAP&PAP ”,

4G UP

4G

SVI

SVI Switch Virtual Interface, SVI

SVI Internet IP IP

DHCP IP PPPoE SVI VLAN ID “ VLAN ”

VLAN ID

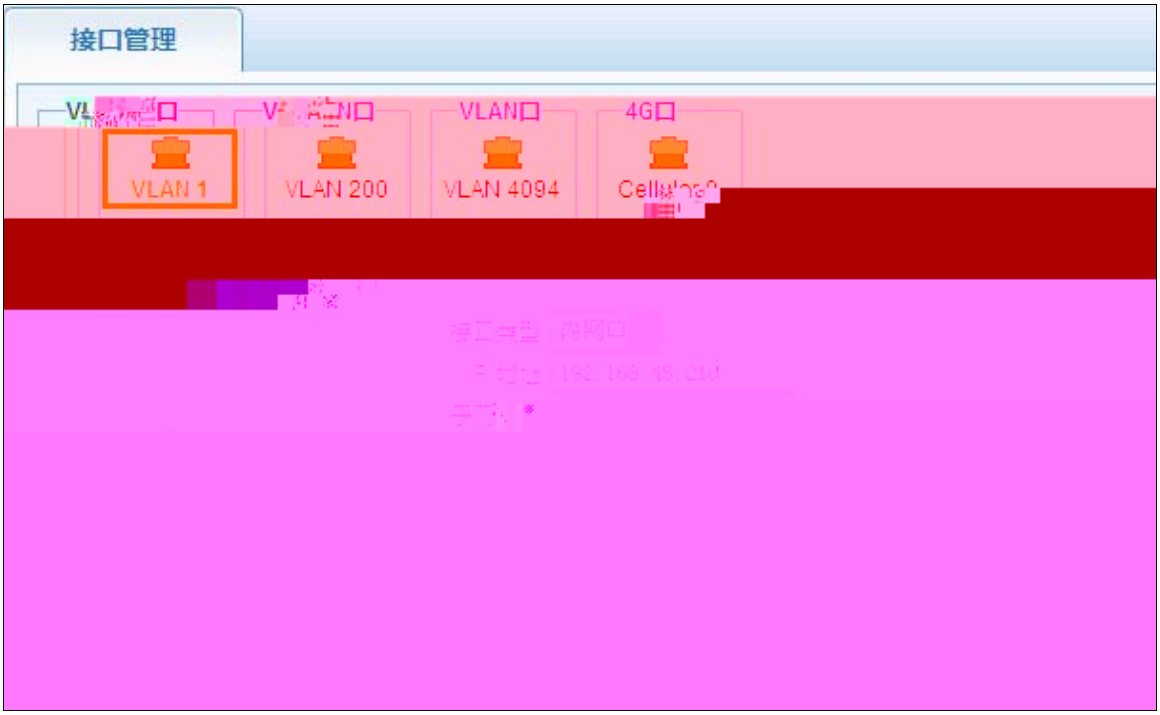
NAT

1-37

“ IP ” IP “ IP ” DHCP

“ PPPoE(ADSL) ” ADSL

1-38



SVI IP IP

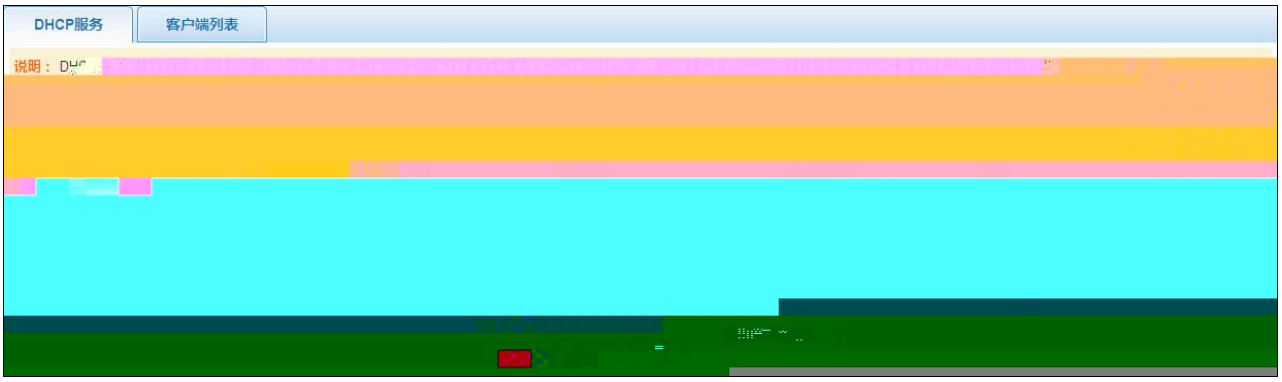
DHCP IP

1.3.3.3 DHCP

Dynamic Host Configuration Protocol, DHCP DHCP
IP DHCP IP IP IP

DHCP DHCP DHCP

1-39



“ IP ”

1-40

“ ” “ ”

1-41

1-32

IP IP

IP IP

DNS/ DNS

IP IP

“ ” “ ”

1-42

1-32

IP IP IP

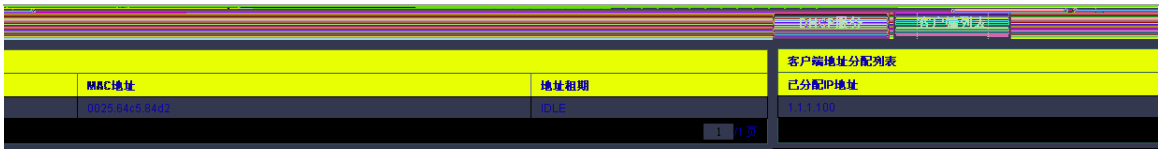
MAC MAC

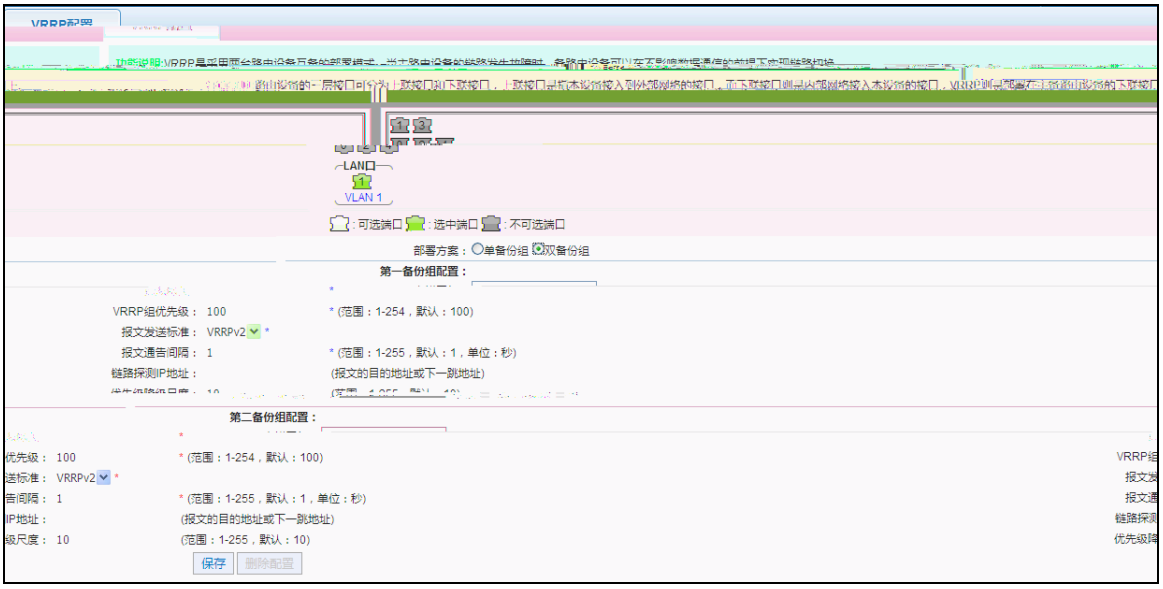
IP

DNS

IP

1-43





1.3.4

1.3.4.1

WiFi AP iPad

1-46 AP

3 SSID

AP SSID

WLAN-ID 1 3

SSID iPad

AP

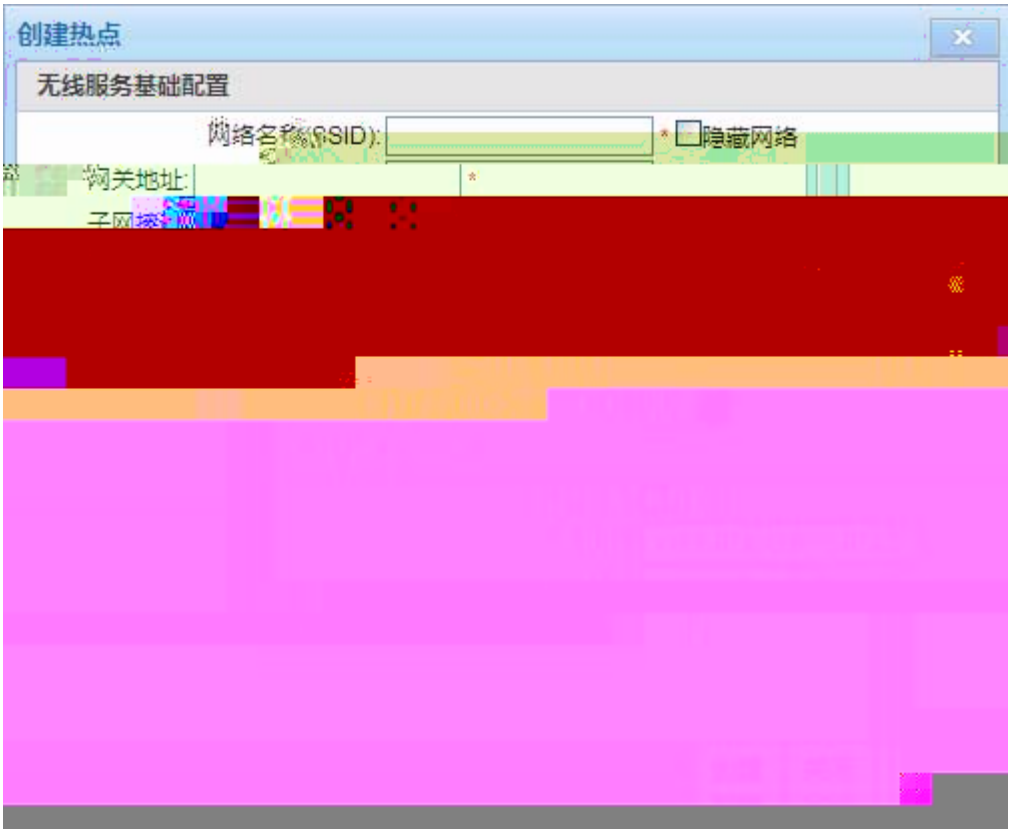
AP

AP AP

1-47

AP AP MAC IP
SSID

1-48 AP



AP

SSID iPad

SSID

DHCP IP

IP / IP WiFi IP

255.255.255.0

DNS

WiFi

WiFi

WPA-PSK/ WPA2-PSK　WPA2-PSK　WPA-PSK　　WPA-PSK/ WPA2-PSK

AES/TKIP　AES　TKIP

8-63　ASCII

1.3.4.2

WiFi

1-49　　WiFi

Station　　AP

Station

WiFi

WiFi

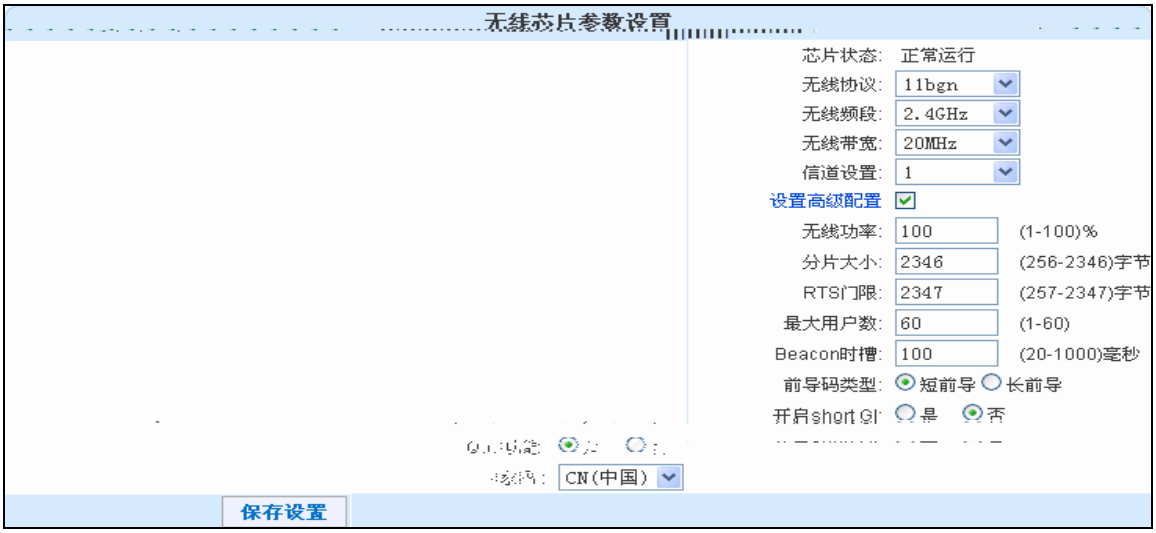
IP　　WiFi　IP　　IP

DNS　　DNS IP

1.3.4.3

WiFi

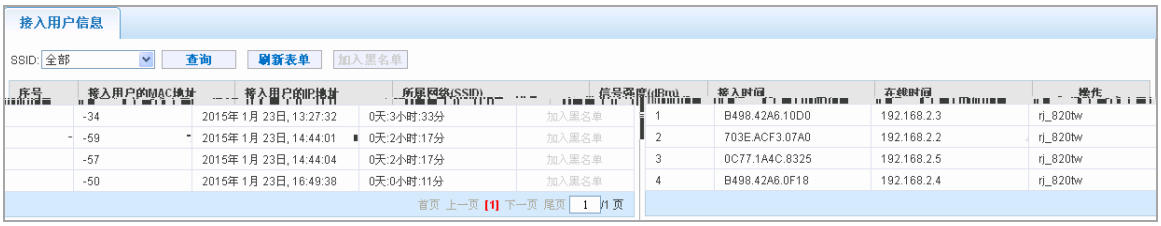
1-50



1.3.4.4

WiFi SSID

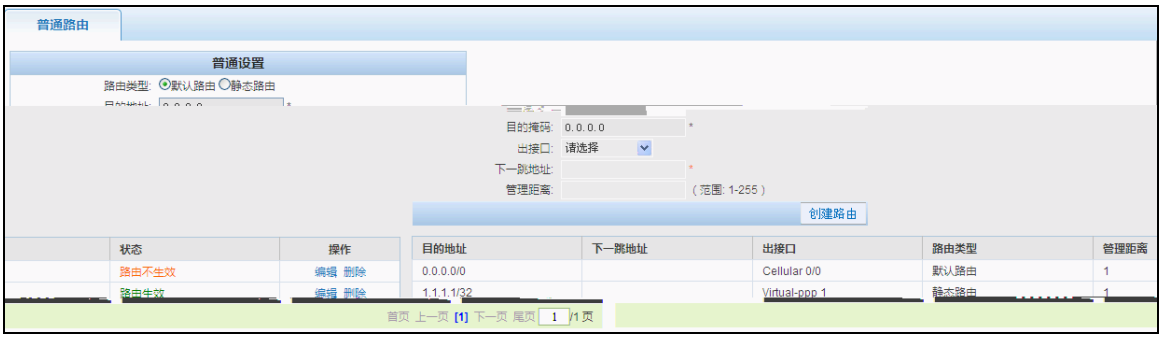
1-51



1.3.5

1.3.5.1

1-52



IP

IP

IP

“ 1 ”

0.0.0.0

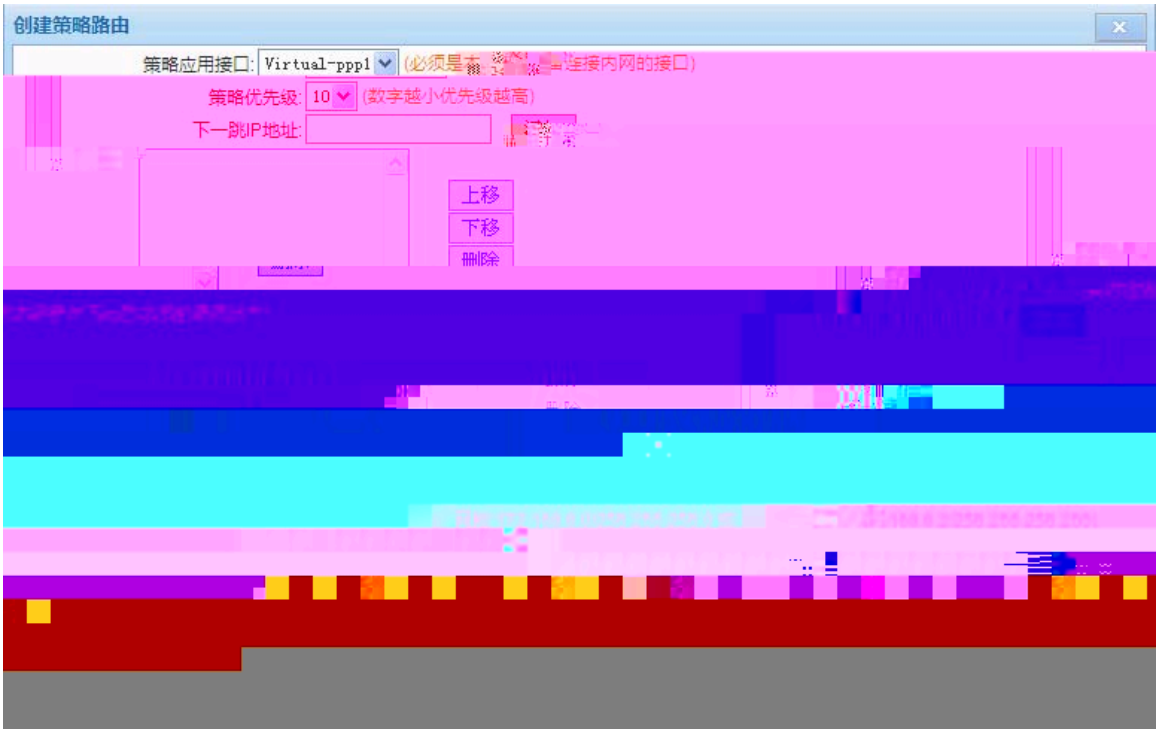
1.3.5.2

PBR Policy-Based Routing

IP

1-53

1-54



IP

IP

1.3.5.3 RIP

RIP(Routing information Protocol) (Interior Gateway Protocol, IGP)
(distance-vector) RIP UDP

15

Web RIPv2 RIP RIP Web
RIP IP
RIP

IP RIP

RIP

RIP

RIP

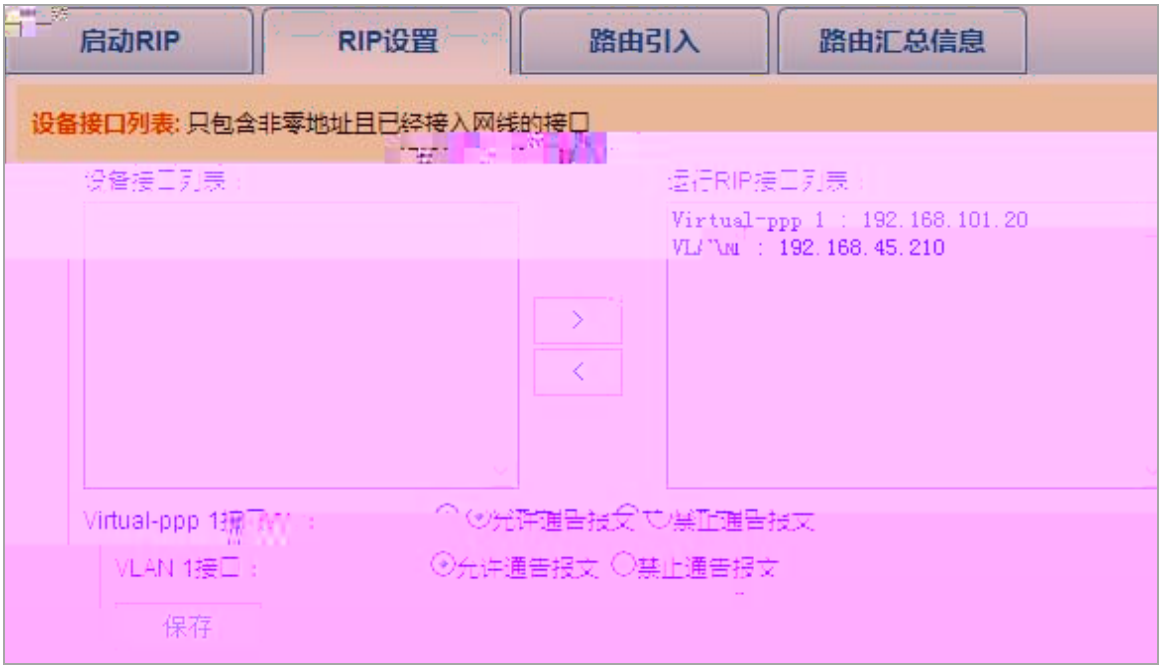
1-55

RIP

VLAN

RIP RIP

1-56

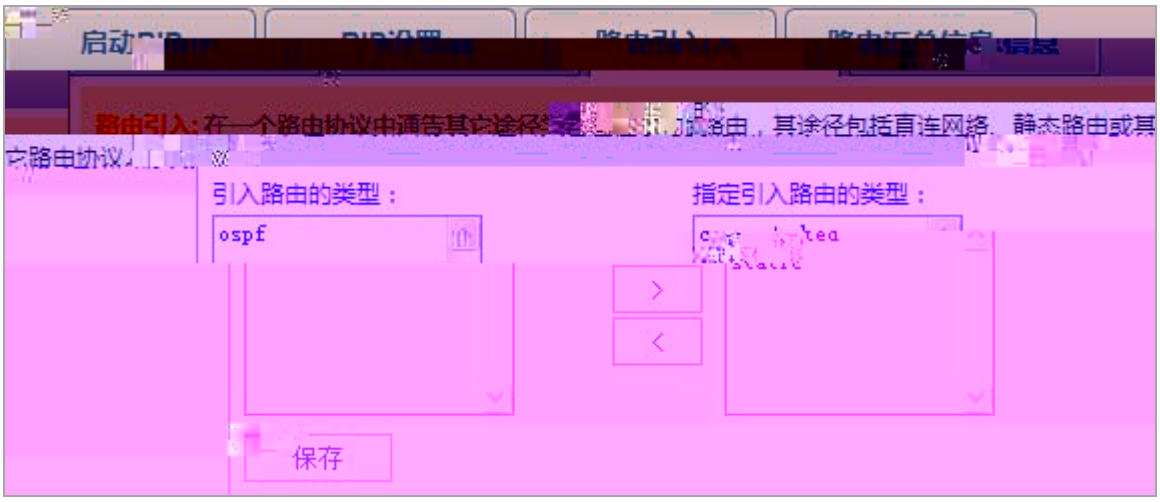


: RIP OSPF

OSPF RIP OSPF

OSPF Connected Static

1-57



1-58

1.3.5.4 OSPF

OSPF Open Shortest Path First (Interior Gateway Protocol,IGP),
Autonomous System ,
(RIP) OSPF

OSPF OSPF Web
OSPF IP
OSPF

	ID	ID OSPF

OSPF

OSPF ID “1”

1-59

OSPF

VLAN

OSPF

1-60

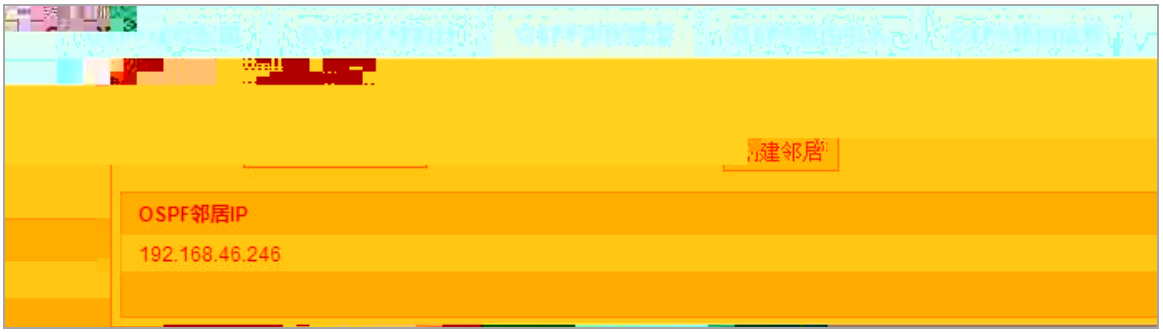
OSPF

OSPF OSPF

OSPF OSPF

OSPF

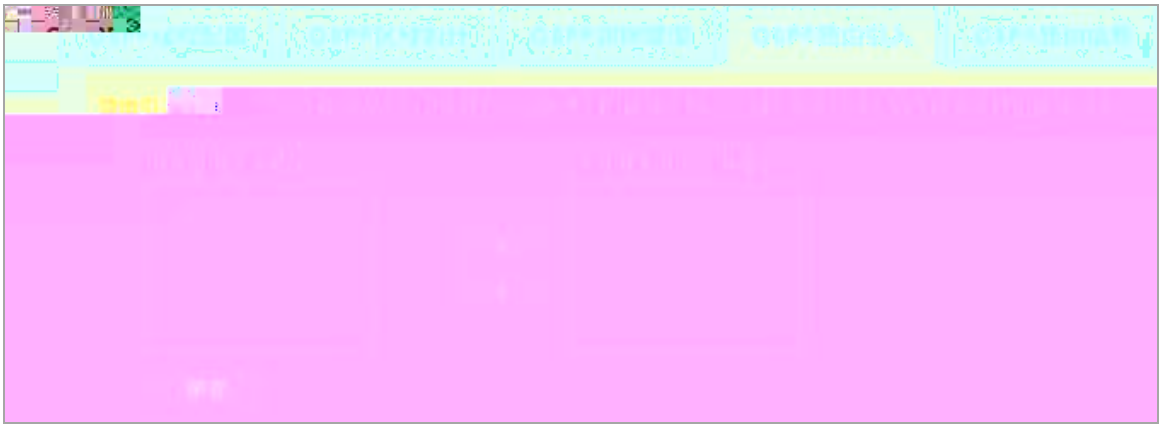
1-61



OSPF

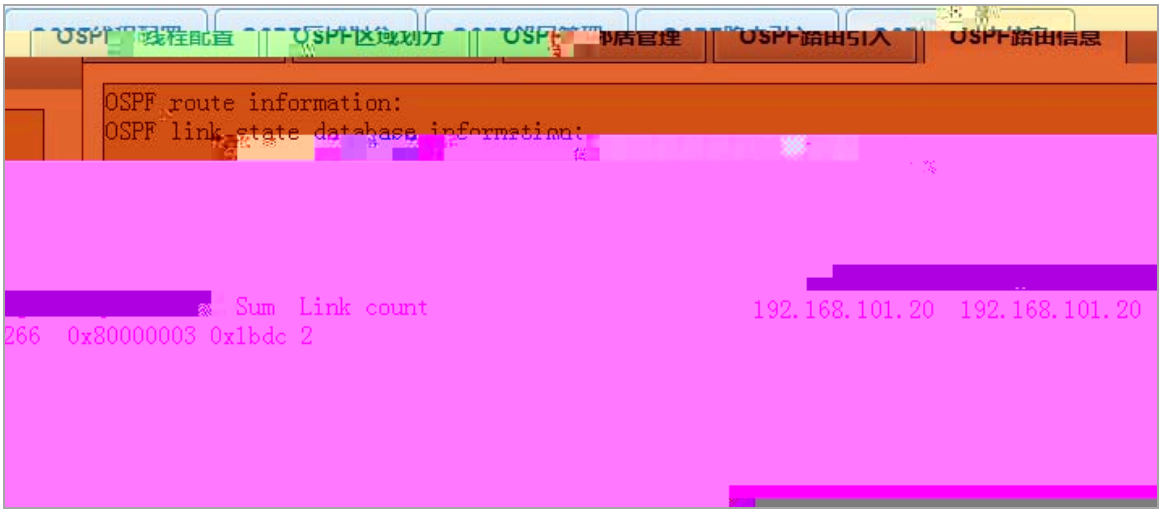
OSPF : OSPF RIP OSPF

RIP ḍ¾ O ضخ RIP ـا M Ṇ RDخيL



OSPF

1-63



1.3.6

VPN “Virtual Private Network” “ ”

VPN

1.3.6.1 VPDN

VPDN VPDN VPDN L2TP

1-64

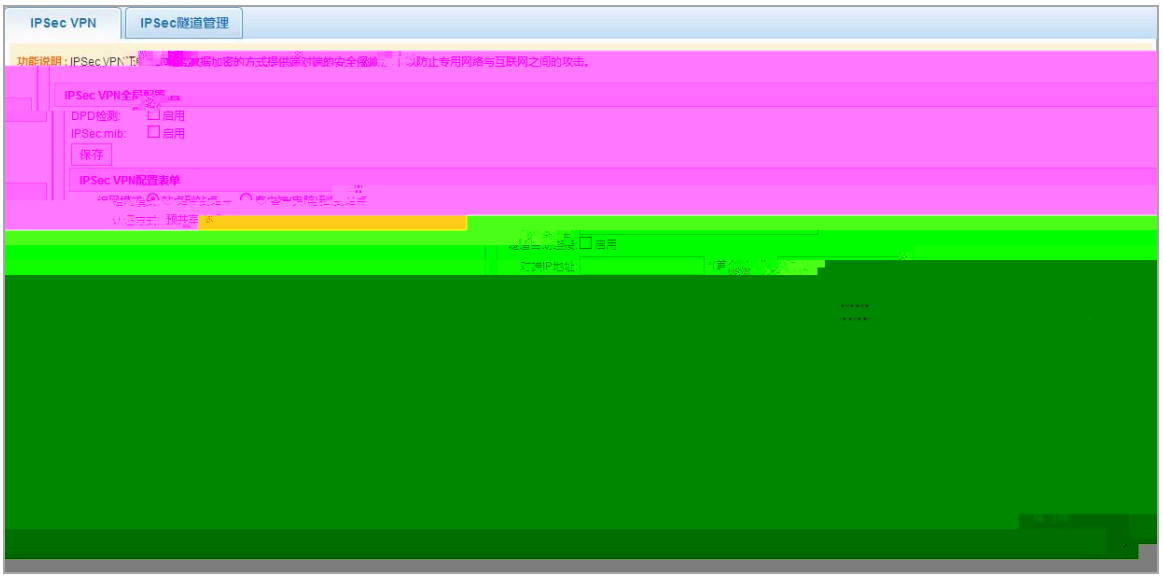
1.3.6.3 IPSec VPN

VPN Internet Internet

IPSec

IPSec

1-67



DPD

“ ”

IPSec

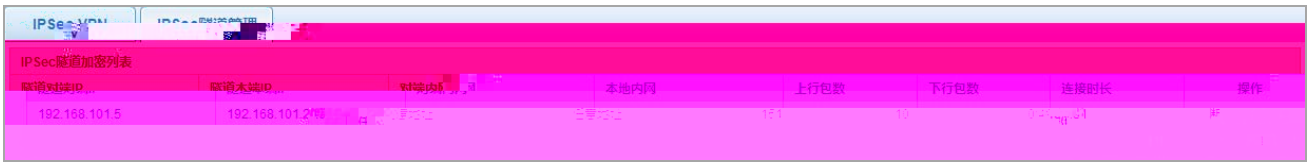
IPSec IP

IKE ژ ל ɥ ύ є

VPN

IPSec VPN

1-68



IPSec IP IP

1.3.7

PKI

CA Certificate Authority

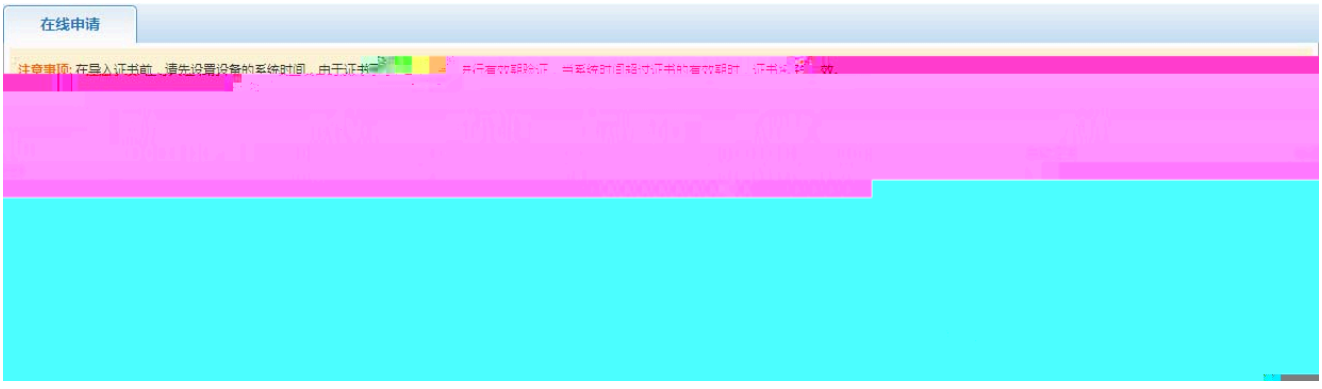
CA

CA

1.3.7.1

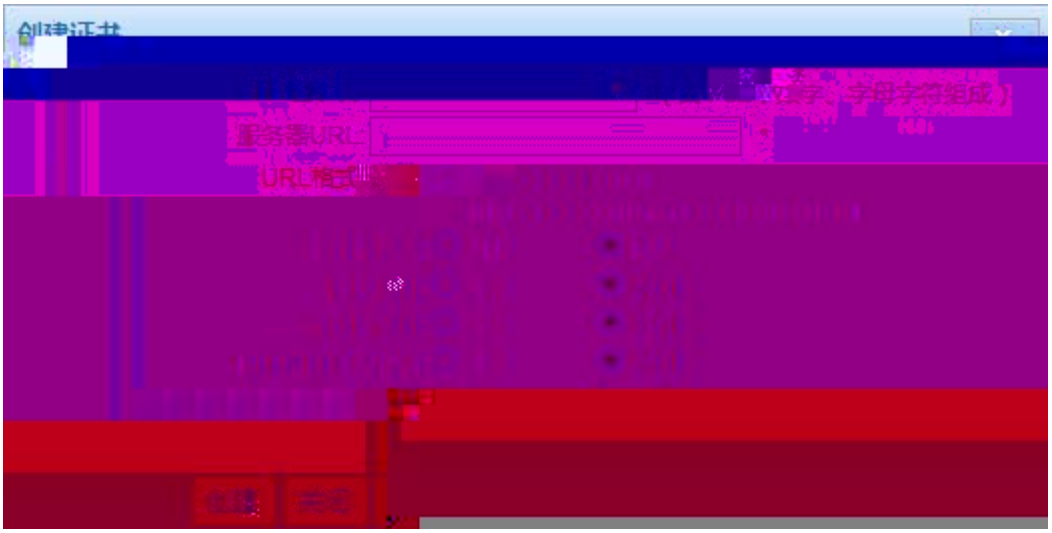
CA Certificate Authority

1-69



“ ”

1-70



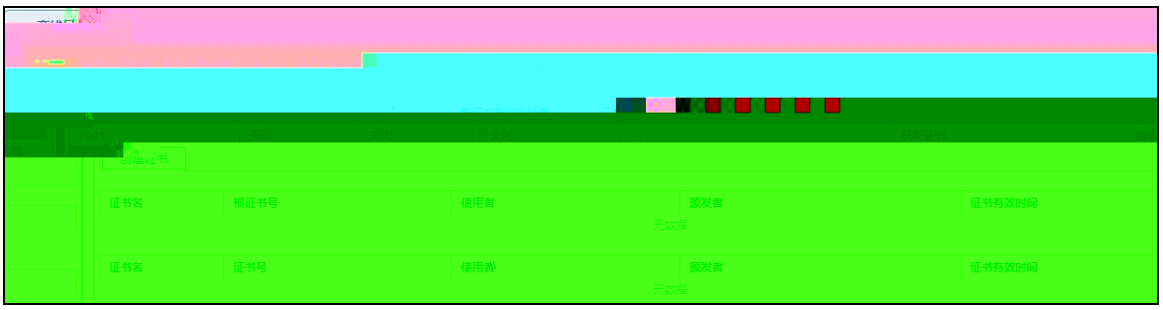
“ ”

1-71

1.3.7.2

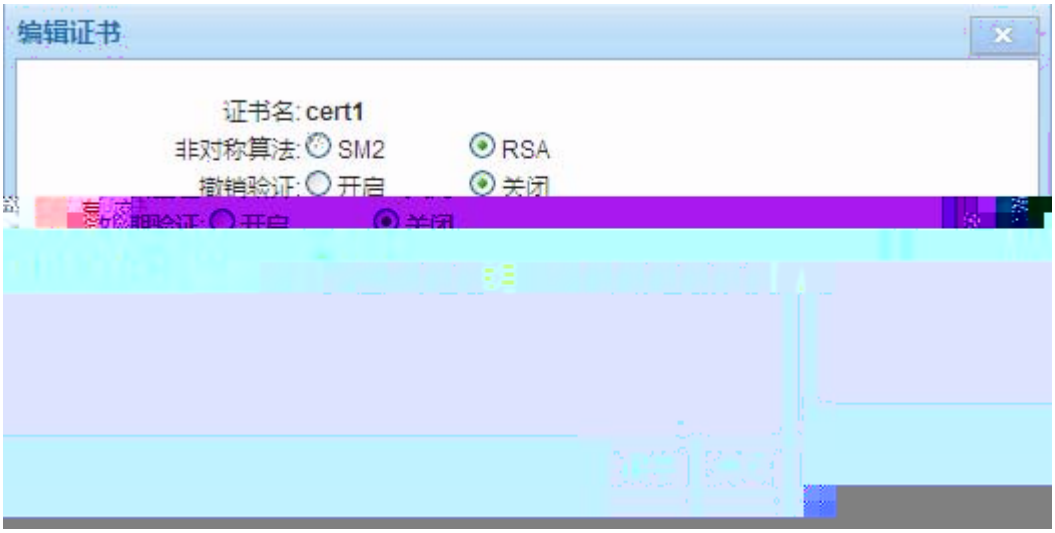
CA Certificate Authority “ *.pfx ”

1-72



“ ”

1-73

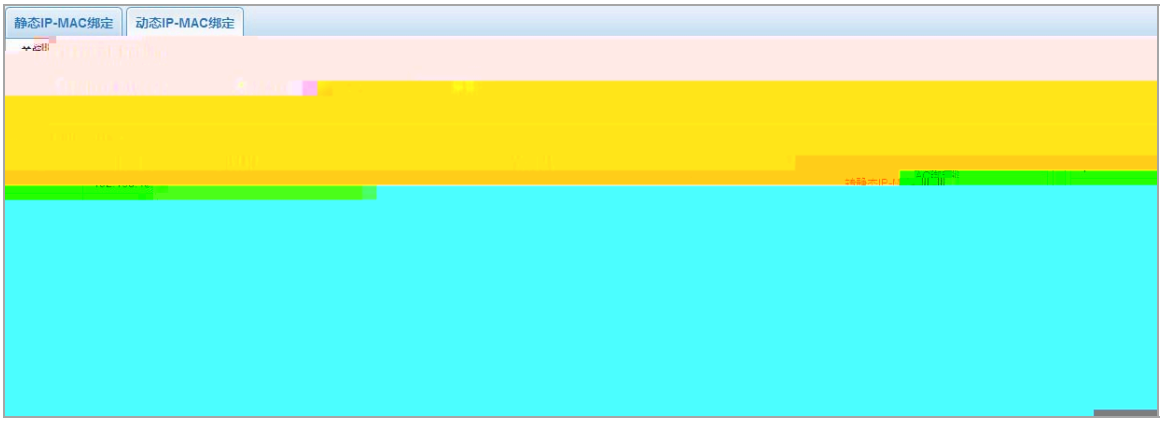

编辑证书
证书名: cert1
非对称算法: SM2 RSA
撤销验证: 开启 关闭

“ ”

1-74

离线导入证书
证书名: cert1
证书类型: 签名证书 加密证书

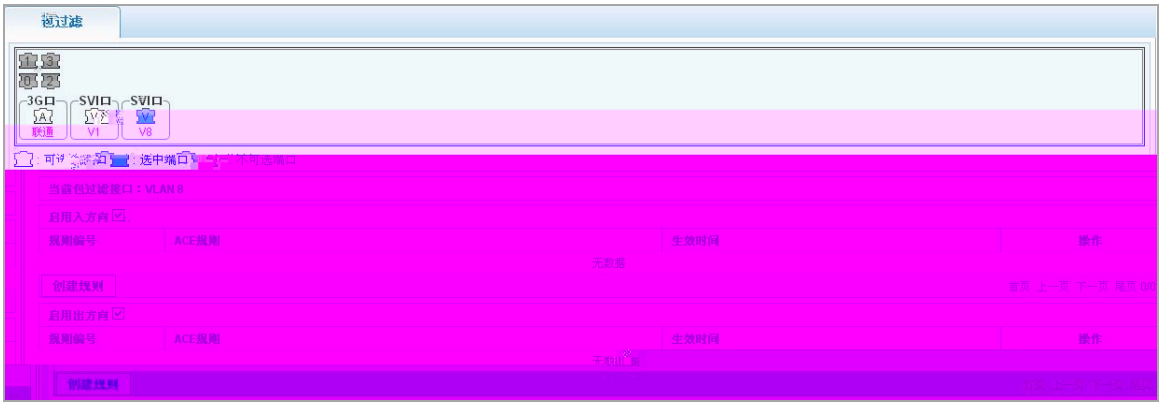
1-75



1.3.9.3

IP

1-82



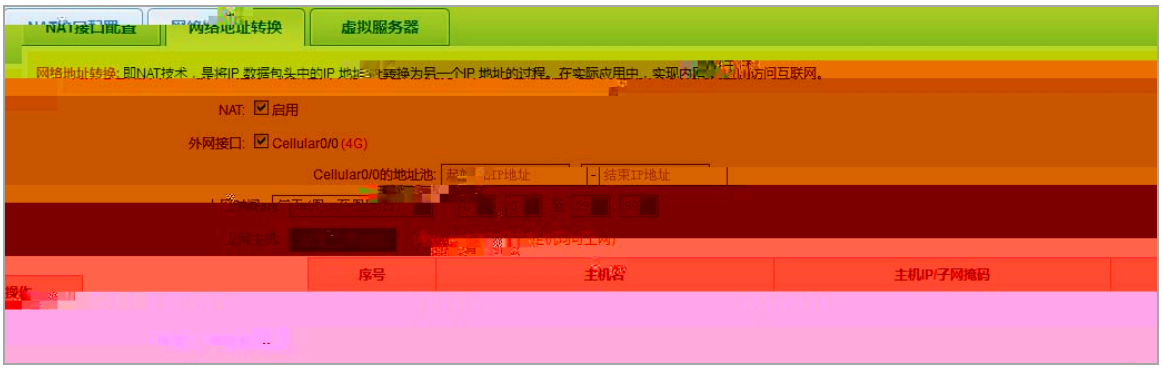
1-2147483647

IP TCP UDP ICMP

18 Dialer Virtual-PPP

NAT NAT “ Network Address Translation ” “ ” IP Internet IP IP

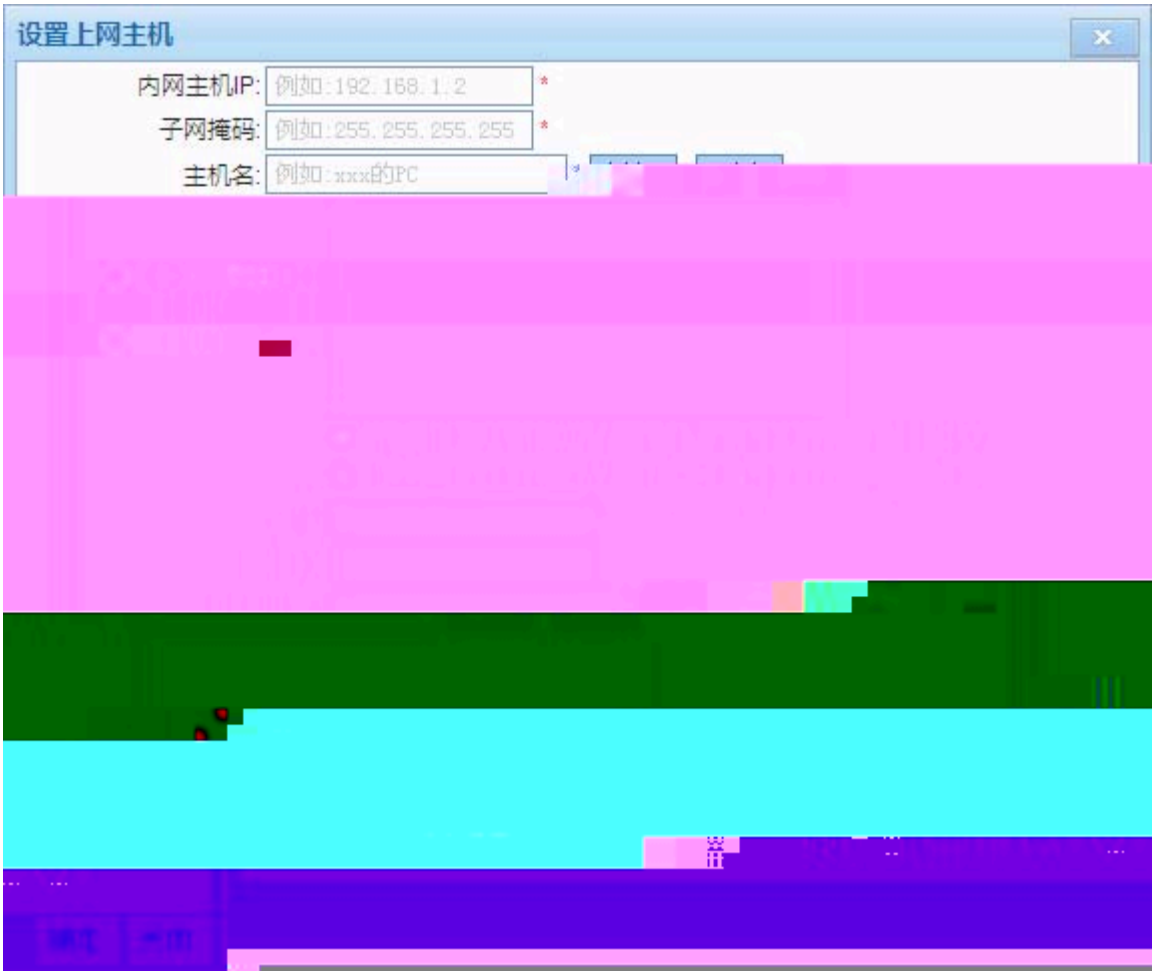
1-85



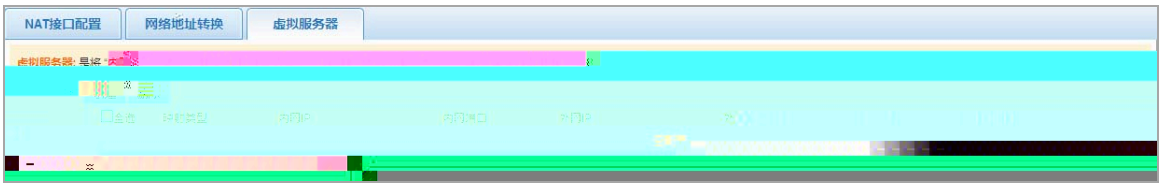
IP IP

“ ”

1-86



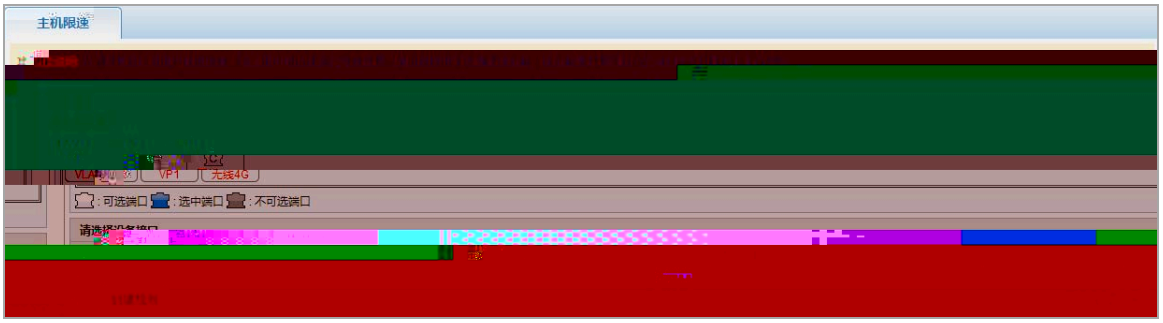
1-87



TCP UDP

IP IP IP

1 65535



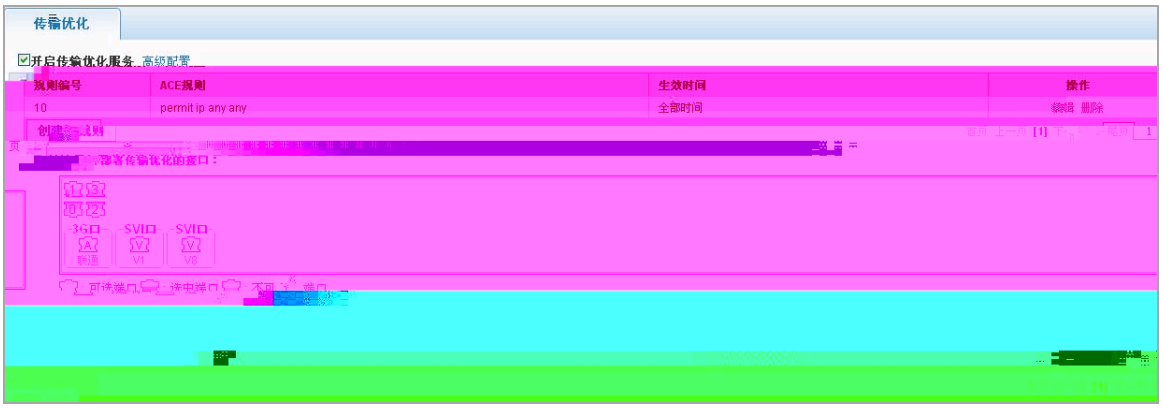
IP IP

18 Dialer Virtual-PPP

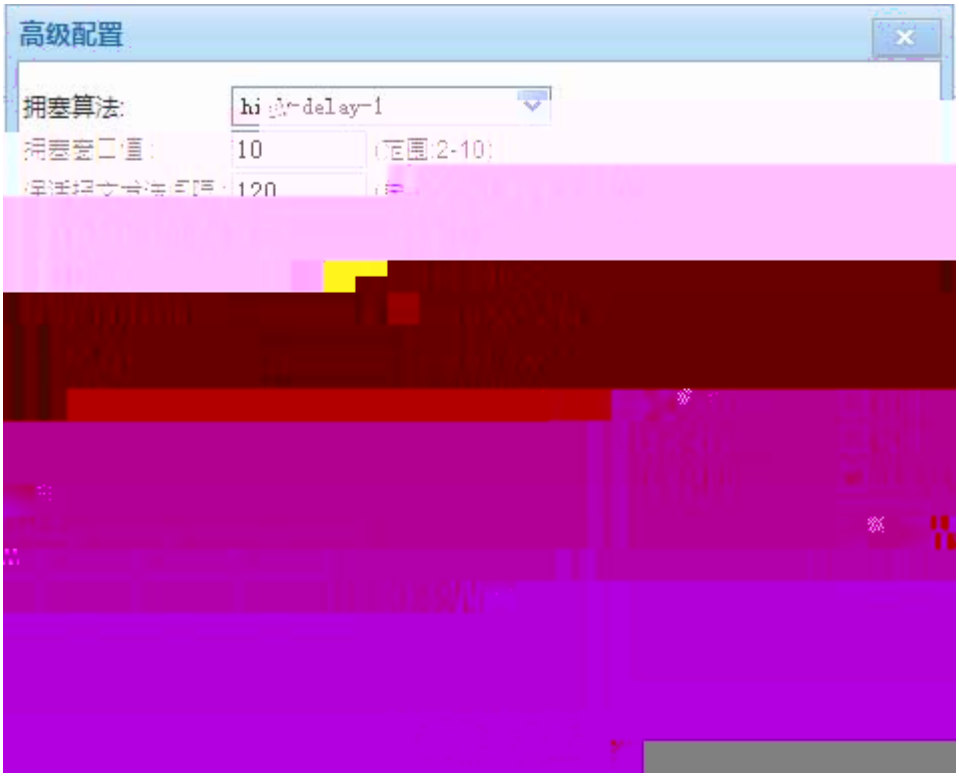
1-91

1.3.10.2

1-92



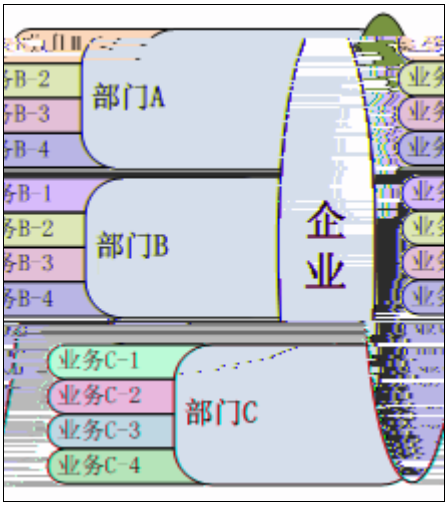
1-93



1.3.10.3

HQoS QoS Quality of Service

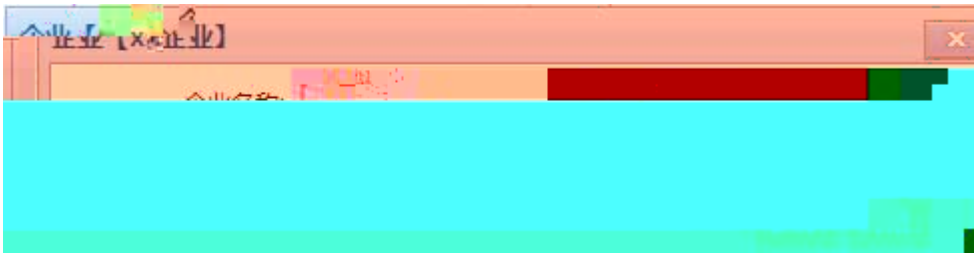
QoS

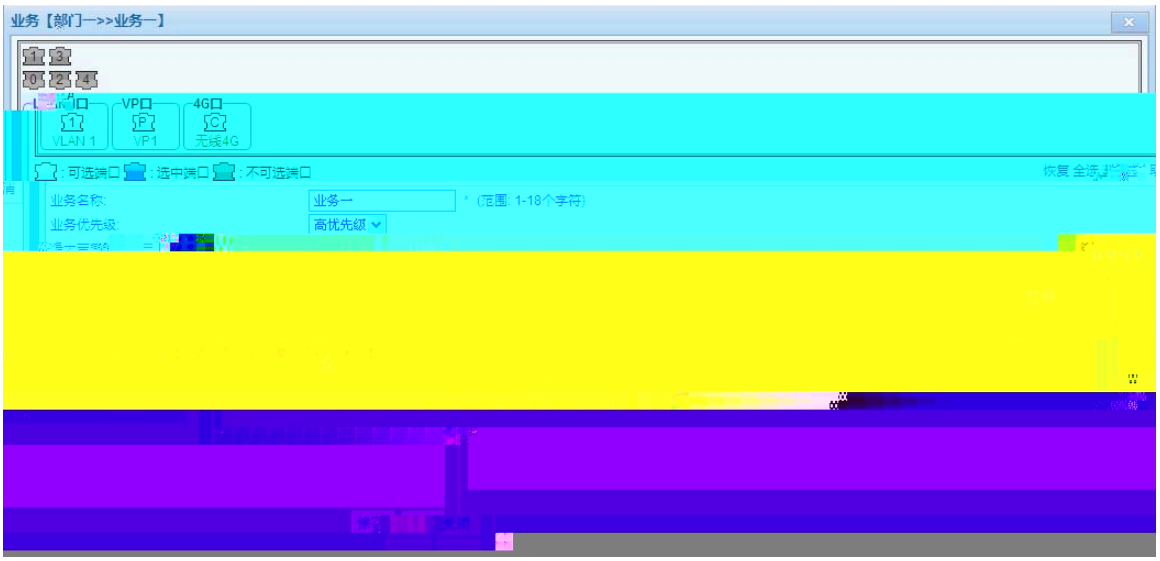


1-96

1)

“ ”





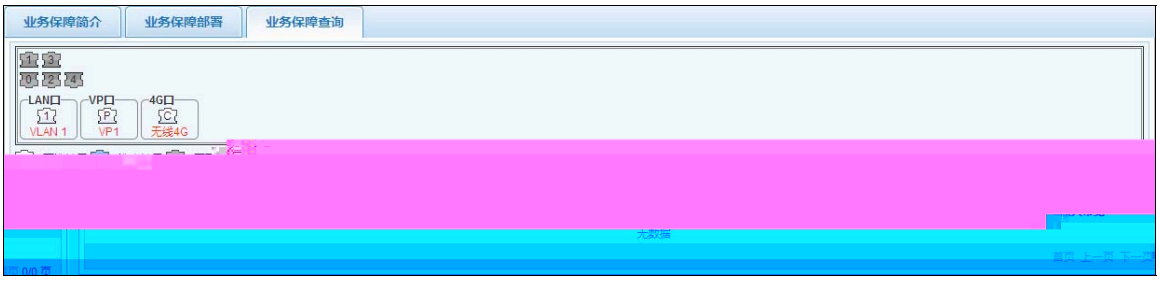
ACL “ ”

18 Dialer Virtual-PPP

1-100

DSCP Differentiated Services Code Point ,IETF 1998 12

1-101

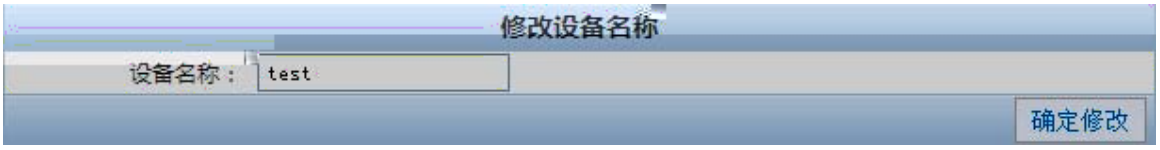


18 Dialer Virtual-PPP

1.3.11

1.3.11.1

1-102



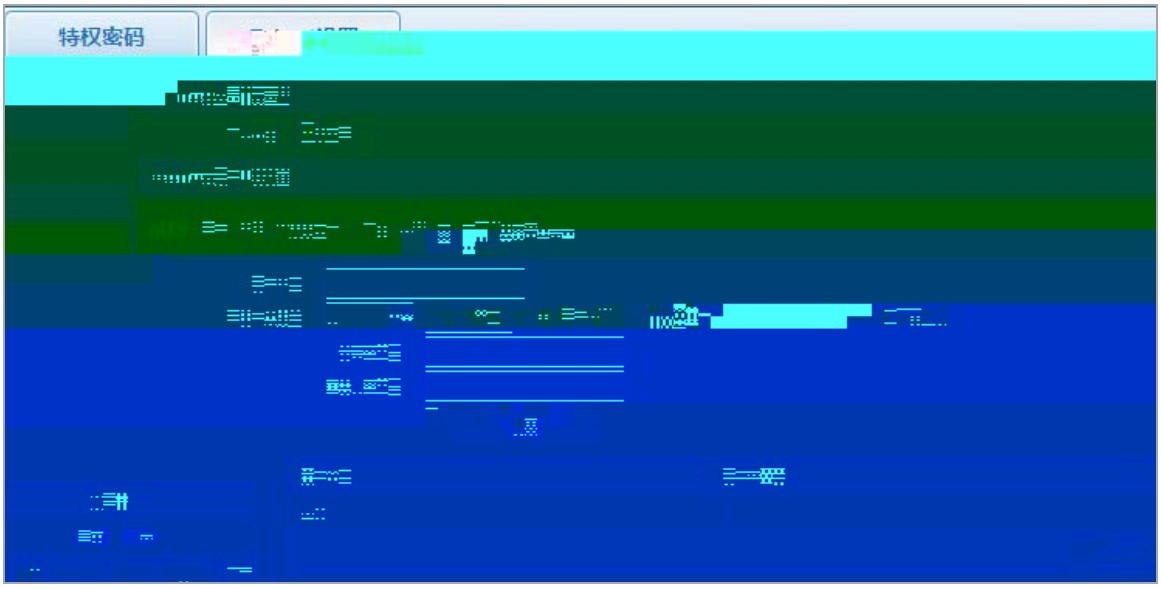
1.3.11.2

PC

1-103

Telnet Telnet

1-106



Telnet “0” “1” Telnet

1.3.11.5

Web

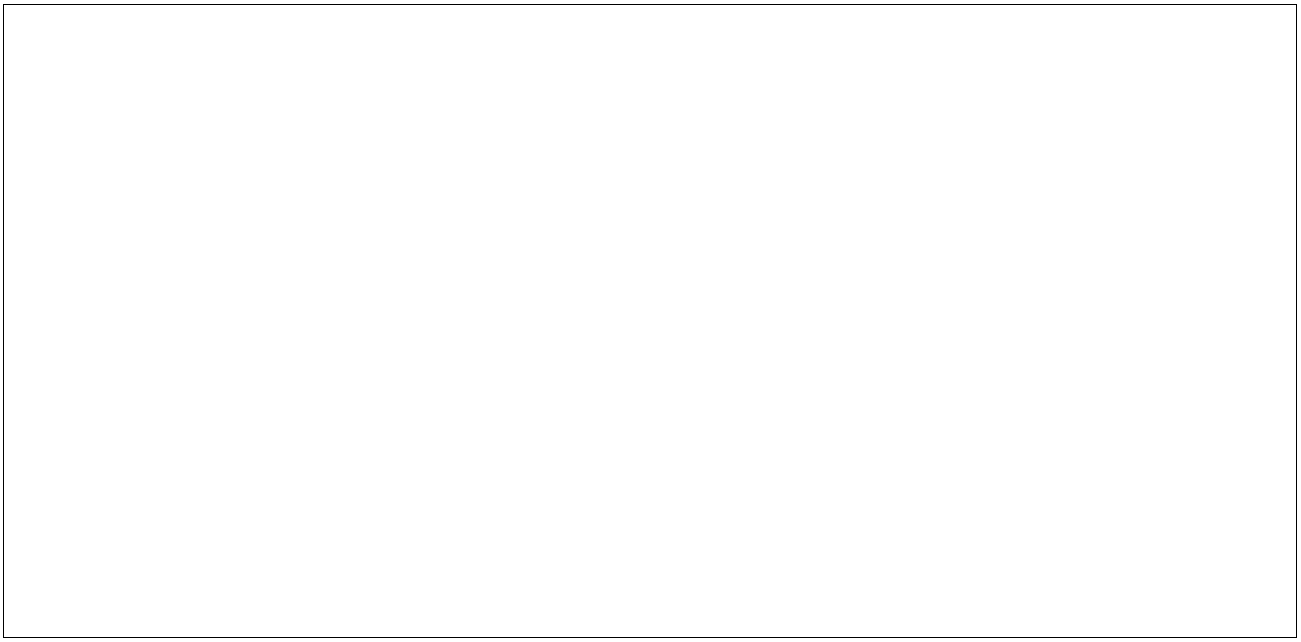
“ ” “ ” “

”

50

Web

1-107



" "

50

“bin” Web “upd”

flash

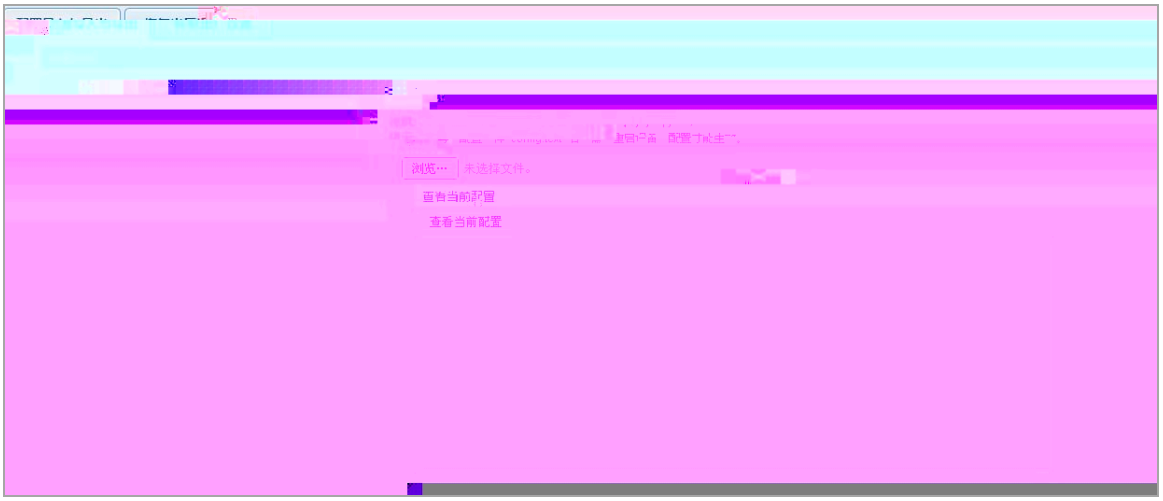
1.3.11.6

“ .text ”

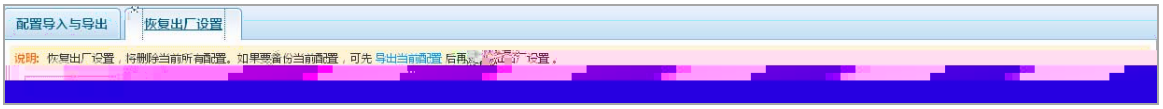
“ config.text ”

config.text

1-108



1-109



1.3.11.7

“ ” 2

Web Web

1-110

1.3.11.8 CLI

Console Telnet

1-111

Ping

Ping “ !!!!! ” “ ..... ”

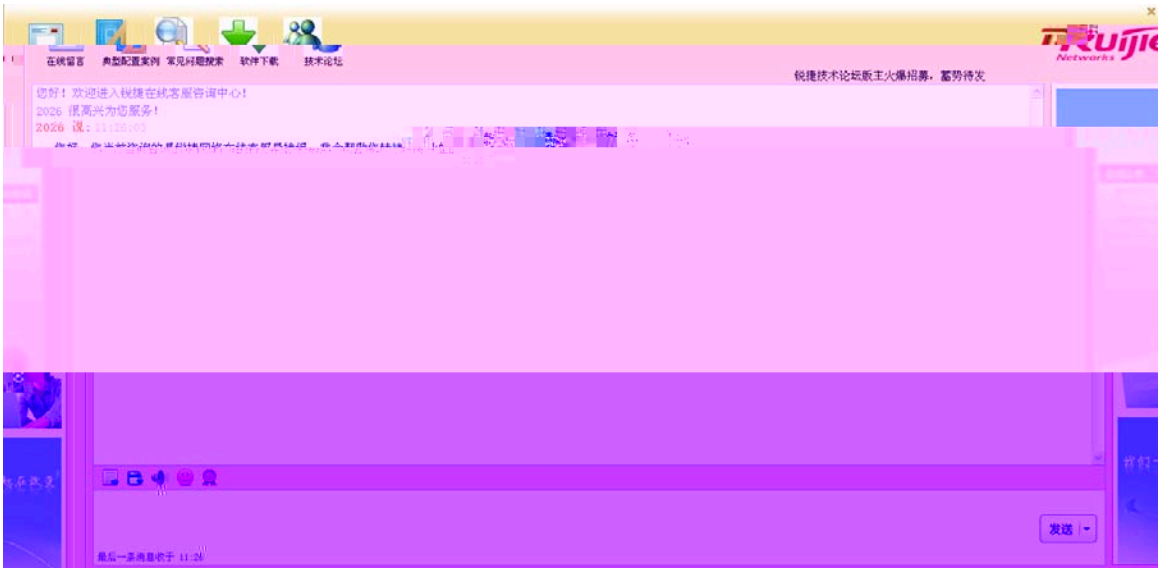
“ ” ;“ ”

1-114

Traceroute

1-115

1-120



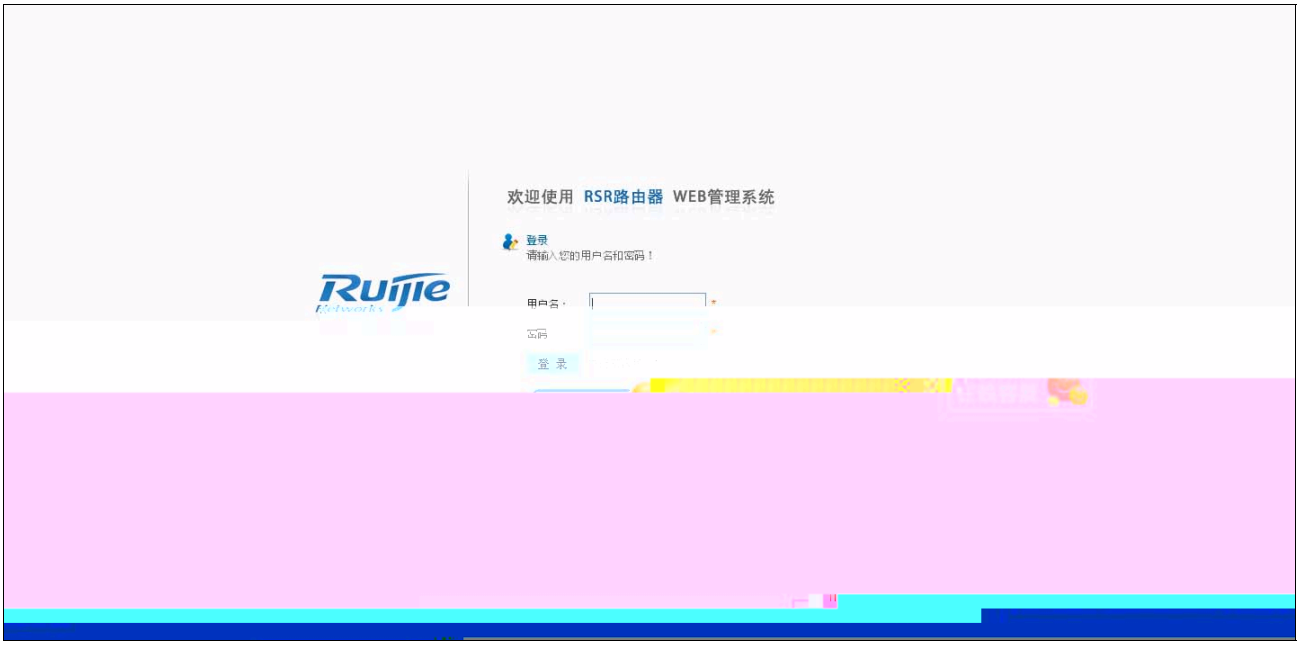
: 8:30-18:00

4008-111-000

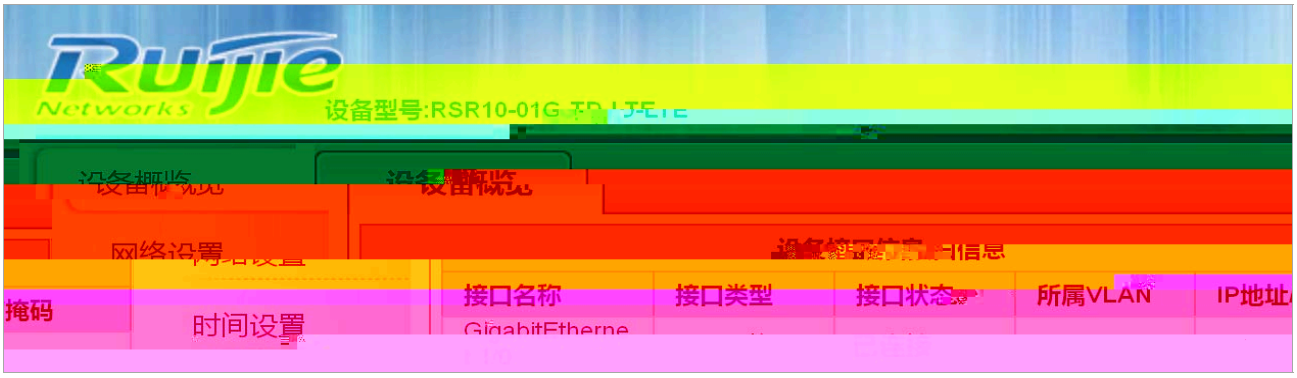
Web Web

1.4.2

1-121



1.5



100%

“ Ctrl (+) ” “ Ctrl (-) ” , “ Ctrl (0) ”

Ctrl (+)

Ctrl (-)

Ctrl (0) 100%

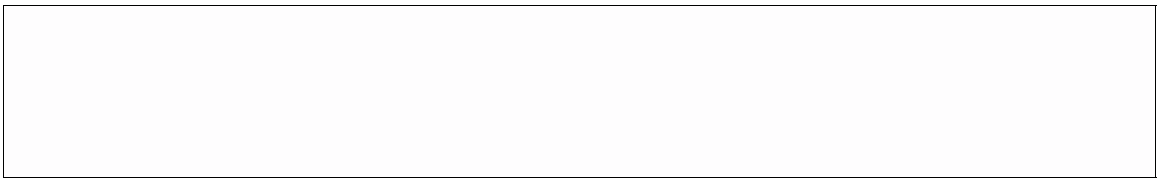
1.5.3 Web

Web Web

IE

1-124 IE

1-126



1.5.5 Web

Web Web 10
10 Web

10

1.5.6

Web
18

PPPoE 4 Dialer

VPN 3-5 Virtual-PPP